



**Banca Popolare  
di Sondrio** FONDATA NEL 1871

# PILLAR 3 REPORT

**PUBLIC DISCLOSURES AS AT 31.12.2023**

Banca Popolare di Sondrio Group

This document is an English translation of the original Italian document "Terzo Pilastro Informativa al pubblico al 31/12/2023 – Gruppo Banca Popolare di Sondrio", prepared only for the convenience of the international readers. In the case of discrepancies between the Italian version and the English translation, the Italian document shall prevail.

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Sondrio Companies Register No. 00053810149  
Official List of Banks No. 842  
Parent Company of the Banca Popolare di Sondrio Banking Group,  
Official List of Banking Groups under No. 5696.0  
Member of the Interbank Deposit Guarantee Fund  
Tax code and VAT number: 00053810149  
Share capital: € 1,360,157,331; Reserves: € 1,385,452,113  
(Figures approved at the Shareholders' meeting of 29 April 2023)  
Stock listed on the Mercato Telematico Azionario (MTA or Screen-Traded Market)

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# Introduction

The “Basel III” regulatory framework transposed into the European Union regulatory system has been in force since 1 January 2014:

- Regulation (EU) No 575/2013 (Capital Requirements Regulation, known as “CRR”) of the European Parliament and Council of 26 June 2013 governing the prudential requirements for credit institutions and investment firms (“Pillar 1” provisions) and the rules on public disclosures by institutions (“Pillar 3” provisions);
- Directive 2013/36/EU (Capital Requirements Directive, known as “CRD IV”) of the European Parliament and Council of 26 June 2013 on access to the activity of credit institutions and the prudential supervision of credit institutions and investment firms.

On 7 June 2019, after the publication in the Official Journal of the European Union, the following reform package introducing significant changes to the Union’s regulatory framework was issued:

- Regulation (EU) No 2019/876 of the European Parliament and of the Council of 20 May 2019, amending Regulation (EU) No 575/2013 (known as “CRR II”);
- Directive (EU) No 2019/878 of the European Parliament and of the Council of 20 May 2019, amending Directive (EU) 2013/36/EU (known as “CRD V”).

The prudential regime applicable to financial institutions is based on three “Pillars”.

“**Pillar 1**” (*Minimum prudential requirements*) imposes specific capital requirements to all supervised entities designed to cope with the typical banking and finance risks, providing for alternative calculation methods, characterised by different levels of complexity. This is integrated by the imposition of constraints on excessive leverage, new requirements and supervisory arrangements for liquidity risk and the integration of provisions under the bank resolution framework (MREL-TLAC).

“**Pillar 2**” (*Supervisory review process*) requires banks to equip themselves with strategies and internal processes in order to verify the adequacy of both capital (ICAAP - Internal Capital Adequacy Assessment Process) and liquidity positions (ILAAP - Internal Liquidity Adequacy Assessment Process) in a current and future perspective, as well as carrying out a clear and independent assessment of the risks to which they are exposed in relation to their operations and their reference markets, also considering risk profiles other than those recognised by the Pillar 1 capital requirements. Verifying the reliability and consistency of the results of these two processes and adopting, if necessary, appropriate corrective measures, is up to the Supervisory Authorities as part of their Supervisory Review and Evaluation Process (SREP). Increasing importance is also attributed to corporate governance structures and internal control frameworks of intermediaries as determining factors for the stability of the individual institutions as well as of the financial system as a whole.

“**Pillar 3**” (*Market discipline*) establishes specific public disclosure requirements to allow market participants to make a more accurate assessment of banks’ capital strength and exposure to risks, as well as of their risk management and control systems. In this regard, key developments have concerned the introduction of broader transparency requirements for supervised entities, given the market’s need for more and more information on the qualitative composition of intermediaries’ regulatory capital and the ways in which they quantify their own capital ratios.

Pillar 3 disclosure is governed by the CRR, Part Eight “*Disclosure by institutions*” (articles 431 – 455) and Part Ten, Title I, Chapter 1 “*Own funds requirements, unrealised gains and losses measured at fair value and deductions*” (article 473-bis) and Chapter 3 “*Transitional provisions for disclosure of own funds*” (article 492), as amended by Regulation (EU) 2019/876 (“CRR II”).



The provisions have been transposed by the Bank of Italy into Circular No. 285 of 17 December 2013, Part Two “*Application in Italy of the CRR*”, Chapter 13 “*Public disclosures*”;

The relevant regulatory framework on a European basis for Pillar 3 disclosure is completed with the execution measures contained in Regulatory or Implementing Technical Standards (RTS and ITS) adopted by the European Commission on the proposal of the European Supervisory Authorities.

With the issuance of the CRR II Regulation, public disclosure requirements provided for by the “Pillar 3” of prudential regulations have undergone a thorough revision. New publication requirements, effective from 28 June 2021, were detailed in the Commission Implementing Regulation (EU) 2021/637 of 15 March 2021, published on 21 April 2021 in the Official Journal of the European Union, which established innovative technical standards of implementation regarding the publication of information to the public by entities.

The measure implemented with the force of law the draft implementing technical standards drawn up by the European Banking Authority (EBA) aimed at a comprehensive review of the framework for fulfilling “Pillar 3” obligations, in execution of the amendments to the set of rules provided for by CRR II. The measure (ITS/2020/04) instituted a new organic set of rules governing the models for the publication of “Pillar 3” disclosures, aimed at rationalising the existing regulatory framework, while at the same time increasing the level of clarity and standardisation of the disclosures to be published<sup>1</sup>. The new framework has provided an integrated, comprehensive and uniform set of rules, formats and schedules with the objective of ensuring high quality and comparable public disclosures.

The templates and tables provided are applied according to the entity’s classification in terms of size and complexity. From the reporting of 30 June 2021, Banca Popolare di Sondrio Group publishes its information in adherence to the aforementioned Implementing Regulations.

The regulatory structure of Pillar 3 also includes:

- EBA/GL/2014/14 Guidelines on the materiality, proprietary, confidentiality and on disclosure frequency under articles 432, paragraphs 1 and 2, and 433 of the CRR;
- EBA/GL/2018/01 Guidelines on uniform disclosures under article 473-bis of the CRR on the transitional period for mitigating the impact of the introduction of IFRS 9 on own funds to ensure compliance with the CRR, EBA/GL/2020/12 Guidelines amending EBA/GL/2018/01 Guidelines to ensure compliance with the CRR “Quick-fix” in response to the COVID-19 pandemic;
- EU Regulation No 2020/873 of 24 June 2020 (CRR Quick-fix), amending Regulations (EU) No 575/2013 and (EU) 2019/876 with regard to certain adjustments in response to the spread of the COVID-19 pandemic (CRR “Quick-fix”);
- Regulation (EU) No 2022/631 of 13 April 2022 amending the Implementing Technical Standards laid down by the Implementing Regulation (EU) No 637/2021 on disclosure of information on exposures to interest rate risk on positions not held in the trading book in accordance with article 448 of CRR II (paragraph 1, points a) and b));
- Commission Implementing Regulation (EU) 2022/2453 of 30 November 2022 amending the implementing technical standards laid down in Implementing Regulation (EU) 2021/637 as regards the disclosure of environmental, social and governance risks<sup>2</sup>.

<sup>1</sup> The new technical standards developed by the EBA replaced the uniform disclosure models included in a number of previous ones: a) regulatory technical standards (RTS) and implementing technical standards (ITS) issued by the European Commission on public disclosure of information regarding own funds, leverage, capital buffers, committed and uncommitted balance sheet assets and systemically important indicators; b) guidelines issued by the EBA on disclosure requirements under Part Eight of the CRR (mainly applicable to systemically important institutions), on liquidity coverage ratio (LCR) disclosures as well as on disclosure requirements regarding entities’ remuneration policies, systemically important indicators, impaired exposures and exposures subject to forbearance measures.

<sup>2</sup> The new disclosure of ESG risks, to be made semi-annually, is subject to a phase-in period until 2024. The contents of this annual report include qualitative information on environmental, social and governance risks, quantitative information on climate transition risk, physical and environmental risk, quantitative information and KPIs on climate change mitigation measures, including the Green Asset Ratio.



EBA/GL/2020/07 Guidelines on reporting and disclosure of exposures subject to measures applied in response to Covid-19 crisis were repealed with effect from 1 January 2023 in response to the reduced relevance of government support measures and the decrease in loans subject to payment moratoria and government guarantees.

With these Public Disclosures, Banca Popolare di Sondrio Group (also referred to as the “Group”) intends to fulfil the disclosure requirements envisaged in the “Pillar 3” legislation mentioned above. The frequency of disclosure conforms to the rules dictated by article 433-bis of CRR/CRR II for the category of listed “large institutions”.

This document has been prepared by Banca Popolare di Sondrio S.p.A., the Parent Company, on a consolidated basis with reference to the prudential scope of consolidation and is available in the “Investor Relations” section of the Bank’s website (<https://istituzionale.popso.it>), sub-section “Pillar 3”. It is accompanied by the Certification of the Manager responsible for preparing the Company’s accounting documents of the Parent Company Banca Popolare di Sondrio S.p.A., pursuant to Article 154-bis, paragraph 2, of Legislative Decree 58/98 (Consolidated Law on Finance, “TUF”).

In compliance with article 434 of the CRR/CRR II (“Means of disclosure”), if similar information has already been published in other equivalent documents, reference is made to the document in which such piece of information is disclosed.

\* \* \*

#### NOTE:

All the amounts indicated in the various sections of this Disclosure, except where expressly indicated, are shown in thousands of euro. Any failure to reconcile between the figures shown in this document depends solely on rounding.

Any significant changes with respect to previous publication periods are mentioned in this document.

In order to provide only significant information for users, the publication of data or information considered irrelevant or not applicable to the Group is omitted. In such cases, the omitted elements and the reasons for the publication omission are specified.

# Summary of information published in accordance with CRR/CRR II requirements

The following summary table links the articles of Regulation (EU) No 575/2013 ("CRR"), as amended by (EU) Regulation No 876/2019 ("CRR II") to the relevant disclosure requirements for Banca Popolare di Sondrio Group, integrated by the respective disclosure frequency and the sections of this document in which qualitative or quantitative information required by the "Pillar 3" regulations are reported with regard to the Group's situation as at 31 December 2023.

Art. CRR/ CRR II	Article description	Frequency of publication	Section Public Disclosures as at 31 December 2023
Art. 431	Disclosure requirements and policies	-	
Art. 432	Non-material, proprietary or confidential information	-	
Art. 433	Frequency and scope of disclosures	-	
Art. 433-bis	Disclosure by large institutions	-	
Art. 433-ter	Disclosure by small and non-complex entities	-	
Art. 433-quater	Disclosure by other institutions	-	
Art. 434	Means of disclosure	-	
Art. 435	Disclosure of risk management objectives and policies	Annual	2 - Disclosure of risk management objectives and policies
Art. 436	Disclosure of the scope of application	Quarterly/ Half-yearly <i>Scope of consolidation</i> Annual <i>Full art. 436</i>	1 - Scope of application
Art. 437	Disclosure of own funds	Half-yearly <i>lett. a)</i> Annual <i>Full art. 437</i>	4 - Disclosure of own funds
Art. 437-bis	Disclosure of own funds and eligible liabilities	Half-yearly/Annual <i>(Disclosure obligation from 30/06/2024)</i>	
Art. 438	Disclosure of own funds requirements and risk-weighted exposure amounts	Quarterly <i>lett. d) and h)</i> Half-yearly <i>lett. e)</i> Annual <i>Full art. 438</i>	3 - Disclosure of key metrics and overview of risk-weighted exposure amounts 11 - Disclosure of the use of the IRB approach to credit risk 13 - Disclosure of exposures to counterparty risk



Art. CRR/ CRR II	Article description	Frequency of publication	Section Public Disclosures as at 31 December 2023
Art. 439	Disclosure of exposures to counterparty risk	Half-yearly <i>lett. e) to l)</i> Annual <i>Full art. 439</i>	13 - Disclosure of exposures to counterparty risk
Art. 440	Disclosure of countercyclical capital buffers	Half-yearly/Annual	5 - Disclosure of capital buffers
Art. 442	Disclosure of exposures to credit risk and dilution risk	Half-yearly <i>points c), e), f) and g)</i> Annual <i>Full art. 442</i>	8 - Disclosure of exposures to credit risk
Art. 443	Disclosure of encumbered and unencumbered assets	Annual	18 - Disclosure of encumbered and unencumbered assets
Art. 444	Disclosure of the use of the Standardised Approach	Half-yearly <i>lett. e)</i> Annual <i>Full art. 444</i>	10 - Disclosure of the use of the standardised approach to credit risk
Art. 445	Disclosure of exposure to market risk	Half-yearly/Annual	16 - Disclosure of the use of the standardised approach to market risk
Art. 446	Disclosure of operational risk management	Annual	15 - Disclosure of operational risk management
Art. 447	Disclosure of key metrics	Quarterly/Half-yearly/Annual	3 - Disclosure of key metrics and overview of risk-weighted exposure amounts
Art. 448	Disclosure of exposures to interest rate risk on positions not held in the trading book	Half-yearly <i>par. 1, lett. a) and b)</i> Annual <i>Full art. 448</i>	17 - Disclosure of exposures to interest rate risk on positions not held in the trading book
Art. 449	Disclosure of exposure to securitisation positions	Half-yearly <i>lett. j), k) and l)</i> Annual <i>Full art. 449</i>	14 - Disclosure of exposure to securitisation positions
Art. 449-bis	Disclosure of environmental, social and governance risks	Half-yearly/Annual	12 - Environmental, social and governance (ESG) risks
Art. 450	Disclosure of remuneration policy	Annual	19 - Disclosure of remuneration policy
Art. 451	Disclosure of the leverage ratio	Half-yearly <i>par. 1, lett. a) and b)</i> Annual <i>Full art. 451</i>	6 - Disclosure of the leverage ratio



Art. CRR/ CRR II	Article description	Frequency of publication	Section Public Disclosures as at 31 December 2023
Art. 451-bis	Disclosure of liquidity requirements	Quarterly <i>par. 2</i> Half-yearly <i>par. 3</i> Annual <i>Full art. 451-bis</i>	7 - Disclosure of liquidity requirements
Art. 452	Disclosure of the use of the IRB Approach to credit risk	Half-yearly <i>lett. g)</i> Annual <i>Full art. 452</i>	11 - Disclosure of the use of the IRB approach to credit risk
Art. 453	Disclosure of the use of credit risk mitigation techniques	Half-yearly <i>lett. f) to j)</i> Annual <i>Full art. 453</i>	9 - Disclosure of the use of credit risk mitigation techniques 10 - Disclosure of the use of the standardised approach to credit risk 11 - Disclosure of the use of the IRB approach to credit risk
Art. 473-bis	Introduction of IFRS 9	Quarterly/Half-yearly/Annual	3 - Disclosure of key metrics and overview of risk-weighted exposure amounts

As at the reporting date of this Disclosure, the following articles of Regulation (EU) No 575/2013, as amended by Regulation (EU) No 876/2019, to which it would be subject as a listed "large institution" pursuant to article 433-bis of the same EU provision, are not relevant for Banca Popolare di Sondrio Group:

- Art. 441 - Disclosure of indicators of global systemic importance.
- Art. 454 - Disclosure of the use of Advanced Measurement Approaches to operational risk.
- Art. 455 - Use of internal market risk models.



# Section 1

## Scope of application (art. 436 CRR/CRR II)

These Public Disclosures, prepared by the Parent Company, apply to Banca Popolare di Sondrio Group, which, at the reference date, is made up as follows:

Company Name	Status	Registered office	Operative office
1 Banca Popolare di Sondrio SpA	Bank – Parent Company	Sondrio	Sondrio
2 Banca Popolare di Sondrio (SUISSE) SA	Swiss bank (registered in the Lugano Commercial Register) – wholly-owned	Lugano (CH)	Lugano (CH)
3 Factorit SpA	Factoring company (registered in the Register of Financial Intermediaries pursuant to art. 106 of the CBA) – wholly-owned	Milano	Milano
4 Sinergia Seconda S.r.l.	Real estate company – wholly-owned	Milano	Milano
5 Popso Covered Bond S.r.l.	SPV for the issue of covered bonds – 60% held	Conegliano Veneto (TV)	Conegliano Veneto (TV)
6 BNT Banca S.p.A.	Bank – Wholly-owned	Sondrio	Sondrio
7 PrestiNuova S.r.l. - Agenzia in Attività Finanziaria	Financial Agency – Wholly owned (100%) by BNT S.p.A.	Roma	Roma

The prudential scope of consolidation, which is determined in accordance with the supervisory regulations currently in force, provides for full consolidation of the subsidiaries mentioned above, as banking, financial or service companies controlled directly by the Parent Company.

**Table 1** - Template EU L11: Differences between accounting and regulatory scopes of consolidation and mapping of financial statement categories with regulatory risk categories (1 of 2)

(millions euro)	a	b	c		d
	Carrying values as reported in published financial statements	Carrying values under scope of regulatory consolidation	Carrying values of items		
			Subject to the credit risk framework	Subject to the CCR framework	
<b>ASSETS</b>					
Cash and cash equivalents	4,547	4,531	4,531	-	-
Financial assets held for trading	150	150	-	-	23
Financial assets designated at fair value	-	-	-	-	-
Other financial assets mandatorily designated at fair value	541	611	594	-	-
Financial assets at fair value through other comprehensive income	3,213	3,213	3,213	-	-
Loans to banks	2,122	2,122	2,122	-	-
Loans to customers	43,409	43,503	42,153	-	-
Hedging derivatives	-	-	-	-	-
Change in value of macro-hedged financial assets	2	2	2	-	-
Equity investments	376	464	464	-	-
Reinsurers' share of technical reserves	-	-	-	-	-
Property, plant, and equipment	677	458	458	-	-
Intangible assets	38	33	-	-	-
Tax assets	261	260	255	-	-
Non-current assets and disposal groups classified as held for sale	-	-	-	-	-
Other assets	2,387	2,364	2,364	-	-
<b>TOTAL ASSETS</b>	<b>57,722</b>	<b>57,711</b>	<b>56,156</b>		<b>23</b>
<b>LIABILITIES</b>					
Amounts owed to banks	9,918	9,918	-	-	-
Amounts owed to customers	37,916	37,919	-	-	-
Securities issued	4,477	4,477	-	-	-
Financial liabilities held for trading	70	70	-	-	70
Financial liabilities designated at fair value	-	-	-	-	-
Hedging derivatives	2	2	-	-	2
Change in value of macro-hedged financial liabilities	-	-	-	-	-
Tax liabilities	71	71	-	-	-
Liabilities included in disposal groups classified as held for sale	-	-	-	-	-
Other liabilities	1,062	1,047	-	-	-
Provision for employee severance pay	33	33	-	-	-
Provisions for risks and charges	364	362	-	-	-
Technical reserves	-	-	-	-	-
Valuation reserves	(16)	(16)	-	-	-
Redeemable shares	-	-	-	-	-
Equity	-	-	-	-	-
Interim dividends	-	-	-	-	-
Reserves	1,951	1,954	-	-	-
Share premium accounts	79	79	-	-	-
Share capital	1,360	1,360	-	-	-
Treasury shares (-)	(25)	(25)	-	-	-
Minority shareholders' equity	-	-	-	-	-
Profit (Loss) for the period	461	461	-	-	-
<b>TOTAL LIABILITIES</b>	<b>57,722</b>	<b>57,711</b>	<b>-</b>		<b>72</b>

Source: Consolidated balance sheet, FINREP/COREP reporting framework



**Table 2** - Template EU LI1: Differences between accounting and regulatory scopes of consolidation and mapping of financial statement categories with regulatory risk categories (2 of 2)

(millions euro)	e	f	g
	Carrying values of items		
	Subject to the securitisation framework	Subject to the market risk framework	Not subject to own funds requirements or subject to deduction from own funds
<b>ASSETS</b>			
Cash and cash equivalents	-	-	-
Financial assets held for trading	-	127	-
Financial assets designated at fair value	-	-	-
Other financial assets mandatorily designated at fair value	17	-	-
Financial assets at fair value through other comprehensive income	-	-	-
Loans to banks	-	-	-
Loans to customers	1,350	-	-
Hedging derivatives	-	-	-
Change in value of macro-hedged financial assets	-	-	-
Equity investments	-	-	-
Reinsurers' share of technical reserves	-	-	-
Property, plant, and equipment	-	-	-
Intangible assets	-	-	33
Tax assets	-	-	5
Non-current assets and disposal groups classified as held for sale	-	-	-
Other assets	-	-	-
<b>TOTAL ASSETS</b>	<b>1,367</b>	<b>127</b>	<b>37</b>
<b>LIABILITIES</b>			
Amounts owed to banks	-	-	9,918
Amounts owed to customers	-	-	37,919
Securities issued	-	-	4,477
Financial liabilities held for trading	-	-	-
Financial liabilities designated at fair value	-	-	-
Hedging derivatives	-	-	-
Change in value of macro-hedged financial liabilities	-	-	-
Tax liabilities	-	-	71
Liabilities included in disposal groups classified as held for sale	-	-	-
Other liabilities	-	-	1,047
Provision for employee severance pay	-	-	33
Provisions for risks and charges	-	-	362
Technical reserves	-	-	-
Valuation reserves	-	-	(16)
Redeemable shares	-	-	-
Equity	-	-	-
Interim dividends	-	-	-
Reserves	-	-	1,954
Share premium accounts	-	-	79
Share capital	-	-	1,360
Treasury shares (-)	-	-	(25)
Minority shareholders' equity	-	-	-
Profit (Loss) for the period	-	-	461
<b>TOTAL ASSETS</b>	<b>-</b>	<b>-</b>	<b>57,639</b>

Source: Consolidated balance sheet, FINREP/COREP reporting framework



For the compilation of EU LI1 Template, a logic of prevalence is adopted regarding the prudential treatment of items separately for each balance sheet item. The only exception relates to the portfolio of financial assets held for trading (HFT) for which the portion attributable to derivative exposures has been separated out in order to bring it under the counterparty risk (CCR) framework.

**Table 3** - Template EU LI2: Main sources of differences between regulatory exposure amounts and carrying values in financial statements

		a	b	c	d	e
		Total	Items subject to			
			Credit risk framework	Securitisation framework	CCR framework	Market risk framework
1	Assets carrying value amount under the scope of regulatory consolidation (as per template LI1)	57,674	56,156	1,367	23	127
2	Liabilities carrying value amount under the regulatory scope of consolidation (as per template LI1)	72	-	-	72	-
<b>3</b>	<b>Total net amount under the regulatory scope of consolidation</b>	<b>57,602</b>	<b>56,156</b>	<b>1,367</b>	<b>49</b>	<b>127</b>
4	Off-balance-sheet amounts	25,376	25,376	-	-	
5	Differences in valuations	49	-	-	49	
6	Differences due to different netting rules, other than those already included in row 2	-	-	-	-	
7	Differences due to consideration of provisions	984	984	-	-	
8	Differences due to the use of credit risk mitigation techniques (CRMs)	(6,126)	(5,905)	(220)	-	
9	Differences due to credit conversion factors	(20,136)	(20,136)	-	-	
10	Differences due to Securitisation with risk transfer	-	-	-	-	
11	Other differences	5,820	6,108	-	288	
<b>12</b>	<b>EXPOSURE AMOUNTS CONSIDERED FOR REGULATORY PURPOSES</b>	<b>63,569</b>	<b>62,584</b>	<b>1,147</b>	<b>288</b>	

Source: Consolidated balance sheet, FINREP/COREP reporting framework

The main differences between carrying values and exposure amounts determined for regulatory purposes, regarding:

a. the *Credit Risk Framework*, can be ascribed to the following phenomena:

- amounts of off-balance sheet exposures: not included in carrying amounts and reported for regulatory purposes at nominal value after application of credit conversion factors;
- amounts referring to value adjustments: deducted from the gross value for accounting purposes, while for regulatory purposes and for cash exposures subject to internal rating models, they do not have a reducing effect on the value of EAD (Exposure at Default);
- amounts related to the value of financial collateral received: with the standardised methodology, they subtract the book value for the purpose of determining the value of exposure to risk (EAD);



b. the *Securitisation Framework*, can be ascribed to the following phenomena:

- amounts related to the value of the GACS guarantee on own securitisations: the portion of exposure covered by a government guarantee and therefore subject to credit risk mitigation (CRM) techniques is brought back to the credit risk framework.

**Table 4** - Template EU LI3: Outline of the differences in the scopes of consolidation (entity by entity)

a	b	c				f	g	h
		Method of regulatory consolidation						
Name of the entity	Method of accounting consolidation	Full consolidation	Proportional consolidation	Equity method	Neither consolidated nor deducted	Deducted	Description of the entity	
Banca Popolare di Sondrio (Suisse) S.A.	Full consolidation	X					Credit institution	
BNT Banca S.p.a.	Full consolidation	X					Credit institution	
Factorit S.p.a.	Full consolidation	X					Financial corporations	
Servizi Internazionali e Strutture Integrate 2000 S.r.l.	Full consolidation				X		Non-financial corporations	
Sinergia Seconda S.r.l.	Full consolidation	X					Real estate company	
Pirovano Stelvio S.p.a.	Full consolidation				X		Non-financial corporations	
Immobiliare San Paolo S.r.l.	Full consolidation				X		Real estate company	
Immobiliare Borgo Palazzo S.r.l.	Full consolidation				X		Real estate company	
PrestiNuova AAF S.r.l.	Full consolidation	X					Financial corporations	
Rent2Go S.r.l.	Full consolidation				X		Non-financial corporations	
Popso Covered Bond S.r.l.	Full consolidation	X					Financial corporations	
Centro delle Alpi SME S.r.l.	Full consolidation				X		Financial corporations	
Rajna Immobiliare S.r.l.	Equity method			X			Real estate company	
Alba Leasing S.p.a.	Equity method			X			Leasing company	
Arca Vita S.p.a.	Equity method			X			Insurance company	
Arca Holding S.p.a.	Equity method			X			Financial corporations	
Unione Fiduciaria S.p.a.	Equity method			X			Financial corporations	
Polis Fondi Sgrpa	Equity method			X			Financial corporations	
Bormio Golf S.p.a.	Valued at cost				X		Non-financial corporations	
Lago di Como Gal S.c.r.l.	Valued at cost				X		Non-financial corporations	
Acquedotto dello Stelvio S.r.l.	Valued at cost				X		Non-financial corporations	



**Table 5** - Template EU PV1: Prudent valuation adjustments (PVA)

The template is not subject to publication because the Group, in accordance with Chapter II of Delegated Regulation (EU) No. 101/2016, adopts the simplified method for determining Additional Valuation Adjustments (AVA) required by prudential rules in order to adjust the fair value of assets to their prudent value.

\* \* \*

With regard to any impediments to the prompt transfer of equity or repayment of liabilities within the Group, and specifically between the Parent Company and the controlled entities, there are no particular regulatory, legal or contractual restrictions or constraints that could significantly affect mutual financial support within the Group in the ordinary course of business. For the sake of full disclosure, it should be noted that, in line with the prudential approach of the Swiss Financial Market Supervisory Authority (FINMA) aimed at protecting Swiss banks in the event of a negative performance of their parent companies, the Parent Company, Banca Popolare di Sondrio, is required to hold a security deposit in the form securities on behalf of the subsidiary BPS (SUISSE) with the Federation's central clearing house in order to guarantee the full operation of the investee; consequently, the subsidiary must always appear as a net debtor of the Parent Company for these positions in the money market context.

As of the reporting date, there are no subsidiaries excluded from the scope of consolidation with amounts of own funds below the minimum required, and there are no conditions for exemptions to the application of prudential requirements on an individual basis or to the consolidation method under articles 7 and 9 of the CRR, respectively.



## Section 2

# Disclosure of risk management objectives and policies (art. 435 CRR/CRR II)

## Coherence between the overall risk profile and the Group's strategies

With reference to the provisions of art. 435, paragraph 1, letter f) of Regulation (EU) 575/2013 ("CRR"), some key evidence representing the link between the overall risk profile and the Group's strategies is provided below.

In compliance with the supervisory provisions, the Group has defined and formalised the procedures for the connection between the Risk Appetite Framework (RAF) schemes, the strategic planning process and the business model pursued.

The risk appetite, in the various forms adopted in the RAF, is a key element for the activities aimed at defining, implementing and possibly revising the Group's strategic planning and at periodically monitoring the results achieved by the management. Business choices and strategic directions are in fact defined in accordance with capital adequacy and liquidity and risk-taking constraints established by the RAF over the prospective horizon, and consistent with the objectives and characteristics of the business project pursued by the Group placed at the basis of the current "Next Step" 2022-2025 Business Plan.

Below are the values, as at 31 December 2023, of the main indicators representative of Banca Popolare di Sondrio Group's risk profile, compared with what was recorded in the previous year.

### Group risk profile: key summary indicators as at 31 December 2023

Summary indicator	Value at 31/12/2023	Value at 31/12/2022
Common Equity Tier 1 ratio (fully phased)	15.13%	15.30%
Tier 1 ratio (fully phased)	15.13%	15.30%
Total Capital ratio (fully phased)	17.50%	17.86%
Leverage ratio (fully phased)	5.46%	5.12%
Liquidity Coverage ratio (LCR)	188%	161%
Net Stable Funding ratio (NSFR)	126%	128%
Counterbalancing Capacity (CBC)	€ 11,779 million euro	€ 11,982 million euro
Loans to customers/direct customer deposits (Loan-to-Deposit ratio)	81.33%	79.05%
NPL ratio	3.7%	4.3%
Texas ratio	14.9%	18.2%
Cost of credit	0.65%	0.51%
Return on Equity (ROE)	13.8%	8.0%
Cost Income ratio	39.6%	49.1%





The Board of Directors of the Parent Company Banca Popolare di Sondrio periodically monitors the alignment with the risk appetite of the entire Group by comparing, for each metric adopted by the RAF, the risk tolerance targets and limits set by it with the corresponding values recorded. Based on the analysis and monitoring conducted during 2023, the Group's overall risk profile was found to be consistent with the internal objectives and business strategy adopted by the management body.

With reference to transactions and activities of particular economic, financial and equity importance carried out during 2023 by the Bank or the Subsidiaries that are likely to affect the Group's risk profile, there are no reported transactions that are likely to significantly affect the financial position or results of operations for the year. The same applies to related party transactions of greater or lesser significance completed during the period under review.

For a review of the major economic, financial, and balance sheet activities that took place in 2023, please refer to the 2023 Annual Report (<https://istituzionale.popso.it/it/investor-relations/bilanci-e-relazioni>), paying particular attention to:

- Directors' Report on Operations
- Report of the Board of Statutory Auditors to the Shareholders' Meeting convened to approve the financial statements at 31 December 2023
- Notes to the Financial Statements, Part H (*Related Party Transactions*).

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In general, the guidelines in terms of risk assumption and management help the Board of Directors to formulate orientation and guiding principles with which to conform the definition of strategic objectives and the overall programming of the business in the medium term at Group level. These guidelines express the Group's strategic attitude towards risk and are the basis of the decision-making processes regarding risk governance over the forecast horizon. They are connected to the company's operations by making explicit the risk assumption objectives established by the RAF and by adopting coherent risk management policies.

The Banca Popolare di Sondrio Group's risk management policies aim to foster a complete, integrated and consistent view of risks and to constantly strengthen "risk culture" so as to fully enhance corporate management in terms of prudential, far-sighted choices.

The guidelines for managing risks and their qualitative-quantitative classification through the parameters of risk appetite represent a key condition to be respected for the identification of strategic priorities and the definition of long-term objectives over the planning horizon.

The forward-looking assumptions taken as a point of reference for planning the business activity, elaborated on the basis of the guidelines formulated by the Strategic Supervisory Body, are submitted for a feasibility analysis with respect to maintaining the Group's financial and capital balance, so as to ensure consistency with the constraints of capital adequacy and financial structure of liabilities, leverage, asset quality, liquidity, profitability and risk assumption specified in the Risk Appetite Framework.

Taking into account the results of these analyses, the proposal to determine the Group's risk appetite is calibrated annually through a recurring process; the feasibility of the risk objectives is also tested under alternative, stressed scenarios. In this context, the Group foresees a synergistic interaction between the definition of the Group's strategic guidelines and the risk appetite or risk tolerance profile in the various areas envisaged by the RAF.



Verification of the degree of achievement of the objectives defined in the strategic plan is continuously combined with the corresponding monitoring of compliance with the risk objectives set in the RAF, providing for a harmonious approach to identify corrective measures in the event of significant deviations.

Risk assumption and management strategies can be summarised in the following general guidelines:

- Pursuit of an entrepreneurial model oriented towards a conscious, prudent and balanced assumption of risk, such as to prevent the emergence of any risk that could threaten the stability, solvency and continuity of the Group or to damage its reputation.
- Promotion of a solid “risk culture” capable of enhancing the importance of sound and prudent management, of promoting a complete, integrated and coherent vision of risks, while ensuring that the risk dimension is adequately incorporated into strategic decisions and choices that have to be made by the management.
- Pursuit of corporate policies aimed at a stable and recurring generation of profits and an adequate remuneration of risk capital, creating reliable and sustainable value over time, in line with the business and service model.
- Compliance with the reasonable remuneration expectations of the shareholder base with the need to self-finance the dimensional growth of the business and the risks assumed, promoting a balanced and conservative level of pay-out in line with the past.
- Keeping of adequate safety margins in relation to the capital and liquidity constraints imposed by regulations or required by Supervisory Bodies, also defined in relation to the positioning of competitors and the measurement metrics adopted, allowing the Group to face unexpected risk manifestations and mitigate their potential effects on its economic and financial situation.
- Conservative management of the balance sheet structure by maintaining a dynamic equilibrium between assets and liabilities, with a view to limiting the amount of financial leverage required.
- Prudent liquidity profile to be pursued through:
  - policies to foster lending and investment in financial assets commensurate with the actual funding inputs and the diversification of funding sources, capable of ensuring a stable trend of short and long-term liquidity measures;
  - holding top quality reserves that can easily be turned into cash, represented to a large extent by sovereign securities, and can guarantee a high capacity to refinance with central counterparties in order to cope with any liquidity crises;
  - the keeping of a structural liquidity position supported by a stable and diversified funding base.
- Cautious attitude towards the assumption of risks associated with lending and confirmation that they are closely monitored throughout the credit life cycle, which is expressed through:
  - a rigorous preliminary investigation of loan requests, aimed at understanding counterparties effective degree of risk by analysing their ability to generate wealth, not only in the present but also in the future;
  - the inadmissibility of all lending transactions that involve taking risks that are not consistent with the Group’s risk objectives and the rejection of those that might compromise its profitability and stability;
  - a prudent assumption of risks associated with leveraged finance transactions, to be subjected to adequate supervision;
  - an adequate remuneration for the risk assumed on the basis of the type of credit facility granted and the adoption of prudent provisioning policies;
  - the systematic and shared use of rating models in credit management processes, favouring a selective, efficient and predictive assessment of the customer’s creditworthiness and probability of default;
  - an intensification of risk identification, monitoring and management in order to safeguard the quality of credit assets from deterioration, with the aim of progressively limiting the cost of risk and the amount of non-performing loans;
  - carefully monitoring the risks related to an excessive concentration of the lending portfolio, also through the imposition of limits: i) on exposure to larger counterparties and economic sectors with a more evident risk profile; ii) towards counterparties that present a negative climate-environmental risk assessment.



- Trading operations on financial markets, aimed at seizing the investment opportunities that may arise due to the market context, based on a management model inspired by the containment and rigorous assessment of the risks assumed.
- Assumption of interest rate risks, closely connected to the Group's role as "financial intermediary", to be contained within sustainable levels through the promotion of stabilisation policies that provide for the balancing of the financial structure, supported by intervention plans that can be activated in the event of the need to mitigate exposure.
- Management of operational risks, including conduct risk, based on an effective prevention and mitigation policies aimed at reducing the main sources of risk by limiting the frequency and/or severity of events that generate or could generate economic losses and damages to the Group's assets and reputation.
- Adequate control and containment of risks relating to the technologies adopted for information and communications management, including those arising from cyber threats, by means of: i) the promotion and adoption of security standards suitable for ensuring the availability (including business continuity and disaster recovery plans), confidentiality and integrity of data and technological components, including from third-party suppliers; ii) the continuous strengthening of the flexibility, resilience and agility of information systems, to enhance the available resources and in response to a context of increasing centrality and innovation of digital channels, as part of a consolidated multi-channel approach towards the customer.
- Protection of the Group's distinctive reputation, considered to be the main critical success factor, through:
  - a full formal and substantial observance, with a view to compliance, of the primary and secondary legislation and a timely compliance with the implementing regulations as well as with the self-regulation provisions;
  - safeguarding the trust placed in the Group by shareholders, customers and institutional counterparties as well as by the staff, who have a particularly strong sense of belonging;
  - maintaining clear and correct relationships devoted to mutual respect with stakeholders and adopting accurate behavioural models;
  - a customer-centric business conduct, aimed at applying the principles of correctness, transparency, integrity and professionalism;
  - the supply of products and services linked to the risk profile and the needs of each specific customer segment and not characterised by particularly complex structures or elements that may be difficult to understand nor by an uncertain assessment of the associated risk;
  - initiatives aimed at promoting cultural, civic and social growth in the community in which the Group is active.
- The importance of an integrated and informed management of climate, environmental, social and governance risks to which the Group is exposed, including through its counterparties, by means of governance tools and processes designed to ensure the integrity of the Group's assets and its long-term viability and to contribute to an orderly transition to a sustainable economy, in accordance with the values and principles set forth in the Articles of Association.



## Risk control system

The purpose of risk management and control activities is to ensure a reliable and sustainable generation of value, to safeguard the Group's financial solidity and reputation and provide transparent disclosure about the risks taken. In particular, the risk control system aims to:

- identify the criteria and methods for detecting, measuring/evaluating and managing all types of risk deemed relevant in consideration of the activity being performed, with a view to their responsible governance;
- verify the respect of the limits to risk assumption, ensuring that the transactions carried out by the various business areas are consistent with the risk objectives assigned to them;
- monitor the adequacy of the capital position in relation to the risks to which the Group is or might be exposed.

Risk governance and control activities are part of the Group's overall internal control system, as drawn by the internal regulation in compliance with the supervisory provisions in force (Bank of Italy Circular No. 285 of 17 December 2013) and the indications provided by regulatory and supervisory bodies from time to time, aimed at ensuring a sound and prudent management, based on effectiveness, efficiency, fairness and responsive to the Group's strategies and risk appetite.

The internal control system constitutes an organic set of rules, organisational controls, processes and procedures designed to ensure, through the identification, measurement, management and monitoring of risks, the achievement of the following purposes:

- the verification of the implementation of company's strategies and policies and operational equilibrium;
- the containment of risks within the limits set in the reference framework for determining the risk appetite (Risk Appetite Framework, RAF);
- the safeguard of the assets value and the protection from losses;
- the efficiency and effectiveness of business processes and the operational correctness;
- the reliability and security of the company information and the supporting procedures;
- the prevention of the risk that the Group might suffer reputational damage by being involved, even involuntarily, in illegal activities (with particular reference to those connected with money laundering, usury and terrorist financing);
- the compliance of transactions with the law and supervisory regulations, as well as with internal policies, regulations and practices.

This system is an integral part of day-to-day operations: it involves all corporate areas and structures, each called upon to ensure constant and continuous monitoring of risks, to the extent of their own sphere of competence, and it is formalised in a specific internal regulatory framework aimed at defining, for each type of risk, the roles and responsibilities of corporate bodies, managerial functions and organisational units.

The Group's internal control system, in accordance with the indications provided by the current legislation, complies with the following guiding principles:

- clear attribution of tasks and responsibilities to each Group company;
- ensuring the necessary separation and independence of control functions from operating units;
- definition of control activities at each operating level, which means controls extended to all relevant business areas;
- diffusion of a risk culture and language shared at all levels of the organisation;
- full awareness of the risks assumed through the identification, measurement and monitoring of all types of risk, assumed or assumable, which are considered material;

- homogeneity in the definition and adoption of valuation methods and tools, avoiding inconsistent use of taxonomies, metrics and qualitative/quantitative methodologies;
- methods of interaction between the corporate entities consistent with an articulation of responsibilities at increasing levels, i.e. differentiated between control bodies and functions in charge of designing and/or assessing the internal control system;
- direct communication, without restrictions or intermediations, between control functions and corporate bodies in order to guarantee that any significant anomaly or deficiency found is brought to the attention of the appropriate hierarchical levels and then handled as quickly as possible;
- development of reliable information systems, capable of providing prompt and adequately detailed data and information for recipients to carry out their activities.

According to the powers provided for by the regulatory provisions and the statements of the Supervisory Authorities, ultimate responsibility for the establishment of the Group's internal control system and the overseeing of its correct functioning lies with the corporate bodies of the Group companies, in accordance with the guidelines provided by the Parent Company. Specific control tasks are assigned to functions responsible for the scrutiny of certain risk areas and/or operations.

The Parent Company has the task of ensuring effective risk management through a proper articulation of the roles and responsibilities of key decision-making functions, as well as the integrity and completeness of the entire Group's control system. This principle involves the centralisation of essential choices in terms of risk management, in order to ensure the harmonisation of all risk evaluation and control systems developed within the Group and to implement risk management policies in such a way that they can result as integrated and consistent as possible.

The Board of Directors, as a Body with strategic supervisory responsibilities, has the role of stating the general guidelines for the management and control of the Group, by defining the Group's business model, strategic objectives and risk appetite and approving key internal processes. Specifically, the Board of Directors:

- establishes the strategic guidelines and risk management policies, as well as the guidelines for their application, so as to ensure that the risks to which the Group is exposed are correctly identified, monitored and managed;
- approves: i) the constitution of any internal body and committee with control duties (Board Committees and Managerial Committees), providing for the appointment and dismissal of their members; ii) the constitution of control functions and their duties and responsibilities, the coordination mechanisms and the information flows among these functions and between these and the corporate bodies, providing for the appointment and revocation of their heads;
- defines and approves: i) the Risk Appetite Framework (RAF), overseeing the Group's adherence to it, as well as the remedial actions to be activated where necessary to bring the risks back down to levels consistent with the RAF limits/objectives; ii) the general framework of the Group's Internal Capital Adequacy Assessment Process (ICAAP) and Internal Liquidity Adequacy Assessment Process (ILAAP), ensuring their consistency with the RAF;
- approves: i) the draft of annual financial statements and interim reports, both for consolidated and individual balance sheets; ii) the results of the ICAAP and ILAAP processes and related reporting; iii) the key internal regulations, the Recovery Plan, the capital and liquidity contingency plans; iv) the adoption of internal models to quantify regulatory capital requirements and related implementation projects, in relation to which the Board ensures that the choices initially made about these models maintain their validity over time, approving any substantial changes;
- is constantly aware of the risk exposures and their dynamics over time, both on a consolidated basis and individually for each component of the Group, ensuring that the risk profiles are correctly identified and adequately measured, managed and monitored by the competent units;



- ensures that adequacy and functionality of the internal control system are regularly checked and, if deficiencies or anomalies emerge, promptly adopts appropriate corrective measures;
- ensures that the organisational framework is consistent with the risk policies and that roles and responsibilities are allocated in a clear and appropriate way;
- oversees the definition of a correct, complete and timely information system, consistent with the importance and complexity of the information needed;
- plays a lead role in promoting the establishment and diffusion at all levels of a “risk culture” able to enhance the importance of controls with a view to ensuring healthy and prudent management; in relation to this, the Board ascertains that the personnel are adequately involved and aware of the role assigned to them as part of the internal control system.

The Control and Risks Committee, created and mandated by the full Board of Directors, supports the Management Body in shaping the guidelines of internal control and risk management systems, regularly checking their adequacy with respect to the characteristics and risk profiles of the Group and the effective functioning of the control mechanisms. Specifically, it supports the Management Body in defining the Group’s risk objectives and strategies regarding the prevention and governance of relevant risks from both a current and a forward-looking perspective, in periodically monitoring risk exposure in relation to set objectives and limits, and in verifying the completeness, adequacy and functionality of the internal control system.

The Chief Executive Officer (CEO), the members of the Top Management and the Heads of Governance Areas, according to their respective powers and attributions, are responsible for setting up and maintaining an effective risk management and control system, in line with the strategic objectives stated by the Board of Directors.

In particular, the CEO, assisted by members of Top Management and the Heads of Governance Areas:

- submits for the examination and approval of the Board of Directors the strategic guidelines, the multi-year strategic plans and related operating budgets, the updates/revisions to the Risk Appetite Framework (RAF) and the risk management policies;
- establishes, by submitting them to the Board of Directors for the final approval, the key aspects of the processes relevant for the purposes of the internal control system, overseeing their subsequent implementation;
- previously examines the transactions of major strategic, economic, equity-related and financial relevance, and then submits them to the Board of Directors for approval;
- establishes rules, activities, procedures and organisational structures relating to the risk management process, taking care of its implementation;
- takes care of the implementation of the decisions taken by the Board of Directors, with particular regard to: i) initiatives and interventions to continuously guarantee the completeness, adequacy, functionality and reliability of the internal control system; ii) the ICAAP and ILAAP processes, ensuring their compliance with the strategic guidelines and consistency with the RAF; iii) the Recovery Plan and the capital and liquidity contingency Plans in the event of their activation; iv) the necessary interventions for the set up and functioning of the chosen internal risk measurement systems, ensuring that they are integrated into the decision-making and operational processes;
- oversees the functionality of each relevant processes and of the internal control system as a whole in terms of efficiency and effectiveness;
- ensures the necessary remedial actions to eliminate any weaknesses, anomalies or malfunctions found in the internal control system, activating the competent functions;
- ensures the proper, timely and safe management of information systems for accounting, management and reporting purposes.

The CEO is also responsible for overseeing the management, coordination and control of the Group companies, with specific regard to the maintenance of an effective internal control system in adherence with the guidelines set by the Parent Company.

The General Manager exercises the powers conferred making proposals referring to specific aspects of the business management and, to the extent of the sphere of competence, implements the decisions taken by the corporate Bodies regarding the conduct of current affairs. Specifically, it oversees the general operation and administrative processes of the company, as well as the supervision of the Bank's territorial network, verifying the effective application of the provisions issued and ensuring the concrete and correct exercise of the delegated powers.

The organisational structure of the Governance Area brings together a number of Services and Offices responsible for carrying out activities that are consistent with each other. The Heads of the Governance Areas, who together make up the so-called C-Level Suite, oversee the Services and Offices that report to them; at the same time, they report hierarchically and functionally to the CEO, who oversees all the Governance Areas. The heads of the Governance Areas are also entrusted with specific management and coordination tasks towards the other components of the banking Group, in accordance with their respective areas of operation.

The Board of Statutory Auditors ascertains the completeness, adequacy, functionality and reliability of the risk management and control systems and their compliance with the requirements established by law, acting with the contribution and cooperation of the internal control units. It is required to oversee the effectiveness of all the structures and functions involved in the control system and their adequate coordination, promoting corrective actions for any deficiency and irregularity found. With its supervisory action it contributes to ensure the regularity and legitimacy of management and compliance with laws and rules governing the bank's activity.

The strategic guidelines for risk management and mitigation are established by the Board of Directors of the Parent Company, evaluating the overall business activity of the Group and the actual risks that it incurs, based on the specific type of operations carried out and the risk profiles of the companies belonging to it. The decisions are supported by monitoring and control mechanisms inherent to the evolution of the various risks assumed within the perimeter of the Group and their compatibility to the pursuit of sound and prudent management.

The Parent Company provides the Group with a system of internal controls that is as homogeneous as possible, capable of allowing effective control both on the strategic choices of the Group as a whole and on the managerial equilibrium of its individual components, while also being able to oversee the typical risks associated with the business on an ongoing basis. Through the exercise of the powers of management, control and coordination over the Group, it ensures the overall consistency of the Group's governance frameworks, having regard the need of adequate connections and interchange among the bodies, structures and corporate functions of the components.

Each Group company adopts an internal control system consistent with the Group's strategy and policies regarding risk governance and controls, in accordance with the general principle of proportionality and in compliance with the regulations applicable for the single component at an individual level, while ensuring that there are appropriate procedures in place and regular flows of information to the Parent Company about relevant risk profiles.

Depending on the organisational structure characterising the single business sectors, the application of the relevant risk strategies and policies is entrusted to the central Departments and Offices and/or to the Branches which operate in each territory.





The Group's organisational Units, operating at the various levels of the corporate structures, are continuously involved so that they make their own and progressively consolidate a corporate culture that enhances controls in daily operations. In particular, each Unit is called upon to ensure the correct performance of the operations to the extent of its sphere of competence by carrying out so-called "first-line controls".

The internal control system is periodically subject to recognition and adaptations according to the evolution of company operations and changes in the frame of reference. The assessment of the adequacy and effectiveness of the internal control system is subject to internal auditing, as a whole and in its relevant components.

As part of the internal control system, risk management and compliance controls ("second-line controls") are aimed, among other things, at ensuring the correct implementation of the risk management processes, defining criteria and methodologies for risk exposure measurements and evaluations; they are also intended to verify that risk limits assigned to the various business functions are not overcome and ascertain that the company processes and procedures are compliant with laws and the provisions of the supervisory authorities.

From an organisational point of view, these control activities are carried out by functions which are separated and independent from the risk-taker Units.

At Banca Popolare di Sondrio, the risk management function is managed by the Chief Risk Officer Governance Area (CRO Area), which is composed by a series of specialist and support offices coordinated by the Chief Risk Officer (CRO).

The mission of the CRO Area is to assist management bodies in the configuration and implementation of the Risk Appetite Framework (RAF) and risk management policies and in monitoring the adequacy of the Group's capital and liquidity positions. It is responsible for the design, development, updating, validation and management of systems, methodologies and procedures for the identification, measurement, evaluation and control of material risks. It carries out second-level controls on the main types of risk, monitoring how their exposure evolves over time in a current and future perspective. It also supports the dialogue with the Supervisory Authorities for issues of its competence - in particular with the Authorities which form part of the Single Supervisory Mechanism (European Central Bank, Bank of Italy) - also by producing relevant data and information and, if necessary, assuming the role of direct contact point.

More specifically, the Chief Risk Officer Area, whose manager reports hierarchically and functionally to the Chief Executive Officer:

- supports corporate governing bodies in formulating guidelines for risk taking, management and control policies;
- contributes to the definition, review and updating of the Group's Risk Appetite Framework and operational limits for the assumption of the various types of risk, continuously verifying their adequacy and functionality;
- oversees the development, validation, and management of systems for identifying, assessing, measuring and controlling risks related to company activities, ensuring that they are regularly tested and reviewed;
- monitors the performance of relevant risks, checking their consistency with the system of limits expressive of risk appetite and preparing the relative reports;
- with regard to credit risk, verifies that credit exposures are monitored properly, especially impaired exposures, and assesses the consistency of classifications, the adequacy of provisions and recovery processes; it also performs assessment and control activities on the most significant positions and checks on the overall riskiness of the loan portfolio;
- supervises and coordinates the Group's internal capital adequacy (ICAAP) and liquidity (ILAAP) assessment processes, the periodic preparation of the Public Disclosure of the entities in application of the Pillar 3 discipline as well as the annual update of the Group Recovery Plan;
- executes supervisory systemic stress tests;
- analyses, on a precautionary basis, the risk profiles associated with the offer of new products and services, entry into



new operating and market segments, decisions to outsource activities and information systems and, in general, the pursuit of “innovative” corporate projects;

- assumes, with reference to the areas of competence, a role of direct representative with the Supervisory Authority, promoting initiatives for the provision of data and information.

The structure of the CRO Area is characterised by:

- an articulated coverage of credit risk, which extends, given its particular significance, to three distinct Offices: i) the *Credit Risk Office*, responsible for monitoring credit risk exposure through the preparation and use of methodologies and tools suitable for identifying the critical aspects of the underlying processes and the actions aimed at overcoming them, contributing to assessing the consistency of NPL portfolio management strategies with RAF parameters, and estimating the impacts of the reduction and recovery objectives of bad loans on profitability and capital profiles; in relation to the A-IRB internal rating system, it carries out parallel calculation activities with reference to the impacts arising from the revision of the models, supports the Bank’s structures in the use of credit risk parameters in business processes, and assists the development offices in coordinating activities related to the development of the models; ii) the *Credit Model Development Office*, in charge of designing, developing and maintaining credit risk measurement models and metrics for both regulatory and management purposes (A-IRB system), verifying their performance from time to time, as well as defining and updating credit risk parameters used to determine accounting provisions, directly overseeing the periodic calculation of impairment and fair value of loans classified as performing and past due; iii) the *Large Exposures and Rating Desk Office*, responsible for assessing the riskiness of major credit exposures, validating internal rating judgments assigned to customers belonging to the “major customers” management segment, and carrying out verification and validation activities for exceptions to rating judgments requested by the Bank’s competent operating structures;
- the presence of an organisational unit specifically responsible for monitoring the exposure to market, interest rate and liquidity risks, as well as for the development and maintenance of the related identification, measurement, control and reporting systems (*Financial Risks Office*);
- a unit entrusted with carrying out the processes of detection, assessment and measurement of operational, IT<sup>3</sup> and reputational risks inherent to the conduct of the company’s business, in order to ensure the monitoring of the relevant exposure (actual and prospective) and to promote/address the necessary mitigation measures (*Operational and ICT Risk Office*);
- a unit operating in an integrated perspective for all significant risks, designed to oversee the definition and monitoring of the risk objectives set by the RAF, to fulfil the Second (ICAAP) and Third Pillar (Public Disclosure) obligations, as well as those relating to the Recovery Plan, to govern the conduct of the stress tests promoted by the Supervisory Authorities at a systemic level, and to oversee the framework for the management of ESG (Environmental, Social and Governance) risk factors, with particular regard to climate and environmental risk factors, while ensuring their inclusion in the integrated risk management processes<sup>4</sup>; the unit is also responsible for overseeing exposure to other risks not directly monitored by other specialist units, with particular regard to strategic risks (*Integrated Risk Office*);
- the presence of a unit responsible for designing, developing and monitoring specific quantitative methodologies and risk models (e.g. IFRS 9 stage allocation and impairment, counterparty and operational risk measurement, analysis of macro-economic scenarios) and valuation models (e.g. pricing models, Independent Price Verification methodologies, fair value determination and related adjustments) (*Pricing and Valuation Models Office*);
- a unit dedicated to the governance and control of risk data management and the relative quality controls (data quality), guaranteeing integration with the bank’s data governance processes, in addition to promoting and developing initiatives to improve the IT system in support of the CRO Area, including in view of adherence to BCBS 239 principles; the unit also monitors the IT architecture supporting the internal rating system (*Risk Data Management Office*);

<sup>3</sup> 0th update to Circular No. 285/2013 “Supervisory Provisions for Banks”, with effect June 2023 the operational management of IT risks, previously delegated – by virtue of a dedicated inter-company service agreement – to the *ICT Risk Technical Committee*, within the Chief Information & Operations Officer (CIOO) Government Area, was divided between the existing risk control and regulatory compliance functions for areas of their respective competence. Within the risk management function, responsibility for control was assigned to the new Operational and ICT Risk Office.

<sup>4</sup> All other offices in the CRO Area are assigned responsibilities related to the processes of identifying, measuring, controlling and managing ESG risks and related data governance, consistently with and in continuity with their regular duties.



- a unit responsible for ensuring effective and homogeneous risk management among the Group's components through project management and support functions for risk governance activities, assisting the Group entities in coordinating and overseeing the overall risk control framework in adherence to the Parent Company's guidelines, as well as implementing and supervising risk mitigation initiatives (*Group Risk Control Coordination Office*);
- a function, which operates autonomously and independently from other units in charge of internal models' development, responsible for verifying the quality and reliability of the internal risk measurement systems, at the initial set-up stage as well as on an ongoing basis, and for the evaluation of company activities used for both regulatory and management purposes, with specific regard to the correct calibration and use of rating systems (*Validation Office*);
- a further unit with the task of ensuring the fulfilment of disclosure and reporting obligations towards authorities and institutions, in addition to providing functional support (as well as technical support, where feasibility/relevant) to the operational and control activities carried out by the other departments (*Synthesis Systems Office*)<sup>5</sup>.

The other control functions composing the "second line of defence" of the Bank are:

- the *Compliance and DPO Function*, a unit placed under the hierarchical-functional dependence of the Chief Executive Officer, responsible for overseeing the risk of non-compliance with the regulations of the entire company activity - except for issues already the responsibility of other specialised functions - carrying out consultancy and control activities for the purpose of detecting and preventing the risks of non-compliance of corporate processes and procedures with the system of hetero-regulation (laws and regulations) and self-regulation (internal provisions) applicable from time to time; the Head of the Function is also assigned the role of Data Protection Officer (DPO), a figure that forms an integral part of the data protection business model, adopted pursuant to Regulation (EU) 2016/679 of 27 April 2016 (General Regulation on the Protection of Personal Data, "GDPR") relating to the protection of individuals with regard to the processing of personal data (privacy);
- the *Anti-Money Laundering Function*, also reporting hierarchically and functionally to the CEO, which is responsible for implementing a stable control to oversee the prevention of and fight the risks arising from involvement in money laundering and terrorist financing operations, through: a) supervising the controls on the persons, relationships and transactions carried out on a daily basis by the operational areas, towards which the MD directs an intense action of stimulation and awareness; b) continuously verifying the suitability of the processes and procedures adopted in order to ensure adequate supervision of the risks connected to the violation of the legislation in force from time to time on money laundering and terrorist financing;

while the "third line of defence" is represented by:

- the *Internal Audit Department* which, with a view to third-level controls and also with on-site inspections, is required to verify the regular performance of company operations and the evolution of risks and, on the other hand, to evaluate the adequacy and functionality of the organisational structures, information systems (ICT Audit) and the other components of the internal control system, bringing possible enhancements to the attention of upper-level corporate bodies; it directly supports the Board of Directors, both for the purpose of adequate fulfilment of Supervisory requirements and also to satisfy specific needs for risks to be put under control and for the organisational efficiency/effectiveness to be scrutinised.

In addition to the aforementioned control functions, there are further specialised safeguards that, like the control functions proper, contribute to the sound functioning of the overall structure of governance and control of company and Group risks.

- The *Supervisory Body pursuant to Legislative Decree 231/2001* supervises the operation of and compliance with the organisational, management and control model adopted by the Parent Company for the prevention and conscious management of the risk of commission of the predicate offences governed by the decree, in dialogue with any similar structures that may have been set up at the Subsidiaries to standardise the organisational measures put in place to mitigate the specific risks.

<sup>5</sup> With effect from 1 February 2024, as part of a broader programme of organisational renewal and strengthening of business structures and reallocation of support structures, the office was placed under the Administration and General Accounting Service.



- The *Manager responsible for preparing the Company's accounting documents*, placed under the General Manager, ensures the reliability of the accounting and financial information by preparing adequate administrative and accounting procedures for the formation of the annual financial statements and consolidated financial statements and monitoring their adequacy and effective application.
- The *Group Outsourcing Manager*, a key figure appointed by the Bank in implementation of the EBA provisions on outsourcing, ensures centralised governance of all services acquired under outsourcing arrangements by Group members, in addition to overseeing the assessment processes preparatory to any outsourcing decision, thus guaranteeing effectiveness and uniformity in the reporting and control of outsourced activities.

Specific Committees at management and executive level are also set up within the Parent Company, with consultative, propositional and/or decision-making roles, responsible for providing technical and operational assistance and support to corporate Bodies in their specific areas of competence, contributing to integrated risk management and sound and prudent business management. In addition to those with investigative and decision-making duties, in relation to the disbursement of credit and the management of NPL exposures as well as governance and management of financial activities, the following permanent Committees with policy and control functions, associated with propositional, advisory and/or decision-making powers, are worthy of note:

- Risk Committee<sup>6</sup>
- Steering Committee
- NPL Committee
- ALM and Investment Committee
- Scenario Committee
- Outsourcing Committee
- Financial Products Governance Committee
- Sustainability Committee (management)
- ICT Risk Technical Committee

as well as the following Committees that can be convened in an emergency situation:

- Crisis Management Committee
- Business Continuity Committee.

The high-level information required to monitor the evolution of risks, prepared by the internal control functions according to their respective responsibilities, is structured in such a way as to allow the Corporate Bodies and the top management for a documented, complete and aware assessment of risk exposures, favouring the related management, control and mitigation activities, as well as of the adequacy of the capital available to cover them. Key trends in risk profiles are also communicated to competent operational areas by means of specific reporting designed to make personnel aware of the need to prevent and attenuate risks.

<sup>6</sup> The Risk Committee also avails itself of a new *Risk Methodology Committee* in charge of providing technical and operational support in the definition, implementation, maintenance and updating of the specific methodological, procedural and modelling frameworks adopted by the Bank in the area of risk management and measurement. The new Committee plays an advisory, propositional and decision-making role preparatory to the activities falling within the remit of the Risk Committee, carrying out technical analyses and assessments and making determinations to ensure optimal management of the risk models and methodologies in use.



The Group internal regulation on risk governance relates, in particular, to the Risk Appetite Framework (RAF), the internal capital (ICAAP) and liquidity (ILAAP) adequacy assessment processes and the management process of the single types of risk considered material. Each regulation describes the roles and responsibilities pertaining to the Bodies, Committees and organisational units involved, making sure that the functions assigned to business activities are kept separate from those that carry out control activities. Furthermore, with regards to the Group's corporate governance framework, the internal policies establish the tasks pertaining to the Parent Company in the exercise of its management and coordination powers over the entire Group, as well as the roles and responsibilities of the subsidiaries for the implementation of the interaction mechanisms among the components of the Group.

## Risk management strategies and processes

### A. Risk Appetite Framework

The Risk Appetite Framework (RAF) represents the general reference system, in terms of methodologies, processes, policies, controls and systems, aimed at establishing, communicating and monitoring the risk appetite of the Group and its components. It provides for the *ex-ante* configuration of risk objectives consistent with the Group's business model and strategies, taking into account the maximum levels of risk that can be assumed.

The formalisation, through the RAF, of the levels of risk that the Group is willing to take on in pursuing its strategic goals is an essential reference point for a coordinated risk governance framework based on the principle of sound and safe management.

The overarching risk strategies, as well as the single policies and processes for the identification, evaluation and management of significant risk categories, are all based on RAF, both at Group level and for the individual companies; the framework also includes the set of instruments, methods and controls aimed at ensuring the correct measurement and adequate monitoring and reporting of risks actually taken in relation to the established risk targets.

Within this context, the Group has developed a specific RAF structure and governance model where the roles and responsibilities of the corporate bodies and functions involved, both for the Parent Company and for the subsidiaries, are clearly defined and disciplined together with coordination mechanisms aimed at allowing the integration of risk appetite into management processes.

The framework for determining risk objectives and the related tolerance levels is a fundamental part of the Group's risk governance system, which includes:

- a regulation governing the processes for defining, monitoring and implementing the Risk Appetite Framework (RAF);
- the Risk Appetite Statement (RAS);
- the regulation on risk management policies and processes;
- the Capital and Liquidity Contingency Plans;
- the Group Recovery Plan;

The main elements of the RAF are ordinarily expressed with quantitative measures (indicators, objectives, limits and thresholds), which are re-calibrated annually in a proportionate way both for the Group and its main components. Qualitative considerations are also included to address the way the risks should be assumed or avoided as well as the internal control systems and processes should be shaped to take risks appropriately under control.

With reference to quantitative elements, the risk appetite is articulated in coherent schemes of metrics and thresholds based on progressively increasing levels of severity and alert, aimed at promptly detecting any deviation from the risk objectives set from time to time. This system is functional for monitoring the current and prospective positioning of the Group in relation to the parameters deemed to be the most representative of risk appetite, in order to consistently run the company activities and, if necessary, to adjust its patterns through the adoption of initiatives intended to realign the capital, financial and liquidity situation of the Group.

The RAF metrics configure a “cascade system” which is articulated on three hierarchical levels; more general and aggregate measures for the desired appetite for risk are placed at the top, and then split into specific indicators for each material risk type, following a consistent approach. These are divided into:

1. *Primary indicators* (Level 1): Set of main aggregate metrics representative of: i) the comprehensive risk appetite, pertaining to areas for which strategic objectives are pursued and/or where there are regulatory requirements and/or additional prudential constraints imposed by the Supervisory Authorities; ii) all major risk exposures strictly related to the Group’s typical business.
2. *Complementary indicators* (Level 2): specific metrics for each type of risk, representative of the factors that cause material changes in the Level 1 indicators, identified in accordance with the most important risk profiles for the Group; they can be supplemented by qualitative objectives and statement, which drive the assumption, control and mitigation of risks to which they pertain.
3. *Operational indicators* (Level 3): metrics characterised by a higher level of analyticity and granularity, which are part of the ordinary risk monitoring and management tools; through them, the risk appetite levels set on higher-ranking indicators is properly linked to current business operations; they can be intended to limit risk assumption by the business units or highlight to the control functions any potential deviations of the actual risks from the ones desired.

With reference to *primary indicators*, the Group’s appetite for risk is expressed through key metrics which can be classified into the following categories:

- Capital adequacy and liability structure
- Liquidity
- Profitability
- Credit risk and asset quality
- Other major risks.

The following types of thresholds are provided for each primary indicator, expressive of the comprehensive framework of risk objectives and limits defined along the forecast horizon:

- risk appetite
- risk trigger
- risk tolerance
- risk capacity, where present.

The quantities summarised by the primary indicators are broken down, for the risk categories deemed relevant, into quantitative parameters and/or qualitative statements aimed at guiding risk-taking and risk control (*complementary indicators*).

All second-stage parameters adopted as notable Level 2 measures of risk appetite refer to the set of techniques and methods ordinarily used by the Group to quantify risks and economic capital in order to comply with regulatory obligations, as well as for managerial and internal capital adequacy (ICAAP) purposes.



These indicators serve as early warning signals aimed at catching negative developments in strategic variables for the Group at an early stage; they also aim to ensure the desired strategic, reputation and regulatory compliance profiles. Complementary metrics cover those cases of risk considered “material” as a result of the internal process of identification, mapping and analysis of the significance of risks, supplemented by those risk profiles whose assumption, regardless of the relative degree of materiality, may not be eliminated insofar as related to the nature and characteristics of the activity performed.

At the complementary level, a key threshold is set for each monitoring metric (risk trigger), whose breach involves the evaluation of suitable corrective actions to mitigate risk. Depending on the type of indicator and the nature of the risk under control, the identification of one or more *monitoring thresholds* may also be envisaged, in order to draw attention to the fact that the risk profile is getting close to the limit: exceeding it would determine an increase in alert levels, which in turn will mean a strengthening of controls over the risk phenomenon considered.

More detailed or granular metrics and limits are also connected to the set of primary and complementary indicators (*operational indicators*); they can be monitored through systems and procedures adopted by the company for the various risk profiles, with the aim of reactively reporting any increase in exposures, placing restrictions on business operations where necessary and directing the remedial actions to be put into practice by the structures involved in risk-taking activities.

In this way, the risk appetite formulated for the higher hierarchical levels of RAF is articulated in more specific and granular limits to risk assumption (risk limits) based on the principle of proportionality. These are split into sub-categories of material risks, business units and/or business lines, product types, customer segments, asset/liability portfolios, etc., which can be combined with the setting of as many *monitoring thresholds* acting as early warning signals.

In line with the described system of metrics underpinning the risk objectives of the RAF, additional systems of operational limits assigned by top management to the various internal organisational levels may be adopted. The risk control Function of each Group component ensures consistency with the set of RAF parameters set to monitor the assumption of the relevant types of risk.

The Risk Appetite Statement (RAS) is the written expression of the Group’s risk appetite. This statement, made annually by the Board of Directors of the Parent Company, explains the following points according to an integrated and overall vision:

- the risk profiles to which the Group is most exposed, based on materiality degree, and those whose assumption cannot be completely avoided due to the nature and type of the activity carried out;
- the setting of risk objectives and the related system of alert thresholds for the forecast horizon being considered, accompanied by any qualitative indications, with reference to the primary and complementary metrics of the RAF.

On the other hand, the Level 3 risk limits system, articulated in accordance with the RAS metrics, is defined in the context of the risk policies to which they apply.

In addition to the identification and setting of the risk appetite parameters, the Bank establishes the organisational mechanisms which regulate the governance and the processes for determining and implementing the RAF, in terms of updating, monitoring, reporting and escalation procedures towards the competent decision-makers (Committees, functions and corporate Bodies).

Specifically, the RAF management procedures envisages, usually once a year:

- the review/update of the qualitative and quantitative elements that globally express the Group’s risk appetite levels;

- the calibration of thresholds in accordance with the evolution of company operations, which acts as limits on the formulation of the economic and financial forecasts outlined in the strategic planning;
- the formalisation and approval of risk objectives and related tolerance levels by the Board through the Risk Appetite Statement (RAS).

The RAF is continuously implemented by:

- monitoring the risk parameters defined and managing any breaches of “critical” targets/thresholds, with the consequent adoption of mitigating measures in case of deviation from them;
- the periodic reporting on both the evolution of risk profiles with respect to the reference objectives/thresholds and on the implementation of any intervention plans.

## B. Risk categories

The prudential regulation requires banks to carry out an accurate identification and materiality assessment of risks to which they are or could be exposed in managing their operations.

This activity, performed at least annually, is aimed at identifying the risks likely to compromise the business operations, the pursuit of the strategies and the achievement of the Group’s management objectives. The analysis is carried out by assessing both current and potential conditions, in order to identify any risk profile already present in the environment and yet not adequately captured by the risk categories mapped in the current inventory, or to anticipate types of risk that have never been material for the Group before but could become relevant in a forward-looking perspective, as they are connected to foreseeable changes in the economic, financial and regulatory context, as well as in the bank’s operations.

This recognition process is particularly relevant for the entire risk governance system as it constitutes a link between the RAF, ICAAP, ILAAP and Recovery Plan: it is in fact functional to the identification of the most significant risk types for which it makes sense to define a specific “risk appetite”, as well as for the purposes of determining the risk categories that could have an impact on the adequacy of the Group’s current and perspective capital and liquidity situations, also assessed under stressed conditions.

This process, which is coordinated by the Parent Company and formalised in specific internal regulations, is divided into the following sub-phases:

- identification of potentially assumable risks;
- identification, within the context of those assumable, of the risk profiles that are indeed applicable to the Group’s business context and definition of the risk inventory;
- analysis of the degree of materiality of risks with respect to current and future operations.

From a taxonomic and definitory point of view, the framing process of the “Risk Map” (the comprehensive inventory of risks that are deemed to be material for the Group) consists of two successive levels of analysis, which can be qualified as follows:

- Level 1: risks are grouped into categories as proposed in the regulatory provisions and guidelines issued by the Supervisory Authorities, taking into account the arrangements and methods used to monitor and control those risks applicable to the Group;
- Level 2: those risks are divided into sub-categories on the basis of the event that could potentially entail losses for the Group.



The list of risks potentially assumable by the Group is shown below.

Level 1	Level 2
<b>Credit and counterparty risks</b>	Default and recovery risks
	Migration risk
	Sovereign risk on banking book (Italy)
	Other (non-sovereign) banking book instruments risk
	Single-name concentration risk
	Geo-sectoral concentration risk
	Securitisation risk
	Country and transfer risks
	FX lending risk
	Residual risk
	Counterparty risk
	Credit valuation adjustment risk (CVA risk)
<b>Market risk</b>	Position risk on the trading book
	Concentration risk on the trading book
	Foreign exchange risk, including: <ul style="list-style-type: none"> <li>■ Structural foreign exchange risk</li> </ul>
	Commodity risk
	Basis risk on the trading book
<b>Operational, reputational and compliance risks</b>	Operational risk, including: <ul style="list-style-type: none"> <li>■ IT Risk</li> <li>■ Legal risk (including conduct risk)</li> <li>■ Model risk</li> <li>■ Other operational risks</li> </ul>
	Compliance risk
	Money laundering and terrorist financing risks
	Reputational risk
<b>Interest rate and credit spread risks</b>	Interest rate risk, including: <ul style="list-style-type: none"> <li>■ Repricing or yield-curve risk (gap risk)</li> <li>■ Basis risk</li> <li>■ Option risk</li> </ul>
	Credit spread risk
	Funding liquidity risk
<b>Liquidity risk</b>	Market liquidity risk
	Strategic risk
<b>Strategic and business risk</b>	Equity investment-related risk
	Business risk
	Real estate risk
	Risk of excessive leverage
<b>Other risks</b>	Risks related to Activity as Depository Bank for UCIs and Pension Funds
	Risks related to covered bond issuance
	Pension risk
	Insurance risk
	Regulatory risk
	Risk from exposures to shadow banking entities
	Step-in risk
	Risk concentrations



With reference to risk categories and sub-categories considered most significant (“material”) for the Group and, as such, placed at the cornerstone of the Group’s Risk Appetite Statement, we provide elements to illustrate the risk management objectives and policies, as well as the set of control systems, tools and processes that the Group has adopted to assess and manage risks.

## CREDIT AND COUNTERPARTY RISKS

### DEFINITION

The risk that a counterparty which has been granted credit might not be able to meet its obligations on time and in full, or that a change in its creditworthiness might generate a corresponding change in the economic or market value of the position.

Within this category, the following cases are considered relevant:

- *Credit risk*: the risk that a counterparty which has been granted credit might not be able to meet its obligations on time and in full (*default risk*), or that the amount recovered after liquidating the assets of an insolvent counterparty might be lower than the amount originally foreseen (*recovery risk*). This includes the risk deriving from cash credit facilities and guarantees to central and local governments of the Italian Republic;
- *Counterparty and credit valuation adjustment risks*; in particular:
  - *Counterparty risk*: the risk of suffering losses due to a counterparty’s failure to fulfil obligations deriving from assets recorded on or off the balance sheet under contracts of financial nature; it can manifest itself both in the period between the date of signature of the financial contract and the settlement date of the transaction, as well as at the time of the final settlement of the cash flows relating to the transaction, if there is a time lag between the irrevocably performed contractual obligation and the related transaction consideration or, in the absence of a reciprocal exchange, if there is a delay in the fulfilment of the only obligation owed by the counterparty (*delivery and settlement risks*);
  - *Credit Valuation Adjustment (CVA)*: the risk of suffering losses due to changes in market prices as an effect of deterioration in the creditworthiness of counterparties of over-the-counter derivatives (excluding transactions with qualified central counterparties);
- *Italy sovereign risk (banking book)*: risk to which Italian government bonds in banking books are exposed, consisting alternatively: a) for securities measured at fair value, in the possibility of suffering a reduction in economic or market value that may originate from various risk factors, among which are adverse trends in risk-free interest rates, inflation and credit risk-related yield spreads; b) for securities measured at amortised cost, in the exposure to risks of insolvency, recovery and migration associated with the Italian government’s inability or unwillingness to honour its payment commitments in the time and manner originally foreseen. Risks associated with possible cash and unsecured credit exposures to central and local government entities of the Italian State are excluded;
- *Other securities risk (banking book)*: risk to which financial assets other than Italian government bonds in banking books are exposed, consisting alternatively: a) for securities measured at fair value, in the possibility of suffering a reduction in economic or market value that may originate from various risk factors, among which are adverse trends in risk-free interest rates, inflation and credit risk-related yield spreads; b) for securities measured at amortised cost, in the exposure to risks of insolvency, recovery and migration associated with the issuer’s inability or unwillingness to honour its payment



commitments in the time and manner originally foreseen;

- *Single name concentration risk*: the risk arising from relevant credit exposures to individual counterparties - including central counterparties - and groups of related counterparties, as well as similar risks related to credit risk mitigation techniques (also associated with indirect credit exposures);
- *Geo-sectoral concentration risk*: the risk arising from relevant credit exposures to counterparties belonging to the same economic sector or geographical region or which carry on the same business activity or deal in the same goods or services, as well as similar risks related to credit risk mitigation techniques (also associated with indirect credit exposures).

## Credit risk

### STRATEGY

The Group continues, through the exercise of lending activities, to fulfil its function as an entity primarily oriented towards supporting local economies by granting financial resources to those who pursue worthy goals and meet adequate reliability criteria in requesting those resources.

In this context, the lending activity is based on principles of healthy and prudent management, fair remuneration of the risk assumed and correct and efficient operational conduct, with a view to establishing a two-way relationship with borrowers based on mutual trust and transparency; this in order to enhance the Group's distinctive attitude for building long-term customised relationships with local business owners.

The sizing and composition of the Group's credit portfolio reflects the financial needs of families, small and medium-sized enterprises and institutions - mainly located in the areas where the Bank has opened branches - which constitute the economic and social fabric of the local territory.

The Bank favours lending towards SMEs and small businesses since they do not take part to broader financial circles and, consequently, they need a point of reference able to understand their requirements and meet their specific needs with expertise, efficiency and speed, following the evolution of their business over time. This does not mean that the Bank neglects the needs of larger counterparties, whether belonging to the "productive" sector or the "institutional" and "public" sectors, when creditworthiness, ascertained through a rigorous preliminary investigation, demonstrates solidity and reliability.

In consideration of the Group's strategic objectives and business, its lending strategy is based on a low risk appetite and a full awareness of the same; this involves:

- measurement of the current and prospective risk linked to the credit portfolio, both as a whole and/or at various levels of disaggregation;
- monitoring the risks linked to an excessive concentration of the portfolio, also through the settlement of limits on exposure towards larger counterparties and economic sectors with a more pronounced risk profile;
- rejection of transactions that could compromise the Group's profitability and stability.

In particular, the medium-term strategy is characterised by the maintenance of a cautious attitude towards the assumption of risks associated with the lending activity and a careful monitoring of them throughout the credit life cycle, to be implemented through:

- a rigorous examination of credit applications, aimed at understanding the effective risk of the counterparties by analysing

their ability to generate wealth in the present and in the future;

- an intensification of risk identification, monitoring and management to prevent the quality of credit assets from deterioration, with the aim of progressively limiting the cost of risk and the amount of non-performing loans (NPLs);
- the search for an adequate remuneration for the risk assumed on the basis of the type of credit facility granted and the adoption of prudent provisioning policies;
- the systematic use of rating models in the credit management processes, favouring selective, efficient and predictive assessments of the probability of counterparties' default.

In implementing the strategic guidelines set and in compliance with the risk thresholds established, the credit policy defines credit portfolio objectives in terms of size and qualitative composition in order to guarantee an adequate combination between the risk profile assumed and the levels of return achieved. Guidelines are declined in the definition of products, segments, sectors and categories of counterparties that maximise the expected profitability while, at the same time, governing the quality of the portfolio and ensuring capital adequacy on a prospective basis.

For planning purposes, the guidelines establish objectives for the operational offices, covering the quality of the portfolio, as well as its growth and profitability. These objectives must be achieved while respecting the capital adequacy requirements and risk limits.

Procedures and organisational structures in place are formalised in the internal regulatory framework, clearly specifying activities, roles and responsibilities. In order to avoid potential conflicts of interest, the separation between operating functions and control functions is ensured.

The system of decision-making powers approved by the top corporate Bodies, based on the principle of "cascade delegation", provides the attribution of limited powers to peripheral structures, preferring to give control duties to specialist central units.

Impaired loans monitoring and management comply with strategic guidelines aimed at limiting volumes and the impact of non-performing loans on total lending as well as the cost of the risk associated, also through targeted de-risking actions.

The Parent Company, in exercising its strategic and coordination function towards the Subsidiaries, ensures that at Group level uniform credit policies are adopted and that homogeneous classification, valuation, management and monitoring criteria are set. The strategic guidelines promoted are generally aimed at supporting local economies and, in particular, small and medium-sized economic operators and private individuals, pursuing the maintenance of a low risk profile and level of concentration.

The credit guidelines are declined by Subsidiaries in compliance of the peculiarities that can derive from the nature of the counterparties served and the specific types of products offered, as well as the characteristics of reference markets, taking into account any differences in local laws in the countries where the foreign Subsidiaries operate.

## MEASUREMENT AND CONTROL SYSTEMS

Assumption of risks associated to lending takes place through the use of methodologies, procedures, organisational structures and tools that are capable of guaranteeing the awareness of the exposure's size and evolution over time. In this regard, in compliance with current regulations and inspired by best practices, the Group develops a structured system for detecting and managing credit risk and promotes its use in the context of operational, management and control processes.



With reference to the measurement of credit risk, supervisory regulations leave intermediaries the possibility to choose between three alternative approaches to determine capital requirements. As regards Parent Company's "Corporate" and "Retail" exposures, the Advanced Internal Rating-Based Approach (A-IRB) is applied, which uses risk parameters calculated by means of internally estimated rating models. For further details on the methods applied for determining risk factors and on their pervasive use within credit management and control processes, please refer to Section 11 of this Document. As for the rest of the loan portfolio, the Group uses the traditional Standardised Approach (TSA) which involves the attribution of exposure weighting ratios on the basis of ratings assigned to each counterparty by specialised companies, called ECAI - External Credit Assessment Institutions (independent credit rating agencies recognised by the Supervisory Authorities, such as Standard & Poor's, Moody's, Fitch Ratings, Cerved Group), where available; if no external rating is available, the exposures included in the loan portfolio are divided into sub-aggregates and, for each of them, differentiated prudential treatments are applied depending on the nature of the counterparty and the technical form of the credit granted.

For ICAAP purposes, it is also important to highlight the Bank's adoption of a statistical portfolio model (Credit Portfolio Model) for measuring the economic capital to be allocated to the risk considered.

From an operational point of view, the credit risk management process is based on the full involvement of the different levels of the Group's organisation, in order to balance the necessity to give a prompt reply to customers' financial support requests with an analytical assessment of the risk involved. More in detail, the process is divided into different stages: credit policy and planning, appraisal phase, disbursement, periodic review, monitoring and management/recovery of impaired loans.

In implementing the strategic guidelines dictated by corporate governance Bodies, the credit policy defines portfolio volumes and qualitative composition in terms of technical forms, customer segments and geo-sectoral distribution of loans, in line with the desired performance and risk profile. The guidelines thus established are implemented by the organisational units responsible for the assumption and management of risk and are consequently reflected in the operations that characterise each phase of the credit process.

The appraisal phase, which aims at establishing if applicants satisfy certain conditions for creditworthiness, considers whether the loan characteristics are consistent with its purpose, whether any collateral provided is suitable for covering the risk of non-repayment and reviews the economic effectiveness of the loan itself. In this context, the evaluation expressed by the internal rating system, if available, and the associated probability of default are taken into maximum consideration as essential elements for an overall assessment of the customer and of the transaction.

The use of indicators of risk-adjusted value creation (EVA, Economic Value Added) meets the need to assess more selectively certain loan positions and to control more closely the quality of loans granted. Through a specific application integrated within the electronic credit line system, it is possible to determine a measure of profitability that is adjusted for credit risk (expected loss based on the customer's rating and on the LGD of the transaction) and for the opportunity cost of the regulatory capital absorbed that is connected to the individual lending relationship, reaching an estimate of the value added by current or potential exposures. This tool makes it possible to identify non-performing exposures more rapidly, thereby taking measures to restore a profitable situation and guide the criteria for setting the correct price of loans on the basis of requests for new financing or for a review of existing relationships.

The final decision whether to grant a loan or not is taken by the competent decision-making Bodies prior to loan disbursement, carefully assessing all of the information emerged during the appraisal procedure, as well as any other useful input that might be available. In order to ensure greater control over risks, the mechanism for establishing the autonomy of decision-making Bodies that constitute the decision-making ladder operates alongside the nominal value of the operation with another system of powers that also takes into account an objective measure of the counterparty risk which is reflected in the internal rating.

The credit lines are made operational and, therefore, available to the borrower only once the provisions of the resolution approving the loan have been completed, having specific regard to the acquisition and verification of collaterals and personal guarantees and to the assessment of their suitability to mitigate credit risk.

After disbursement, credit positions are reviewed periodically to check whether all of the conditions established during the appraisal and taken into consideration when granting the loan are still valid. Credit lines can also be automatically reviewed for low-risk positions, ascertained through the examination of suitable indicators that are established in advance, among which the internal rating takes on a great deal of importance.

The monitoring of the loan and the supporting guarantees, carried out in order to detect as quickly as possible any negative symptom that might arise and to implement promptly and effectively the necessary actions to prevent further deterioration, is performed in compliance with formal organisational procedures and is supported by automatic tools and applications. These entail a constant observation of the degree of reliability of the counterparties and a periodic verification of the persistence of general and specific requirements of acquisition and the possible loss of value of the credit protection acquired, with the aim of ensuring their full and effective enforcement in the event of the borrower's insolvency.

The entire monitoring system on the lending portfolio quality and the phenomena that characterise its deterioration is based on a complex set of rules, processes and control methods. In this regard, the organisational units responsible for credit positions management play an important role since they are able to immediately identify any sign of anomaly or deterioration of credit quality thanks to their direct relationships with borrowers. The competent structures are supported in these activities by a variety of reports produced internally or by external contributors.

Specific central structures are in charge of analysing the available information, in order to continuously assess the creditworthiness of each exposure and identify those potentially subject to excessive risk. The depth of this analysis is linked to the needs expressed. These structures can elaborate presumptive data and synthetic indicators representative of an increase in the risk of the borrower by using methodologies and performance control processes that take into account internal and system data together with the rating assigned by the rating system, where available.

With regard to the monitoring of loans showing signs of anomaly, formal processes have been established for the identification, resolution and monitoring of forborne position (credit exposures for which modifications to the terms and conditions or refinancing have been granted due to the borrower's financial difficulties); the forborne attribute is transversal to the administrative status of the credit. It is also important to specifically analyse overruns in terms of both severity and duration, so that the Bank can promptly intervene on positions that are beginning to show critical repayment issues.



Positions identified as being at significant risk are analysed appropriately and, if there are clear signs of difficulty, they are classified as “impaired”, depending on their actual severity.

The management of non-performing loans is entrusted to specific central offices which carry on their activities, aimed at regularising positions, where possible, or recovering the amount owed in the event of the borrowers’ insolvency, in close collaboration with the domiciliary structures of the relationships and with “corporate managers” and “retail managers” located throughout the territory. In order to simplify operational tasks, the involvement of these internal functions is combined with the intervention of selected specialised external companies which, under the supervision of the staff in charge, are used to send reminders to defaulting customers and/or recover the unpaid loans.

To rapidly intervene on deteriorating relationships and effectively monitor the credit quality of the overall loan portfolio, monitoring processes which, supported by dedicated tools, promote actions aimed at regularising relationships are adopted. At the Parent Company, specialised risk management units (CRO Area) provide support to the functions responsible for identifying “performing” customers showing first signs of difficulties and relationship anomalies, as well as counterparties with persistently past due. These structures also operate through second-level controls to ensure the correct performance monitoring of the positions, the consistency of their classification, the adequacy of the related provisions and the adequacy of recovery process.

In-depth controls are performed during the appraisal phase, pay-out, review and monitoring stages with regard to risks concentration for significant exposures to individual counterparties or groups of counterparties that are linked by legal and/or economic relationships. In addition, a process has been established to identify and manage separately the most significant credit transactions, differentiated on the basis of specific size and risk parameters, in order to evaluate whether they are in line with the Bank’s risk appetite before completing the procedure.

In order to support credit management activities and risk exposure monitoring, periodic heterogeneous reports are prepared, both at managerial and operational level, concerning the development of the lending portfolio, assessed according to different axes of analysis (with particular regard to the trend and composition of non-performing loans), as well as the risk components produced by the rating system.

The Parent Company, by exercising its strategic and coordination functions, ensures that uniform credit policies are adopted at Group level and homogeneous criteria for the assessment, classification, monitoring and risk management are set. These policies are then applied by every company of the Group according to the peculiarities of their counterparties and the particular types of products being offered, as well as the characteristics of the reference market.

The subsidiaries – depending on the specific sector to which they belong, on their organisational peculiarities and, as regards to Banca Popolare di Sondrio (SUISSE), on the constraints deriving from a different legal system – adopt substantially homogeneous procedures for credit risk managing and controlling.

In this regard, it should be noted that the Swiss entity has its own rating system to be applied for management purposes to its loans towards customers, based on the opinion expressed by industry insiders. This approach gathers various primary indicators and financial and qualitative information together, depending on the counterparty characteristics; the combined assessment of these elements allows to reach a score, which is used by the person making the final evaluation to assign a rating to the counterparty on a scale of eleven risk classes. This methodology is analysed by independent auditors, who consider it appropriate given the size, complexity and risks involved in the activities performed.

An internal rating system for the assessment of counterparties was also developed for the subsidiary Factorit, which also makes use of the risk ratings assigned by the Parent Company for common customers. The relevant models – currently used for management purposes only – are awaiting validation by the Supervisory Authority for recognition in the calculation of the company's individual capital requirements.

In order to limit so-called "residual risk" (i.e. the possibility that the credit risk mitigation techniques adopted are less effective than expected, if activated), the Group is equipped with an articulated system for managing real and personal guarantees which makes it possible to oversee the entire process of acquiring, evaluating, verifying and disposing them. This system involves formal policies and procedures relating to the use of guarantees, eligibility requirements – both general and specific - required by regulatory provisions and constant monitoring to ensure that the amount is appropriate.

Guarantees acquired are revalued on the basis of events connected to the status of the loan and/or the collateral and also according to methods and periodicity consistent with the nature of the assets or financial instruments in place and in line with current regulatory standards. Information systems and operating procedures in fact allow the acquisition, storage and management of all data useful for the correct identification and assessment of the guarantees assumed.

Suitable arrangements are made when obtaining, assessing and verifying guarantees to ensure that they will prevail over third parties, both in the present and in the future, and can be fully enforced in case of a counterparty default.

With regard to mortgage guarantees, Group companies adopt reliable principles and standards for the assessment of properties in order to obtain realistic and detailed estimates of the value of the assets being used as collateral. There are also processes capable of ensuring an efficient management and a timely assessment of properties that are subject to real encumbrances, by realizing an inventory of the assets and filing expert appraisals in specific IT applications.

At the Parent Company, the value of the properties is updated using external expert appraisers, equipped with the right professional skills and independent from the proposal, resolution and loan pay-out processes. In order to ensure timely alignment with developments in the real estate market, the revaluation of the entire property portfolio used as collateral is also envisaged, based on statistical parameters that reflect market conditions. The entire loans portfolio backed by mortgage guarantees is periodically undergoes a further level of monitoring, centrally managed by the relevant departments with the aim of highlighting the exposures and related collateral property valuations that present risk characteristics. This can lead to specific controls and, depending on the outcome, corrective actions may be required, updating the appraisal if necessary.

Within the Group, the elements of uncertainty ascribable to the political, macro-economic and institutional situation of the countries where it is intended to lend money (i.e. country risk) are carefully assessed in the formulation of the company guidelines.

As for managing this type of risk, the credit assessment process incorporates specific control activities to be performed while screening the individual positions to monitor risk aspects attributable to the geographical area of the contracting parties.

The examination of risk profiles related to the occurrence, in the country of origin or of the customer's main business, of socio-political, economic or other types of events likely to compromise their solvency, from an operational point of view can be traced back to the broader and detailed creditworthiness analysis of the counterparties conducted when the risk was assumed.



## Counterparty risk and credit valuation adjustment risk

### STRATEGY

Counterparty risk represents the risk of suffering losses deriving from the failure of a counterparty to fulfil its contractual obligations, where the term “counterparty” identifies, primarily, a financial intermediary or other institutional operator (e.g. banks, SIMs, investment, SICAV, SICAF, UCIs, AMC) with which financial transactions are carried out (repurchase agreements, transactions in derivative instruments, spot or forward exchange rates, interbank deposits). This risk does not apply to financial contracts negotiated on regulated markets where clearing and guarantee mechanisms operate.

Another risk driver originates from trading in derivatives on a variety of underlying assets (such as debt and interest rate securities, equity securities, stock indexes, currencies, gold and metals) carried out by the Group with customers. Transactions in OTC derivatives are mainly aimed at hedging risks on currencies, interest rates or commodities on behalf of households and companies. The Group mainly offers plain vanilla derivatives to its customers, and these deals are usually matched by similar back-to-back derivative transactions with bank counterparties.

In general, the assumption of risks stemming from the financial activities performed by the Group with market counterparties, public and corporate issuers of bonds and similar securities held by the Group in its proprietary portfolios or ordinary customers operating in derivatives, is preceded by the assignment of dedicated credit lines (“plafonds”) according to procedures set in internal regulations.

Specific risk limits are also established in terms of portfolio exposures with counterparties/issuers.

### MEASUREMENT AND CONTROL SYSTEMS

The Group determines its capital requirement for counterparty risk on the basis of: a) the “Internal Model Method” for exposures to counterparties falling within the A-IRB Corporate and Retail segments and b) the “Standardised Approach” for the remaining exposure portfolios. The latter approximates the cost to the Group for finding another party willing to take over the obligations of the original contractual counterparty if the latter proves insolvent.

In this regard, the following categories of transactions are relevant:

- Over-The-Counter (OTC) derivative instruments;
- Securities Financing Transactions (SFT); typically, repurchase agreements on securities;
- Long Settlement Transactions (LST); typically, forward currency trading transactions.

The exposures subject to counterparty risk are quantified according to the “Market value method”, as stated by prudential provisions.

Furthermore, limited to OTC derivative transactions - with the exception of any credit derivatives possibly recognised for the purpose of mitigating weighted exposures for credit risk - an additional capital requirement is calculated to meet the specific risk of Credit Valuation Adjustment (CVA), intended to hedge the risk associated with reductions in the market value of derivatives in the portfolio due to a deterioration in the creditworthiness of counterparties. For this purpose, the “standardised method” envisaged by prudential regulations in force is adopted.



With regard to the management of “credit risks arising from financial activities” (a category to which counterparty and issuer risks are managerially attributed), the management framework establishes that each counterparty/issuer can be authorised to operate with the Group only after opening specific internal credit lines (plafond) and being assigned to a defined creditworthiness class; the operating ceilings granted are subject to periodic review by the competent corporate structures.

With regard to the exposures to Italian and foreign banks, Banca Popolare di Sondrio uses the ratings given by leading agencies, wherever available, for valuation purposes. Otherwise, an internal rating, based on the application of a simplified model, is used. This model involves the examination of a series of quantitative and qualitative indicators and information, which produce values for the determination of a final score. This score is positioned on a scale of ten classes, where the first one represents a counterparty/issuer with minimal risk and the ninth identifies the highest level of risk, beaten only by a state of default, represented by the tenth class. In order to allow an easier correlation with the assessments expressed by international rating agencies, these ten classes are in turn aggregated into four macro-classes of rating.

A specific analysis of each risk position taken towards the various counterparties/issuers is also carried out on a regular basis, conducted by competent central structures by considering a series of indicators, including the rating trend (internal or external), data deriving from the accounting information of the counterparty/issuer and market data.

The results of the controls carried out are periodically reported to corporate Bodies and functions belonging to the Chief Risk Officer Area.

The aforementioned processes for counterparty and issuer risk monitoring and management apply to exposures towards the following subjects:

- ordinary customers (natural and legal persons), if they intend to carry out transactions in OTC derivatives;
- banks and operators included in the list contained in Legislative Decree No. 58 of 24/2/98 (e.g. SIM, investment companies, SICAV, SICAF, UCIs, AMCs);
- other issuers of bonds and similar securities acquired in the portfolio (limited to issuer risk), excluding the Italian State and other specific issuers, central counterparties and governments with an equal or lower risk profile.

The estimates of risk exposure in question refer to transactions involving the following financial assets: interbank deposits, repurchase agreements, securities (bonds and similar securities), derivative transactions, spot or forward exchange rates.

In addition to the previously described monitoring system, a methodological and procedural framework aimed at quantifying and monitoring “counterparty risk” properly referred to according to both a regulatory and management perspective is in place.

Within the Chief Risk Officer Area, a dedicated office provides periodic risk exposure measurement with reference to specific types of financial transactions carried out by the Bank and other Group entities, namely over-the-counter (OTC) derivatives trading, Security Financing Transactions (SFT) and Long Settlement Transactions (LST).



In particular, a monthly calculation of the estimated capital requirement is carried out for regulatory purposes in accordance with the current standardised supervisory approach (SA-CCR), which is also used in reporting. For transactions in OTC derivatives that have a positive mark-to-market, an independent calculation of CVA (Credit Valuation Adjustment) and DVA (Debt Valuation Adjustment) metrics is also performed, respectively expressing the risk component of loss and/or “gain” linked to the default by and/or towards the counterparty in determining the fair value of the instruments, applying an alternative methodology to that adopted for accounting purposes<sup>7</sup>.

The control of exposure to risk related to possible changes in the creditworthiness of the counterparty of derivative transactions envisages a framework, also managerial, of measurement and monitoring that is based on the calculation of effective positive expected exposure metrics (EffEPE) aligned to industry best practices in this area. The analyses conducted feed into the production of periodic reports for internal reporting of the main findings.

With regard to OTC derivatives offered to corporate and retail customers exclusively for the purpose of hedging financial risks (exchange rate, interest rate or goods), each contract is offset by an opposite-sign contract, signed with primary market counterparties (typically, financial institutions of proven reliability) to neutralise or minimize any loss that might arise on hedged instruments.

For all exposures towards financial counterparties, mainly banks, Credit Support Annex (CSA) agreements are stipulated; these are bilateral contracts that assist operations in derivative instruments regulated by the “ISDA Master Agreement” in which the conditions for collateral mutual exchange are defined, i.e. a guarantee deposit (for BPS, cash deposits in euro) in order to mitigate the credit risk associated with a positive mark-to-market. The amount of these collateral guarantee assets is recalculated periodically based on the fair value of the underlying derivative.

Additional forms of risk mitigation are represented by the use of “Qualified Central Counterparties” (as defined by EU regulations), as well as the participation in central clearing and guarantee systems or mechanisms for guaranteeing the settlement of foreign exchange transactions (e.g., the interbank circuit CLS, Continuous Linked Settlement).

## Sovereign risk on banking book (Italy)

### STRATEGY

According to management guidelines, direct investments in Italian government securities are mainly allocated to financial assets not held for trading purposes, in which available liquidity is invested to limit, at least to a certain extent, the impact of financial market volatility on the income statement.

The Group’s assumption of long-term positions in domestic sovereign debt is strongly influenced by monetary policy decisions taken by the European Central Bank, by the trend in the national economic situation and by any need to maintain adequate financial assets reserves that can easily be turned into cash.

The strategy of increasing diversification of the proprietary securities portfolio continued, with Italian sovereign debt securities as a percentage of the total market value of the banking book gradually decreasing from 55.4% at the end of 2022 to 47.9% at the end of 2023. In order to duly take risk into account, steps were taken to contain the modified duration

<sup>7</sup> The methodology based on positive expected effective exposure (effective EPE or EffEPE) also prescribed by the prudential supervisory framework is used in the estimation..



of the Italy sovereign portfolio, which remains slightly less than a year, in line with the end of the previous year, thanks to the maintenance of a prevailing share of floating-rate government bonds, amounting at the end of 2023 to approximately 74% of the segment under analysis (from 77% last year).

For the Parent Company the main source of risk exposure on the sovereign portfolio - an expression of both the risk of suffering reductions in economic or market value from Italian government securities held in the banking book portfolios measured at fair value for accounting purposes, and the exposure to default, recovery and migration risks on government securities included among the banking book instruments measured at amortised cost - is given by the holdings of Italian government debt securities classified for accounting purposes among “financial assets measured at fair value through other comprehensive income” (HTCS - Held To Collect and Sell), in which approximately 22% of the type of securities under analysis is allocated, and “financial assets measured at amortised cost” (HTC - Held To Collect), in which the remainder is placed. A minimal portion of Italian government securities belonging to the “financial activities valued at the amortised cost” portfolio can be attributed to the BPS employee retirement scheme, which does not fall under the Italian sovereign risk monitoring.

Among the Subsidiaries, only BNT Banca has marginal exposures classifiable under this type of risk, having purchased, mainly for the purpose of holding reserves of liquidity, debt instruments issued by the Italian Republic which do fall within the risk perimeter.

Relevant collective Bodies define strategic guidelines regarding the management of financial instruments within the scope of the risk under consideration, taking into account potential impacts on current risk objectives and limits. The Operating Areas then undertake risk by operating in the financial markets and manage the exposure following the guidelines received, and also monitor any operational limit to trading activities.

## MEASUREMENT AND CONTROL SYSTEMS

As regards the determination of the capital absorption associated with Italian sovereign debt securities, the portfolio in question is included in the calculation of the Pillar 1 requirement for credit risk in accordance with the applicable supervisory regulations. The Standardised Approach is therefore adopted, according to which a risk weight of 0% is assigned to exposures towards Central Administrations and Central Banks of the EU Member States - including Italy - denominated and financed in the national currency.

From a management perspective, the CRO Area determines on a daily basis the risk exposure related to investments in Italian government debt securities falling within the scope of activity identified above separately for amortised cost and fair value positions.

For positions at amortised cost, exposure reviews are based on the risk metric known as “Stressed Expected Credit Loss” (sECL), a measure that aims to quantify the degree of risk associated with the specific portion of the portfolio, focusing specifically on the credit risk profile: this, in fact, represents the estimated expected loss in the event of a reduction in the creditworthiness of securities/issuers in the portfolio. The sECL limit expressed as a percentage of Tier 1 primary capital (CET1) and distinctly articulated on an individual and consolidated basis, is configured as a complementary RAF parameter, like the “Maximum Acceptable Loss” limits described below (which instead find application to instruments measured at fair value) and is accompanied by attention thresholds aimed at reporting any tightening of risk as it approaches the threshold-limit.



With reference to banking book instruments measured at fair value, the exposure to risk - derived from the possibility of suffering impairment losses as a result of unexpected trends in market rates representative of risk-free asset yields, the risk of incurring losses as a result of unexpected changes in the differential between the yield on securities and the current level of risk-free interest rates (so-called credit spread risk) by virtue of elements related to the issuer's situation and/or the characteristics of the instrument issued, as well as the risk of incurring losses because of changes in inflationary expectations (inflation risk) for inflation-linked securities - is determined primarily through an internal historical Value-at-Risk (VaR) quantification method. The figure resulting from this model is an estimate of the maximum potentially achievable loss on the portfolio, over a defined period of time and with a certain degree of probability, calculated on the basis of the actual historical observations of the returns of the risk factors that contribute to determining the value of the elements making up the portfolio. The aggregation of the VaR at portfolio level occurs by taking into account implicit correlations between the various risk profiles, by virtue of which the overall VaR value is normally lower than the sum of the individual VaRs.

Backtesting is performed on the results of the statistical model, comparing them with the results achieved on the sovereign portfolio in the past. This involves a comparison between the daily VaR figures and the changes in market value the next day for the same positions on which the VaR measurements were calculated (theoretical losses), the changes in the hypothetical present value of the instrument/portfolio, calculated using the respective pricing model applied by the risk exposure calculation tool (theoretical losses from the model) and the changes in market value on the following day recorded on the portfolio including the actual increases/decreases that have taken place (actual losses).

VaR estimates on domestic government securities in the portfolio fall within a wider system of internal limits designed to ensure an organic and coherent control structure of risk profiles originating from investments in financial portfolios. In this regard, the Board of Directors of the Parent Company quantifies on an annual basis, within the Risk Appetite Framework (RAF), the maximum level of losses that would be considered tolerable ("Maximum Acceptable Loss") on the overall positions in securities at fair value held for purpose other than trading, both on a consolidated basis and at the Parent Company level alone, in line with the investment policies and with the financial transactions expected to take place over a one year horizon (*risk trigger - first level limits*). A monitoring threshold is also set in order to signal that the risk profile is approaching the set "Maximum Acceptable Loss" (MAL) limit; exceeding it leads to more intense controls over the risk exposure.

The measure of "Maximum Acceptable Loss" compares with an aggregate equal to the sum of the "Effective Cumulative Loss" (ECL), which reflects any negative result of the portfolio management, including both realised and unrealised losses, and an estimate of the "Maturity VaR" (VaRhp), representing the potential loss that the portfolio could still suffer over a one-month horizon, quantified using statistical techniques. There is no specific reference threshold for ECL; however, this metric is taken into account in the dynamic determination of the VaRhp limit (*second-level limit*) which is calculated as a percentage of the MAL monitoring threshold less any ECL amount, to take account - where present - of the negative results already achieved on the portfolio. A monitoring threshold is also set to report the approach of the risk profile to the identified VaRhp limit.

This second level operational limit is in turn split, only for positions in financial instruments measured at fair value, into daily early warning thresholds which can promptly report any increase in the risk associated with portfolio positions (*third level limits*). These are specific daily VaR thresholds provided for exposure towards individual risk factors underlying the aggregates of assets in the portfolio. In particular, as regards to the instruments of the banking book exposed to "sovereign risk", these thresholds aim to contain the daily exposure towards the risk-free interest rate risk, credit spread risk and inflation risk.

An early warning threshold is also set for the measurement of Maturity VaR estimated in stress conditions (“Stressed VaR”), which is determined monthly on the overall banking book at fair value, i.e. not only on the positions in Italian sovereign securities.

In addition to the metrics system described, a maximum limit is set on the proportion of domestic sovereign debt securities to the overall market value of the banking book, considered in the RAF as complementary risk appetite limit.

If the existing limits are found to have been exceeded, based on the measurements made on the level reached by one of the indicators of exposure to the above risks, differentiated escalation processes are activated according to the materiality of the limit/threshold exceeded, thus taking the most appropriate steps to mitigate the risk. For example, management measures that can be implemented to bring risk exposure back within set limits may include: reshaping financial investment strategies; recomposition of proprietary portfolios by investment size and/or issuer type (e.g. by changing risk allocation toward issuers characterised by more favourable regulatory weighting); imposition of additional operational limits expressed in terms of position ceilings (nominal, book, or market values; stop losses) or sensitivities; and use of hedging transactions.

The control system also contemplates additional daily risk metrics (so-called sensitivities, which are synthetic parameters that measure the extent of potential changes in the value of financial assets in reaction to smaller changes in the respective risk factors) and monthly (so-called “Stressed Present Value”, which is a measure of the impact on the securities value in the portfolio of an hypothetical stress scenario), calculated by type of instrument and separately for each portfolio to which it belongs.

In support of the monitoring processes described, adequate internal reporting is prepared, in a timely and performance-oriented manner, to document risk analyses carried out by the Chief Risk Officer Area upon request or with a predefined frequency.

The global VaR and sECL calculated on the sovereign portfolio are also used for the purpose of quantifying, within the Group’s capital adequacy assessment process (ICAAP), the internal capital intended to hedge the risk in question.



## OTHER (NON-SOVEREIGN) BANKING BOOK INSTRUMENTS RISK

### STRATEGY

Exposed to this type of risk - understood as the risk of suffering impairment losses on financial assets (other than securities issued by the Italian State) present in the banking book portfolios due both to adverse changes in financial markets and to deterioration in the creditworthiness of issuers or issues - are equity securities and other capital interests not included in the accounting item "Equity investments", UCIs and debt instruments falling under the non-trading portfolios, excluding assets issued by the Italian state (treated, as mentioned, under "Italy sovereign risk"), units of real estate funds in the portfolio (treated under "real estate risk") and financial investments made by the personnel pension fund (treated under "pension fund-related risk").

The overall exposure to this risk is broken down, for the portion of securities measured at fair value, into the subspecies of "interest rate risk" (risk-free), "credit spread risk", "inflation risk", "price risk" and "optionality risk", depending on whether the risk consists, respectively, of a fluctuation in risk-free interest rates, in risk premiums related to the situation of the issuer and/or the characteristics of the debt security issued, in inflation expectations ("inflation risk") for any inflation-linked securities in portfolio, in equity securities prices or UCIs or in the volatility of the underlying options.

As regards interest rate, credit spread and inflation risk, the Group's exposure is represented by holdings of debt instruments not issued by the Italian Government and classified at the accounting level under "other financial assets mandatorily measured at fair value", "financial assets measured at fair value through other comprehensive income". Exposure to default, recovery and migration risks, on the other hand, comes from the same types of financial assets found under "financial assets measured at amortised cost" (HTC - Held To Collect).

The focus on prudent risk assumption and management translates into a bond portfolio more than one-half of which consists of fixed-rate European government bonds (specifically, Spain, France, Germany and, residually, Holland and Austria) and debt securities of corporate issuers, mainly senior preferred, green and social financials, with good credit quality. During 2023, a reduction in the share allocated to HTC was observed, which nevertheless remains prevalent, being also a prudential choice. The share of securitisations in the portfolio increased further, stemming mainly from the repurchase of part of the ABS securities issued against the transfers of NPL made by the Bank during the year.

The overall modified duration of the banking bond portfolio falling within the scope of other securities risk, net of the aforementioned securitisations, decreased year-on-year to 2.6 years at the end of 2023 (3.9 years at the end of 2022).

The main source of exposure to "price risk" consists of equity securities and UCIs classified under "other financial assets mandatorily measured at fair value" and "financial assets measured at fair value through other comprehensive income". On a prudential basis, investments in UCIs were significantly reduced during the year, amounting to just over 1% of the banking book as a whole at year-end (from 4.6% at the end of 2022). Investments of this kind mainly relate to private equity and private debt funds; also present are AIFs from the sale of our non-performing loans. Equity securities do not show significant changes.

There are no inflation-linked securities in the portfolio and therefore the exposure to inflation risk is zero. Finally, the source of exposure to optionality risk stems from the few bonds with implicit optionality in the portfolio.

The subsidiary Banca Popolare di Sondrio (SUISSE) is marginally exposed to other securities risk as regards the fair value component of its own financial securities. The other Subsidiaries are not significantly exposed to this type of risk.

The relevant collective Bodies define strategic guidelines regarding the management of financial instruments within the scope of the risk under consideration, taking into account potential impacts on current risk objectives and limits. The Operating Areas then undertake risk by operating in the financial markets and manage the exposure following the guidelines received, and also monitor any operational limit to trading activities.

## MEASUREMENT AND CONTROL SYSTEMS

As for measuring this type of risk, the Standardised Approach adopted by the Group is applied for regulatory purposes to determine the capital requirement for credit risk. This involves weighting the exposures on the basis of the rating assigned to each issuer, where one is available.

From a management perspective, the Chief Risk Officer Area of the Parent Company determines on a daily basis the risk exposure at consolidated and individual levels, separately for amortised cost and fair value positions.

For positions at amortised cost, controls on exposures are based, similarly to what has been exposed for “Italy sovereign risk,” on the metric of “Stressed Expected Credit Loss” (sECL - stressed ECL). This measure aims to quantify the degree of risk associated with the specific portion of the portfolio by focusing specifically on the credit risk profile: this, in fact, represents the amount of estimated expected loss assuming a reduction in the creditworthiness of securities/issuers in the portfolio. The sECL limit, expressed as a percentage of Tier 1 primary capital (CET1) and distinctly articulated on both an individual and consolidated basis, is configured as a complementary RAF parameter and is accompanied by an attention threshold aimed at reporting any tightening of risk as it approaches the threshold-limit.

With reference to banking book instruments measured at fair value, the overall risk exposure - investigated separately in its components of “interest rate risk” (risk-free), “credit spread risk”, “price risk”, “inflation risk” and “optionality risk” - is quantified through the same Value-at-Risk (VaR) statistical model illustrated for “Italy sovereign risk.” The resulting figure indicates, at aggregate level, the estimate of the maximum potentially achievable loss on financial instruments (other than Italian sovereign debt securities) not held for trading purposes, in a defined period of time and with a certain degree of probability, calculated on the basis of the implicit returns and correlations observed historically between the individual risk factors to which these assets are exposed.

For debt securities, equities and UCIs falling within the fair value part of the portfolio under analysis, the forecast results of the VaR model are backtested with those historically achieved on the entire portfolio of instruments according to the same method illustrated in the paragraph dedicated to “Italian sovereign risk”.

VaR estimates concerning the risk in question fall within the broader system of internal limits explained in the section on “sovereign risk”, to which reference should be made; however, for the banking sub-portfolio exposed to “other securities risk” measured at fair value, second level limits applied to “Maturity VaR” (VaRhp) translate into more specific daily VaR thresholds (early warnings), set separately to monitor “risk-free interest rate risk”, “credit spread risk”, “price risk”, “inflation risk” (established at 0 since no such transactions are present) and “optionality risk” on the instruments in the portfolio.



If, thanks to the surveys on the level from time to time reached by the indicators of exposure to the aforementioned risks, the existing limits are found to be exceeded, differentiated escalation processes are activated based on the relevance of the violated limit/threshold, in order to achieve the management actions deemed most suitable for risk mitigation.

The control system also contemplates additional daily risk metrics (so-called Sensitivities, which are synthetic parameters that commensurate the extent of potential changes in the value of assets in reaction to smallest changes in the respective risk factors) and monthly (so-called Stressed Present Value, which is a metric of the impact securities value in the portfolio of a hypothetical stress scenario), calculated by type of instrument and separately for each portfolio to which it belongs.

In support of monitoring processes, adequate internal reporting is prepared, in a timely and performance-oriented manner, to document risk analyses carried out by the Chief Risk Officer Area upon request or with a predefined frequency.

The measurements of maturity VaR and sECL calculated on the instruments included in the banking book, other than securities issued by the Italian Government, are also used for the purpose of quantifying the internal capital intended to cover the risk in question as part of the Group's capital adequacy assessment process (ICAAP).

## Single-name and geo-sectoral credit concentration risks

### STRATEGY

The Group manages its lending activities by ensuring a strict control of risk concentration levels, which is in turn an expression of its traditional vocation to sustain local economic operators, especially SMEs and households.

This implies a managerial appetite to risk diversification and fragmentation (except for a number of exposures towards large counterparties, which are however carefully monitored) in order to prevent an excessive credit risk concentration in the Group's asset portfolios, also by the imposition of maximum exposure limits to single counterparties/groups of connected customers, economic sectors and/or geographical areas with higher risk profiles.

As for the distribution of the portfolio by economic sector, the Group's overall exposure in the real estate sector assumes importance for the mortgage loans granted to households (mainly for buying, building or renovating their own property) and productive enterprises that actually do not belong to construction and real estate macro-segments, as well as through the direct financing of companies operating in these sectors, whose repayment capacity mainly depends on the building, rental or sale of real estate.

In geographical terms, loans to customers, broken down by residence of the counterparty, are mainly concentrated in Italy and especially in the Group's traditional "home ground" (Lombardy and Lazio regions, where the Group's presence on the territory is particularly widespread).

Business activities could be therefore significantly influenced by changes in domestic macro-economic conditions, with specific regard to the dynamics of geographical areas with an intensive industrial development in the Northern and Central Italy.



## MEASUREMENT AND CONTROL SYSTEMS

The prudential discipline does not prescribe, for the purposes of Pillar 1, the determination of specific minimum capital requirements to deal with the exposure to credit concentration risks (single-name and geo-sectoral), leaving the evaluation to intermediaries, as part of Pillar 2 analyses, regarding the advisability of placing specific capital amounts to cover these risk profiles. Considering the importance of these risk types, the Group chooses to allocate a certain amount of capital for each of them. This is communicated to the Supervisory Authority during the periodic ICAAP reporting.

The need to attribute a magnitude of economic capital to the concentration risk derives from the need to fill the gaps inherent in regulatory models for measuring credit risk; in fact, supervisory approaches to quantify capital absorption do not take into account the fact that a loan portfolio concentrated on a few large borrowers and/or towards a limited number of geographical areas or production sectors incorporates a higher level of risk than a perfectly diversified portfolio. For this quantification, the Group adopts a special statistical portfolio model, which is used more generally for estimating economic capital requirements for credit risk exposure strictly as well as for additional risk components related to it (e.g., residual risk, migration risk, concentration risks).

From a managerial point of view, during the appraisal phase, as well as in credits disbursement, review and monitoring processes, in-depth controls are carried out by the Group's components on the credit portfolio risk concentration related to major exposures towards individual counterparties or groups of connected clients.

For loans applications qualified to be "of greater significance" according to the size of the outstanding exposure and the request for new credit lines, specific procedures, in line with the regulatory framework, are followed by the Group. In particular, such applications originating from the main members of the Group, supplemented by the related report, are sent to a dedicated office operating at the Parent Company's Chief Risk Officer Area, which is requested to check that the transaction is consistent with the Risk Appetite Framework (RAF).

For positions that are classified as "Large exposures" for supervisory purposes, in addition to the ordinary preliminary appraisal, an in-depth analysis by this unit is envisaged to support the assessments of the decision-making Bodies.

The Chief Risk Officer Area is also responsible for:

- monitoring the development of main credit exposures, whenever there are signals of risk increase, punctually reviewing positions and, if applicable, informing the competent corporate Bodies on the matter;
- analysing periodically the credit portfolio composition by economic sectors and counterparties.
- The Risk Appetite Framework in turn sets limits on the concentration of the loan portfolio towards larger counterparties and "unattractive" economic sectors.

If needed or in order to hold down the level of concentration, specific mitigation measures can be taken as part of credit and the related risk management. The tools for pursuing this objective include:

- preventive measures to limit particularly concentrated exposures, leading to an intensification of controls and risk analyses to be carried out before the execution of the transactions;
- actions to correct the risk profile, to be implemented in the event of an increase in the levels of risk assumed, with the aim of bringing the amount of exposure back down below the limits of acceptability and restoring a situation in line with the Bank's risk appetite.



The concentration profile of the Group's loans, both at business portfolios and economic sectors levels, is periodically monitored by the competent central offices of the Parent Company, producing for the benefit of the Company's top management a specific report concerning, among others, the quality of the exposures at an aggregate level, the concentration of risks and the distribution of loans by rating classes. If necessary, an in-depth review of the degree of reliability is conducted for exposures of significant size, based on the economic sector, the internal/external rating of the counterparty, the technical form of credit lines, guarantees given and received and the duration of the credit lines granted.

With reference to financial operations, the concentration of risk is monitored through the periodic determination of the exposure to risk against the credit lines granted towards financial counterparties or issuers of debt securities in portfolio, calculated using the "amount effectively granted"<sup>8</sup> by credit line, suitably weighted by means of risk ratios linked to the creditworthiness class in which each counterparty/issuer is classified.

This exposure, neither at the time of granting the credit lines nor on an ongoing basis, may exceed the quantitative limits illustrated in the paragraph dedicated to "counterparty and credit valuation adjustment risks", respectively expressed in terms of:

- maximum exposure towards each counterparty/issuer ("Single counterparty limit");
- maximum cumulative exposure towards top 10 counterparties/issuers ("Concentration limit");
- maximum cumulative exposure towards counterparties/issuers belonging to the same country, other than Italy ("Country risk limit").

## MARKET RISK

### DEFINITION

Risk of economic losses due to decreases in value of activities and / or increases in value of liabilities induced by adverse trends in financial markets, in connection with trading operations in securities and other financial instruments, currencies and commodities. It can be broken down into:

- *Position risk on financial instruments*: the risk of suffering impairment losses due to fluctuations in the economic or market value of transferable securities due to factors relating to the performance of markets and the situation of the issuer; it is in turn divided into:
  - *Generic risk*: the risk of losses caused by an unfavourable trend in the economic or market value of almost all traded financial instruments (for fixed-yield securities and similar instruments, dependent on an adverse change in market interest rates levels representing yields on risk-free assets; for equities and similar instruments, linked to a generally unfavourable trend in market prices);
  - *Specific risk*: the risk of losses originating from an unfavourable change in the economic or market value of traded financial instruments, which is in turn due to factors or events connected with the situation of the issuer (e.g., insolvency or other circumstances that determine a change in the issuer's creditworthiness). *Credit spread risk* is attributable in this case, given by the risk of suffering impairment due to unexpected changes in the difference between the yield on a debt security or similar instrument in portfolio and the risk-free interest rate, representing the risk premium related to the situation of the issuer and/or the characteristics of the financial instrument issued;

<sup>8</sup> In operating terms, the "amount effectively granted" is the amount, measured at a specific point in time, obtained by multiplying the credit limit granted to counterparties/issuers by a corrective factor corresponding to the higher of the individual credit lines and the amount historically observed, in relation to all the credit lines granted, at a high level of statistical significance.



- *Concentration risk on the trading book*: the risk deriving from exposures towards individual counterparties or issuers, of specific issuances, identified economic sectors and/or geographical areas. As regards exposure to market risks, concentration refers to the financial instruments held in the trading portfolio issued by customers or groups of connected customers pursuant to the supervisory provisions on “Large exposures”;
- *Exchange rate risk*: the risk of incurring losses as a result of adverse changes in foreign currency exchange rates and on positions held by the Group, regardless of the portfolio to which they are allocated; it includes the *structural exchange rate risk* arising from the risk that adverse changes in foreign currency exchange rates may produce negative impacts on income or equity as a result of holding financial assets denominated in foreign currencies measured at historical cost or at fair value through other comprehensive income recognised as foreign exchange positions of a structural nature;
- *Commodity risk*: the risk of suffering losses due to adverse changes in commodity prices on the positions held by the Group, regardless of the portfolio they have been allocated to;
- *Basis risk on the trading book*: the risk of suffering losses caused by non-aligned variations in the values of opposite-sign positions that are similar but not identical, considered in the context of market risk. Particular attention is paid to the possibility, provided for by the standardised approach to the calculation of capital requirements on position risk, to offset the positions in one or more equity securities included in an equity index with one or more positions in futures or other derivatives related to this index or to offset opposite positions in futures in an equity index, which however are not identical in terms of maturity, composition or both.

## STRATEGY

The objectives and strategies underlying proprietary trading, designed to manage the portfolio of securities held for trading purposes, are aimed at maximising its profitability, seizing any investment opportunities that may arise due to the market context, as part of an approach inspired by the containment and rigorous assessment of the risk profile. The Parent Company's role in trading activities essentially consists of arbitrage in securities to benefit from short-term trading opportunities, rather than taking long-term risk positions.

The overall exposure to market risk, referring to all financial assets held for trading purposes, is divided, for management monitoring purposes, into the subspecies of “interest rate risk”, “inflation risk”, “exchange risk”, “price risk”, “commodity risk”, “credit spread risk” and “optionality risk”, depending on whether the relevant risk factor consists, respectively, of a change in interest rates risk-free, inflationary expectations, exchange rates, prices of equities, UCIs or commodities, risk premiums related to the situation of the issuer and/or the characteristics of the financial instrument issued, the volatility of the optional underlying components.

The source of exposure to interest rate risk (risk-free) mainly consists of fixed-yield securities classified as “financial assets held for trading”; there is also a marginal contribution from derivative instruments, both in the strict sense (options on interest rates and exchange rates, options on shares and indices, interest rate swaps) and forward exchange rate contracts. With regard to the trading of derivative instruments in the strict sense, the Bank's competent offices carry out trading at the request of customers, which is then hedged with other financial counterparties, with the exception of trading in options on listed shares and indices, which is carried out for trading purposes. Activities with other innovative or complex instruments are almost irrelevant.



Still in relation to the bond component, exposure to credit spread risk consists exclusively of fixed-yield securities classified for accounting purposes as “financial assets held for trading” (FVTPLT - Fair Value Through Profit or Loss Trading).

There were no exposures subject to “inflation risk” during the year.

The main source of price risk is represented by equities and UCIs classified in the portfolio of “financial assets held for trading” (FVTPLT - Fair Value Through Profit or Loss Trading), from which the investments of the personnel pension fund are excluded (treated as part of the identification of the “risk associated with pension funds”) and the shares of real estate funds in the portfolio (treated as part of the measurement of “real estate risk”).

As for the interest rate risk, also for the price risk the strategy pursued in the context of the overall assumption of market risks is oriented towards a prudent management of the assets held. Likewise, the composition within equity securities in the portfolio favours those issued by primary large markets companies, financial and otherwise. In the non-bond segment as well, the trading activity carried out by the Parent Company focuses mainly on exploiting trading opportunities: transactions focus in particular on Italian and European equities, but also include investments in funds aimed at increasing the sectoral and geographic diversification of the portfolio; the transactions in question no longer concern only ETFs, but also units of UCIs. With regard to derivative instruments, reference is made to the already mentioned equity option and index option trading.

Exposure to commodities risk, recognised on all items in the financial statements, arises from: forward commodities and commodity transactions, executed to meet specific customer operating requirements and then balanced with mirror contracts signed with leading financial counterparties; loans in precious metals; current accounts receivable and payable in precious metals; and residual balances also in precious metals. The resulting overall risk exposure is, however, insignificant.

The subsidiaries Factorit, Sinergia Seconda and BNT Banca have no exposures inherent to the trading portfolio in a strict sense; Popso Covered Bond, consolidated on a synthetic basis with the Parent Company, contributes to the exposures referred to with reference to the Parent Company Banca Popolare di Sondrio, albeit only minimally. For Banca Popolare di Sondrio (SUISSE), the interest rate risk arising from the trading portfolio is attributable to the underwriting of forward exchange rate contracts; commodity risk originates from occasional trading in commodity options on behalf of customers, which are readily settled, and from limited trading in precious metals (coins, loans, forward transactions); the exposure to price risk arises from the marginal share of funds held in the portfolio of “financial assets held for trading”.

For the Parent Company the main sources of exposure to exchange rate risk, recognised on all financial statement items, lie in the equity shareholding in the subsidiary Banca Popolare di Sondrio (SUISSE) - denominated in Swiss francs -, in certain other equities and UCIs in foreign currency, as well as in foreign currency imbalances managed by relevant operating structures. These imbalances stem essentially from intermediation on spot and forward transactions with both customers (households, companies, entities) and on the interbank market, as well as from the implications on foreign exchange positions deriving from the negotiation of other financial products (difference between premiums on currency options, interest on currency deposits, etc.). Excluding securities, the Bank’s role in foreign currency transactions is largely commercial, with a view to meeting customers’ operating needs.

For the subsidiary Factorit, the exposure to exchange rate risk is marginal, given the company's policy of systematically hedging items in foreign currencies: it exists mainly, but for limited volumes, with regard to accrued interest and interest income not offset by interest expense expressed in currencies other than the euro, as well as with regard to guarantees denominated in foreign currencies against transactions in euro. For the Swiss subsidiary Banca Popolare di Sondrio (SUISSE), excluding the positions in securities held on own account, operations in foreign currency are carried out to meet the needs of its customers, except for transitory treasury phases, which would still comply with the prudent limits set internally. The remaining components of the Group have no material exposures, as they have no assets or liabilities denominated in foreign currencies.

Lastly, the exposure to optionality risk derives from the trading of assets with optional elements, including implicit ones; however, it is limited in scope given the substantial back-to-back balancing of derivative transactions carried out on behalf of customers.

The relevant collective Bodies define strategic guidelines regarding the management of financial instruments within the scope of the risk under consideration, taking into account potential impacts on current risk objectives and limits. The Operating Areas then undertake risk by operating in the financial markets and manage the exposure following the guidelines received, and also monitor any operational limit to trading activities.

## MEASUREMENT AND CONTROL SYSTEMS

The Group quantifies its capital requirement on market risk by aggregating individual requirements for each component, as obtained on the basis of the respective national rules. The Parent Company determines accordingly a capital requirement separately for each particular type of market risk, applying the standardised measurement methods envisaged by prudential regulations.

According to supervisory regulations, the following risk types are identified in the market risk category for which, where relevant, the quantification of a Pillar 1 capital requirement is needed:

- with reference to financial assets included in the trading portfolio:
  - *position risk*
  - *concentration risk*
- with reference to the entire financial statements:
  - *settlement risk*
  - *foreign exchange risk*
  - *commodity risk*.

In consideration of this additional type of risk, particular attention is paid to the possibility provided by the standardised approach to calculate capital requirements for *position risk* to offset the positions held in one or more equity securities included in an equity index with one or more positions in futures or other derivatives related to this index, or to offset opposite positions in futures on equity indices that are not however identical in terms of maturity, composition or both.



During 2023, the determination of the alternative standard capital requirement to cover market risks continued, albeit for information purposes only through dedicated COREP reporting, based on the dictates of the FRTB (Fundamental Review of the Trading Book) discipline. This new capital requirement, recognised on a quarterly basis, is equivalent to the sum of the requirements calculated for each of the following three components:

- Sensitivity Based Approach (SBA): a calculation methodology based on sensitivities;
- Default Risk Charge (DRC): a metric that captures issuer risk-Jump-To-Default (JTD) for debt, equity, and derivative instruments that have these instruments as underlying assets;
- Residual Risk Add-On (RRAO): an additional metric that captures residual risks not considered by the previous two components.

From an operational point of view, the daily estimate of the global exposure to market risk (combination of position risks in trading, exchange rate and position in commodities) managed by the offices of the Chief Risk Officer Area of the Parent Company - investigated separately in its components of risk-free interest rate risk, credit spread risk, inflation risk, price risk, commodity risk, optionality risk and exchange rate risk – is based on an internal method for determining the Value at Risk (VaR), applied to the financial instruments subject to measurement in relation to the fluctuations of market variables observed on historical bases. The figure resulting from the statistical model indicates, at both a consolidated and individual level, the estimate of the maximum loss potentially achievable on a portfolio of financial instruments, in a defined period of time and with a pre-established degree of probability.

Similarly to as described in the paragraphs dedicated to “Italian sovereign risk” and “other securities risk” of the banking book, the VaR model adopted in the management measurement processes of exposure to market risks is a historical simulation model. The aggregation of the VaR at portfolio level occurs by taking into account implicit correlations between the various risk profiles covered by the measurement, by virtue of which the overall VaR value is normally lower than the sum of the individual VaRs.

Backtesting is performed on the forecasting results of the statistical model, comparing them with the results achieved in the past. This involves a comparison, on the one hand, between the daily VaR figures and on the other hand, the changes in market value the next day for the same financial positions on which the VaR was calculated (theoretical losses), the change in the hypothetical present value of the instrument/portfolio, calculated using the pricing model applied by the risk exposure calculation tool (theoretical losses from the model) or the change in market value recorded on the following day on the portfolio including the increases or decreases that have taken place (actual losses).

VaR measurements are part of a wider system of internal limits aimed at ensuring an organic and coherent control structure of market risk profiles. In this regard, the Board of Directors of the Parent Company quantifies on an annual basis, within the Risk Appetite Framework (RAF), the maximum level of losses that would be considered tolerable (“Maximum Acceptable Loss”, MAL) for the positions in the trading portfolio and foreign currency transactions foreseen in the period, both on a consolidated and individual level, but only for the Parent Company, in line with the investment policies and with the financial transactions expected to take place over a set horizon (*risk trigger - first level limit*).

The general measure of “Maximum Acceptable Loss” in turn compares with an aggregate corresponding to the sum of the “Effective Cumulative Loss” (ECL), which reflects any negative result of the portfolio management, including both realised

and unrealised losses, and an estimate of the “Maturity VaR” (VaRhp), representing the potential loss that the portfolio could still suffer over a 10-day horizon, quantified using statistical techniques. No specific maximum threshold is set for ECL; however, the metric is taken into account in the dynamic determination of the VaRhp limit (*second level operational limit*): in fact, this is calculated as a percentage of the MAL monitoring threshold less any ECL accrued, to take account - where present - of the negative results already achieved on the portfolio from the beginning of the year. A monitoring threshold is also set to report the approach of the overall risk profile to the identified VaRhp limit.

This second level limit is then split into daily early warning thresholds which can promptly report any increase in the risk associated with portfolio positions (*third level operational limits*). These are specific VaR thresholds on a daily basis, provided for exposure to the individual risk factors underlying the assets aggregates in the portfolio; these thresholds aim in particular to contain the daily exposure to “risk-free interest rate risk”, “credit spread risk”, “inflation risk”, “price risk”, “commodity risk”, “optionality risk” and “exchange rate risk”.

An early warning threshold is also established for the measurement of Maturity VaR estimated under stress conditions (“Stressed VaR”).

The control system also contemplates additional daily risk metrics (so-called sensitivities, which are synthetic parameters that measure the extent of potential changes in the value of financial assets in reaction to smaller changes in the respective risk factors) and monthly (so-called “Stressed Present Value”, which is a measure of the impact on the securities value in the portfolio of an hypothetical stress scenario), calculated by type of instrument and separately for each portfolio to which it belongs.

During the course of the year, a special case of “exchange rate risk” was separated from the scope of measurement of “exchange rate risk”, namely the component of “exchange rate risk of a structural nature” associated with the equity investment in CHF held by the Bank at historical cost in the Swiss subsidiary BPS (SUISSE)<sup>9</sup>, to which a management monitoring framework was dedicated, based on the adoption of two new indicators: the first expresses the sensitivity of the CET1 Ratio to a change in the structural exchange rate (SFX Sensitivity), integrated with second-level (complementary) RAF metrics; the second represents the maximum acceptable loss on structural foreign exchange positions (SFX Maximum Loss), included among the third-level (operational) RAF indicators. Both measures are observed on a daily basis.

If the existing limits are found to be exceeded, from the surveys on the level from time to time reached by all the indicators of exposure to the aforementioned risks, differentiated escalation processes are activated based on the relevance of the violated limit/threshold, in order to achieve the management actions deemed most suitable for risk mitigation.

In support of monitoring processes, adequate internal reporting is prepared, in a timely and performance-oriented manner, to document risk analyses carried out by the Chief Risk Officer Area upon request or with a predefined frequency.

The global VaR calculated on the financial instruments of the trading portfolio is also used for the purpose of quantifying, within the Group’s capital adequacy assessment process (ICAAP), the internal capital intended to hedge the risk in question.

<sup>9</sup> Foreign exchange position recognised as a “foreign exchange position of a structural nature” as it qualifies for treatment under the EBA/GL/2020/09 Guidelines and is subject to specific approval by the competent authority for exemption from the calculation of net open foreign exchange positions when determining capital requirements for foreign exchange risk.



## OPERATIONAL, REPUTATIONAL AND COMPLIANCE RISKS

### DEFINITION

The risks of suffering loss or damage resulting from: a) the inadequacy or malfunction of procedures, human resources and internal systems, or from external events; b) failure to comply with rules and regulations; c) negative impacts on the Group's credibility and image. This category includes the following types of risk:

- *Operational risk*: the risk of suffering losses or damage resulting from the inadequacy or malfunction of procedures, human resources and internal systems, or from the occurrence of external events; this category also includes losses caused by fraud, human error, operational interruptions, system downtime, contractual non-performance and natural catastrophes. This definition includes:
  - *Legal risk*: the risk of incurring losses and/or expenses (at trial, for the services of legal professionals) arising from judicial or extra-judicial proceedings or from the formal deficiency or inadequacy of contractual prospectuses and legal documentation. It may be broken down into:
    - *Legal conduct risk (or conduct risk)*: the risk of losses or other expenses arising from litigation attributable to wilful breach and/or non-compliance with professional obligations, codes and internal rules of conduct for the protection of customers (including proceedings for inappropriate offer of products/services, adoption of intentionally inappropriate or negligent business practices);
    - *Other legal risks*: the risk of losses or other expenses arising from litigation not directly attributable to fraudulent, intentionally inappropriate or negligent conduct towards customers, including proceedings brought by non-customer counterparties (e.g. business counterparties, suppliers), including for legal liability related to climate and environmental impacts;
  - *ICT risk (or security and ICT risk)*: the risk of incurring losses caused by breaches of confidentiality, lack of integrity and/or unavailability of corporate systems and data, as well as by failure to adapt and/or update the technological components of ICT (Information and Communication Technology) systems within reasonable time and at reasonable costs, depending on internal or external factors or changes in business needs. This includes (logical or physical) security risks arising from inadequate or inefficient internal processes as well as from culpable or wilful violations by internal or external actors, including cyber attacks (*cyber risk*). It may be broken down into:
    - *ICT availability and continuity risk*: the risk that the performance and availability of corporate ICT systems will be compromised, including the risk of an inability to restore corporate services in a timely manner following a failure of ICT components (hardware or software);
    - *ICT security risk*: the risk of unauthorised access to the company's ICT systems and data, from inside or outside (e.g. in the case of cyber attacks);
    - *ICT change risk*: risk arising from the inability to manage changes impacting the company's ICT systems, in a timely and controlled manner, with a focus on complex and large change interventions;
    - *ICT data integrity risk*: risk that data stored and processed by corporate ICT systems is incomplete, inaccurate or inconsistent across systems;
    - *ICT third party risk*: the risk that the use of a third party or another Group company for the provision of ICT systems or related services, especially if qualifying as outsourcing, will negatively affect performance and business risk management;
- *Model risk*: the risk of suffering losses, reputational damage or negative consequences on strategic and business decisions related to the development, implementation or improper or incorrect use of models applied internally to estimate risks or for other measurements of financial phenomena, also deriving from their inaccuracy or malfunctioning;
- *Other operational risks*: the risk of incurring losses resulting from operational events that are not attributable to the group of IT, legal and model risks; it includes losses resulting from exogenous events (e.g., physical risk threats) and errors in the conduct of business operations;





- *Compliance risk*: the risk of incurring judicial or administrative sanctions, significant financial losses or damage to the reputation deriving from failure to comply with laws, regulations, self-regulation codes, internal procedures and codes of conduct applicable to the Group's business; the risk of non-compliance with the rules is mainly attributable to the *risk associated with operations with related parties*, i.e. the risk of compromising the objectivity and impartiality of decisions regarding the granting of loans and the disbursement of other transactions with subjects who, by virtue of their proximity to the decision-making centres, can - directly or indirectly - exercise an influence on the management of the Group, as well as of persons connected to them ("connected subjects"), with possible distortions in the process of allocating resources, exposure to risks not adequately measured or monitored, resulting in potential damages for depositors and shareholders;
- *Money laundering and terrorist financing risk (ML/TF risk)*: current or prospective risks arising from the violation of legal, regulatory and self-regulatory provisions designed to prevent the use of the financial system for the purpose of laundering, terrorist financing or weapons of mass destruction development programmes as well as risks of involvement in episodes of laundering and terrorist financing or weapons of mass destruction development programmes;
- *Reputation risk*: the current or prospective risk of a decline in profits or capital resulting from the negative perception of the Group's image by its shareholders, customers, suppliers, counterparties, investors or Authorities.

## Operational risk

### STRATEGY

The operational risk management system is supported by a solid internal risk culture aimed at preventing and/or mitigating risk sources to which business operations are exposed.

To this end, the Group is aware that suffering operating losses could have a negative impact on its financial position and could also seriously affect its reputation. Accordingly, the Group adopts methods to detect, properly assess and measure operational risk and defines specific monitoring and controlling processes with the aim of adopting suitable technical and organisational solutions for preventing and limiting the frequency and the severity of risk occurrence, and thus containing their adverse consequences.

Specifically, the control system aims, on a continuing basis, to operational risk management that responds to the evolving company characteristics through the adoption of quantitative and qualitative procedures, processes and methodologies directed at identifying and monitoring operational risk both on a historical and on a forward-looking basis.

The task of monitoring operational risks tends to create consistent mitigation measures, involving the adaptation of business processes, organisational structures and company systems to the specific needs for mitigating the identified critical issues; if these measures do not allow the risk exposure to be brought back to levels deemed acceptable and/or are deemed to be not very convenient from an economic point of view, the opportunity is assessed to take out specific insurance coverages with the aim of transferring the risk to third parties (for example, against exposure to the risk of operational losses of exogenous origin or of a potentially significant amount).

Strategies for the operational risk governance include the adequate control and containment of risks, including those arising from cyber threats, attributable to the use of information and communication technology (ICT) in support of company operations, by means of:

- the promotion and adoption of appropriate security standards to guarantee availability (including business continuity and disaster recovery plans), confidentiality and integrity of data and technological components, including those made available by external suppliers;



- the continuous strengthening of the flexibility, resilience and agility of information systems, in order to enhance the available ICT resources and technology, and also in response to a context of increasing centrality and innovation of digital channels, as part of a consolidated multi-channel approach to customer services.

## MEASUREMENT AND CONTROL SYSTEMS

For management purposes the Group adopts a monitoring model based on the integrated use of quantitative and qualitative information, which makes it possible to detect operational risk in terms of losses actually suffered, as well as assessing the potential risk, continuously monitoring related exposure and finding the appropriate risk prevention and mitigation measures.

This framework was further strengthened in 2023 through the revision of the methodological framework for analysing the level of materiality of (physical and transitional) climatic and environmental risk factors potentially impacting exposure to operational risk (with the scope of examination extended to include litigation and legal liability risks), as well as by refining, according to a risk-based approach, the process of identifying, addressing and monitoring the progress of actions to mitigate operational risks, which also resulted in revision of the related corporate reporting structure.

Specifically, the operational risk management system envisages:

- a quarterly Loss Data Collection (LDC) process, designed for the accurate detection of internal or external economic events linked to operational risk; particular attention is given to the registration of accounting events related to legal risk (including conduct risk), such as provisions set aside for legal disputes that Group companies can incur and possible revisions (Loss Adjustments), as well as any expenses incurred for external legal activities;
- an Operational Risk Self-Assessment (RSA) process, aimed at estimating on a periodical basis the main operational criticality to which the Group is exposed and at gathering indications from company experts about proposed, activated or implemented interventions for the risk prevention and mitigation;
- an operational risk measuring process for managerial purpose, through the implementation of an internal statistical model aimed at calculating quantitative risk metrics (Operational VaR - OpVaR), adopted also for the determination of the Group's capital adequacy assessment process (ICAAP);
- periodic monitoring activities of the actual and prospective exposure to operational risk and its developments, as well through the enhancement of Key Risk Indicators (KRI) and risk appetite parameters.

Evidences of the above-mentioned processes form the subject of dedicated information flows (reporting) destined for the competent corporate Bodies and Functions, in order to ensure full knowledge and governance, as well as an effective control of risks, including potential ones, to which the Group is exposed, in support of the identification of any operational criticalities / areas of vulnerability (and related triggering factors) as well as the activation of the most appropriate prevention, mitigation and, where possible, transfer of the identified risks.

At Parent Company level, the findings of the aforementioned processes are also brought to the attention, as part of dedicated annual disclosures, of the business functions involved at the forefront of identifying, assessing and mitigating operational risks, in order to spread the risk culture and lead to activities aimed at refining existing management safeguards and/or to actions aimed at mitigating any areas of operational weakness detected.

Information sources derived from the operational risk management system are integrated with evidences from the security and ICT risk management model, constituting the subject of dedicated information flows, both technical/operational and managerial in nature, to support the implementation of suitable interventions to resolve detected vulnerabilities and protect

against the multiple threats weighing on corporate information systems. Specifically, this model is based on dynamic processes of:

- identification of the set of IT resources instrumental to business functions and processes that can be qualified as critical for the performance of the company's business, as well as of ICT threats (risk scenarios) potentially affecting them;
- assessment, including in response to major incidents or major information systems change projects, of the (residual) risk exposure of the company's ICT assets, according to:
  - level of impact (in terms of confidentiality, integrity and availability) on the company's business resulting from the manifestation of ICT threats;
  - level of exposure to ICT threats;
  - level of application and completeness of countermeasures to mitigate the potential risk.

The aforementioned processes, accompanied by structured monitoring of selected management indicators (expanded at the beginning of 2024 with a new risk appetite metric on a supplementary level), help ensure that the IT risk profile assumed complies with the acceptability limits set by the company, while also promoting suitable prevention, mitigation or transfer of any critical issues identified in connection with the use of IT systems and infrastructures.

Albeit with some inevitable adaptations dictated by the different operating and market context, the operational risk management systems defined by the Parent Company are implemented and applied by the subsidiaries, which contribute with specific information flows to understand the degree of operational and IT risk exposure to which the entire Group is subject.

## Compliance risk

### STRATEGY

The Banking Group's policies are traditionally oriented towards a correct and timely compliance with all regulations to which it is subject in carrying out its operations, in any capacity and in any form. This with the primary purposes of ensuring that the conduct of the business maintains a proper balance and keeping over time the good reputation it enjoys with its stakeholders.

On these consolidated bases, the Group acts with the intention of forming and maintaining long-term relationships with its customer base, avoiding actions and behaviours which could be inconsistent with respect to the commercial and risk profiles of customers and/or aimed at achieving high profits in the short term. This contributes to a full compliance with and timely fulfilment of the regulatory provisions applicable to the Parent Company and the other companies belonging to the Group, in both form and substance.

Compliance risk involves all levels of the organisation, especially operating lines; prevention and monitoring must therefore take place primarily where the risk is generated, making necessary adequate training, empowerment and awareness of all personnel, within the framework of a corporate culture based on the basic principles of honesty, fairness and compliance with the rules.

Various organisational aids aimed at managing and mitigating non-compliance risk help in carrying out an organic Compliance Risk Assessment process, aimed at identifying the actual level of compliance of the company processes and procedures with current regulations and an assessment of the adequacy of the existing controls.



## MEASUREMENT AND CONTROL SYSTEMS

The process for managing compliance takes place, on the one hand, through a structured, constantly evolving monitoring of the external normative framework and self-regulation (for example, self-regulatory codes, internal procedures and codes of conduct) and, on the other, through the identification, measurement and control of the compliance risks, according to the provisions of the Group's internal policies.

Compliance risk management is based on the principle of widespread individual responsibility, according to which the carrying out of business activities in line with regulatory provisions should be a personal responsibility of each individual, regardless of its role in the company. Since the risk in question involves all levels of the company organisation, especially within the operational lines, the prevention activities are first of all implemented where the risk is generated, thus making it necessary to make all personnel responsible and aware of the risk and, in this way, spreading a "culture of compliance" throughout the organisation, as an essential element for correct behaviour and a good and healthy company management.

Within the Banking Group the risk of non-compliance with regulations is mainly and in a specialised manner, overseen by specific organisational units operating on the basis of common principles and guidelines, with the aim of mitigating related legal and reputational risks. This is done preventively, on an ongoing basis, by identifying applicable provisions and analysing their impact on company processes and procedures and, after the event, by verifying the effectiveness of any change made to ensure regulatory compliance.

At the Parent Company, in line with the provisions of the supervisory regulations (Bank of Italy Circular No. 285/2013), the Compliance Function oversees non-compliance risk for the whole business, with the exclusion of certain areas of competence of dedicated second level functions/control bodies (e.g. Risk Control Function, Anti-Money Laundering Function, Validation Function, Manager responsible for the preparation of corporate accounting documents and Supervisory Body pursuant to Legislative Decree No. 231/2001).

The Compliance Function operates through a "widespread compliance" model, which is structured as follows:

- for the most important regulations for compliance risk management purposes (known as "core legislations"), such as rules on financial intermediation, the handling of conflicts of interest (activity with related parties/associated persons, interlocking ban, compensation and incentive policies), transparency towards customers and, more generally, consumer protection regulations, the Compliance Function is directly responsible for monitoring non-compliance;
- specialised resources belonging to other business units (known as "Compliance Contacts") with suitable skills and professionalism are entrusted with additional issues for which the Compliance Function maintains direct responsibility, such as ICT compliance and the rules on mortgage loans;
- dedicated company structures ("Specialist Supervision") have a direct responsibility on issues on which, thanks to their skills, they are able to ensure effective management of non-compliance (e.g. areas such as tax legislation or disciplines relating to work and social security, health and safety in the workplace, business continuity).

As part of the compliance risk management process, the following macro-phases are identified, based on the operational and dimensional specificities of each Group company:

- Planning and organisation, mainly implemented through:
  - definition of the organisational and methodological components that permit appropriate management of compliance risk;
  - identification of regulatory perimeters of reference;
  - definition of necessary infrastructure (resources, tools, etc.);
  - definition and approval of business plans.

This last activity requires an assessment of the adequacy of the overall system for managing compliance risk and the planning of any interventions needed to ensure effective management of this type of risk.

- Analysis of the reference regulatory sources, involving the continuous identification of amendments in the reference regulatory framework and the assessment of the possible impact of the applicable regulations on the company's operations: in this phase, the new regulations issued and the amendments of those in force are analysed with reference to the operating perimeter of the function/manager in charge of compliance controls.
- Internal process analysis: internal processes, organisation and procedures are checked from time to time to ensure that they are consistent with the regulations.
- Identification of risks and mitigation actions: following the analyses carried out, specific risks and safeguards aimed at ensuring compliance with the regulations are identified and assessed; the interventions to be implemented in order to overcome the anomalies detected or, in any case, to improve compliance levels are therefore communicated to the structures concerned. Particularly relevant are organisational developments aimed at the overall strengthening of ICT and information security non-compliance risk safeguards.
- Monitoring: the effectiveness of the organisational adjustments (structures, processes, procedures, including operational and commercial procedures) suggested for the prevention of the risk of non-compliance with standards is verified.
- Consultancy and assistance to corporate Bodies and structures: this activity takes the form of: a) preparing adequate information on the risk of non-compliance for the competent corporate Bodies; b) issuing compliance opinions and reviews to the requesting units for the regulatory aspects for which they are responsible: the former as part of the process of issuing/amending internal regulations; the latter relating to the interpretation of matters in which compliance with the regulations is important. The activity also relates to the preliminary assessment of compliance with an applicable regulation on the part of potentially innovative projects (e.g., new products or services, new markets or new types of customers).
- Personnel training: for the prevention and adequate monitoring of compliance risk, specific support is provided to the structures responsible for managing human resources for the organisation of activities aimed at spreading a corporate culture based on the principles of honesty, fairness and respect for the rules.

To ensure adequate compliance risk monitoring within the Group, the Parent Company's Compliance Function provides to the equivalent structures in the subsidiaries with basic guidelines for the controls they have to perform and gets from them periodic reports on the controls carried out, along with the planning of future activities, making sure that they are in line with the directives.

## Money laundering and terrorist financing risks

### STRATEGY

The Group fully and actively collaborates with the Authorities responsible for guaranteeing public safety, so also in preventing and fighting crimes related to money laundering and financing of terrorist activities. It therefore ensures particular attention to the effectiveness of the internal safeguards adopted for the monitoring and control of this type of risk, the mitigation of which helps to maintain the Bank's good reputation, helping to keep operations immune from interference by interests unrelated to its own institutional purposes.



The Group is aware that the laundering of money from illegal activities and the financing of terrorism represent criminal phenomena. By virtue of their possible transnational dimension, they constitute a serious threat to the economy, also because they can have destabilising effects for the banking and financial system, as they are likely to alter the orderly activation of market mechanisms and affect the efficiency and integrity of the transactions that take place there.

The existence of incisive structures for the prevention and control of money laundering and terrorist financing risks constitutes an essential condition for the operators in the banking and financial sector to pursue objectives of sound and prudent management and, in particular, to consolidate a relationship of trust with customers, and hence the reputation. By virtue of this, the Group:

- avoids transactions deemed anomalous in origin, type, frequency and amount, avoiding the establishment and/or maintenance of ongoing relationships that present anomalies;
- in order to calibrate the depth and extent of customer due diligence obligations, adopts suitable procedures aimed at classifying the subjects according to the risks of money laundering and terrorist financing to which they are exposed, applying the broader principle of proportionality referred to in the regulatory provisions, the aim of which is to maximise the effectiveness of company controls and rationalise the use of resources; in this context, it pays particular attention to geographical risk profiles;
- does not allow or enter into relationships or transactions with shell banks that do not boast a physical presence in the country in which they are established and authorised to carry on their business, with branches of foreign banking institutions without a significant organic and managerial structure in the jurisdictions where they are established, nor with their subsidiaries;
- requests information on the purpose and nature of the ongoing relationship with customers and carries out constant monitoring throughout the relationship;
- pays particular attention in evaluating transactions referred to subjects who have received requests for information in the context of criminal investigations and/or for the application of preventive measures.

## MEASUREMENT AND CONTROL SYSTEMS

The Group adopts an operational model to prevent and fight money laundering, terrorist financing and, more generally, the illegal and shadow economy according to a qualitatively structured and calibrated risk-based approach. To this end, subsidiaries are equipped with rules, processes, controls and ICT tools which aim to be reasonably homogeneous at Group level.

Within the Group, tasks assigned to the Anti-Money Laundering Units of the Group companies subject to obligations to combat money laundering and terrorist financing are performed on the basis of two distinct organisational models, designed to take account of the operational and territorial structure of the Group. In particular:

- for specifically identified subsidiaries, whose operations are highly integrated with those of the Parent Company, money laundering and terrorist financing risk management central activities are outsourced to the Anti-Money Laundering Function at the Parent Company, at the same time appointing an internal reference person;
- the other Subsidiaries that have regulatory obligations and the foreign Subsidiaries have established autonomous anti-money laundering units and appointed a manager in charge of each of them.

As regards customer operations due diligence requirements and risk profiling and monitoring, the Group, under the guidance and supervision of the Parent Company's Anti-Money Laundering Function, has developed a system of controls involving various levels and sectors of the company organisation, consisting mainly of:

- procedures for identifying and verifying the identity of customers, through the use of applications dedicated to registering personal data, consultation of checklists and the acquisition, when filling in the anti-money laundering questionnaire, of any other information required by national legislation and supranational and internal provisions on the customer and/or the subjects related to it (beneficial owners, legal representatives, delegates, etc.);
- automatic controls that inhibit the opening of a relationship in case of:
  - belonging to official lists of individuals, entities or organisations subject to restrictive or sanctioning measures by international bodies (e.g., UN, European Union, OFAC), or to other black-lists;
  - a need for activation of specific authorisation cycles for the establishment of business relationships with subjects falling into particular categories (e.g., trust companies, correspondence relationships with extra-EEA banks located in) or who become relevant after checking “external lists” (e.g. Politically Exposed Persons);
- systematic controls on payment transactions initiated by customers (such as, for example, those related to the anomalous use of cash; intense and recurring movement with countries “at risk” as they are subject to embargo or characterised by “non-equivalent” anti-money laundering regimes as identified from authoritative sources such as FATF, EU, etc.);
- assignment of a money-laundering risk profile to customers, leading to periodic verifications with frequency and intensity proportional to the degree of risk assigned;
- continuous monitoring of customers’ operations, through the analysis of atypical or unusual operating situations, highlighted by specific procedures;
- diagnostic checks on the quality and reliability of the feed and recording systems in specific standardised archives.

With reference to additional controls on “embargoes”, incoming and outgoing customer payment orders are subject to automated controls over the country of origin/destination of the funds, the names of the counterparties (originator, beneficiary) and the intermediary banks involved in each transaction to see if they are included on any black list. Wide-ranging controls are also carried out on subjects belonging to sectors considered “critical” as they are perceived to be vulnerable to money laundering and terrorist promotion activities.

The evolutions underway in the entire chain of controls - both first and second level - with the introduction of a new control system based on predictive logic through the use of AI (Artificial Intelligence) and ML (Machine Learning) technologies, are of particular note.

In fulfilling the reporting obligations of suspected money laundering and terrorist financing operations envisaged by law, the Group adopts specific processes and procedures for detecting anomalous operations and the fulfilment of communication obligations to competent Authorities, protecting the confidentiality of employees and collaborators taking part in it. The evaluation and transmission procedure as well as the main contents of suspicious activity reports are defined in specific internal regulations.

In all the contexts described above, the Anti-Money Laundering Function set up at the Parent Company periodically monitors the degree of exposure to risks and the suitability of the controls in place within the Banking Group, which can be estimated:

- in qualitative terms, through a self-assessment of the perceived residual risks, taking into account the intensity and effectiveness of the controls introduced;
- in quantitative terms, based on the analysis of the quantitative results of risk indicators and of the efficiency of control processes.



The self-assessment of exposure to the risks of money laundering and terrorist financing is conducted at Group level, in compliance with the criteria and methodologies established by law by the Bank of Italy. The exercise is carried out by each Group company under the coordination of the Parent Company; its results, which are updated internally on a half-yearly basis, are presented annually to the Parent Company's Board of Directors; they are also checked for consistency with the risk propensity parameters set in the Risk Appetite Framework (RAF).

## Reputational risk

### STRATEGY

The Group pursues a reputational risk management strategy based on maintaining a low risk profile, as a natural expression of its traditional corporate culture inspired by principles such as:

- establishing and maintaining clear and fair relations based on mutual respect with customers, shareholders and the various stakeholders and external interlocutors, according to direct, comprehensive and transparent communications;
- offering products and services with high quality standards and easy to understand - particularly in terms of assessing the associated risks - with a view to satisfying customer needs while remaining in line with the risk profile;
- enhancing human resources through an effective selection, training and professional development and the sharing of rules of conduct and ethics (e.g. Code of Ethics, Code of Conduct) based on formal and substantial compliance with the rules and their timely application, with a view to legislative compliance and effective collaboration with Supervisory Authorities;
- implementing initiatives aimed at promoting the naturalistic, historical, cultural and artistic heritage of local communities and reference territories where the Bank is present, including, at the Parent Company, the publication of a quarterly "Newsletter" and annual series of conferences held by illustrious cultural and entrepreneurial personalities.

The Group's guidance is achieved through the implementation of policies aimed at preventing the occurrence of risk manifestations which could be potentially detrimental to the reputation and, in the event that they materialise, to limit their effects as much as possible by means of a proactive management of the Group's image or the containment of exposure to the primary risks from which reputational typically derives.

### MEASUREMENT AND CONTROL SYSTEMS

The Group uses an eminently qualitative reputational risk management model which provides for the identification of risks that are potentially detrimental to the corporate image and the assessment of potential exposure in the future, according to a methodological approach based on self-assessment techniques applied to specific risk scenarios.

Attention is also paid to indirect impacts on the reputation that risk events could have by monitoring complaints, claims and out-of-court appeals received from customers, on the one hand, and analysing key news published by mass media or on the web, on the other, in order to gather useful and updated information on the level of reputation enjoyed and ideas for constantly improve the services offered.

The reputational risk scenarios identified are subjected to a self-assessment process (Reputational Risk Self-Assessment) conducted involving business experts and specialist supervision functions responsible for preventing and/or managing those types of risk from which reputational effects typically derive; this in order to investigate potential negative impacts on the perception of the Group's image with reference to the various interlocutors and stakeholders, to identify any appropriate intervention aimed at preventing and/or mitigating critical issues found and prepare regular information to the competent Bodies and structures.





In accordance with the plan of actions defined to meet the expectations promoted in the area of climate and environmental risks at the EU level, in 2023 a dedicated project was completed to enrich the catalogue of Key Risk Indicators of potential reputational issues attributable to non-compliance or apparent non-compliance with ESG requirements, useful in identifying: the perception of the various corporate stakeholders of the level of sensitivity of the Group to ESG objectives, the ratings assigned by external institutions in the field of sustainability (including for the purpose of comparison with comparable intermediaries) and reputation events with significant media resonance.

During the year, a dedicated analytical approach was also developed for analysing the level of materiality of climate and environmental risk factors (transition risk) potentially impacting exposure to reputational risk, in terms of image damage caused by entertaining relations with “controversial” credit and supplier counterparties due to adverse impacts generated on the climate and environment.

Among other instruments in place to monitor this type of risk, it is remarkable how the Group deems it appropriate to carry on periodic customer satisfaction surveys on operating segments of particular interest (e.g. treasury and cash services) in order to draw signals on the image perceived externally as well as important indications on the quality of the services provided.

More generally, the conduct of current affairs in compliance with ethical principles of correctness, transparency, integrity and professionalism, as well as the punctual observance of codes of conduct, regulations and laws is a fundamental “form of protection” against the assumption of risks connected to implementation of unlawful conduct by internal personnel, thus preventing and/or mitigating the consequent impacts on the corporate reputation. Among them, specific attention is traditionally paid to overseeing risks related to fraudulent behaviour aimed at corruption and personal gain through a constant surveillance of operations, aimed at identifying illicit conduct and improper business practices on a timely basis.

As already mentioned in the paragraph above, the Group is also committed to comply with the regulations on money laundering and terrorist financing, with special attention to transactions with countries subject to restrictions or operating in controversial sectors, and to the negative impact these could have, especially on corporate image.

The “Organisation, Management and Control Model”, which is designed to prevent risks of committing the offences contemplated by Legislative Decree 231 of 8 July 2001, also contributes significantly to maintain a solid reputation. For a concrete implementation of the 231 Model the monitoring ensured by the Supervisory Body, established both at Banca Popolare di Sondrio and at the national subsidiaries subject to this requirement with the role of supervising the functioning and observance of the Model, is fundamental.

Again with a view to mitigating reputational risks, Banca Popolare di Sondrio has for some time now adopted, pursuant to the aforementioned Legislative Decree 231/2001, a Code of Ethics, which contains a set of principles, rules of conduct, rights, duties and responsibilities that must guide the company’s activities. The Code is applied to all internal and external persons with whom the Bank enters into a relationship for the achievement of its corporate purpose which are interlocutors who can determine and, at the same time, judge, its reputation. Behavioural principles and standards set out in the Code are also extended to the other Group companies and adopted by them in their system of internal rules.



## INTEREST RATE AND CREDIT SPREAD RISKS

### DEFINITION

*Interest rate risk in the banking book (IRRBB)* is the risk that the Group's economic value might decrease as a consequence of a decline in assets value and/or an increase in liabilities value not belonging to the trading portfolio for supervisory purposes following adverse changes in the interest rates levels (economic value perspective), as well as the risk that interest rate movements might have a negative impact on present and future profitability deriving from banking book assets and liabilities that generate the Group's net interest income (earnings perspective). The following cases are included in this general category:

- *Gap risk*: the risk of incurring losses in income or decreases in economic value due to unexpected fluctuations in interest rates that occur uniformly along the yield curve ("parallel risk") or in a different way on the term structure ("non-parallel risk"), deriving from differences in maturities (for fixed rate items and, with regard to the spread component only, for variable rate items) and the time lag at the moment of the rate revision (only for the variable component that characterises floating rate items) between assets and liabilities and off-balance sheet items;
- *Basis risk*: the risk of incurring losses in income or decreases in economic value on banking book positions due to an imperfect correlation between the adjustments of the interest rate paid and charged on different items which may also have similar repricing characteristics. This risk occurs with changes in interest rates that have different residual maturities (tenor basis risk), changes in interest rates with identical residual maturities but which are linked to different currencies (currency basis risk), changes in interest rates with identical residual maturity and relative currency but with different recognition methods (indexation basis risk), changes in interest rates with residual maturity, currency and identification methods identical but different in their nature (related rate basis risk);
- *Option risk*: the risk of suffering losses in income or decreases in economic value deriving from the exercise of options implicitly (behavioural option risk) or explicitly (automatic option risk) applied to certain banking book items.

*Credit spread risk in the banking book (CSRBB)* takes the form of the risk of suffering losses due to reductions in the economic value of bond assets not belonging to the trading book for supervisory purposes as a result of adverse changes in the level of credit spreads, i.e. the risk that movements in credit spreads may adversely affect the future profitability of bond assets in the banking book that contribute to the generation of net interest income.

### STRATEGY

In carrying on its core business, the Group assumes the risk that unexpected changes in interest rates will have negative effects on its financial situation. This type of risk affects all assets, liabilities and off-balance sheet positions deriving from commercial operations and strategic investment choices (banking book).

To limit exposure and from the point of view of the financial structure, the Group promotes a balanced development of loans and deposits, especially through the matching of asset and liability aggregates with homogeneous financial characteristics. This balance is generally pursued by containing the differences between the maturities and the time lags in the instants of the rate review between assets, liabilities and off-balance sheet instruments. In ensuring this balance, the Group does not rely solely on the contractual characteristics of financial transactions, but also considers the impacts of exercising options implicitly or explicitly present in certain banking book items.

Starting in 2022, the Parent Company also launched initiatives to hedge the interest rate risk arising from the disbursement of fixed-rate mortgages (so-called Macro Fair Value Hedging) through the signing with market counterparties of dedicated Interest Rate Swap contracts with specific characteristics of duration, amount and rate aligned to the pools of loans being hedged.

In order to allow effective management of interest rate risk, the Group adopts systems, methods and tools aimed at identifying, assessing and managing the risks deriving from potential changes in the level of market rates, aimed at favouring an integrated vision of the assets and liabilities sensitive to changes in reference rates, thus making it possible to establish, in a forward-looking perspective, adequate development strategies, as well as, in the event of deviation from the established risk appetite, to promptly identify the most appropriate mitigating interventions. The preparation of a specific “Interest Rate Risk Management Plan”, a policy document for managing, monitoring and, if necessary, mitigating risk exposure through a set of potential and alternative actions to be implemented in the event of exceeding established limits, contributed to the strengthening of the mitigation and control measures.

With reference to the Parent Company’s banking book, the principal sources of fair value interest rate risk are funding transactions (especially demand deposits, treated with appropriate behavioural modelling of their maturities) and fixed-rate lending (principally long-term loans and fixed-rate securities); the cash flow interest rate risk is also originated by other sight or indexed rate assets and liabilities.

At the subsidiary Banca Popolare di Sondrio (SUISSE), the main source of interest rate risk is represented by fixed-rate lending transactions (mortgages), maturity funding transactions from banks and on-demand funding transactions from customers with appropriate maturity modelling.

For Factorit the risk is originated by the different timing and methods used in repricing the interest rate of its assets and liabilities. The presence of diversified fluctuations in rates leads to a variation in the expected net interest income, as well as a change in assets and liabilities present value; this in turn alters the net economic value of the items at risk. The characteristics of the financial statements structure of the investee also contained the impact of movements in market rates on corporate assets and liabilities current value marginal. The high turnover of advances granted in the context of factoring loans and receivables and the fact that the funding is exclusively short-term, which ensure a frequent repricing of operations, make it possible to maintain lending and funding terms broadly in line with current market conditions.

For BNT Banca, there are exposures to interest rate risk linked to operations of lending to customers and, albeit limited to investment in fixed-yield securities, partially offset by fixed-term funding, mainly at the Parent Company.

The subsidiary Sinergia Seconda does not have any exposure to interest rate risk, while Popso Covered Bond, which is consolidated on a synthetic basis with the Parent Company financial statements, does contribute to the exposures of Banca Popolare di Sondrio, albeit only minimally.

The Group also assumes the risk that unexpected changes in credit spreads will have an adverse effect on its financial position, through impacts on the economic value or future profitability of the bond assets in the banking book that contribute to the generation of net interest income.

In order to enable effective credit spread risk management, the Group has systems, methods and tools in place to identify, assess and manage risks arising from potential changes in the level of credit spreads.

The main sources of credit spread risk are the debt securities held in the banking book of the Parent Company; similar positions held by the subsidiaries Banca Popolare di Sondrio (SUISSE) and BNT Banca also contribute.



## MEASUREMENT AND CONTROL SYSTEMS

The control of exposures to interest rate risk (IRRBB) takes place through an articulated Asset & Liability Management (ALM) system. The system, governed by the Parent Company's CRO Area, allows risk exposure to be measured through two fundamental approaches:

- economic value perspective (equity sensitivity): this identifies the risk generated by different repricing methods and/or the misalignment of maturities between assets and liabilities in the banking book over a long-term time horizon ("fair value" interest rate risk);
- margin approach and current earnings outlook (sensitivity of net interest income and net income): interest rate risk is assessed on the basis of the sensitivity of net interest income and net income generated by assets and liabilities in the banking book to changes in market rates over the short to medium term ("cash flow" interest rate risk).

Under the first approach, monthly equity sensitivity analyses are conducted, assuming inertial volumes. The second approach takes the form of sensitivity analyses of net interest income and profit, with simulations carried out under the assumption of constant volumes. The profit sensitivity analysis integrates the results of the margin sensitivity analyses, applied to the assets and liabilities in the perimeter, with those of equity sensitivity obtained on a specific portion of company operations measured at fair value.

The first methodology is used to determine expected cash flows (both principal and interest) generated by each asset and liability held in the banking book. This method uses, where necessary, the coupon rate applied to each instrument or, if not predetermined, the market curve associated with the risk factor to which the rate is indexed; present values of assets and liabilities are therefore calculated by summing their cash flows as discounted using the yield curves.

Movements (shocks) of the reference curves are then simulated, corresponding to the instantaneous rate movement scenarios established by the European Banking Authority (EBA) guidelines and the Regulatory Technical Standards, in addition to two hypothetical rate movement scenarios that capture future market expectations and specific, particularly adverse situations that have occurred in the past. The flows of interest and principal, as redetermined on the basis of the assumed modified curves, are discounted with reference to the new rate curves to obtain the "Modified present value" of each asset and liability<sup>10</sup>.

Then, for each operation falling within the scope of risk measurement, the change in present value is calculated as the difference between the "modified present value" and the "non-modified present value". The model thus enables estimation of the sensitivity of the banking book in terms of the change in the economic value of equity to an increase or decrease in market rates.

In addition, sight deposits which are very stable in terms of volumes and whose interest rates are not usually established by contract, are represented through "behavioural models" aimed at capturing the time persistence of the volumes - which, however, with regard to liabilities and separately for each currency, cannot have an average repricing date of more than 5 years - and their financial elasticity with respect to changes in market rates. The parameters constituting these models are re-evaluated at least on an annual basis.

A further portion of modelled transactions relates to certain types of loans granted by the Parent Company, in consideration of the fact that in these loan agreements the borrower has an option to repay the loan earlier than the contractual maturity

<sup>10</sup> In the event of an increase in the rate curve, no non-negative constraint is imposed. In the event of a negative variation in the levels of the market curves, a minimum value (floor) is applied to the shocked curve: this is applied only if the value of the rate recorded on the date of analysis is higher than the floor itself; vice versa, if the value recorded is lower, no further shock is applied.

date, as well as an option to renegotiate the type of interest rate applicable (from fixed to variable or vice versa) or the level of rate/spread/cap/floor, which may be exercised at any time at the borrower's discretion. The adoption of specific behavioural modelling, whose parameters are subject to re-estimation at least every two years, makes it possible to better understand said phenomena, globally known as "pre-payment".

Specific methodological treatments are reserved for: a) securities indexed to Italian inflation (BTP Italia) and European inflation (BTP €i), for which the principal and interest flows are considered, including the related revaluation component; b) Banca Popolare di Sondrio credit exposures classified as non-performing and likely to default, already included in the measurements provided for at regulatory level, but also considered in those of a managerial nature with a value net of write-downs and with estimated financial characteristics. The scope of recognition for both managerial and regulatory purposes is also integrated with the expected use of irrevocable fixed-rate credit lines and the related hypothetical funding component.

The exposure measured through equity sensitivity analyses, determined under inertial conditions, enables quantification of an overall risk indicator, calculated as total Tier 1 capital in proportion to the decrease, expressed in absolute terms, in the economic value of equity (EVE) that results with respect to the current rate scenario in the most unfavourable of the six "Supervisory shocks" established by the EBA; the "Supervisory Outlier Test" metric required by the sector guidelines published by the European Banking Authority is also calculated on a quarterly basis.

The foregoing analyses are supplemented by the results of sensitivity analyses of margin and profit, used to measure the sensitivity of profit in its components of net interest income (NII Narrow metrics) and of change in economic value of debt instruments held in the banking book (Market Value Change metrics), assuming the occurrence of the same market rate curve shocks mentioned above.

The metrics of the former type are obtained from the difference between the net interest income generated by the individual asset or liability under shocked market rate curves and that generated under the current market rate condition.

Ideally the banking book, composed of asset and liability items generating the net interest income, can be divided into areas of operations partially and totally sensitive to changes in interest rates. The first type, consisting mainly of fixed-rate transactions, is neutral in determining the sensitivity of the margin up to the natural maturity of the transaction, but is impacted at the time of renewal since it refers to a coupon rate that includes the risk-free market component, subject to change, and the risk premium associated with the original transaction, which is kept constant. The second, represented by floating-rate transactions, is conditioned by the change in interest rates during the coupon rate review period.

Adding up the differential between the net interest income generated by the individual asset or liability item in application of the shocked market rate curves and that generated in the current market rate condition for all the transactions within the material scope of the banking book, separately for assets and liabilities, yields the overall value of the sensitivity of net interest income to the risk of market rate fluctuations, understood as the differential between the change obtained on the total asset items and that generated on the total liability items. This value is known as the Net Interest Income Narrow (NII Narrow) delta.

In the current earnings perspective, changes in the market value, obtained from the "margin" approach, are added to the changes in the market value, obtained from the "value" approach, of instruments which, depending on the accounting



treatment, are reflected either in the income statement or in the balance sheet (securities classified in the accounting categories “fair value through other comprehensive income” (FVOCI) and “fair value through profit or loss mandatory” (FVTPLM)). This value is known as the Net Interest Income Wider (NII Wider) delta.

The global exposure measured through the method described above, determined by simulating the six aforementioned rate movement scenarios under the assumption of constant volumes, enables quantification of an overall risk indicator, calculated by as total Tier 1 capital in proportion to the decrease, expressed in absolute terms, of the profitability (Net Interest Income Wider) that results with respect to the current rate scenario in the most unfavourable of the six “Supervisory shocks” established by the EBA; the “Supervisory Outlier Test” metric provided for by the sector guidelines published by the European Banking Authority is also calculated on a quarterly basis.

The Bank quantifies additional risk indicators, calculated from both an economic value perspective and a current earnings perspective, to further investigate the components of the aforementioned indicators in the two parallel scenarios counted among the six “Supervisory shocks” and to quantify the exposure in the risk scenario based on the expectation of future developments in risk-free rates.

Interest rate risk governance strategies envisage that, as part of the annual stress testing on the main equity, income and financial variables carried out within the ICAAP framework, simulations are carried out, depending on volume and scenario assumptions, to determine: a) the impacts on capital absorption; and b) the effects on the performance of net interest income, referred overall to the items of the banking book and the trading book.

In support of interest rate risk monitoring and management processes, specific internal information is prepared in a timely and performance-oriented manner, which is capable of documenting the analyses and measurements carried out to competent bodies and functions, upon request and/or with a predefined frequency. Monitoring is carried out on a monthly basis.

The subsidiaries control the interest rate risk on a company basis through the use of monitoring techniques that are commensurate with the operations carried out and, as far as possible, the same as those used by the Parent Company.

The quantification and monitoring of exposure to credit spread risk (CSRBB) is based on a dedicated framework that bears many similarities to what has been described with respect to interest rate risk processes; however, the scope of the calculation is currently focused on the bond assets of the banking book.

In particular, the Asset and Liability Management (ALM) system adopted at the Parent Company allows for the development of measures of:

- sensitivity of economic value (the “value” approach or economic value perspective)
  - sensitivity of net interest income (the “margin” approach or current earnings perspective)
- to fluctuations in credit spreads.

The aforementioned approaches serve to quantify, respectively, “fair value” credit spread risk and “cash flow” credit spread risk by calculating specific summary indicators of risk exposure levels.

In the former approach, one first determines the principal and interest cash flows from operations and then calculates the present values by algebraically summing the discounted cash flows according to the composite curves obtained by joining the spread curves to the yield curves (risk-free rates). One then simulates parallel movements (shocks) of the reference curves representative of upward and downward credit spread evolution scenarios devised by the Bank on the basis of an analysis of historical credit spread changes. The interest and principal flows are discounted according to the new discount curves, thus obtaining the measure of the “modified present value” of the security. The change in “present value” is then calculated on each individual transaction as the differential between the “modified present value” and “present value”. Sensitivity in terms of the change in economic value in response to an increase or decrease in credit spreads is thus obtained by summing the changes in “present value” obtained for all bond assets in the banking book.

In the latter approach (margin analysis), a methodology is applied to measure, assuming the same parallel spread curve shocks, the sensitivity of net interest income to the total bond assets in the banking book that contribute to the generation of net interest income.

The difference between the net interest income generated by the individual bond obtained following the application of shocked market curves, and the one generated under current market conditions, determines the marginal contribution to the overall sensitivity.

Summing this differential for all transactions yields the determination, according to the “margin” approach, of the overall value of the sensitivity of net interest income to the risk of fluctuating credit spreads. This measure is known as the Net Interest Income Narrow (NII Narrow) delta. On the basis of the risk exposure results obtained through the “value” approach, the “EVE indicator” is calculated on a monthly basis. It is calculated by comparing the decrease, expressed in absolute terms, in the economic value of the bond assets to the total Tier 1 capital, which is obtained in comparison to the current market scenario in the scenario of the most unfavourable credit spread between the two simulated.

Combining the aforementioned results with those obtained in the margin approach, the “NII Wider indicator” is also calculated. This metric is obtained by comparing the total Tier 1 capital to the potential negative effect (in absolute value) given by the sum of the reduction in net interest income and the impact on the market value of securities, resulting from the worst-case scenario of the two simulated scenarios compared to the current market scenario. The calculation is made over a period of 12 months from the reference date and assuming constant volumes.



## LIQUIDITY RISK

### DEFINITION

The risk of not being able to fulfil payment commitments at maturity and/or to refinance the on-balance sheet commitments with the necessary timeliness and according to economic criteria, due to the inability to raise funding sources in the market or to dispose the Bank's own assets.

This category includes the following sub-types of risk:

- *Funding Liquidity risk*: the risk arising from the inability to raise funds or to obtain funds at reasonable cost. It can in turn be divided into:
  - *Mismatch Liquidity risk*: risk generated by the misalignment between the amounts and/or the timing of the inflows and outflows;
    - *Contingency Liquidity risk*: risk that unexpected future events may require a greater amount of liquidity than expected on the basis of the operations known to date; the following fall into this case: a) *Margin Calls Liquidity risk*, referring to situations in which the Group is contractually obliged to integrate guarantees and/or margins to cover risk positions in financial instruments; b) *Wholesale Funding risk*, which is the risk of a massive withdrawal of deposits by subjects other than households; c) *Retail Funding risk*, which is the risk of massive withdrawal of deposits by households; d) *Off Balance Sheet Liquidity risk*, which is the risk of massive drawing on credit lines not currently used; e) *Risk of non-repayment of the loans granted*;
  - *Intraday Liquidity risk*: risk of non-fulfilment of intraday payment commitments due to the inability or impossibility to have the necessary liquidity resources in the working day in which they are requested;
  - *Asset Encumbrance risk*: risk related to a shortage of assets that can easily be turned into cash through disposal, sale with a repurchase agreement, assignment as collateral or securitisation; depending on the nature of the encumbered assets, the risk may refer only to the financial instruments in the portfolio (Financial Asset Encumbrance risk) or to the complex of financial and non-financial assets (Total Asset Encumbrance risk);
  - *Funding Concentration risk*: risk related to a shortage of funding sources because of their low level of diversification, due to a greater probability that the source currently in use will become partially or totally unavailable;
  - *Funding Cost risk*: risk of incurring in a funding cost significantly higher than the corresponding market price by maturity and currency; in turn, it derives from the risk of misalignment of cash flows, as well as from the risk associated with the portion of encumbered assets and from the risk of deposit concentration;
  - *Intra-group Liquidity risk*: risk deriving from the existence of restrictions on the transfer of funds and liquid assets within the Group;
- *Market Liquidity risk*: the risk deriving from the fact that it is impossible to dispose of or reduce a risk position without significantly affecting its price, as the market is inefficient or malfunctioning; it increases in case of concentration of issuers of assets in the portfolio.



## STRATEGY

The Group adopts a strategy for managing liquidity risk which is characterised by a moderate risk appetite, expressed through:

- the rejection of speculative or otherwise excessively risky operations that could affect the Group profitability and stability;
- the execution of prudent investments to enable the risk control framework to progressively evolve towards ever higher levels of reliability and efficiency.

In particular, the Group pursues a prudent liquidity profile by:

- promoting policies for growth in loans and investment in financial assets commensurate with the actual funding inputs and the diversification of funding sources, capable of ensuring a stable trend of short and long-term liquidity measures;
- holding top quality reserves that can easily be turned into cash, represented to a large extent by sovereign securities, and can guarantee a high capacity to refinance with central counterparties in order to cope with any liquidity crises;
- the keeping of a structural liquidity position supported by a stable and diversified funding base.

In the context of the Group, the Parent Company acts as the preferential counterparty for the Subsidiaries, both to obtain new funds and to invest any excess liquidity.

## MEASUREMENT AND CONTROL SYSTEMS

With regard to liquidity risk management and measurement, the Group relies on internal systems for monitoring its liquidity positions over various time horizons, as well as for controlling and mitigating related risks; overall, the process is aimed at verifying the Group's ability to manage inflows and outflows effectively, both in business-as-usual and in stressed scenarios, by estimating the liquidity needs at a consolidated level as well as for the single entities of the Group.

The risk management system is based on a number of controls carried out at different organisational levels. A first level of control is performed by the business functions involved in liquidity management, in order to ascertain by themselves that they carry out their duties properly and provide summary reports on business operations on a daily basis.

This control is accompanied by a systematic monitoring of the expected liquidity position carried out by the Chief Risk Officer Area of the Parent Company, based on gathering data on the activities of the Parent Company and the subsidiaries. The governing bodies are duly informed and verify the Group's liquidity situation and, if necessary, intervene appropriately.

The monitoring activity concerns, in a different way, both the operational (or short-term) liquidity position and the structural (or medium-long term) liquidity profile. The Bank's intraday liquidity position is also monitored constantly.

The control of short-term liquidity requirements is aimed at verifying the Group's ability to meet its cash payment obligations, without compromising the performance of normal operations; its purpose is therefore to bring the Group's monetary dynamics back into balance, also in terms of cost-effectiveness, as quickly as possible.



Operational liquidity is monitored by means of the daily recognition of cash flows typical of treasury and assimilated operations, of the potential liquidity flows obtainable from the disposal of the financial assets held in portfolio or from their utilisation in refinancing operations and the cash available on the Group's accounts at the Central Banks.

This information is used to quantify daily total net liquidity over a 12-month time horizon, by preparing an operational Maturity Ladder of cash inflows, cash outflows and reserves of available liquidity. The recognition of liquidity imbalances is produced daily for the benefit of the operating units involved in treasury management; at the same time, statements representing the liquidity situation of the main Group components are regularly prepared. Standard reports that focus in particular on the first quarter of the forecast horizon are sent to the Supervisory Authority on a weekly basis, with details regarding the entire Group.

The monitoring of the operational liquidity profile also provides for the determination of predefined risk indicators ("contingency indicators"), assigned to promptly detect any sign of systemic or specific crisis, which is associated with the monitoring of specific surveillance thresholds. The impact of predefined scenario and sensitivity assumptions with respect to the results obtained from the monitoring activity is also estimated. This stress test programme consists of idiosyncratic, systemic hypotheses, assuming diverse scenarios, in some cases proposed in combination, such as possible reputational or political crises and adverse events resulting from climate and environmental change. The outcomes of the stress tests conducted are also used to establish the limits of specific contingency indicators, as well as to define remedial actions that could potentially be implemented in any stress situation. The Group is equipped with a specific liquidity risk emergency plan ("Contingency Funding Plan"), which is updated annually, with the aim of safeguarding the solvency, financial stability and business continuity of its components.

As for medium-long term liquidity, the main monitoring tool is the so-called "structural Maturity Ladder", a cash flow schedule that includes all funding and lending operations, as well as the amounts of financial instruments in portfolio, due to mature from the date of the report and without any limit on time. A consolidated monthly version of this report is also produced, along with individual versions on the main components of the Banking Group.

The control is enriched by the calculation of specific structural risk indicators on a monthly basis, which aim to highlight potential warning signals relating to the situation of structural liquidity and the composition of the Group's deposits.

According to the guidelines of the Basel Committee on Banking Supervision, the monitoring of intraday liquidity performance is carried out through a system of real-time controls over how corporate liquidity is used, including the measurement of indicators regarding cash reserves available at the beginning of each working day and the coverage rate of payments made by 9:00 a.m. (subject to specific internal limit) as well as the amount and the time sequence of payments throughout a day. Special synthetic metrics are also quantified monthly, which are subjected to the same stress tests used on the operating liquidity position adding a peculiar scenario for the intraday liquidity position.

The results of the operational monitoring are accompanied by the recognition of specific ratios calculated in accordance with supervisory instructions: in particular, the LCR (Liquidity Coverage Ratio) and NSFR (Net Stable Funding Ratio) parameters. These indicators, which are subject to specific supervisory reports, are calculated on a monthly and quarterly basis respectively. With equal frequency, the two metrics are also quantified under stress test applying the same hypotheses used for simulations of the operational liquidity indicators. The LCR indicator is also processed on an infra-monthly basis for ongoing monitoring management needs and to fulfil specific requests from the Supervisory Authority.

The so-called “Additional Liquidity Monitoring Metrics” provided for by the EU regulations are also reported to the Supervisory Authority on a monthly basis, with the aim of monitoring the maturity imbalances between assets and liabilities, concentration of funding, cash reserves or readily marketable assets (so-called “Counterbalancing Capacity”), as well as the cost of funding and the Group’s capacity for funding renewal.

As explained above, the results of liquidity risk monitoring are made available to competent bodies and organisational units through appropriate reports; the ALM and Investment Committee is particularly important in this context, as, among others, it analyses the trend in exposure to financial risks at least quarterly. The Committee is then updated monthly on the evolution of the risk position through dedicated reports including all key results of the measurements carried out.

Specific reports concerning the Group’s liquidity situation are also sent to the Supervisory Bodies to meet specific information requests.

On an annual basis, the Group submits to the Supervisory Authority the key results of the internal verification process on the adequacy of the liquidity position and related exposure to risk (ILAAP, Internal Liquidity Adequacy Assessment Process), accompanied by the founding elements of the latter. The figures communicated through this reporting, together with all the other liquidity risk exposure data provided over time, constitute a fundamental assessment basis for the purposes of SREP (Supervisory Review and Evaluation Process) for the Supervisory Authority.

As part of the ILAAP, the Parent Company’s Board of Directors, in its strategic and supervisory functions, oversees the adequacy - under ordinary and stressed conditions - of risk levels assumed in the present and in the future, based on the Group’s forecast business developments, checking the suitability of the monitoring framework and the liquidity risk management measures and their consistency with corporate strategies. The ILAAP assessment has been carried out in March 2024 with reference to the end of 2023.

Subsidiaries control liquidity risk exposure on an individual basis by using monitoring tools and methods commensurate with their operations and, as far as possible, the same as those of the Parent Company; with regard to Banca Popolare di Sondrio (SUISSE), they also comply with the provisions of the Swiss Supervisory Authority.

## STRATEGIC AND BUSINESS RISK

### DEFINITION

Current or prospective risk of declines in profits or capital deriving from changes in the operating context or from incorrect strategic decisions, inadequate implementation or updating of strategic and management guidelines, poor reactivity to changes in the competitive scenario.

This category includes the following sub-types of risk:

- *Strategic risk*: the risk that the Group’s decisions and guidance regarding competitive/strategic positioning will not have the expected results, penalising the achievement of medium/long-term economic and financial objectives;
- *Risks associated with equity investments*: risk of suffering losses in value with respect to the portfolio of equity investments other than those held for trading purposes; this concerns in particular equity holdings characterised by stability and a long-term investment rationale, outside the Group’s perimeter, not already considered within the scope of other securities



risk (banking book); this can occur due to the possibility of incurring losses deriving from the fluctuation in the value of the shares or units held in relation to the economic prospects of the company in which the investment is held, or as a result of the insolvency of the company itself, or due to an excessive immobilisation of assets or a change in the Group's financial and equity structure following a significant acquisition, or lastly, due to the occurrence of potential conflicts of interest between the investment activity in equity investments and the other activities carried out, and lending in particular;

- *Business risk*: the risk associated with the uncertainty of economic results not caused by other types of risk but mainly deriving from changes in the competitive context, in the economic conditions of the activity carried out or in customer behaviours;
- *Real estate risk*: the risk of incurring in losses caused by unexpected changes in the value of the Group's property portfolio.

## STRATEGY

The Group bases its strategic and business risk management model on mitigation policies and arrangements having both medium and short-term horizons. These are pursued by establishing clear principles and lines of conduct relating, in particular, to the regulation of processes and the activities through which the strategic, financial and capital planning and the related formation of commercial budgets are defined/updated and subsequently monitored during the implementation.

In compliance with regulatory provisions on equity interests held by banks and banking groups, the strategy for managing risks associated with the acquisition of equity investments by BPS Group aims, in general, at:

- defining rules and deliberative procedures aimed at ensuring the substantial and procedural suitability of these transactions, in compliance with the reference standards;
- ensuring compliance with the quantitative limits on equity investments, especially to those in non-financial companies;
- defining organisational and governance structures capable of preventing conflicts of interest and which can guarantee, on the one hand, that shareholding decisions are not conditioned by existing lending relationships and, on the other, that business relationships with investees are based on objective criteria and meet market conditions.

The equity investments held by the Group essentially relate to companies that supply goods and services which complete the commercial offer and, therefore, are necessary for the achievement and maintenance of an effective competitive position. These holdings are stable and strengthened by the BPS's traditional intention to give the investee companies significant contribution in terms of volumes of activities, as well as to provide financial support in the context of balanced operating plans; they respond to the consolidated strategic line of concentrating the company's organisation on its core activity, making use of specialised entities for certain operating sectors (consumer credit, mutual funds, insurance, leasing, factoring, brokerage services, trust field, etc.).

The real estate risk management strategy instead relies on setting guidelines governing the direct assumption of positions in real estate properties, as well as indirect assumption by purchasing shares in real estate funds or similar, in order to:

- define internal rules and procedures aimed at ensuring a careful evaluation of real estate investment initiatives, as required by applicable legislation;
- ensure compliance with the risk-taking objectives in the sector;
- define organisational and governance structures aimed at guaranteeing that real estate investment decisions are primarily aimed at holding properties for functional use, having an instrumental or accessory nature, to be maintained permanently and used in the ordinary course of business; only secondarily aimed at investing in income-generating properties or, when necessary, for credit protection purposes.

## MEASUREMENT AND CONTROL SYSTEMS

In order to control and mitigate strategic and business risks the Group adopts rigorous policies, mainly based on the existence of robust decision-making processes, which at the same time are efficient and streamlined, tending to reconcile the needs of the various stakeholders with the contextual constraints, in accordance with the principles of sound and prudent management.

Further mitigating measures, both at the Parent Company and other entities of the Group, are represented by the constant observation of macroeconomic scenarios and reference markets, the diligent execution of strategic, capital and operational planning and the careful monitoring of business trends.

These criteria are applied to all main areas of Group operation, especially for those relating to the fixing of strategic plan and budget objectives, the acquisition/disposal of equity investments, the introduction of new products or services and entry into new business or market segments, transactions of major economic significance, human resource management, changes in the organisational structure, other innovative and strategic initiatives and processes of alignment of Information and Communication Technologies with company and operational development needs.

In particular, the reactivity with which to cope with deviations from forecasted targets or unexpected changes in the business environment is ensured by a systematic comparison between the actual economic and financial results and the objectives set by the Business Plan, in multi-year plans and annual budgets. The general trend in operations and related outlook are normally analysed by top management and the Board of Directors when quarterly reports are presented for approval, paying particular attention to the level of efficiency and effectiveness achieved.

At the Parent Company, this verification and supervision activity, regularly carried out by the top management with the support of the relevant offices, makes it possible to monitor the ability to convert strategic settings into coherent interventions on the organisational system and to put in place measures aimed at remedying any critical issues or correct deviations from the set goals. At least once a year, the medium-term strategic guidelines are also subjected to a dedicated sustainability check, in light of the evolution of the company's business and the external context, making it possible to assess the advisability of initiating, in the event of significant changes in external conditions or company strategies, the definition of a new development Plan or confirming the current one.

The implementation and translation at management level of the strategic guidelines are ensured by the provision of vertical operational plans for outlining the development guidelines defined by the Business Plan, the progress of which is subject to a specific monitoring and reporting system to the top Bodies. Individual internal projects aimed at implementing commercial, organisational and operational initiatives are also subject to dedicated monitoring in order to verify compliance with performance objectives, spending budgets and deadlines. In this regard, of note is the analysis, on a precautionary basis, of the risk profiles associated with the offer of new products and services with innovative characteristics, entry into new operating and market segments, decisions to outsource activities and information systems and, in general, the pursuit of "innovative" or strategic corporate projects.

Suitable communication processes and clear, articulated and timely internal reporting functional to the adoption of interventions consistent with strategic objectives, support the Group's ability to perceive and respond appropriately to changes in the context. In this regard, the adequate circulation of information between corporate Bodies and within them,



as well as between them and business and control structures is considered an essential prerequisite for the maintenance of decision-making processes based on adequate knowledge of corporate facts, on the exercise of an effective management action consistent with the strategic guidelines and on a control activity able to identify, monitor and mitigate risks in an effective manner.

In the conduction of business activities within the Group, the existence of mechanisms for sharing top management tasks between the Parent Company and the subsidiaries contributes to the adoption of uniform strategic lines. This coordination system mitigates the risks that the affiliates take decisions that could harm the Group's sound management and unity of intent, i.e. carrying on the business according to common guidelines.

With reference to its portfolio of equity investments, the Group holds interests in companies supplying products and services that effectively integrate the commercial offer, according to criteria of continuity and stability; according to the consolidated policy of concentrating the organisation on the core business, these holdings are functional and are preferably acquired as part of collaboration initiatives with other cooperative banks. In line with its vocation as a credit institution, BPS Group also provides financial support in the form of shareholding participation to selected companies, including non-financial enterprises, especially located in geographic areas where BPS traditionally had its roots. Since these companies are well-known to the Parent Company, also thanks to the appointment of its representatives in their respective corporate bodies, strategic risks associated with these holdings are carefully controlled and monitored.

The acquisition and sale of shareholdings, which are statutorily reserved to top corporate Bodies, are subject to in-depth assessment and are inspired by principles of sound and prudent management. The main reasons for investing in financial and non-financial companies are to avoid an excessive immobilisation of the Group's assets, as well as to safeguard its structural balance and direct equity holdings along the lines of stability, economy and limited risk. These transactions, even if promoted by the subsidiaries, require a prior examination by the Board of Directors of the Parent Company, according to the rules and limits on equity investments established at Group level.

With regard to real estate risk, regular monitoring of the composition of the Group's property portfolio is carried out, consisting of half-yearly analyses that also include sensitivity tests to simulate the potential impact of alternative drops in the market value of real estate assets.

For business and underwriting risk exposures, due to their significance, the Group estimates specific internal capital allocations as part of ICAAP.

## ENVIRONMENTAL, SOCIAL AND GOVERNANCE RISKS (ESG)

The Group recognizes that the integration of “sustainability” risks related to the consideration of environmental, social and corporate governance factors (so-called “ESG risks”, Environmental, Social, Governance) in its strategic and risk management processes is an essential lever in order to better understand the context in which it operates, a more considered assumption of risk and, ultimately, greater effectiveness in responding to customers’ and communities’ needs.

ESG risk factors have significant impacts on economic activities, affecting the financial system through various transmission channels. As determining or accentuating factors of various risk categories that typically characterise the operations of financial institutions, their occurrence could affect the resilience of the Group’s business model over a medium and long-term time horizon, compromising its capital stability, competitive potential and reputational credibility.

In compliance with specific regulatory and supervisory obligations, the Group also pursues the strengthening of internal and external communication channels and the intensification of publications on climatic and environmental aspects and, in general, on issues related to sustainability and the management of the related risks, in order to increase markets transparency and promote the understanding of players regarding the financial implications of these factors.

Please refer to Section 12 of this document for information on the subject.

## Corporate governance arrangements

With regard to information required by art. 435, para. 2, of Regulation (EU) 575/2013 (“CRR”) on corporate governance arrangements, please refer to the specific documentation published on the Bank’s website (<https://istituzionale.popso.it>). The required information is provided in greater detail below.

- a. *Number of directorships held by members of the Board of Directors*
- b. In this regard, reference should be made to the “Report on Corporate Governance and Ownership Structure for the year 2023”, prepared pursuant to art. 123 bis of Legislative Decree No. 58 of 24 February 1998 (Consolidated Law on Finance) and available on the Bank’s website at the following address <https://istituzionale.popso.it/it/governance/relazioni-sul-governo-societario>. The document contains the Bank’s Directors curricula vitae, indicating the directorships that they hold (paragraph 4).
- c. *Policy for the selection of members of the Board of Directors and their effective knowledge, skills and experience*
- d. In this regard, reference is made to the document “Optimal qualitative and quantitative composition of the Board of Directors of Banca Popolare di Sondrio SpA”, approved by the Board of Directors in compliance with current supervisory provisions on corporate governance of banks (Bank of Italy Circular 285/2013 “Supervisory provisions for banks”) and published (only in Italian) on the company’s website <https://istituzionale.popso.it/it/investor-relations/assemblea-dei-soci> (2024 Shareholders’ Meeting, Meeting documents).
- e. *Diversity policy adopted in the selection of the members of the management body, the related objectives and any targets established in the framework of this policy, as well as the extent to which these objectives have been achieved*

The current “Supervisory provisions for banks” (Bank of Italy Circular 285/2013), Part One, Title IV, Chapter I, Section IV, provide that the identified gender target, the plan and its implementation is made public within the disclosure that banks must make pursuant to the “Pillar 3” discipline (art. 435 CRR).



In relation to gender diversity, art. 20, paragraph 2, of the Articles of Association of Banca Popolare di Sondrio - document available (only in Italian) on the company's website at <https://istituzionale.popso.it/it/governance/documenti-societari> – establishes that: “*The composition of the Board of Directors must ensure gender balance in accordance with current regulations.*”.

In accordance with the above-mentioned statutory regulations, 7 out of 15 Directors are an expression of the less represented gender, the female one. Therefore, the obligation of at least two-fifths of the offices attributed to the less represented gender envisaged by the provisions of Law No. 160 of 27 December 2019 in terms of equal access to administration and control bodies of companies listed on regulated markets is fully respected.

With regard to diversified skills and experience, age groups, respect for the principle of gender balance of the Directors, each year, before the partial renewal of the Board, Banca Popolare di Sondrio publishes the document “Optimal qualitative-quantitative composition of the Board of Directors of Banca Popolare di Sondrio Spa” (<https://istituzionale.popso.it/it/investor-relations/assemblea-dei-soci> - 2024 Shareholders' Meeting, Meeting Documents).

In the above-mentioned document, the importance of Board diversity and heterogeneity is emphasised (paragraph 6.3.3), particularly in terms of skills, experience, age, gender and length of tenure and international orientation, in order to foster plurality of approaches and perspectives in analysing issues and making decisions.

Sections 6.1 and 6.3 of the document outline the criteria of professionalism and suitability that the Board of Directors considers optimal consistent with current regulations. In order to foster an adequate dialectical confrontation within the Board and to ensure informed and thoughtful decisions, it was considered appropriate that more individuals with proven skills for each of the following different areas pertaining to bank management be present in the Body:

- strategic vision and planning;
- banking business model;
- technology and digitalisation of banking processes;
- risk governance and control systems;
- banking, financial and insurance products;
- knowledge of the most important sectors of the economy and business environments served by the Bank and its entrepreneurial approach;
- anti-money laundering (specific expertise, appropriate level of knowledge and experience and time to devote to the task);
- governance of listed companies, banking regulation;
- sustainability (Climate & Environment and Diversity & Inclusion strategy);
- financial reporting, accounting and auditing;
- legal and corporate.

d. *Whether the bank has set up a separate risk committee and the number of times it has met during the year*

The Control and Risks Committee is set up within the Board of Directors. In this regard, please refer to the aforementioned “Report on Corporate Governance and Ownership Structures for 2023”, paragraph 5.2 (<https://istituzionale.popso.it/it/governance/relazioni-sul-governo-societario>), which illustrates the composition, competences and functioning of the Committee. During 2023, the Control and Risks Committee met 17 times, with each meeting lasting an average of 3 hours and fifty minutes.

e. *Description of the flow of information on risks addressed to the Board of Directors*

*In order to ensure the correct functioning of the internal control system, the Group has identified the most appropriate methods of coordination and collaboration between corporate control bodies and functions, as well as the interactions between the Parent Company and the Subsidiaries.*



In general, the internal control functions of the Parent Company report to top Bodies and Committees, according to their respective responsibilities, periodic or event-by-event specific information to ensure, on the one hand, a decision-making process based on full knowledge and sharing of the facts and, on the other hand, suitable control measures to identify, supervise and mitigate the risks assumed. In particular, the information produced relates to the following aspects:

- planning and reporting of control activities;
- business risk evolution;
- deficiencies found in controls and remedial actions planned or taken;
- violations, serious events and anomalies.

With specific reference to the information flow on risks addressed to the Management Body in accordance with the provisions of art. 435, paragraph 2, letter e) of Regulation (EU) 575/2013 ("CRR"), a summary table of the main information, reports and periodic reporting on monitoring and control of corporate and Group risks prepared for the benefit of the Board of Directors of the Parent Company Banca Popolare di Sondrio is provided below.

### List of periodic information flows on risk control addressed to the Board of the Parent Company Banca Popolare di Sondrio

	Flow name	Responsible unit	Frequency
1	Report of the Risk Control Function on the activities carried out during the year n and Activity Programme for the year n+1	Governance Area <i>Chief Risk Officer</i>	Annual
2	Report of the Risk Management Function pursuant to art. 23 Commission Delegated Regulation (EU) 565/2017 on investment services	Governance Area <i>Chief Risk Officer</i>	Annual
3	Reporting of the Group's internal capital adequacy assessment process (ICAAP Report)	Governance Area <i>Chief Risk Officer</i>	Annual
4	Reporting of the Group's internal liquidity adequacy assessment process (ILAAP Report)	Governance Area <i>Chief Risk Officer</i>	Annual
5	Public Disclosures (Pillar 3 Report)	Governance Area <i>Chief Risk Officer</i>	Quarterly
6	Tableau de Bord – Risk Dashboard	Governance Area <i>Chief Risk Officer</i>	Quarterly
7	ESG risk factor reporting	Governance Area <i>Chief Risk Officer</i>	Quarterly
8	Information on the forecast performance of the cost of credit risk	Governance Area <i>Chief Risk Officer</i>	Quarterly
9	Cyber risk overview report	Governance Area <i>Chief Risk Officer</i>	Annual
10	Information on the findings of the ECB IT Risk Questionnaire	Governance Area <i>Chief Risk Officer</i>	Annual
11	Report of the Validation Function on the activities carried out during the year n and Activity Plan for the year n+1	Governance Area <i>Chief Risk Officer - Validation Office</i>	Annual
12	Validation Office Notes on Updates to Model A-IRB (model change)	Governance Area <i>Chief Risk Officer - Validation Office</i>	According to the periodicity and in the circumstances established by internal regulations



	Flow name	Responsible unit	Frequency
13	Report of the Compliance Function and Data Protection Officer (DPO) on the activities carried out during the year <i>n</i> and Activity Programme for the year <i>n+1</i>	Compliance Function and Data Protection Officer (DPO)	Annual (half-yearly update)
14	Report pursuant to art. 22 Commission Delegated Regulation (EU) 565/2017 on controls and complaints in the context of the provision of investment services	Compliance Function and Data Protection Officer (DPO)	Annual
15	Report on internal infringement reporting systems ("whistleblowing")	Compliance Function and Data Protection Officer (DPO)	Annual
16	Report on transparency of banking and financial transactions and services	Compliance Function and Data Protection Officer (DPO)	Annual
17	DPO report on the processing of personal data (privacy)	Compliance Function and Data Protection Officer (DPO)	Annual
18	Periodic reporting on transactions with related parties/associated persons	Compliance Function and Data Protection Officer (DPO)	Quarterly
19	Compliance reports dedicated to the evidence emerging on specific areas subject to verification	Compliance Function and Data Protection Officer (DPO)	According to the periodicity and in the circumstances established by internal regulations
20	Report of the Anti-Money Laundering Function on the activities carried out during the year <i>n</i> (including the annual Self-Assessment of money laundering risks provided for by the Bank of Italy provisions) and Activity Programme for the year <i>n+1</i>	Anti-Money Laundering Function	Annual (half-yearly update)
21	Report of the Manager responsible for preparing the Company's accounting documents on the activities carried out during the year <i>n</i> and Activity Programme for the year <i>n+1</i>	Manager responsible for preparing the Company's accounting documents	Annual (half-yearly update)
22	Information relating to the supervisory activity on the implementation of the Organisational Model according to L.D. 231/2001	Supervisory Body pursuant to Legislative Decree 231/2001	Annual
23	Report of the Internal Audit Department on the activities carried out in the year <i>n</i> and Audit plan	Internal Audit Department	Annual
24	Report on the checks carried out on important operational or outsourced control functions	Internal Audit Department	Annual
25	Report of the Internal Audit Department pursuant to art. 24 Commission Delegated Regulation (EU) 565/2017 on investment services	Internal Audit Department	Annual
26	Periodic information on audit activities and reports on specific areas of verification (e.g. ICAAP / ILAAP, A-IRB internal rating systems, etc.)	Internal Audit Department	According to the periodicity and in the circumstances established by internal regulations
27	Report on investment services, ancillary activities and distribution of financial products issued by insurance companies or banks	Governance Area Chief Financial Officer - Finance Service	Annual
28	Self-assessment of the persistence of the eligibility requirements in the exercise of the activity of custodian bank of UCIs and pension funds	Governance Area Chief Financial Officer - Finance Service	Annual
29	Annual plan of business continuity controls	Governance Area Chief Information & Operations Officer - Business Continuity Function	Annual
30	Report on the findings of operational and security risks related to payment services	Governance Area Chief Risk Officer Governance Area Chief Information & Operations Officer	Annual
31	Annual Report of the Group Outsourcing Manager	Group Outsourcing Manager	Annual



## Section 3

# Disclosure of key metrics and overview of risk-weighted exposure amounts (articles 438, 447 and 473-bis CRR/CRR II)

The Group constantly monitors its capital adequacy, considered both in terms of size and composition, in respect of the risks taken, and those to which the Group might be exposed in implementing business strategies.

According to this, also in line with the provisions set out in the “Pillar 2” regulatory framework, the Group has in place an internal process (ICAAP - Internal Capital Adequacy Assessment Process) to regularly evaluate if its capital level and composition are adequate, in current and prospective terms, to cope with all the significant risks to which the Group is or might be exposed, based on the medium-term forecasts adopted for strategic, capital and financial planning.

Taking into account the projections of the balance sheet and consolidated income statement aggregates, risk profiles considered relevant for the Group’s core business are identified and analysed, according to their type, through quantitative and/or qualitative approaches.

Specifically, ICAAP assessments are conducted from a double perspective:

- *Internal regulatory perspective*: it represents a multi-year assessment of the ability of the Group’s available capital position to meet all regulatory and Supervisory requirements, as well as to face on an ongoing basis all other internal and external capital constraints applicable from time to time over a medium-term horizon (at least three years). This perspective takes into account potential impacts of all capital risks considered material for the Group, not limited to those covered by Pillar 1 requirements.
- *Internal economic perspective*: it integrates the regulatory perspective and refers to the Group’s ability to face, through a suitable supply of capital resources, all the material risks likely to generate economic losses and to reduce the total available capital. In this perspective, the Group ensures adequate risk coverage with capital that is commensurate with its internal concept of capital adequacy.

In both perspectives, the assessment horizon is three years, according to the ECB’s expectations. The metrics used in the Group’s capital adequacy analyses based on the aforementioned perspectives refer to the following key notions:

- *absorbed capital*, understood as the capital need relating to a specific risk which is deemed necessary to cover losses exceeding a given expected level;
- *total absorbed capital*, understood as the amount of capital absorbed referring to all the material risks assumed by the Group in current or prospective terms, including any internal capital needs due to strategic considerations;
- *total available capital*, consisting of the overall capital resources that are expected to cover the amount of capital needs determined through risk quantification.

The correct measurement of risk exposures, carried out in both current and prospective terms, as well as under stressed conditions, makes it possible to determine the amount of internal capital needed to cover the different types of risk that may have a material impact on the Group.



On a yearly basis, the Group represents the main outcomes of the ICAAP to the Supervisory Authority, along with the its underlying elements. The findings submitted through this reporting form a fundamental basis of assessment for the supervisor for the purposes of the SREP (Supervisory Review and Evaluation Process).

At the end of the ICAAP, the Board of Directors of the Parent Company, as Strategic Supervisory Body, verifies that adequate capitalisation conditions have been met, i.e. that capital is sufficient to cover the requirements associated with the set of material risks to which the Group is exposed, both on an actual basis and in the baseline and stress forward-looking scenarios, taking into account the expected evolution of the Group's business. The ILAAP assessment has been carried out in March 2024 with reference to the end of 2023.

The Group's ability to continue operating by maintaining sound and robust financial conditions is regularly surveyed as part of the management reporting on business performance and risk exposures. Potential impacts on the capital position of key managerial choices and initiatives, or any significant changes in corporate strategies and in the external environment, are also previously assessed before making any related decision.

Targets and limits stated in the Risk Appetite Framework (RAF) for capital indicators are taken as a point of reference to evaluate the adequacy of the Group's capitalisation measures as calculated in the ICAAP, in current terms and under baseline and adverse scenarios, in line with minimum regulatory requirements and with additional supervisory constraints currently and prospectively in force.

The following tables provide a summary of the performance of some key figures of Banca Popolare di Sondrio Group, represented by key prudential and regulatory metrics envisaged by the CRR/CRR II regulations. The additional Pillar 2 requirements to which the Group is subject by virtue of regulatory provisions or decisions of the Supervisory Authority are also represented.

**Table 6 - Template EU KM1: key metrics (1 of 2)**

		<b>a</b>	<b>b</b>
		<b>31/12/2023</b>	<b>30/09/2023</b>
<b>Available own funds (amounts)</b>			
1	Common Equity Tier 1 (CET1) capital	3,512,520	3,410,749
2	Tier 1 capital	3,512,520	3,410,749
3	Total capital	4,053,189	3,950,672
<b>Risk-weighted exposure (amounts)</b>			
4	Total risk-weighted exposure amount	22,855,291	20,969,426
<b>Capital ratios (as a percentage of risk-weighted exposure amount)</b>			
5	Common Equity Tier 1 ratio (%)	15.3685%	16.2653%
6	Tier 1 ratio (%)	15.3685%	16.2653%
7	Total capital ratio (%)	17.7341%	18.8402%

**Table 6** - Template EU KM1: key metrics (1 of 2)

		a	b
		31/12/2023	30/09/2023
<b>Additional own funds requirements to address risks other than the risk of excessive leverage (as a percentage of risk-weighted exposure amount)</b>			
EU 7a	Additional own funds requirements to address risks other than the risk of excessive leverage (%)	2.6600%	2.6600%
EU 7b	<i>of which: to be made up of CET1 capital (percentage points)</i>	1.4963%	1.4963%
EU 7c	<i>of which: to be made up of Tier 1 capital (percentage points)</i>	1.9950%	1.9950%
EU 7d	Total SREP own funds requirements (%)	10.6600%	10.6600%
<b>Combined buffer requirement (as a percentage of risk-weighted exposure amount)</b>			
8	Capital conservation buffer (%)	2.5000%	2.5000%
EU 8a	Conservation buffer due to macro-prudential or systemic risk identified at the level of a Member State (%)	-	-
9	Institution specific countercyclical capital buffer (%)	0.0359%	0.0224%
EU 9a	Systemic risk buffer (%)	-	-
10	Global Systemically Important Institution buffer (%)	-	-
EU 10a	Other Systemically Important Institution buffer	-	-
11	Combined buffer requirement (%)	2.5359%	2.5224%
EU 11a	Overall capital requirements (%)	13.1959%	13.1824%
12	CET1 available after meeting the total SREP own funds requirements (%)	7.0741%	8.1802%
<b>Leverage ratio</b>			
13	Leverage ratio total exposure measure	63,354,781	60,049,825
14	Leverage ratio	5.5442%	5.6799%
<b>Additional own funds requirements to address risks of excessive leverage (as a percentage of leverage ratio total exposure amount)</b>			
EU 14a	Additional own funds requirements to address the risk of excessive leverage (%)	-	-
EU 14b	<i>of which: to be made up of CET1 capital (percentage points)</i>	-	-
EU 14c	Total SREP leverage ratio requirements (%)	3.0000%	3.0000%
<b>Leverage ratio buffer and overall leverage ratio requirement (as a percentage of total exposure measure)</b>			
EU 14d	Leverage ratio buffer requirement (%)	-	-
EU 14e	Overall leverage ratio requirement (%)	3.0000%	3.0000%
<b>Liquidity Coverage Ratio</b>			
15	Total high-quality liquid assets (HQLA) (Weighted value - average)	10,925,070	11,041,299
EU 16a	Cash outflows - Total weighted value	9,328,685	9,579,907
EU 16b	Cash inflows - Total weighted value	3,024,555	2,955,754
16	Total net cash outflows (adjusted value)	6,304,129	6,624,153
17	Liquidity coverage ratio (%)	174.0695%	167.3417%
<b>Net Stable Funding Ratio</b>			
18	Total available stable funding	35,015,406	35,179,641
19	Total required stable funding	27,882,651	27,402,765
20	NSFR ratio (%)	125.5813%	128.3799%

Source: COREP reporting framework - Capital Adequacy: Templates C 01.00 - C 02.00 - C 03.00 - C 04.00; Calculation of the leverage ratio: Template C 47.00; Liquidity Coverage: Templates C 72.00 - C 73.00 - C 74.00 - C 75.01 - C 76.00



**Table 7 - Template EU KM1: key metrics (2 of 2)**

		<b>c</b>	<b>d</b>	<b>e</b>
		<b>30/06/2023</b>	<b>31/03/2023</b>	<b>31/12/2022</b>
<b>Available own funds (amounts)</b>				
1	Common Equity Tier 1 (CET1) capital	3,334,280	3,211,457	3,239,887
2	Tier 1 capital	3,334,280	3,211,457	3,239,887
3	Total capital	3,874,474	3,751,453	3,779,302
<b>Risk-weighted exposure (amounts)</b>				
4	Total risk-weighted exposure amount	21,106,631	21,032,000	21,049,013
<b>Capital ratios (as a percentage of risk-weighted exposure amount)</b>				
5	Common Equity Tier 1 ratio (%)	15.7973%	15.2694%	15.3921%
6	Tier 1 ratio (%)	15.7973%	15.2694%	15.3921%
7	Total capital ratio (%)	18.3567%	17.8369%	17.9548%
<b>Additional own funds requirements to address risks other than the risk of excessive leverage (as a percentage of risk-weighted exposure amount)</b>				
EU 7a	Additional own funds requirements to address risks other than the risk of excessive leverage (%)	2.6600%	2.6600%	2.7700%
EU 7b	<i>of which: to be made up of CET1 capital (percentage points)</i>	1.4963%	1.4963%	1.5581%
EU 7c	<i>of which: to be made up of Tier 1 capital (percentage points)</i>	1.9950%	1.9950%	2.0775%
EU 7d	Total SREP own funds requirements (%)	10.6600%	10.6600%	10.7700%
<b>Combined buffer requirement (as a percentage of risk-weighted exposure amount)</b>				
8	Capital conservation buffer (%)	2.5000%	2.5000%	2.5000%
EU 8a	Conservation buffer due to macro-prudential or systemic risk identified at the level of a Member State (%)	-	-	-
9	Institution specific countercyclical capital buffer (%)	0.0162%	0.0078%	0.0045%
EU 9a	Systemic risk buffer (%)	-	-	-
10	Global Systemically Important Institution buffer (%)	-	-	-
EU 10a	Other Systemically Important Institution buffer	-	-	-
11	Combined buffer requirement (%)	2.5162%	2.5078%	2.5045%
EU 11a	Overall capital requirements (%)	13.1762%	13.1678%	13.2745%
12	CET1 available after meeting the total SREP own funds requirements (%)	7.6967%	9.2731%	9.3340%
<b>Leverage ratio</b>				
13	Leverage ratio total exposure measure	59,273,997	62,783,146	62,953,892
14	Leverage ratio	5.6252%	5.1152%	5.1464%
<b>Additional own funds requirements to address risks of excessive leverage (as a percentage of leverage ratio total exposure amount)</b>				
EU 14a	Additional own funds requirements to address the risk of excessive leverage (%)	-	-	-
EU 14b	<i>of which: to be made up of CET1 capital (percentage points)</i>	-	-	-
EU 14c	Total SREP leverage ratio requirements (%)	3.0000%	3.0000%	3.0000%
<b>Leverage ratio buffer and overall leverage ratio requirement (as a percentage of total exposure measure)</b>				
EU 14d	Leverage ratio buffer requirement (%)	-	-	-
EU 14e	Overall leverage ratio requirement (%)	3.0000%	3.0000%	3.0000%

**Table 7** - Template EU KM1: key metrics (2 of 2)

		c	d	e
		30/06/2023	31/03/2023	31/12/2022
<b>Liquidity Coverage Ratio</b>				
15	Total high-quality liquid assets (HQLA) (Weighted value - average)	11,160,414	11,154,516	11,115,038
EU 16a	Cash outflows - Total weighted value	9,929,395	10,087,186	10,099,736
EU 16b	Cash inflows - Total weighted value	2,890,527	2,796,077	2,775,370
16	Total net cash outflows (adjusted value)	7,038,867	7,291,109	7,324,366
17	Liquidity coverage ratio (%)	159.0356%	153.0459%	151.8126%
<b>Net Stable Funding Ratio</b>				
18	Total available stable funding	37,166,827	36,548,102	37,245,000
19	Total required stable funding	28,858,210	28,542,750	28,984,542
20	NSFR ratio (%)	128.7912%	128.0469%	128.4995%

Source: COREP reporting framework - Capital Adequacy: Templates C 01.00 - C 02.00 - C 03.00 - C 04.00; Calculation of the leverage ratio: Template C 47.00; Liquidity Coverage: Templates C 72.00 - C 73.00 - C 74.00 - C 75.01 - C 76.00

## Capital requirements

Banking groups must comply with the following minimum capital requirements:

- Common Equity Tier 1 (CET1) ratio of 4.5%;
- Tier 1 Ratio of 6%;
- Total Capital Ratio of 8%.

The following capital reserves (known as “buffers”) have to be added to these minimum ratios provided by the CRR with the aim of providing supervised entities with high quality capital to be used in times of market tension to prevent malfunctions of the banking system and avoid interruptions to the credit disbursement process, as well as to face risks deriving from certain banks systemic relevance at a global or local level.

Each additional capital reserve plays a specific role, in particular:

- *Capital Conservation Buffer*: made up of Common Equity Tier 1 Capital, equivalent to an additional operating requirement equal to 2.5% of weighted assets, intended to safeguard the minimum level of regulatory capital even in times of particularly adverse market.
- *Countercyclical Capital Buffer*: this is also made up of Tier 1 Capital to protect the banking sector at times of excessive lending growth; following measures by the competent Supervisory Bodies, it could be set up during periods of economic expansion to cope with any losses that might arise during the downward phases of the cycle, based on a specific coefficient established at a national level. The countercyclical coefficient relating to exposures to Italian counterparties, reviewed quarterly by the Bank of Italy, remained unchanged at 0% throughout 2023.
- *Global Systemically Important Institution Buffer (G-SII buffer) and Other Systemically Important Institution Buffer (O-SII buffer)*: reserves consisting of Common Equity Tier 1 capital; applied to Global Systemically Important Institutions (G-SII) and Other Systemically Important Institutions (O-SII) to account for the increased risks they potentially pose to the stability of the financial system. The buffer for G-SIIs can vary between a minimum of 1% and a maximum of 3.5%, whereas for O-SIIs a non-binding maximum threshold of 2% is foreseen.



- *Systemic Risk Buffer*: additional reserve of an amount equal to at least 1% of the risk exposures, established by each individual EU Member State in order to mitigate long-term non-cyclical macro-prudential risks and, in this way, cope with the negative effects of unexpected systemic crises<sup>11</sup>.

The sum of regulatory requirements and additional reserves determines the minimum level of capital conservation required for banks and banking groups (known as the “combined buffer requirement”). From 1 January 2019, for Banca Popolare di Sondrio Group these minimum capital levels are as follows:

- Common Equity Tier 1 (CET1) ratio of 7%;
- Tier 1 Ratio of 8.5%;
- Total Capital Ratio of 10.5%.

Banks that do not hold capital reserves to the minimum extent required are subject to distribution limits; in addition, they must adopt a capital conservation plan that indicates measures to be taken in order to re-establish, within a reasonable period of time, the amount of capital needed to maintain their reserves above the minimum required.

The new supervisory decision on prudential requirements resulting from the Supervisory Review and Evaluation Process (SREP) conducted by the Supervisory Authority during 2022 has been in force since 1 January 2023. The additional Pillar 2 Requirement (“P2R”) imposed on the Group, to be held in the form of Common Equity Tier 1 (CET1) capital at least for 56.25% and Tier 1 (T1) capital for at least 75%, has been set at 2.66% (down from the previous 2.77%) and includes a share of 0.01% as an increase in the Pillar 2 requirement for impaired exposures. Accordingly, the minimum capital levels to be met by the Group<sup>12</sup> for 2023<sup>13</sup> include:

- a minimum requirement for Common Equity Tier 1 Ratio equal to 8.50%, made up of the sum of the Pillar 1 regulatory requirement (4.50%), the amount of Capital Conservation Buffer (2.50%) and the additional Pillar 2 Requirement - P2R (1.50%);
- a minimum requirement for Tier 1 Ratio of 10.50%, being the sum of the Pillar 1 regulatory requirement (6.0%), the amount of Capital Conservation Buffer (2.50%) and the additional Pillar 2 Requirement (2.0%);
- a minimum requirement for Total Capital Ratio of 13.16%, being the sum of the Pillar 1 regulatory requirement (8.0%), the amount of Capital Conservation Buffer (2.50%) and the additional Pillar 2 Requirement (2.66%).

In addition to these minimum ratios is a “Pillar 2 Guidance” (P2G), which aims to be a guideline to the prospective evolution of the Group’s capital position. The latter target parameter, assigned by the Supervisor as a result of the SREP process, however, assumes a confidential nature and, unlike the abovementioned binding capital requirements, is not publicly disclosed, as it is an element which, also according to the Supervisory approach, is not relevant for the calculation of distributable dividends.

<sup>11</sup> In a release dated 8 March 2024, the Bank of Italy launched a public consultation, open until 29 March, on the intention to activate a systemic risk buffer (SyRB) for banks and groups authorised in Italy. The Authority has already indicated its intention to introduce this requirement gradually, assuming an increase of the requirement on domestic credit and counterparty risk-weighted exposures of 0.5% in 2024 and 1% from 2025.

<sup>12</sup> The minimum requirements are calculated net of the contribution from the Group’s specific countercyclical capital buffer.

<sup>13</sup> Effective as of 1 January 2024, the new supervisory decision on prudential requirements resulting from the SREP process conducted in 2023 is in force, under which the additional Pillar 2 Requirement (P2R) imposed on Banca Popolare di Sondrio Group is 2.79%, up from the previous 2.66%. The new minimum ratio, to be held in the form of Tier 1 (CET 1) capital for at least 56.25% and Tier 1 capital for at least 75%, includes a quota of 0.04% as an increase in the Pillar 2 requirement for non-performing exposures. As a result, the minimum level of Common Equity Tier 1 Ratio required for 2024 is 8.57%, from the previous 8.50%, and is determined as the sum of the minimum Pillar I regulatory requirement (4.5%), the additional Pillar II requirement (1.57%) and the capital conservation buffer (2.5%). The required Tier 1 Ratio is 10.59%, from the previous 10.50%. The minimum Total Capital Ratio is 13.29%, from the previous 13.16%.





Further information on the performance of the Group's capital ratios in relation to minimum requirements is provided in Section 4 of this Disclosure.

## Leverage and liquidity requirements

Banca Popolare di Sondrio Group is also subject to minimum requirements in relation to:

- Leverage Ratio;
- Liquidity Coverage Ratio (LCR);
- Net Stable Funding Ratio (NSFR).

For further information on the first coefficient please refer to Section 6, for the second and third ratios please refer to Section 7 of this Disclosure.

\* \* \*

The tables below provide the values of the Group's regulatory own funds, risk-weighted assets (RWA), capital ratios and leverage ratio, calculated as at 31 December 2023 and in the four previous quarterly periods taking into account the complete fulfilment of the phase-in rules for the gradual introduction of IFRS 9, compared with the homologous quantities calculated in case transitional provisions or applicable temporary treatments are missing/absent.



**Table 8** - Template IFRS 9-FL: Own funds, capital and leverage ratios under IFRS 9/analogous ECLs transitional

		31/12/2023	30/09/2023	30/06/2023	31/03/2023	31/12/2022
<b>Available capital (amounts)</b>						
1	Common Equity Tier 1 (CET1) capital	3,512,520	3,410,749	3,334,280	3,211,457	3,239,887
2	Common Equity Tier 1 (CET1) capital as if IFRS 9 or analogous ECLs transitional arrangements had not been applied	3,457,570	3,389,043	3,311,147	3,196,676	3,220,153
3	Tier 1 capital	3,512,520	3,410,749	3,334,280	3,211,457	3,239,887
4	Tier 1 capital as if IFRS 9 or analogous ECLs transitional arrangements had not been applied	3,457,570	3,389,043	3,311,147	3,196,676	3,220,153
5	Total capital	4,053,189	3,950,672	3,874,474	3,751,453	3,779,302
6	Total capital as if IFRS 9 or analogous ECLs transitional arrangements had not been applied	3,998,240	3,928,965	3,851,341	3,736,672	3,759,569
<b>Risk-weighted assets (amounts)</b>						
7	Total risk-weighted assets	22.855.291	20.969.426	21.106.631	21.032.000	21.049.013
8	Total risk-weighted assets as if IFRS 9 or analogous ECLs transitional arrangements had not been applied	22.852.976	20.965.952	21.103.182	21.028.958	21.046.458
<b>Capital ratios</b>						
9	Common Equity Tier 1 (as a percentage of risk exposure amount)	15,3685%	16,2653%	15,7973%	15,2694%	15,3921%
10	Common Equity Tier 1 (as a percentage of risk exposure amount) as if IFRS 9 or analogous ECLs transitional arrangements had not been applied	15,1296%	16,1645%	15,6903%	15,2013%	15,3002%
11	Tier 1 (as a percentage of risk exposure amount)	15,3685%	16,2653%	15,7973%	15,2694%	15,3921%
12	Tier 1 (as a percentage of risk exposure amount) as if IFRS 9 or analogous ECLs transitional arrangements had not been applied	15,1296%	16,1645%	15,6903%	15,2013%	15,3002%
13	Total capital (as a percentage of risk exposure amount)	17,7341%	18,8402%	18,3567%	17,8369%	17,9548%
14	Total capital (as a percentage of risk exposure amount) as if IFRS 9 or analogous ECLs transitional arrangements had not been applied	17,4955%	18,7397%	18,2500%	17,7692%	17,8632%
<b>Leverage ratio</b>						
15	Leverage ratio total exposure measure	63.354.781	60.049.825	59.273.997	62.783.146	62.953.892
16	Leverage ratio	5,5442%	5,6799%	5,6252%	5,1152%	5,1464%
17	Leverage ratio as if IFRS 9 or analogous ECLs transitional arrangements had not been applied	5,4575%	5,6437%	5,5862%	5,0916%	5,1151%

Source: COREP reporting framework - Capital Adequacy: Templates C 01.00-C05.01 and Leverage ratio calculation: Template C 47.00

## Transitional IFRS 9 provisions

The Group's own funds, capital and leverage ratios as at 31 December 2023 are calculated in application of the transitional provisions set out in Regulation (EU) 2017/2395 of 12 December 2017, as amended by Regulation (EU) 2020/873 of 24 June 2020 (so-called CRR "Quick-fix")<sup>14</sup>, aimed at containing the capital impacts of the adoption, effective 1 January 2018, of the new IFRS 9 accounting standard, appropriately amending and supplementing Regulation (EU) No 575/2013 ("CRR"). The adoption of transitional arrangements by banks, to be reported in advance to the Supervisory Authority, was optional and could be either "full" or "partial" depending on whether it concerned all regulatory provisions or only a portion of them.

These amendments are applicable from 1/1/2018 to 31/12/2024 and allow intermediaries to temporarily include in the calculation of their Common Equity Tier 1 Capital (CET1) an additional amount in order to "neutralize" the potentially significant impact of the possible increase in provisions to cover expected losses on financial instruments that would probably result from the immediate adoption of the new accounting standards.

The amount associated with these additional loss provisions, calculated net of tax effects, as a positive element of equity, can be broken down into a "static" component, representing a measure of the increases in adjustments when the new accounting standard is first adopted, and a "dynamic" component, measuring the additional increases in adjustments that could occur at each subsequent accounting date during the transitional period with respect to the provisions in place at 1/1/2018, excluding changes in adjustments calculated on portfolios of financial instruments.

This additional amount is applied to the value of the Common Equity Tier 1 capital of entities that chose to adhere to the aforementioned transitional provisions according to a percentage of eligibility (so-called "adjustment percentage") progressively decreasing over time.

The amount of the value adjustments included as a positive element of CET1 is therefore "sterilised" in the calculation of capital ratios through the application of a scaling factor with the effect of limiting the amount of new write-downs which, in relation to positions treated according to the standardised method, are deducted from the exposure value used to calculate risk-weighted assets (RWA). This would ensure that those institutions applying transitional arrangements would not benefit from both an increase in their Common Equity Tier 1 capital due to said compensatory adjustments and a reduced risk exposure amount.

The Banca Popolare di Sondrio Group chose to take advantage of these transitional arrangements on a "full" basis, i.e. with reference to both additional credit risk provisions for expected credit losses on performing and credit-impaired financial instruments observed at the time of FTA of IFRS 9 (the "static" component), as well as to the increase in impairment losses recorded excluding credit-impaired instruments (only positions classified into Stage 1 and Stage 2) at each reference date following FTA of IFRS 9 (the "dynamic" component).

The figures reported in the tables above demonstrate how the impacts on the Group's capital adequacy in the event of immediate and full recognition of the effects of the accounting standard would remain fully limited also as at 31 December 2023. The differentials between the capital solvency and financial leverage ratios calculated taking into account the compensatory adjustments granted by the IFRS 9 transitional regime and those available to the Group in the event that it had not opted for this possibility remain substantially in line with those observed in the previous quarter.

<sup>14</sup> Regulation (EU) 2020/873 amended the previous transitional provisions with regard to both the time period and the eligibility percentages. The additional adjustments related to the entry into force of the IFRS 9 accounting standard continue to be calculated according to the percentages already provided for by the previous regulations, while, for those related to the COVID-19 emergency, they are applied to the value of CET1 capital taking into account a decreasing percentage of calculation over time, from 100% in 2020 and 2021, to 75% in 2022, to 50% in 2023, to 25% in 2024, until its total elimination in 2025



The table below provides an overview of the Group's risk-weighted exposures (RWA or TREA) and capital absorption as at 31 December 2023, broken down by type of exposure and calculation method required by prudential regulations.

**Table 9** - Template EU OV1: Overview of risk weighted exposure amounts

		RWA		Capital requirement
		a	b	a
		31/12/2023	30/09/2023	31/12/2023
1	Credit risk (excluding CCR)	19,532,940	17,957,816	1,562,635
2	<i>Of which the standardised approach</i>	11,622,002	10,189,550	929,760
3	<i>Of which the foundation IRB (FIRB) approach</i>	-	-	-
4	<i>Of which: slotting approach</i>	-	-	-
EU 4a	<i>Of which: equities under the simple riskweighted approach</i>	-	-	-
5	<i>Of which the advanced IRB (AIRB) approach</i>	7,910,938	7,768,266	632,875
6	Counterparty credit risk - CCR	84,857	115,393	6,789
7	<i>Of which the standardised approach</i>	25,460	36,454	2,037
8	<i>Of which internal model method (IMM)</i>	-	-	-
EU 8a	<i>Of which exposures to a CCP</i>	518	764	41
EU 8b	<i>Of which credit valuation adjustment - CVA</i>	10,779	17,464	862
9	<i>Of which other CCR</i>	48,099	60,710	3,848
15	Settlement risk	-	-	-
16	Securitisation exposures in the non-trading book (after the cap)	267,734	293,306	21,419
17	<i>Of which SEC-IRBA approach</i>	86,814	95,475	6,945
18	<i>Of which SEC-ERBA (including IAA)</i>	83,059	39,050	6,645
19	<i>Of which SEC-SA approach</i>	84,024	82,852	6,722
EU 19a	<i>Of which 1250%</i>	13,837	75,929	1,107
20	Position, foreign exchange and commodities risks (Market risk)	722,504	819,935	57,800
21	<i>Of which the standardised approach</i>	722,504	819,935	57,800
22	<i>Of which IMA</i>	-	-	-
EU 22a	Large exposures	-	-	-
23	Operational risk	2,247,257	1,782,976	179,781
EU 23a	<i>Of which basic indicator approach</i>	-	-	-
EU 23b	<i>Of which standardised approach</i>	2,247,257	1,782,976	179,781
EU 23c	<i>Of which advanced measurement approach</i>	-	-	-
24	Amounts below the thresholds for deduction (subject to 250% risk weight) (For information)	783,071	814,182	62,646
<b>29</b>	<b>TOTAL</b>	<b>22,855,291</b>	<b>20,969,426</b>	<b>1,828,423</b>

Source: COREP reporting framework - Capital Adequacy: Templates C 02.00 - C 07.00 - C 04.00 - C 08.01 - C 10.01 - C 13.01 - C 14.00 - C 14.01 - C 34.10 - C 34.02

The total amount of the Group's risk-weighted exposures increased in the last quarter. The capital requirement for credit and counterparty risks increased on the rise in lending volumes at the end of 2023; the exposure to market risks decreased since September, continuing to be mainly concentrated in the equities and UCIs asset classes. The capital absorption on operational risks, following the annual update as per the regulatory method, shows an increase compared to 31/12/2022. CVA risks on OTC derivative transactions have declined and remained scarcely material.

#### **Table 10** - Template EU INS1: Insurance participations

The template is not subject to publication given the absence of operations in this area by the Group.

#### **Table 11** - Template EU INS2: Financial conglomerates information on own funds and capital adequacy ratio

The template is not subject to publication because Banca Popolare di Sondrio Group is not given the status of "financial conglomerate" in application of Directive 2002/87/EC of 16 December 2002 on the supplementary supervision of credit institutions, insurance undertakings and investment firms in a financial conglomerate.



# Section 4

## Disclosure of own funds (art. 437 CRR/CRR II)

### The components of regulatory own funds: main characteristics

The key elements of regulatory own funds consist of:

- Common Equity Tier 1 Capital (CET1)
- Additional Tier 1 capital (Additional Tier 1 - AT1)
- Tier 2 Capital (T2).

CET1 and AT1 constitute Tier 1 Capital (T1) which, added to Tier 2, gives Total Own Funds.

### Common Equity Tier 1 Capital (CET1)

The Common Equity Tier 1 Capital (CET1) is made up of the following positive and negative components:

- Share capital and related share premium reserve
- Profit reserves
- Valuation reserves as per UCI Accumulated Other Comprehensive Income
- Other reserves
- Previous CET1 instruments subject to transitional instructions (grandfathering)
- Non-controlling interests
- Prudential filters
- Deductions.

Prudential filters are (positive or negative) regulatory adjustments to items in the financial statement aimed at granting the quality of own funds, reducing the potential volatility caused by applying IAS/IFRS. These filters exclude from CET1 the valuation reserve generated by cash flow hedges and unrealised gains/losses arising from changes in a Bank's creditworthiness (liabilities under the fair value option and derivative liabilities).

The main Deductions to which common equity capital is subject consist of goodwill and other intangible assets and for Banca Popolare di Sondrio Group, with effect from 30 June 2019, of any excess of expected losses quantified through risk parameters calculated using internal models over total net impairment losses recognised in the financial statements (shortfall), referring to the regulatory portfolios for which the Supervisory Authorities have approved the use of the Advanced Internal Rating Based Approach (IRB) to estimate the capital requirement for credit risk (the Corporate and Retail portfolios).

Additional significant deductions from CET1 are:

- deferred tax assets (DTA) that rely on future profitability;
- deferred tax assets that rely on future profitability and arise from temporary differences (deducted for the amount that exceeds the thresholds provided for in the regulations);
- significant investments in equity instruments issued by financial sector entities (deducted for the amount that exceeds the thresholds provided for in the regulations);
- non-significant investments in equity instruments issued by financial sector entities (deducted for the amount that exceeds the thresholds provided for in the regulations);
- any deduction exceeding the availability of Additional Tier 1 Capital.

## Additional Tier 1 Capital (AT1)

The Additional Tier 1 Capital (AT1) consists of the following positive and negative components:

- Equity instruments and related premiums
- Previous AT1 instruments subject to transitional instructions (grandfathering)
- Instruments issued by subsidiaries and included in AT1
- Deductions.

## Tier 2 Capital (T2)

The Tier 2 Capital (T2) consists of the following positive and negative elements:

- Equity instruments, subordinated loans and related premiums
- Previous T2 instruments subject to transitional instructions (grandfathering)
- Instruments issued by subsidiaries and included in T2
- Surplus on expected losses of recognised value adjustments, within the limit of 0.60% of weighted exposures for credit risk according to the A-IRB approach
- Deductions.

## Transitional arrangements

At 31 December 2023, the Group's own funds were calculated applying the prudential regulations that came into force with the CRR on 1 January 2014, as subsequently amended and supplemented, which transposed the new capital standards defined by the Basel Committee for Banking Supervision ("Basel 3 Framework" and subsequent evolutions and additions to the regulatory framework conventionally referred to as "Basel 4").

The supervisory rules established transitional provisions, which are still in progress, characterised by a progressive introductory period ("phase-in") of part of the regulations on own funds and capital requirements, during which for example, only a percentage of certain elements are deducted from or included in Tier 1 Capital, while the residual elements are otherwise included in/deducted from Additional Tier 1 Capital and Tier 2 Capital or considered as part of risk weighted assets.



As already indicated in Section 3 above, the Group's own funds and prudential capital ratios at 31 December 2023 were calculated in accordance with the transitional arrangements set out in Regulation (EU) 2017/2395 of 12 December 2017, as partially amended by Regulation (EU) 2020/873 of 24 June 2020, designed to mitigate the impact of the introduction of IFRS 9 until 31 December 2024.

## Conditions for the inclusion of interim or year-end earnings

With reference to Regulation (EU) No 575/2013 ("CRR"), on 4 February 2015 the European Central Bank issued a Decision establishing the procedures to be followed by banks or banking groups subject to its direct supervision (Regulation (EU) No 468/2014) with regard to the inclusion in Common Equity Tier 1 Capital (CET1) of interim or year-end earnings before a formal decision-making act is taken to confirm the results.

They can only be included (art. 26 CRR) with the prior approval of the Competent Authority, which in this case is the ECB, which verifies if the following conditions are met:

- earnings must be checked and certified by Independent Auditors of the Bank or banking Group;
- the Bank or banking Group must deliver a specific declaration referring to such earnings with reference to the accounting standards applied and the inclusion of foreseeable charges and dividends, the latter calculated on the basis of specific methodologies as indicated.

The Decision also provides the certification model that banks or banking groups must adopt for requesting the authorisation.



The table below provides an illustrative diagram of the main components of the Group's regulatory capital at the reporting date, indicating the values of the capital ratios and the minimum requirements to which they are subject.

<b>Table 12- Template EU CC1: Composition of regulatory own funds (1 of 7)</b>					
		<b>31/12/2023</b>		<b>31/12/2022</b>	
		<b>a</b>	<b>b</b>	<b>a</b>	<b>b</b>
		<b>Amounts</b>	<b>Source based on reference numbers/letters of the balance sheet under the regulatory scope of consolidation</b>	<b>Amounts</b>	<b>Source based on reference numbers/letters of the balance sheet under the regulatory scope of consolidation</b>
<b>Common equity tier 1 (CET1) capital: instruments and reserves</b>					
1	Capital instruments and the related share premium accounts	1,439,106	160. SHARE PREMIUM ACCOUNTS 170. SHARE CAPITAL	1,439,135	160. SHARE PREMIUM ACCOUNTS 170. SHARE CAPITAL
	Of which: ordinary shares	1,439,106		1,439,135	
2	Retained earnings	-		-	
3	Accumulated other comprehensive income (and other reserves)	1,936,084	150. RESERVES 120. VALUATION RESERVES	1,744,185	150. RESERVES 120. VALUATION RESERVES
EU-3a	Funds for general banking risk	-		-	
4	Amount of qualifying items referred to in Article 484 (3) and the related share premium accounts subject to phase out from CET1	-		-	
5	Minority interests (amount allowed in consolidated CET1)	-	190. MINORITY SHAREHOLDERS' EQUITY (+/-)	-	190. MINORITY SHAREHOLDERS' EQUITY (+/-)
EU-5a	Independently reviewed interim profits net of any foreseeable charge or dividend	206,815	200. PROFIT (LOSS) FOR THE PERIOD	128,924	200. PROFIT (LOSS) FOR THE PERIOD
6	<b>COMMON EQUITY TIER 1 (CET1) CAPITAL BEFORE REGULATORY ADJUSTMENTS</b>	<b>3,582,005</b>		<b>3,312,243</b>	

Source: COREP reporting framework - Capital Adequacy: Templates C 01.00 - C 02.00 - C 03.00 - C 04.00 - C 05.01 - C 05.02



**Table 13** - Template EU CC1: Composition of regulatory own funds (2 of 7)

		31/12/2023		31/12/2022	
		a	b	a	b
		Amounts	Source based on reference numbers/letters of the balance sheet under the regulatory scope of consolidation	Amounts	Source based on reference numbers/letters of the balance sheet under the regulatory scope of consolidation
<b>Common Equity Tier 1 (CET1) capital: regulatory adjustments</b>					
7	Additional value adjustments (negative amount)	(4,045)		(3,996)	
8	Intangible assets (net of related tax liability) (negative amount)	(32,744)	100. INTANGIBLE ASSETS	(30,925)	100. INTANGIBLE ASSETS
10	Deferred tax assets that rely on future profitability excluding those arising from temporary differences (net of related tax liability where the conditions in Article 38 (3) are met) (negative amount)	(4,594)	110. TAX ASSETS	(4,596)	110. TAX ASSETS
11	Fair value reserves related to gains or losses on cash flow hedges of financial instruments that are not valued at fair value	-		-	
12	Negative amounts resulting from the calculation of expected loss amounts	-		-	
13	Any increase in equity that results from securitised assets (negative amount)	-		-	
14	Gains or losses on liabilities valued at fair value resulting from changes in own credit standing	-		-	
15	Defined-benefit pension fund assets (negative amount)	-		-	
16	Direct and indirect holdings by an institution of own CET1 instruments (negative amount)	(35,603)	180. TREASURY SHARES (-)	(36,878)	180. TREASURY SHARES (-)
17	Direct, indirect and synthetic holdings of the CET 1 instruments of financial sector entities where those entities have reciprocal cross holdings with the institution designed to inflate artificially the own funds of the institution (negative amount)	-		-	
18	Direct, indirect and synthetic holdings by the institution of the CET1 instruments of financial sector entities where the institution does not have a significant investment in those entities (amount above 10% threshold and net of eligible short positions) (negative amount)	-		-	
19	Direct, indirect and synthetic holdings by the institution of the CET1 instruments of financial sector entities where the institution has a significant investment in those entities (amount above 10% threshold and net of eligible short positions) (negative amount)	(26,779)	70. EQUITY INVESTMENTS	-	70. EQUITY INVESTMENTS

Source: COREP reporting framework - Capital Adequacy: Templates C 01.00 - C 02.00 - C 03.00 - C 04.00 - C 05.01 - C 05.02

**Table 14** - Template EU CC1: Composition of regulatory own funds (3 of 7)

		31/12/2023		31/12/2022	
		a	b	a	b
		Amounts	Source based on reference numbers/letters of the balance sheet under the regulatory scope of consolidation	Amounts	Source based on reference numbers/letters of the balance sheet under the regulatory scope of consolidation
<b>Common Equity Tier 1 (CET1) capital: regulatory adjustments</b>					
EU-20a	Exposure amount of the following items which qualify for a RW of 1250%, where the institution opts for the deduction alternative	-		-	
EU-20b	<i>of which: qualifying holdings outside the financial sector (negative amount)</i>	-		-	
EU-20c	<i>of which: securitisation positions (negative amount)</i>	-		-	
EU-20d	<i>of which: free deliveries (negative amount)</i>	-		-	
21	Deferred tax assets arising from temporary differences (amount above 10% threshold, net of related tax liability where the conditions in Article 38 (3) are met) (negative amount)	-		-	
22	Amount exceeding the 17,65% threshold (negative amount)	-		-	
23	<i>of which: direct, indirect and synthetic holdings by the institution of the CET1 instruments of financial sector entities where the institution has a significant investment in those entities</i>	-		-	
25	<i>of which: deferred tax assets arising from temporary differences</i>	-		-	
EU-25a	Losses for the current financial year (negative amount)	-	200. PROFIT (LOSS) FOR THE PERIOD	-	200. PROFIT (LOSS) FOR THE PERIOD
EU-25b	Foreseeable tax charges relating to CET1 items except where the institution suitably adjusts the amount of CET1 items insofar as such tax charges reduce the amount up to which those items may be used to cover risks or losses (negative amount)	-		-	
27	Qualifying AT1 deductions that exceed the AT1 items of the institution (negative amount)	-		-	
27a	Other regulatory adjustments	34,280		4,039	
28	<b>TOTAL REGULATORY ADJUSTMENTS TO COMMON EQUITY TIER 1 (CET1)</b>	<b>(69,485)</b>		<b>(72,356)</b>	
29	<b>COMMON EQUITY TIER 1 (CET1) CAPITAL</b>	<b>3,512,520</b>		<b>3,239,887</b>	

Source: COREP reporting framework - Capital Adequacy: Templates C 01.00 - C 02.00 - C 03.00 - C 04.00 - C 05.01 - C 05.02



**Table 15** - Template EU CC1: Composition of regulatory own funds (4 of 7)

		31/12/2023		31/12/2022	
		a	b	a	b
		Amounts	Source based on reference numbers/letters of the balance sheet under the regulatory scope of consolidation	Amounts	Source based on reference numbers/letters of the balance sheet under the regulatory scope of consolidation
<b>Capitale aggiuntivo di classe 1 (AT1): strumenti</b>					
30	Capital instruments and the related share premium accounts	-		-	
31	<i>of which: classified as equity under applicable accounting standards</i>	-		-	
32	<i>of which: classified as liabilities under applicable accounting standards</i>	-	10. FINANCIAL LIABILITIES AT AMORTISED COST	-	10. FINANCIAL LIABILITIES AT AMORTISED COST
33	Amount of qualifying items referred to in Article 484 (4) and the related share premium accounts subject to phase out from AT1 as described in Article 486(3) of CRR	-		-	
EU-33a	Amount of qualifying items referred to in Article 494a(1) subject to phase out from AT1	-		-	
EU-33b	Amount of qualifying items referred to in Article 494b(1) subject to phase out from AT1	-		-	
34	Qualifying Tier 1 capital included in consolidated AT1 capital (including minority interests not included in row 5) issued by subsidiaries and held by third parties	-	190. MINORITY SHAREHOLDERS' EQUITY (+/-)	-	190. MINORITY SHAREHOLDERS' EQUITY (+/-)
35	<i>of which: instruments issued by subsidiaries subject to phase out</i>	-		-	
36	<b>ADDITIONAL TIER 1 (AT1) CAPITAL BEFORE REGULATORY ADJUSTMENTS</b>	-		-	

**Table 15** - Template EU CC1: Composition of regulatory own funds (4 of 7)

		31/12/2023		31/12/2022	
		a	b	a	b
		Amounts	Source based on reference numbers/letters of the balance sheet under the regulatory scope of consolidation	Amounts	Source based on reference numbers/letters of the balance sheet under the regulatory scope of consolidation
<b>Additional Tier 1 (AT1) capital: regulatory adjustments</b>					
37	Direct and indirect holdings by an institution of own AT1 instruments (negative amount)	-		-	
38	Direct, indirect and synthetic holdings of the AT1 instruments of financial sector entities where those entities have reciprocal cross holdings with the institution designed to inflate artificially the own funds of the institution (negative amount)	-		-	
39	Direct, indirect and synthetic holdings of the AT1 instruments of financial sector entities where the institution does not have a significant investment in those entities (amount above 10% threshold and net of eligible short positions) (negative amount)	-		-	
40	Direct, indirect and synthetic holdings by the institution of the AT1 instruments of financial sector entities where the institution has a significant investment in those entities (net of eligible short positions) (negative amount)	-		-	
42	Qualifying T2 deductions that exceed the T2 items of the institution (negative amount)	-		-	
42a	Other regulatory adjustments to AT1 capital	-		-	
<b>43</b>	<b>TOTAL REGULATORY ADJUSTMENTS TO ADDITIONAL TIER 1 (AT1) CAPITAL</b>	-		-	
<b>44</b>	<b>ADDITIONAL TIER 1 (AT1) CAPITAL</b>	-		-	
<b>45</b>	<b>TIER 1 CAPITAL (T1 = CET1 + AT1)</b>	<b>3,512,520</b>		<b>3,239,887</b>	

Source: COREP reporting framework - Capital Adequacy: Templates C 01.00 - C 02.00 - C 03.00 - C 04.00 - C 05.01 - C 05.02



**Table 16** - Template EU CC1: Composition of regulatory own funds (5 of 7)

		31/12/2023		31/12/2022	
		a	b	a	b
		Amounts	Source based on reference numbers/letters of the balance sheet under the regulatory scope of consolidation	Amounts	Source based on reference numbers/letters of the balance sheet under the regulatory scope of consolidation
<b>Tier 2 (T2) capital: instruments</b>					
46	Capital instruments and the related share premium accounts	500,000	10. FINANCIAL LIABILITIES AT AMORTISED COST	500,000	10. FINANCIAL LIABILITIES AT AMORTISED COST
47	Amount of qualifying items referred to in Article 484 (5) and the related share premium accounts subject to phase out from T2 as described in Article 486 (4) CRR	-		-	
EU-47a	Amount of qualifying items referred to in Article 494a (2) subject to phase out from T2	-		-	
EU-47b	Amount of qualifying items referred to in Article 494b (2) subject to phase out from T2	-		-	
48	Qualifying own funds instruments included in consolidated T2 capital (including minority interests and AT1 instruments not included in rows 5 or 34) issued by subsidiaries and held by third parties	-	0. MINORITY SHAREHOLDERS' EQUITY (+/-)	-	0. MINORITY SHAREHOLDERS' EQUITY (+/-)
49	<i>of which: instruments issued by subsidiaries subject to phase out</i>	-		-	
50	Credit risk adjustments	47,520		45,732	
<b>51</b>	<b>TIER 2 (T2) CAPITAL BEFORE REGULATORY ADJUSTMENTS</b>	<b>547,520</b>		<b>545,732</b>	
<b>Tier 2 (T2) capital: regulatory adjustments</b>					
52	Direct and indirect holdings by an institution of own T2 instruments and subordinated loans (negative amount)	(6,700)		(6,199)	
53	Direct, indirect and synthetic holdings of the T2 instruments and subordinated loans of financial sector entities where those entities have reciprocal cross holdings with the institution designed to inflate artificially the own funds of the institution (negative amount)	-		-	
54	Direct and indirect holdings of the T2 instruments and subordinated loans of financial sector entities where the institution does not have a significant investment in those entities (amount above 10% threshold and net of eligible short positions) (negative amount)	-		-	

**Table 16** - Template EU CC1: Composition of regulatory own funds (5 of 7)

		31/12/2023		31/12/2022	
		a	b	a	b
		Amounts	Source based on reference numbers/letters of the balance sheet under the regulatory scope of consolidation	Amounts	Source based on reference numbers/letters of the balance sheet under the regulatory scope of consolidation
55	Direct and indirect holdings by the institution of the T2 instruments and subordinated loans of financial sector entities where the institution has a significant investment in those entities (net of eligible short positions) (negative amount)	-		-	
EU-56a	Qualifying eligible liabilities deductions that exceed the eligible liabilities items of the institution (negative amount)	-		-	
EU-56b	Other regulatory adjustments to T2 capital	(151)		(117)	
<b>57</b>	<b>TOTAL REGULATORY ADJUSTMENTS TO TIER 2 (T2) CAPITAL</b>	<b>(6,851)</b>		<b>(6,317)</b>	
<b>58</b>	<b>TIER 2 (T2) CAPITAL</b>	<b>540,670</b>		<b>539,416</b>	
<b>59</b>	<b>TOTAL CAPITAL (TC = T1 + T2)</b>	<b>4,053,189</b>		<b>3,779,302</b>	
<b>60</b>	<b>TOTAL RISK EXPOSURE AMOUNT</b>	<b>22,855,291</b>		<b>21,049,013</b>	

Source: COREP reporting framework - Capital Adequacy: Templates C 01.00 - C 02.00 - C 03.00 - C 04.00 - C 05.01 - C 05.02



**Table 17** - Template EU CC1: Composition of regulatory own funds (6 of 7)

		31/12/2023		31/12/2022	
		a	b	a	b
		Amounts	Source based on reference numbers/letters of the balance sheet under the regulatory scope of consolidation	Amounts	Source based on reference numbers/letters of the balance sheet under the regulatory scope of consolidation
<b>Capital ratios and requirements including buff</b>					
61	Common Equity Tier 1 (as a percentage of total risk exposure amount)	15.3685%		15.3921%	
62	Tier 1 (as a percentage of total risk exposure amount)	15.3685%		15.3921%	
63	Total capital (as a percentage of total risk exposure amount)	17.7341%		17.9548%	
64	Institution CET1 overall capital requirements	8.5321%		8.5627%	
65	<i>of which: capital conservation buffer requirement</i>	2.5000%		2.5000%	
66	<i>of which: countercyclical buffer requirement</i>	0.0359%		0.0045%	
67	<i>of which: systemic risk buffer requirement</i>	-		-	
EU-67a	<i>of which: Global Systemically Important Institution (G-SII) or Other Systemically Important Institution (O-SII) buffer</i>	-		-	
EU-67b	<i>of which: additional own funds requirements to address the risks other than the risk of excessive leverage</i>	1.4963%		1.5581%	
<b>68</b>	<b>COMMON EQUITY TIER 1 AVAILABLE TO MEET BUFFER (AS A PERCENTAGE OF RISK EXPOSURE AMOUNT)</b>	<b>7.0741%</b>		<b>9.3340%</b>	
<b>Amounts below the thresholds for deduction (before risk weighting)</b>					
72	Direct and indirect holdings of own funds and eligible liabilities of financial sector entities where the institution does not have a significant investment in those entities (amount below 10% threshold and net of eligible short positions)	271,597		288,008	
73	Direct and indirect holdings by the institution of the CET1 instruments of financial sector entities where the institution has a significant investment in those entities (amount below 17.65% thresholds and net of eligible short positions)	348,485		321,523	
75	Direct and indirect holdings of own funds and eligible liabilities of financial sector entities where the institution does not have a significant investment in those entities (amount below 10% threshold and net of eligible short positions)	87,038		83,652	

Source: COREP reporting framework - Capital Adequacy: Templates C 01.00 - C 02.00 - C 03.00 - C 04.00 - C 05.01 - C 05.02



**Table 18** - Template EU CC1: Composition of regulatory own funds (7 of 7)

		31/12/2023		31/12/2022	
		a	b	a	b
		Amounts	Source based on reference numbers/letters of the balance sheet under the regulatory scope of consolidation	Amounts	Source based on reference numbers/letters of the balance sheet under the regulatory scope of consolidation
<b>Applicable caps on the inclusion of provisions in TIER 2</b>					
76	Credit risk adjustments included in T2 in respect of exposures subject to standardised approach (prior to the application of the cap)	-		-	
77	Cap on inclusion of credit risk adjustments in T2 under standardised approach	-		-	
78	Credit risk adjustments included in T2 in respect of exposures subject to internal ratings-based approach (prior to the application of the cap)	354,106		306,569	
79	Cap for inclusion of credit risk adjustments in T2 under internal ratings-based approach	47,520		45,732	
<b>Capital instruments subject to phase-out arrangements (only applicable between 1 Jan 2014 and 1 Jan 2022)</b>					
80	Current cap on CET1 instruments subject to phase out arrangements	-		-	
81	Amount excluded from CET1 due to cap (excess over cap after redemptions and maturities)	-		-	
82	Current cap on AT1 instruments subject to phase out arrangements	-		-	
83	Amount excluded from AT1 due to cap (excess over cap after redemptions and maturities)	-		-	
84	Current cap on T2 instruments subject to phase out arrangements	-		-	
85	Amount excluded from T2 due to cap (excess over cap after redemptions and maturities)	-		-	

Source: COREP reporting framework - Capital Adequacy: Templates C 01.00 - C 02.00 - C 03.00 - C 04.00 - C 05.01 - C 05.02

The table below shows the reconciliation of the elements making up regulatory capital, as well as the filters and deductions applied to them, indicated in the previous template with the relevant items in the Group's balance sheet at the reference date, taking into account the differences in the areas of consolidation for balance sheet and prudential purposes.



**Table 19** - Template EU CC2: Reconciliation of regulatory own funds to balance sheet in the audited financial statements

	31/12/2023			31/12/2022			
	a	b	c	a	b	c	
	Balance sheet as in published financial statements	Under regulatory scope of consolidation	Reference	Balance sheet as in published financial statements	Under regulatory scope of consolidation	Reference	
	As at period end	As at period end		As at period end	As at period end		
<b>Assets - Breakdown by asset classes according to the balance sheet in the published financial statements</b>							
70.	EQUITY INVESTMENTS	376,357	464,125	19	322,632	387,186	19
100.	INTANGIBLE ASSETS	37,756	32,744	8	36,669	30,925	8
	- Goodwill	16,997	12,632	8	16,997	12,632	8
	- Other intangible assets	20,759	20,112	8	19,672	18,293	8
110.	TAX ASSETS	260,813	260,071	10	342,647	342,522	10
b)	Advanced	259,438	258,725	10	324,993	324,979	10
	<b>TOTAL ASSETS</b>	<b>674,926</b>	<b>756,940</b>		<b>701,948</b>	<b>760,633</b>	
<b>Liabilities - Breakdown by liability classes according to the balance sheet in the published financial statements</b>							
10.	FINANCIAL LIABILITIES AT AMORTISED COST	52,310,486	52,313,496	32.46	53,152,710	53,152,732	32.46
c)	Securities issued	4,476,510	4,476,510	32.46	3,648,761	3,648,761	32.46
120.	VALUATION RESERVES	(16,222)	(16,420)	3	(68,086)	(68,281)	3
150.	RESERVES	1,950,646	1,952,748	3	1,790,468	1,789,291	3
160.	SHARE PREMIUM ACCOUNTS	78,949	78,949	1	78,978	78,978	1
170.	SHARE CAPITAL	1,360,157	1,360,157	1	1,360,157	1,360,147	1
180.	TREASURY SHARES (-)	(25,418)	(25,417)	16	(25,402)	(25,401)	16
190.	MINORITY SHAREHOLDERS' EQUITY (+/-)	14	5	5. 34. 48	4	5	5. 34. 48
<b>Shareholders' Equity</b>							
200.	PROFIT (LOSS) FOR THE PERIOD	461,162	461,210	5a	251,321	255,691	5a
	<b>TOTAL LIABILITIES AND SHAREHOLDERS' EQUITY</b>	<b>56,119,774</b>	<b>56,124,729</b>		<b>56,540,150</b>	<b>56,543,161</b>	

Source: Consolidated balance sheet, FINREP reporting framework

Note: Total assets and liabilities are the sum of only the items listed in the table

The portion of profits net of distributable dividends contributed to the composition of own funds as at 31 December 2023. The portion of period profits calculated by the Group among the positive elements of regulatory capital was authorised by the European Central Bank in compliance with the provisions of art. 26, para. 2 of Regulation (EU) No 575 of 26/6/2013 (“CRR”) for the purpose of determining the Common Equity Tier 1 Capital.

Compared to the end of 2022, there was significant strengthening of capital resources of better quality, which also continued in the last quarter of the financial year, mainly due to the effects of the inclusion of profits for the period intended for self-financing. The availability of additional Tier 2 capital is stable.

As at 31 December 2023, the Group’s capital ratios calculated in the phased-in version remained at high values with a wide margin over regulatory requirements. Despite an increase in the total amount of risk exposure, particularly accentuated in the fourth quarter of the year, the CET1 Ratio and Tier 1 Ratio – both at 15.37% (16.27% as at 30 September 2023) – and the Total Capital Ratio at 17.73% (18.84 as at 30 September 2023) remained in line with the values recorded at the end of the previous year. In a fully loaded version, the ratios are 15.13% and 17.50%, respectively.

**Table 20** - Template EU CCA: Main features of regulatory own funds instruments and eligible liabilities instruments (1 of 2)

		a	b	c
1	Issuer	Banca Popolare di Sondrio spa	Banca Popolare di Sondrio spa	Banca Popolare di Sondrio spa
2	Unique identifier (eg CUSIP, ISIN or Bloomberg identifier for private placement)	IT0000784196	XS2034847637	XS2411537033
2a	Public or private placement	Public	Public	Public
3	Governing law(s) of the instrument	Italian law	Italian law	Italian law
3a	Contractual recognition of write down and conversion powers of resolution authorities	N/A	Yes	Yes
<b>Regulatory treatment</b>				
4	Current treatment taking into account, where applicable, transitional CRR rules	CET1	Tier 2	capitale di classe 2
5	Post-transitional CRR rules	CET1	Tier 2	capitale di classe 2
6	Eligible at solo/(sub-)consolidated/ solo&(sub-)consolidated	Solo and Consolidated	Solo and Consolidated	singolo ente e (sub-) consolidamento
7	Instrument type (types to be specified by each jurisdiction)	Ordinary shares	Tier 2 - (CRR, art.63)	Strumenti di classe 2 (CRR, art.63)
8	Amount recognised in regulatory capital or eligible liabilities (Currency in million, as of most recent reporting date)	1,324	199	300
9	Nominal amount of instrument	1,360	200	300
EU-9a	Issue price	N/A	100	100
EU-9b	Redemption price	N/A	100	100
10	Accounting classification	Equity	Liabilities - amortized cost	passività-costo ammortizzato
11	Original date of issuance	N/A	30/07/2019	25/11/2021
12	Perpetual or dated	Perpetual	Dated	a scadenza
13	Original maturity date	Without expiration	30/07/2029	25/02/2032
14	Issuer call subject to prior supervisory approval	no	No	No
15	Optional call date, contingent call dates and redemption amount	N/A	N/A	N/A
16	Subsequent call dates, if applicable	N/A	N/A	N/A



**Table 21** - Template EU CCA: Main features of regulatory own funds instruments and eligible liabilities instruments (2 of 2)

		a	b	c
<b>Coupons / dividends</b>				
17	Fixed or floating dividend/coupon	Floating	Fixed	Fixed
18	Coupon rate and any related index	N/A	6,25%	3,875%
19	Existence of a dividend stopper	no	no	no
EU-20a	Fully discretionary, partially discretionary or mandatory (in terms of timing)	Fully discretionary	Mandatory	Mandatory
EU-20b	Fully discretionary, partially discretionary or mandatory (in terms of amount)	Fully discretionary	Mandatory	Mandatory
21	Existence of step up or other incentive to redeem	no	no	no
22	Noncumulative or cumulative	Non cumulative	Non cumulative	Non cumulative
23	Convertible or non-convertible	Non convertible	Non convertible	Non convertible
24	If convertible, conversion trigger(s)	N/A	N/A	N/A
25	If convertible, fully or partially	N/A	N/A	N/A
26	If convertible, conversion rate	N/A	N/A	N/A
27	If convertible, mandatory or optional conversion	N/A	N/A	N/A
28	If convertible, specify instrument type convertible into	N/A	N/A	N/A
29	If convertible, specify issuer of instrument it converts into	N/A	N/A	N/A
30	Write-down features	no	no	no
31	If write-down, write-down trigger(s)	N/A	N/A	N/A
32	If write-down, full or partial	N/A	N/A	N/A
33	If write-down, permanent or temporary	N/A	N/A	N/A
34	If temporary write-down, description of write-up mechanism	N/A	N/A	N/A
34a	Type of subordination (only for eligible liabilities)	N/A	Contractual	Contractual
EU-34b	Ranking of the instrument in normal insolvency proceedings	Rank 1	Rank 2	Rank 2
35	Position in subordination hierarchy in liquidation (specify instrument type immediately senior to instrument)	Additional Tier 1	Senior	Senior
36	Non-compliant transitioned features	no	no	no
37	If yes, specify non-compliant features	N/A	N/A	N/A
37a	Link to the full term and conditions of the instrument (signposting)	N/A	<a href="https://istituzionale.popso.it/it/investor-relations/operazioni-finanziarie">https://istituzionale.popso.it/it/investor-relations/operazioni-finanziarie</a> (sezione Programma EMTN)	<a href="https://istituzionale.popso.it/it/investor-relations/operazioni-finanziarie">https://istituzionale.popso.it/it/investor-relations/operazioni-finanziarie</a> (sezione Programma EMTN)

## Section 5

# Disclosure of capital buffers (art. 440 CRR/CRR II)

The imposition of additional capital buffers with respect to minimum requirements is designed to provide banks with high quality capital to be used in times of market tension to prevent general disruptions of the banking system and avoid interruptions in the credit disbursement process, as well as to face risks arising from the systemic relevance of certain intermediaries at global or domestic level.

In this context, the countercyclical capital buffer (CCyB) has the purpose of protecting the banking sector in the phases of excessive credit growth; its imposition, in fact, allows banks, during phases of overheating of the credit cycle, to accumulate enough Common Equity Tier 1 capital to absorb losses in a downturn cycle.

As established in Article 140 (1) of Directive 2013/36/EU ("CRD IV"), supervised entities are required to hold a countercyclical capital buffer equal to their overall risk exposure (in terms of risk weighted assets) multiplied by a specific countercyclical coefficient. The European legislation on the countercyclical buffer was implemented in Italy with Bank of Italy Circular No. 285/2013.

Like the other national authorities designated by individual member states of the Single Supervisory Mechanism, Bank of Italy has the obligation to determine quarterly the countercyclical coefficient applicable for the Italian banking system regulations and to monitor the congruity of the analogous coefficients applied by other countries, both EU and non-EU. The specific countercyclical coefficient of each supervised institution is equivalent to the weighted average of the coefficients applied in the countries where it has its significant credit exposures.

The Bank of Italy has set at 0% the countercyclical buffer coefficient to be applied by national intermediaries to the exposures held with Italian counterparties as at 31 December 2023, the same as for the previous quarters of the reference year<sup>15</sup>.

The tables below show the geographical distribution of credit exposures relevant for the purposes of determining the Group's specific countercyclical capital buffer and the main elements used to calculate the amount of the buffer at the reporting date.

<sup>15</sup> In an announcement issued on 22 December 2023, the Bank of Italy decided to keep the Countercyclical Capital Buffer (CCyB) unchanged at a level of 0% for the first quarter of 2024 as well. However, it also announced that a comprehensive reassessment of the methodological framework for the use of the CCyB was being undertaken, in order to verify whether that currently used is still adequate for the purposes of the reserve. The announcement states that the work will also take into account the Basel Committee's recognition of the possibility – already applied by some countries – of introducing a positive capital buffer even under normal conditions, i.e. when cyclical risks are balanced (neither high nor low; "positive cycle-neutral CCyB").



**Table 22 - Template EU CCyB1: Geographical distribution of credit exposures relevant for the calculation of the countercyclical buffer (1 of 2)**

	a	b	c	d	e	f
	Exposures in the banking book		Exposures in the trading book		Exposures in securitisation	Total exposure value
	Exposure value under SA approach	Exposure value under AIRB approach	Sum of long and short positions	Exposure value under internal models		
Italy	6,623,799	26,375,626	17,443	-	1,367,025	34,383,893
Australia	39,998	343	-	-	-	40,341
Bulgaria	520	54	-	-	-	574
Cyprus	7	44	-	-	-	52
Czech Republic	3,627	-	-	-	-	3,627
Germany	114,390	10,445	-	-	-	124,835
Denmark	35,121	162	-	-	-	35,283
Estonia	112	526	-	-	-	638
France	155,885	17,471	-	-	-	173,356
United Kingdom	113,504	18,251	-	-	-	131,755
Hong Kong	1,872	350	-	-	-	2,222
Croatia	3,288	-	-	-	-	3,288
Ireland	27,009	756	-	-	-	27,765
Iceland	1,360	-	-	-	-	1,360
Lithuania	1,867	-	-	-	-	1,867
Luxembourg	639	51,747	-	-	-	52,386
Netherlands	83,135	9,186	-	-	-	92,322
Norway	2,318	567	-	-	-	2,886
Romania	32,530	-	-	-	-	32,530
Sweden	15,916	1,397	-	-	-	17,313
Slovenia	3,076	-	-	-	-	3,076
Slovakia	1,505	1,498	-	-	-	3,004
Other countries	6,787,818	268,218	-	-	-	7,056,036
<b>TOTAL</b>	<b>14,049,296</b>	<b>26,756,643</b>	<b>17,443</b>	<b>-</b>	<b>1,367,025</b>	<b>42,190,407</b>

Source: COREP reporting framework - Breakdown of credit exposures relevant for the calculation of the countercyclical buffer by country: Template C 09.04

**Table 23** - Template EU CCyB1: Geographical distribution of credit exposures relevant for the calculation of the countercyclical buffer (2 of 2)

	g	h	i	j	k	l	m
	Own funds requirement						
	of which: generic credit exposures	of which: credit exposures of the trading book	of which: securitisation positions in the banking book	Total	Risk- weighted exposure amounts	Weighting factors of own fund requirement	Counter- cyclical coefficient
Italy	1,124,159	1,395	21,419	1,146,973	14,337,168	79.6546%	-
Australia	3,202	-	-	3,202	40,028	0.2224%	1.0000%
Bulgaria	40	-	-	40	502	0.0028%	2.0000%
Cyprus	1	-	-	1	11	0.0001%	0.5000%
Czech Republic	290	-	-	290	3,626	0.0201%	2.0000%
Germany	8,221	-	-	8,221	102,765	0.5709%	0.7500%
Denmark	2,813	-	-	2,813	35,161	0.1954%	2.5000%
Estonia	22	-	-	22	276	0.0015%	1.5000%
France	8,035	-	-	8,035	100,434	0.5580%	0.5000%
United Kingdom	7,013	-	-	7,013	87,668	0.4871%	2.0000%
Hong Kong	158	-	-	158	1,971	0.0110%	1.0000%
Croatia	263	-	-	263	3,288	0.0183%	1.0000%
Ireland	2,173	-	-	2,173	27,159	0.1509%	1.0000%
Iceland	109	-	-	109	1,360	0.0076%	2.0000%
Lithuania	149	-	-	149	1,867	0.0104%	1.0000%
Luxembourg	980	-	-	980	12,251	0.0681%	0.5000%
Netherlands	6,453	-	-	6,453	80,657	0.4481%	1.0000%
Norway	188	-	-	188	2,354	0.0131%	2.5000%
Romania	2,601	-	-	2,601	32,508	0.1806%	1.0000%
Sweden	1,296	-	-	1,296	16,206	0.0900%	2.0000%
Slovenia	246	-	-	246	3,076	0.0171%	0.5000%
Slovakia	145	-	-	145	1,807	0.0100%	1.5000%
Other countries	248,563	-	-	248,563	3,107,034	17.2621%	-
<b>TOTAL</b>	<b>1,417,120</b>	<b>1,395</b>	<b>21,419</b>	<b>1,439,934</b>	<b>17,999,176</b>	<b>100.0000%</b>	

Source: COREP reporting framework - Breakdown of credit exposures relevant for the calculation of the countercyclical buffer by country: Template C 09.04

**Table 24** - Template EU CCyB2: Amount of institution-specific countercyclical capital buffer

	a
1 Total risk exposure amount (RWA)	22,855,291
2 Specific countercyclical coefficient of the institution	0.0359%
<b>3 SPECIFIC COUNTERCYCLICAL CAPITAL BUFFER REQUIREMENT OF THE INSTITUTION</b>	<b>8,194</b>

Source: COREP reporting framework - Amount of exposure to risk: Template C 02.00 and Memorandum Items: Template C 04.00

Compared to the previous disclosure at the end of 2022, in 2023 the Group's specific countercyclical ratio increased, resulting in a higher reserve requirement to be held as at 31 December 2023.



## Section 6

### Disclosure of leverage ratio (art. 451 CRR/CRR II)

Regulation (EU) No 575/2013 (“CRR”), as partially amended by Delegated Regulation (EU) No 2015/62, brought into effect from 1 January 2014 introducing the requirement for supervised entities to calculate a specific Leverage Ratio in order to limit the build-up of an excessive leverage, namely a particularly high level of indebtedness compared with Own Funds which can make a bank vulnerable.

The indicator, which was implemented as part of the Basel 3 framework, is a simple backstop measure aimed at complementing the traditional risk-based capital requirements. The main objectives of its calculation and monitoring are to:

- prevent unsustainable leverage accumulation and, hence, mitigate the impact of sudden deleveraging processes, as experienced during the last global crisis;
- act as a constraint against model risk and measurement errors related to current systems to calculate risk-weighted assets, underlying the way in which capital ratios are determined.

The Leverage Ratio is calculated quarterly as the ratio between a measure of high-quality capital (Tier 1 Capital) and an exposure measure, expressed as a percentage. The exposure measure includes both on-balance sheet exposures and off-balance sheet items; the latter, which are calculated by applying defined “credit conversion factors” to the relevant notional amount of each OBS item, mainly consist of credit commitments (e.g. disbursements related to undrawn portions of credit lines available to customers), guarantees and exposures in derivative instruments.

To cope with the risk of excessive leverage, banks must have company policies and procedures aimed at identifying, managing and adequately monitoring the exposure.

The Group, in order to manage and contain the risk of excessive leverage, has included the Leverage Ratio among key indicators of its Risk Appetite Framework (RAF). The governance rules of the RAF provide appropriate escalation mechanisms to ensure an adequate and timely response to the exceeding of established limits and trigger levels. In addition, the Group, with a view to conservative risk management, pays special attention to the dynamics of assets and the potential erosion of the capital base due to the recognition of expected or realised losses.

Regulation (EU) No 876/2019 (“CRR II”) of the European Parliament and of the Council of 20 May 2019, in amending the disposals of the “CRR”, introduced from 28 June 2021 a minimum Pillar 1 leverage requirement of 3% that all banks operating within the EU are required to meet on an ongoing basis.

The tables below summarise the main information on the Group’s Leverage Ratio as at 31 December 2023 specifically concerning:

- reconciliation of the measure of overall exposure to the denominator of the ratio and the accounting assets as per the latest published consolidated financial statement;
- breakdown of the components of the overall exposure measure, as well as information on the value assumed by the ratio and the minimum leverage requirements applicable;
- breakdown of on-balance sheet exposures that constitute the ratio overall exposure measure.



**Table 25** - Template EU LR1 - LRSum: Summary reconciliation of accounting assets and leverage ratio exposures

		<b>a</b>	<b>b</b>
		<b>Applicable amount</b>	
		<b>31/12/2023</b>	<b>30/06/2023</b>
1	Total assets as per published financial statements	57,719,158	53,970,919
2	Adjustment for entities which are consolidated for accounting purposes but are outside the scope of prudential consolidation	(8,242)	(23,035)
3	(Adjustment for securitised exposures that meet the operational requirements for the recognition of risk transference)	-	-
4	(Adjustment for temporary exemption of exposures to central bank (if applicable))	-	-
5	(Adjustment for fiduciary assets recognised on the balance sheet pursuant to the applicable accounting framework but excluded from the leverage ratio total exposure measure in accordance with point (i) of Article 429a(1) CRR)	-	-
6	Adjustment for regular-way purchases and sales of financial assets subject to trade date accounting	-	-
7	Adjustment for eligible cash pooling transactions	-	-
8	Adjustments for derivative financial instruments	52,154	72,246
9	Adjustment for securities financing transactions (SFTs)	80,040	62,266
10	Adjustment for off-balance sheet items (ie conversion to credit equivalent amounts of off-balance sheet exposures)	5,702,758	5,297,862
11	(Adjustment for prudent valuation adjustments and specific and general provisions which have reduced Tier 1 capital)	-	-
EU-11a	(Adjustment for exposures excluded from the leverage ratio total exposure measure in accordance with point (c ) of Article 429a(1) CRR)	-	-
EU-11b	(Adjustment for exposures excluded from the leverage ratio total exposure measure in accordance with point (j) of Article 429a(1) CRR)	-	-
12	Other adjustments	(191,087)	(106,261)
<b>13</b>	<b>TOTAL EXPOSURE MEASURE</b>	<b>63,354,781</b>	<b>59,273,997</b>

Source: COREP reporting framework - Capital Adequacy: Templates C 01.00 - C 40.00 - C 47.00 and FINREP reporting framework - Balance sheet: Template F 01.00



**Table 26 - Template EU LR2 - LRCom: Leverage ratio common disclosure (1 of 3)**

		<b>a</b>	<b>b</b>
		<b>CRR leverage ratio exposures</b>	
		<b>31/12/2023</b>	<b>30/06/2023</b>
<b>On-balance sheet exposures (excluding derivatives and SFTs)</b>			
1	On-balance sheet items (excluding derivatives, SFTs, but including collateral)	57,467,738	53,739,571
2	Gross-up for derivatives collateral provided where deducted from the balance sheet assets pursuant to the applicable accounting framework	-	-
3	(Deductions of receivables assets for cash variation margin provided in derivatives transactions)	-	-
4	Adjustment for securities received under securities financing transactions that are recognised as an asset	-	-
5	(General credit risk adjustments to on-balance sheet items)	-	-
6	(Asset amounts deducted in determining Tier 1 capital)	-	-
<b>7</b>	<b>TOTAL ON-BALANCE SHEET EXPOSURES (EXCLUDING DERIVATIVES AND SFTS)</b>	<b>57,467,738</b>	<b>53,739,571</b>
<b>Derivative exposures</b>			
8	Replacement cost associated with SA-CCR derivatives transactions (ie net of eligible cash variation margin)	31,297	48,419
EU-8a	Derogation for derivatives: replacement costs contribution under the simplified standardised approach	402	10,064
9	Add-on amounts for potential future exposure associated with SA-CCR derivatives transactions	43,212	58,412
EU-9a	Derogation for derivatives: Potential future exposure contribution under the simplified standardised approach	34,224	57,403
EU-9b	Exposure determined under Original Exposure Method	-	-
10	(Exempted CCP leg of client-cleared trade exposures) (SA-CCR)	-	-
EU-10a	(Exempted CCP leg of client-cleared trade exposures) (simplified standardised approach)	-	-
EU-10b	(Exempted CCP leg of client-cleared trade exposures) (original exposure method)	-	-
11	Adjusted effective notional amount of written credit derivatives	-	-
12	(Adjusted effective notional offsets and add-on deductions for written credit derivatives)	-	-
<b>13</b>	<b>TOTAL DERIVATIVES EXPOSURES</b>	<b>109,136</b>	<b>174,298</b>
<b>Securities financing transaction (SFT) exposures</b>			
14	Gross SFT assets (with no recognition of netting), after adjustment for sales accounting transactions	-	-
15	(Netted amounts of cash payables and cash receivables of gross SFT assets)	-	-
16	Counterparty credit risk exposure for SFT assets	80,040	62,266
EU-16a	Derogation for SFTs: Counterparty credit risk exposure in accordance with Articles 429e(5) and 222 CRR	-	-
17	Agent transaction exposures	-	-
EU-17a	(Exempted CCP leg of client-cleared SFT exposure)	-	-
<b>18</b>	<b>TOTAL SECURITIES FINANCING TRANSACTION EXPOSURES</b>	<b>80,040</b>	<b>62,266</b>

Source: COREP reporting framework - Calculation of the Leverage Ratio: Templates C 47.00 - C 40.00 - C 48.00 - C 48.01 - C 48.02

**Table 27** - Template EU LR2 - LRCom: Leverage ratio common disclosure (2 of 3)

		a	b
		CRR leverage ratio exposures	
		31/12/2023	30/06/2023
<b>Other off-balance sheet exposures</b>			
19	Off-balance sheet exposures at gross notional amount	25,376,240	23,343,396
20	(Adjustments for conversion to credit equivalent amounts)	(19,678,373)	(18,045,534)
21	(General provisions deducted in determining Tier 1 capital and specific provisions associated with off-balance sheet exposures)	-	-
<b>22</b>	<b>OFF-BALANCE SHEET EXPOSURES</b>	<b>5,697,867</b>	<b>5,297,862</b>
<b>Esposizioni escluse</b>			
EU-22a	(Exposures excluded from the leverage ratio total exposure measure in accordance with point (c) of Article 429a(1) CRR)	-	-
EU-22b	(Exposures exempted in accordance with point (j) of Article 429a (1) CRR (on and off balance sheet))	-	-
EU-22c	(Excluded exposures of public development banks (or units) - Public sector investments)	-	-
EU-22d	(Excluded exposures of public development banks (or units) - Promotional loans)	-	-
EU-22e	(Excluded passing-through promotional loan exposures by non-public development banks (or units))	-	-
EU-22f	(Excluded guaranteed parts of exposures arising from export credits )	-	-
EU-22g	(Excluded excess collateral deposited at triparty agents )	-	-
EU-22h	(Excluded CSD related services of CSD/institutions in accordance with point (o) of Article 429a(1) CRR)	-	-
EU-22i	(Excluded CSD related services of designated institutions in accordance with point (p) of Article 429a(1) CRR)	-	-
EU-22j	(Reduction of the exposure value of pre-financing or intermediate loans )	-	-
<b>EU-22k</b>	<b>(TOTAL EXEMPTED EXPOSURES)</b>	<b>-</b>	<b>-</b>
<b>Capital and total exposure measure</b>			
<b>23</b>	<b>TIER 1 CAPITAL</b>	<b>3,512,520</b>	<b>3,334,280</b>
<b>24</b>	<b>TOTAL EXPOSURE MEASURE</b>	<b>63,354,781</b>	<b>59,273,997</b>
<b>Leverage ratio</b>			
25	Leverage ratio	5.5442%	5.6252%
EU-25	Leverage ratio (excluding the impact of the exemption of public sector investments and promotional loans) (%)	5.5442%	5.6252%
25a	Leverage ratio (excluding the impact of any applicable temporary exemption of	5.5442%	5.6252%
26	central bank reserves)	3.0000%	3.0000%
EU-26a	Regulatory minimum leverage ratio requirement (%)	-	-
EU-26b	<i>Additional own funds requirements to address the risk of excessive leverage (%)</i>	-	-
27	of which: to be made up of CET1 capital	-	-
EU-27a	Leverage ratio buffer requirement (%)	3.0000%	3.0000%
<b>Choice on transitional arrangements and relevant exposures</b>			
EU-27b	Choice on transitional arrangements for the definition of the capital measure	Transitional arrangements	Transitional arrangements

Source: COREP reporting framework - Calculation of the Leverage Ratio: Templates C 47.00 - C 40.00 - C 48.00 - C 48.01 - C 48.02



**Table 28** - Template EU LR2 - LRCom: Leverage ratio common disclosure (3 of 3)

		<b>a</b>	<b>b</b>
		<b>CRR leverage ratio exposures</b>	
		<b>31/12/2023</b>	<b>30/06/2023</b>
<b>Disclosure of mean values</b>			
28	Mean value of gross SFT assets, after adjustment for sale accounting transactions and netted of amounts of associated cash payables and cash receivables	32,609	3,572
29	Quarter-end value of gross SFT assets, after adjustment for sale accounting transactions and netted of amounts of associated cash payables and cash receivables	-	-
30	Total exposure measure (including the impact of any applicable temporary exemption of central bank reserves) incorporating mean values from row 28 of gross SFT assets (after adjustment for sale accounting transactions and netted of amounts of associated cash payables and cash receivables)	63,387,390	59,277,568
30a	Total exposure measure (excluding the impact of any applicable temporary exemption of central bank reserves) incorporating mean values from row 28 of gross SFT assets (after adjustment for sale accounting transactions and netted of amounts of associated cash payables and cash receivables)	63,387,390	59,277,568
31	Leverage ratio (including the impact of any applicable temporary exemption of central bank reserves) incorporating mean values from row 28 of gross SFT assets (after adjustment for sale accounting transactions and netted of amounts of associated cash payables and cash receivables)	5.5414%	5.6249%
31a	Leverage ratio (excluding the impact of any applicable temporary exemption of central bank reserves) incorporating mean values from row 28 of gross SFT assets (after adjustment for sale accounting transactions and netted of amounts of associated cash payables and cash receivables)	5.5414%	5.6249%

Source: COREP reporting framework - Calculation of the Leverage Ratio: Templates C 47.00 - C 40.00 - C 48.00 - C 48.01 - C 48.02

**Table 29** - Template EU LR3 - LRSpl: Split-up of on balance sheet exposures (excluding derivatives, SFTs and exempted exposures)

		a	b
		CRR leverage ratio exposures	CRR leverage ratio exposures
		31/12/2023	30/06/2023
<b>EU-1</b>	<b>TOTAL ON-BALANCE SHEET EXPOSURES (EXCLUDING DERIVATIVES, SFTS, AND EXEMPTED EXPOSURES), OF WHICH:</b>	<b>57,467,738</b>	<b>53,739,571</b>
EU-2	Trading book exposures	132,247	141,942
EU-3	Banking book exposures, of which:	57,335,490	53,597,629
EU-4	<i>Covered bonds</i>	<i>267,745</i>	<i>229,800</i>
EU-5	<i>Exposures treated as sovereigns</i>	<i>16,959,876</i>	<i>14,393,729</i>
EU-6	<i>Exposures to regional governments, MDB, international organisations and PSE not treated as sovereigns</i>	<i>440,516</i>	<i>679,613</i>
EU-7	<i>Institutions</i>	<i>3,721,270</i>	<i>3,262,679</i>
EU-8	<i>Secured by mortgages of immovable properties</i>	<i>12,341,971</i>	<i>12,498,661</i>
EU-9	<i>Retail exposures</i>	<i>4,579,715</i>	<i>4,555,521</i>
EU-10	<i>Corporates</i>	<i>14,336,298</i>	<i>13,041,614</i>
EU-11	<i>Exposures in default</i>	<i>554,565</i>	<i>578,425</i>
EU-12	<i>Other exposures (eg equity, securitisations, and other non-credit obligation assets)</i>	<i>4,133,535</i>	<i>4,357,588</i>

Source: COREP reporting framework - Exposures by Leverage Ratio: Template C 43.00

The Group's leverage ratio, calculated by applying the transitional criteria in force for the financial year 2023 (phased-in), decreased by approximately 8 basis points compared to the mid-year figure (+40 bps compared to the index value at the end of 2022).

The half-year performance is linked to a significant increase in assets at the denominator of the ratio, following an expansion of loans and deposits in equal measure; Tier 1 capital at the numerator is also up, albeit proportionally less than assets.



## Section 7

# Disclosure of liquidity requirements (art. 451 bis CRR/CRR II)

The Group regularly monitors its exposure to liquidity risk and the adequacy of the related management and mitigation systems from a current, prospective and stressed perspective, according to the procedures described in greater detail in the previous Section 2, using metrics calculated for both regulatory and internal purposes, the latter defined on the basis of operational specificities and the range of activities performed by the Group.

At an operational level, liquidity management is carried out by Group companies through dedicated business structures; in this context, the Parent Company acts as a fund-raising preferential counterparty for its subsidiaries, intervening to cover part of their liquidity needs, as well as in the eventual use of liquidity surplus.

In compliance with the provisions dictated by EU regulations, Banca Popolare di Sondrio calculates and monitors at a consolidated level, the concise liquidity indicators Liquidity Coverage Ratio and Net Stable Funding Ratio.

The Liquidity Coverage Ratio (LCR) represents the short-term liquidity coverage requirement determined in accordance with Part Six of the “CRR” Regulation, as subsequently supplemented by Delegated Regulation (EU) 2015/61 of 10 October 2014, which in turn was partially amended by Delegated Regulation (EU) 2018/1620 of 13 July 2018. It is the ratio of the stock of high-quality liquid assets to the total amount of net cash outflows (algebraic sum of inflows and expected cash outflows) over the next 30 calendar days. The benchmark aims to ensure the ability of banking firms to survive a severe, short-term shock by ensuring that they maintain an adequate level of high-quality liquid assets that can be readily converted into cash to meet the very short-term needs that could arise under a particularly acute liquidity stress scenario. This ratio is subject to a minimum regulatory requirement of 100%.

The Net Stable Funding Ratio (NSFR) represents the net stable medium to long-term funding ratio determined in accordance with Part Six of the “CRR” Regulations, as amended by the “CRR II” Regulations dated 20 May 2019, the application of which started with effect from the reporting date of 30 June 2021. This is the ratio of the available amount of stable funding to the required amount of stable funding. It is intended as an additional mechanism of the LCR index with a view to favouring a more stable and longer-term financing of company assets, offsetting the incentives that banking institutions would have to finance their stock of liquid assets with short-term funds due to expire immediately after the 30-day horizon. In particular, the NSFR requirement, which should always be kept equal to or greater than 100%, is such as to ensure that long-term assets are financed with at least a minimum amount of stable liabilities in relation to the respective liquidity risk profiles.

Overall, the liquidity conditions of the Group are adequate both in the short term (“operational liquidity”) and in the long term (“structural liquidity”), with broad compliance with the minimum levels imposed by regulations for LCR and NSFR ratios.

The tables below show the quarterly trend of the average monthly values of the Liquidity Coverage Ratio (LCR) of the Group and of the main aggregates making up the ratio (liquidity reserve, liquidity outflows and inflows, high quality liquid assets).

**Table 30 - Template EU LIQ1: Quantitative information of LCR (1 of 2)**

		a	b	c	d
		Total unweighted value (average)			
EU 1a	Quarter ending on 31/12/2023	31/12/2023	30/09/2023	30/06/2023	31/03/2023
EU 1b	Number of data points used in the calculation of averages	12	12	12	12
<b>HIGH-QUALITY LIQUID ASSETS</b>					
<b>1</b>	<b>Total high-quality liquid assets (HQLA)</b>				
<b>CASH - OUTFLOWS</b>					
2	Retail deposits and deposits from small business customers, of which:	17,922,891	17,618,072	17,341,697	17,340,390
3	<i>Stable deposits</i>	11,492,167	11,279,156	11,050,287	10,987,145
4	<i>Less stable deposits</i>	6,169,391	6,177,785	6,202,399	6,297,223
5	Unsecured wholesale funding	16,269,974	16,955,092	17,809,056	18,044,062
6	<i>Operational deposits (all counterparties) and deposits in networks of cooperative banks</i>	3,162,151	3,343,829	3,614,996	3,710,445
7	<i>Non-operational deposits (all counterparties)</i>	13,072,288	13,578,537	14,146,898	14,286,698
8	<i>Unsecured debt</i>	35,535	32,726	47,163	46,919
9	Secured wholesale funding				
10	Additional requirements	857,975	828,108	778,330	703,436
11	<i>Outflows related to derivative exposures and other collateral requirements</i>	16,805	14,197	17,481	17,515
12	<i>Outflows related to loss of funding on debt products</i>	1,902	1,972	423	319
13	<i>Credit and liquidity facilities</i>	839,267	811,939	760,427	685,602
14	Other contractual funding	8,426	9,295	13,021	12,642
15	Other contingent funding obligations	14,816,836	14,591,792	14,118,661	13,745,977
<b>16</b>	<b>TOTAL CASH OUTFLOWS</b>				
<b>CASH – INFLOWS</b>					
17	Secured lending (e.g. reverse repos)	16,693	691	691	25,699
18	Inflows from fully performing exposures	2,578,330	2,479,724	2,411,022	2,333,493
19	Other cash inflows	4,470,738	4,508,471	4,562,569	4,521,524
EU-19a	(Difference between total weighted inflows and total weighted outflows arising from transactions in third countries where there are transfer restrictions or which are denominated in non-convertible currencies)				
EU-19b	(Excess inflows from a related specialised credit institution)				
<b>20</b>	<b>TOTAL CASH INFLOWS</b>	<b>7,065,761</b>	<b>6,988,886</b>	<b>6,974,282</b>	<b>6,880,716</b>
EU-20a	<i>Fully exempt inflows</i>	-	-	-	-
EU-20b	<i>Inflows subject to 90% cap</i>	-	-	-	-
EU-20c	<i>Inflows subject to 75% cap</i>	7,065,761	6,988,886	6,974,282	6,880,716
<b>TOTAL ADJUSTED VALUE</b>					
<b>EU-21</b>	<b>LIQUIDITY BUFFER</b>				
<b>22</b>	<b>TOTAL NET CASH OUTFLOWS</b>				
<b>23</b>	<b>LIQUIDITY COVERAGE RATIO (%)</b>				

Source: COREP reporting framework - Liquidity coverage: Templates C 72.00 - C 73.00 - C 74.00 - C 76.00

NOTE: The figures in the table are calculated as a simple (unweighted) average of the end-of-month observations over the twelve months preceding the end of each quarter.



**Table 31 - Template EU LIQ1: Quantitative information of LCR (2 of 2)**

		e	f	g	h
		Total weighted value (average)			
EU 1a	Quarter ending on 31/12/2023	31/12/2023	30/09/2023	30/06/2023	31/03/2023
EU 1b	Number of data points used in the calculation of averages	12	12	12	12
<b>HIGH-QUALITY LIQUID ASS</b>					
1	Total high-quality liquid assets (HQLA)	10,925,070	11,041,299	11,160,414	11,154,516
<b>CASH - OUTFLOWS</b>					
2	Retail deposits and deposits from small business customers, of which:	1,372,334	1,363,128	1,358,492	1,370,042
3	<i>Stable deposits</i>	574,608	563,958	552,514	549,357
4	<i>Less stable deposits</i>	797,726	799,171	805,978	820,685
5	Unsecured wholesale funding	7,154,086	7,433,939	7,814,309	7,983,704
6	<i>Operational deposits (all counterparties) and deposits in networks of cooperative banks</i>	757,728	796,271	856,759	878,927
7	<i>Non-operational deposits (all counterparties)</i>	6,360,823	6,604,942	6,910,388	7,057,858
8	<i>Unsecured debt</i>	35,535	32,726	47,163	46,919
9	<i>Secured wholesale funding</i>	68,321	56,438	41,979	41,979
10	Additional requirements	176,985	169,590	160,541	146,294
11	<i>Outflows related to derivative exposures and other collateral requirements</i>	16,805	14,197	17,481	17,515
12	<i>Outflows related to loss of funding on debt products</i>	1,902	1,972	423	319
13	<i>Credit and liquidity facilities</i>	158,278	153,421	142,638	128,460
14	Other contractual funding	6,265	7,172	10,926	10,577
15	Other contingent funding obligations	550,693	549,640	543,147	534,591
<b>16</b>	<b>TOTAL CASH OUTFLOWS</b>	<b>9,328,685</b>	<b>9,579,907</b>	<b>9,929,395</b>	<b>10,087,186</b>
<b>CASH – INFLOWS</b>					
17	Secured lending (e.g. reverse repos)	-	-	-	-
18	Inflows from fully performing exposures	2,092,644	2,014,950	1,936,941	1,854,256
19	Other cash inflows	931,911	940,805	953,586	941,821
EU-19a	(Difference between total weighted inflows and total weighted outflows arising from transactions in third countries where there are transfer restrictions or which are denominated in non-convertible currencies)	-	-	-	-
EU-19b	(Excess inflows from a related specialised credit institution)	-	-	-	-
<b>20</b>	<b>TOTAL CASH INFLOWS</b>	<b>3,024,555</b>	<b>2,955,754</b>	<b>2,890,527</b>	<b>2,796,077</b>
EU-20a	<i>Fully exempt inflows</i>	-	-	-	-
EU-20b	<i>Inflows subject to 90% cap</i>	-	-	-	-
EU-20c	<i>Inflows subject to 75% cap</i>	3,024,555	2,955,754	2,890,527	2,796,077
<b>TOTAL ADJUSTED VALUE</b>					
<b>EU-21</b>	<b>LIQUIDITY BUFFER</b>	<b>10.925.070</b>	<b>11.041.299</b>	<b>11.160.414</b>	<b>11.154.516</b>
<b>22</b>	<b>TOTAL NET CASH OUTFLOWS</b>	<b>6.304.129</b>	<b>6.624.153</b>	<b>7.038.867</b>	<b>7.291.109</b>
<b>23</b>	<b>LIQUIDITY COVERAGE RATIO (%)</b>	<b>174.0695%</b>	<b>167.3417%</b>	<b>159.0356%</b>	<b>153.0459%</b>

Source: COREP reporting framework - Liquidity coverage: Templates C 72.00 - C 73.00 - C 74.00 - C 76.00

NOTE: The figures in the table are calculated as a simple (unweighted) average of the end-of-month observations over the twelve months preceding the end of each quarter.





From the evidence reported in the previous templates, it is possible to observe consolidation of the average levels of the LCR in the last twelve months, which remained positioned at values well above the minimum regulatory requirement (100%) throughout the period. As at 31 December 2023, the ratio had improved compared to the previous quarter.

Contributing to the recent development of the index was the gradual consolidation of liabilities due to a higher proportion of time deposits and bonds issued by the Group. On the institutional funding front, one notable element was the repayment of more than 4 billion euro of TLTRO loans acquired over the years by the Group, applied in June, firstly by resorting to the surplus liquidity deposited with the Central Bank and, secondly, by carrying out new repo transactions, the positive trend of which continued in the current quarter.

On the asset side, there was an overall increase in the volumes of mortgages, factoring transactions and, to a lesser extent, non-installment advances, compared to September levels, with a slight increase in the average share of loans with expected repayment within the 30-day range of the indicator.

These overall changes reflected in a progressive decline in average cash outflows net of the index's denominator, determined by applying the liquidity outflow and inflow adjustment weighting factors envisaged by the prudential provisions to all the demand liabilities and assets or those with maturity within 30 days, so as to incorporate stress effects of both a systemic and idiosyncratic nature in the calculation of the coefficient. Specifically, the change compared to the previous quarter stems from the dual effect of the reduction in cash outflows and the limited growth of average liquidity inflows, resulting from the dynamics of deposits and loans, respectively.

The average level of high-quality liquid assets included in the liquidity reserve in the numerator of the ratio declined slightly compared to September's levels, averaging around 11 billion euro.

The high quality liquid assets ("HQLA") are held by the Group mainly in Euro currency, to cover any financial needs in this currency; they remain predominantly made up of instruments issued by eligible sovereign entities classified in the "EHQLA" category (Level 1)<sup>16</sup>, recognised as being of extremely high liquidity and credit quality pursuant to Delegated Regulation (EU) 2015/61. These are mainly securities issued by the Italian State, accompanied by investments in bonds issued by other sovereign states (particularly Spain), supranational organisations, credit institutions and financial companies. The subsidiary Banca Popolare di Sondrio (SUISSE), in turn, also holds its own bond portfolio, which is mainly composed of national Central Bank eligible securities, integrated by cash amounts in CHF deposited with it, aimed at coping with the specific liquidity requirements.

Risks associated with the concentration of funding sources are mitigated by the Group by maintaining a consistent retail funding base, which is by definition adequately diversified; further sources of funding are represented by national and international private entities and companies as well as from banking counterparties, from which the Group has never had problems in raising money at market conditions, given its high reputation.

Liquidity risks related to derivative exposures prove to be limited overall, given the risk strategy pursued by the Group which provides for a "back-to-back" hedging of all open positions related to transactions with customers.

<sup>16</sup> The rules for calculating the LCR split high quality liquid assets ("HQLA") into three categories, considered in decreasing order of liquidity: "Level 1" ("EHQLA"), "Level 2A" and "Level 2B". Gradually increasing prudential haircuts are applied to these categories, in addition to limits in terms of composition.



The table below shows the value of the Net Stable Funding Ratio (NSFR) at the reference date and details of its main components (AFS - available stable funding and RSF - required stable funding).

**Table 32 - Template EU LIQ2: Net stable funding ratio (1 of 2) - 31/12/2023**

		31/12/2023				
		a	b	c	d	e
		Unweighted value by residual maturity				Weighted value
No maturity	< 6 months	6 months to < 1yr	≥ 1yr			
<b>Available stable funding (ASF) Items</b>						
1	Capital items and instruments	3,560,844	-	-	547,370	4,108,214
2	<i>Own funds</i>	3,560,844	-	-	547,370	4,108,214
3	<i>Other capital instruments</i>		-	-	-	-
4	Retail deposits		18,430,103	472,206	1,215,377	18,834,726
5	<i>Stable deposits</i>		12,030,873	114,546	17,992	11,556,140
6	<i>Less stable deposits</i>		6,399,230	357,661	1,197,384	7,278,586
7	Wholesale funding:		20,928,937	4,176,444	3,219,488	11,183,714
8	<i>Operational deposits</i>		3,270,896	-	-	1,635,448
9	<i>Other wholesale funding</i>		17,658,040	4,176,444	3,219,488	9,548,266
10	Interdependent liabilities		-	-	-	-
11	Other liabilities:	50,055	4,491,450	37,171	870,166	888,752
12	<i>NSFR derivative liabilities</i>	50,055				
13	<i>All other liabilities and capital instruments not included in the above categories</i>		4,491,450	37,171	870,166	888,752
<b>14</b>	<b>TOTAL AVAILABLE STABLE FUNDING (ASF) AS AT 31/12/2023</b>					<b>35,015,406</b>

Source: COREP reporting framework - Net Stable Funding Ratio: Templates C 80.00 - C 84.00

**Table 33** - Template EU LIQ2: Net stable funding ratio (2 of 2) - 31/12/2023

		31/12/2023				
		a	b	c	d	e
		Unweighted value by residual maturity				Weighted value
		No maturity	< 6 months	6 months to < 1yr	≥ 1yr	
<b>Required stable funding (RSF) Items</b>						
15	Total high-quality liquid assets (HQLA)					519,723
EU-15a	Assets encumbered for a residual maturity of one year or more in a cover pool		63,603	70,331	1,760,492	1,610,263
16	Deposits held at other financial institutions for operational purposes		-	-	-	-
17	Performing loans and securities:		11,846,090	2,166,803	20,362,016	22,009,888
18	<i>Performing securities financing transactions with financial customers collateralised by Level 1 HQLA subject to 0% haircut</i>		-	-	-	-
19	<i>Performing securities financing transactions with financial customer collateralised by other assets and loans and advances to financial institutions</i>		2,733,087	341,143	499,239	943,119
20	<i>Performing loans to non- financial corporate clients, loans to retail and small business customers, and loans to sovereigns, and PSEs, of which:</i>		7,446,276	1,425,513	10,511,844	18,606,292
21	With a risk weight of less than or equal to 35% under the Basel II Standardised Approach for credit risk		312,000	329,601	2,136,717	7,144,928
22	<i>Performing residential mortgages, of which:</i>		185,343	180,915	6,834,200	-
23	With a risk weight of less than or equal to 35% under the Basel II Standardised Approach for credit risk		182,642	178,031	6,747,246	-
24	<i>Other loans and securities that are not in default and do not qualify as HQLA, including exchange-traded equities and trade finance on-balance sheet products</i>		1,481,384	219,232	2,516,733	2,460,477
25	Interdependent assets		-	-	-	-
26	Other assets:		1,503,581	47,634	3,290,067	3,466,301
27	<i>Physical traded commodities</i>				-	-
28	<i>Assets posted as initial margin for derivative contracts and contributions to default funds of CCPs</i>		-	-	42,000	35,700



**Table 33** - Template EU LIQ2: Net stable funding ratio (2 of 2) - 31/12/2023

		31/12/2023				
		a	b	c	d	e
		Unweighted value by residual maturity				Weighted value
		No maturity	< 6 months	6 months to < 1yr	≥ 1yr	
29	NSFR derivative assets					-
30	NSFR derivative liabilities before deduction of variation margin posted		65,386			3,269
31	All other assets not included in the above categories		1,438,195	47,634	3,248,067	3,427,332
32	Off-balance sheet items		4,685,447	130,000	712,230	276,476
<b>33</b>	<b>TOTAL RSF AS AT 31/12/2023</b>					<b>27,882,651</b>
<b>34</b>	<b>NET STABLE FUNDING RATIO (%) AS AT 31/12/2023</b>					<b>125.5813%</b>

Source: COREP reporting framework - Net Stable Funding Ratio: Templates C 80.00 - C 84.00

The table shows that the NSFR ratio of the Group as at 31 December 2023 was higher than the minimum regulatory requirement (100%). The available amount of stable funding (AFS) – consisting mainly of retail deposits and, secondarily, of balances of funds received from the European Central Bank – exceeded the level of the mandatory amount of stable funding (RSF) deriving primarily from the volumes of loans granted to customers.

**Table 34 - Template EU LIQ2: Net stable funding ratio (1 of 2) - 30/09/2023**

		30/09/2023				
		a	b	c	d	e
		Unweighted value by residual maturity				Valore ponderato
		No maturity	< 6 months	6 months to < 1yr	≥ 1yr	
<b>Available stable funding (ASF) Items</b>						
1	Capital items and instruments	3,488,662	-	-	546,523	4,035,184
2	Own funds	3,488,662	-	-	546,523	4,035,184
3	Other capital instruments		-	-	-	-
4	Retail deposits		18,685,210	325,374	1,307,996	19,025,806
5	Stable deposits		12,078,231	87,453	13,977	11,571,377
6	Less stable deposits		6,606,979	237,921	1,294,020	7,454,429
7	Wholesale funding:		18,720,663	4,533,321	2,643,668	10,413,379
8	Operational deposits		2,424,810	-	-	1,212,405
9	Other wholesale funding		16,295,852	4,533,321	2,643,668	9,200,974
10	Interdependent liabilities	-	-	-	-	-
11	Other liabilities:		3,264,587	37,877	1,686,333	1,705,271
12	NSFR derivative liabilities	-				
13	All other liabilities and capital instruments not included in the above categories		3,264,587	37,877	1,686,333	1,705,271
14	<b>TOTAL AVAILABLE STABLE FUNDING (ASF) AS AT 30/09/2023</b>					<b>35,179,641</b>

Source: COREP reporting framework - Net Stable Funding Ratio: Templates C 81.00 - C 86.00

**Table 35 - Template EU LIQ2: Net stable funding ratio (2 of 2) - 30/09/2023**

		30/09/2023				
		a	b	c	d	e
		Unweighted value by residual maturity				Weighted value
		No maturity	< 6 months	6 months to < 1yr	≥ 1yr	
<b>Required stable funding (RSF) Items</b>						
15	Total high-quality liquid assets (HQLA)					501,240
EU-15a	Assets encumbered for a residual maturity of one year or more in a cover pool		-	-	-	-
16	Deposits held at other financial institutions for operational purposes		-	-	-	-



**Table 35 - Template EU LIQ2: Net stable funding ratio (2 of 2) - 30/09/2023**

		30/09/2023				
		a	b	c	d	e
		Unweighted value by residual maturity				Weighted value
		No maturity	< 6 months	6 months to < 1yr	≥ 1yr	
17	Performing loans and securities:		11,316,844	1,827,140	21,553,641	22,468,800
18	<i>Performing securities financing transactions with financial customers collateralised by Level 1 HQLA subject to 0% haircut</i>		-	-	-	-
19	<i>Performing securities financing transactions with financial customer collateralised by other assets and loans and advances to financial institutions</i>		2,411,081	158,988	587,782	908,384
20	<i>Performing loans to non-financial corporate clients, loans to retail and small business customers, and loans to sovereigns, and PSEs, of which:</i>		7,215,518	1,275,749	10,225,983	19,185,762
21	With a risk weight of less than or equal to 35% under the Basel II Standardised Approach for credit risk		315,759	326,598	2,172,604	8,144,688
22	<i>Performing residential mortgages, of which:</i>		262,435	230,765	8,278,759	-
23	With a risk weight of less than or equal to 35% under the Basel II Standardised Approach for credit risk		258,360	226,550	8,155,245	-
24	<i>Other loans and securities that are not in default and do not qualify as HQLA, including exchange-traded equities and trade finance on-balance sheet products</i>		1,427,810	161,638	2,461,117	2,374,653
25	Interdependent assets		-	-	-	-
26	Other assets:		750,300	31,774	4,058,983	4,173,028
27	<i>Physical traded commodities</i>				-	-
28	<i>Assets posted as initial margin for derivative contracts and contributions to default funds of CCPs</i>		-	-	39,200	33,320
29	<i>NSFR derivative assets</i>		34,641			34,641
30	<i>NSFR derivative liabilities before deduction of variation margin posted</i>		22,247			1,112
31	<i>All other assets not included in the above categories</i>		693,412	31,774	4,019,783	4,103,955
32	Off-balance sheet items		4,401,920	110,000	681,939	259,697
<b>33</b>	<b>TOTAL RSF AS AT 30/09/2023</b>					<b>27,402,765</b>
<b>34</b>	<b>NET STABLE FUNDING RATIO (%) AS AT 30/09/2023</b>					<b>128.3799%</b>

Source: COREP reporting framework - Net Stable Funding Ratio: Templates C 81.00 - C 86.00



**Table 36** - Template EU LIQ2: Net stable funding ratio (1 of 2) - 30/06/2023

		30/06/2023				
		a	b	c	d	e
		Unweighted value by residual maturity				Valore ponderato
		No maturity	< 6 months	6 months to < 1yr	≥ 1yr	
<b>Available stable funding (ASF) Items</b>						
1	Capital items and instruments	3,414,625	-	-	546,794	3,961,419
2	<i>Own funds</i>	3,414,625	-	-	546,794	3,961,419
3	<i>Other capital instruments</i>		-	-	-	-
4	Retail deposits		18,611,455	217,432	1,353,566	18,898,860
5	<i>Stable deposits</i>		11,928,054	57,869	10,844	11,397,470
6	<i>Less stable deposits</i>		6,683,401	159,564	1,342,722	7,501,390
7	Wholesale funding:		17,422,937	1,533,683	5,860,368	12,118,580
8	<i>Operational deposits</i>		2,894,836	-	-	1,447,418
9	<i>Other wholesale funding</i>		14,528,101	1,533,683	5,860,368	10,671,162
10	Interdependent liabilities		-	-	-	-
11	Other liabilities:	-	3,510,759	57,193	2,159,371	2,187,968
12	<i>NSFR derivative liabilities</i>	-				
13	<i>All other liabilities and capital instruments not included in the above categories</i>		3,510,759	57,193	2,159,371	2,187,968
14	<b>TOTAL AVAILABLE STABLE FUNDING (ASF) AS AT 30/06/2023</b>					<b>37,166,827</b>

Source: COREP reporting framework - Net Stable Funding Ratio: Templates C 81.00 - C 86.00

**Table 37** - Template EU LIQ2: Net stable funding ratio (2 of 2) - 30/06/2023

		30/06/2023				
		a	b	c	d	e
		Unweighted value by residual maturity				Weighted value
		No maturity	< 6 months	6 months to < 1yr	≥ 1yr	
<b>Required stable funding (RSF) Items</b>						
15	Total high-quality liquid assets (HQLA)					488,831
EU-15a	Assets encumbered for a residual maturity of one year or more in a cover pool		-	-	-	-
16	Deposits held at other financial institutions for operational purposes		-	-	-	-



**Table 37 - Template EU LIQ2: Net stable funding ratio (2 of 2) - 30/06/2023**

		30/06/2023				
		a	b	c	d	e
		Unweighted value by residual maturity				Weighted value
		No maturity	< 6 months	6 months to < 1yr	≥ 1yr	
17	Performing loans and securities:		11,994,961	1,785,850	21,640,847	23,960,508
18	<i>Performing securities financing transactions with financial customers collateralised by Level 1 HQLA subject to 0% haircut</i>		-	-	-	-
19	<i>Performing securities financing transactions with financial customer collateralised by other assets and loans and advances to financial institutions</i>		2,527,702	55,162	608,408	888,760
20	<i>Performing loans to non-financial corporate clients, loans to retail and small business customers, and loans to sovereigns, and PSEs, of which:</i>		7,811,755	1,289,461	10,248,505	20,624,777
21	With a risk weight of less than or equal to 35% under the Basel II Standardised Approach for credit risk		309,212	327,744	2,267,261	8,719,129
22	<i>Performing residential mortgages, of which:</i>		214,680	240,388	8,260,697	-
23	With a risk weight of less than or equal to 35% under the Basel II Standardised Approach for credit risk		209,581	234,885	8,122,611	-
24	<i>Other loans and securities that are not in default and do not qualify as HQLA, including exchange-traded equities and trade finance on-balance sheet products</i>		1,440,823	200,838	2,523,237	2,446,971
25	Interdependent assets		-	-	-	-
26	Other assets:		623,049	37,249	4,070,336	4,151,583
27	<i>Physical traded commodities</i>				-	-
28	<i>Assets posted as initial margin for derivative contracts and contributions to default funds of CCPs</i>		-		39,200	33,320
29	<i>NSFR derivative assets</i>		1,147			1,147
30	<i>NSFR derivative liabilities before deduction of variation margin posted</i>		29,269			1,463
31	<i>All other assets not included in the above categories</i>		592,633	37,249	4,031,136	4,115,652
32	Off-balance sheet items		4,258,247	50,000	837,356	257,288
<b>33</b>	<b>TOTAL RSF AS AT 30/06/2023</b>					<b>28,858,210</b>
<b>34</b>	<b>NET STABLE FUNDING RATIO (%) AS AT 30/06/2023</b>					<b>128.7912%</b>

Source: COREP reporting framework - Net Stable Funding Ratio: Templates C 81.00 - C 86.00





**Table 38** - Template EU LIQ2: Net stable funding ratio (1 of 2) - 31/03/2023

		31/03/2023				
		a	b	c	d	e
		Unweighted value by residual maturity				Weighted value
		No maturity	< 6 months	6 months to < 1yr	≥ 1yr	
<b>Available stable funding (ASF) Items</b>						
1	Capital items and instruments	3,302,140	-	-	546,498	3,848,639
2	<i>Own funds</i>	3,302,140	-	-	546,498	3,848,639
3	<i>Other capital instruments</i>		-	-	-	-
4	Retail deposits		16,814,200	115,757	1,276,933	17,056,371
5	<i>Stable deposits</i>		10,824,803	24,747	7,505	10,314,578
6	<i>Less stable deposits</i>		5,989,397	91,009	1,269,428	6,741,793
7	Wholesale funding:		23,102,330	1,381,786	6,279,887	13,397,690
8	Operational deposits		3,124,548	-	-	1,562,274
9	<i>Other wholesale funding</i>		19,977,782	1,381,786	6,279,887	11,835,416
10	Interdependent liabilities		-	-	-	-
11	Other liabilities:	11,544	3,265,870	12,221	2,239,291	2,245,402
12	<i>NSFR derivative liabilities</i>	11,544				
13	<i>All other liabilities and capital instruments not included in the above categories</i>		3,265,870	12,221	2,239,291	2,245,402
<b>14</b>	<b>TOTAL AVAILABLE STABLE FUNDING (ASF) AS AT 31/03/2023</b>					<b>36,548,102</b>

Source: COREP reporting framework - Net Stable Funding Ratio: Templates C 81.00 - C 86.00

**Table 39** - Template EU LIQ2: Net stable funding ratio (2 of 2) - 31/03/2023

		31/03/2023				
		a	b	c	d	e
		Unweighted value by residual maturity				Weighted value
		No maturity	< 6 months	6 months to < 1yr	≥ 1yr	
<b>Required stable funding (RSF) Items</b>						
15	Total high-quality liquid assets (HQLA)					805,807
EU-15a	Assets encumbered for a residual maturity of one year or more in a cover pool		-	-	-	-
16	Deposits held at other financial institutions for operational purposes		-	-	-	-



**Table 39 - Template EU LIQ2: Net stable funding ratio (2 of 2) - 31/03/2023**

		31/03/2023				
		a	b	c	d	e
		Unweighted value by residual maturity				Weighted value
		No maturity	< 6 months	6 months to < 1yr	≥ 1yr	
17	Performing loans and securities:		11,874,520	1,754,180	21,540,212	23,443,971
18	<i>Performing securities financing transactions with financial customers collateralised by Level 1 HQLA subject to 0% haircut</i>		-	-	-	-
19	<i>Performing securities financing transactions with financial customer collateralised by other assets and loans and advances to financial institutions</i>		2,478,088	58,658	629,945	907,083
20	<i>Performing loans to non-financial corporate clients, loans to retail and small business customers, and loans to sovereigns, and PSEs, of which:</i>		7,944,182	1,354,594	10,065,026	19,946,134
21	With a risk weight of less than or equal to 35% under the Basel II Standardised Approach for credit risk		310,659	337,351	2,455,092	8,459,147
22	<i>Performing residential mortgages, of which:</i>		264,772	211,781	8,068,456	-
23	With a risk weight of less than or equal to 35% under the Basel II Standardised Approach for credit risk		260,717	207,549	7,954,743	-
24	<i>Other loans and securities that are not in default and do not qualify as HQLA, including exchange-traded equities and trade finance on-balance sheet products</i>		1,187,478	129,147	2,776,785	2,590,754
25	Interdependent assets		-	-	-	-
26	Other assets:		752,853	40,936	3,958,605	4,027,661
27	<i>Physical traded commodities</i>				-	-
28	<i>Assets posted as initial margin for derivative contracts and contributions to default funds of CCPs</i>		-		39,200	33,320
29	<i>NSFR derivative assets</i>		-			-
30	<i>NSFR derivative liabilities before deduction of variation margin posted</i>		44,007			2,200
31	<i>All other assets not included in the above categories</i>		708,846	40,936	3,919,405	3,992,141
32	Off-balance sheet items		4,469,634	-	836,533	265,311
<b>33</b>	<b>TOTAL RSF AS AT 31/03/2023</b>					<b>28,542,750</b>
<b>34</b>	<b>NET STABLE FUNDING RATIO (%) AS AT 31/03/2023</b>					<b>128.0469%</b>

Source: COREP reporting framework - Net Stable Funding Ratio: Templates C 81.00 - C 86.00

## Section 8

# Disclosure of exposures to credit risk

### (art. 442 CRR/CRR II)

## Definition of non-performing exposures

The classification of credit exposures in the various risk categories is carried out in accordance with the regulations issued by the Supervisory Authority and the current accounting standards. Loans for which there are particularly severe signs of stress are classified as «non-performing» (Non-Performing Exposures).

As of 1 January 2021, the new European rules on the classification of counterparties to default for prudential purposes apply. The discipline, introduced by the European Banking Authority (EBA) and implemented at national level by the Bank of Italy, established more restrictive criteria and methods for classifying a credit exposure as default compared to those previously adopted, with the aim of harmonising the approaches for applying the notion of insolvency and identifying the conditions of unlikely fulfilment among financial institutions and the various jurisdictions of EU countries.

On the basis of the regulatory framework in force, the Group classifies non-performing exposures, depending on the type and severity of the impairment, into three categories, corresponding to the administrative statuses of the loan:

- *Bad loans*: on- and off-balance sheet exposures to subjects in a state of insolvency (not necessarily ascertained in court) or in substantially comparable situations, regardless of any loss forecasts. Accordingly, no account is taken of any guarantees received in support of such exposures.
- *Unlikely-to-pay (UTP) loans*: credit exposures, other than non-performing, for which the Group deems it improbable that the obligor will pay its credit obligations (principal and/or interest) in full without recourse to measures such as the enforcement of guarantees; this assessment is made regardless of whether there are any past due and unpaid amounts.
- *Past due*: exposures other than non-performing or unlikely to pay loans, which, at the reference date, are unpaid and/or overdrawn continuously for more than 90 days and which exceed set materiality thresholds established by the regulations. Non-performing past due exposures may be determined with reference to the position of the individual debtor or, alternatively, solely for exposures towards retail customers, with reference to a single transaction; the Group identifies all of these exposures according to the “counterparty” approach.

Loans are classified as Past due exposures when the following conditions are met:

- at the reporting date the customer has a past due and/or overdrawn portion of the entire exposure at Group level that exceeds both of the following materiality thresholds:
  - *Relative Materiality Threshold*: the relative component is represented by a percentage calculated as the ratio between the amount of the credit obligation in arrears and the total amount of all exposures towards the same debtor recorded in the Bank’s financial statements; this threshold is set at one percent (1%) for both retail and non-retail exposures;
  - *Absolute Materiality Threshold*: the absolute component is the maximum amount that the sum of all overdue amounts owed by a debtor to the Group can reach; the maximum amount does not exceed 100 euro for retail exposures or 500 euro for non-retail exposures.
- the customer evidences overdrawn and/or past-due credit exposures as defined above for more than 90 days on a continuous basis.



Unlikely to pay include credit exposures for which the Group considers it improbable that the debtor will fulfil its obligations in full, in terms of principal and/or interest, without actions being taken to preserve the credit reasons such as, for example, the enforcement of accessory guarantees.

Finally, bad loans include on- and off-balance sheet exposures towards subjects in a state of insolvency (not necessarily ascertained in court) or in substantially comparable situations, regardless of any loss forecasts. Accordingly, no account is taken of any guarantees received in support of such exposures.

The loans not allocated to the above categories are deemed to be regular or performing exposures.

Loans are classified as non-performing exposures, depending on the case, either automatically or on the basis of expert proposals and assessments. More specifically, the classification of non-performing past-due exposures takes place automatically when the conditions provided for by the regulations occur. The classification as unlikely to pay (UTP), on the other hand, is based on a system of triggers which may, depending on the case, generate an automatic classification or an assessment by the reference manager. Finally, the classification as non-performing takes place on the proposal of the manager, as part of the continuous monitoring of the counterparty. The return to a performing status of non-performing exposures, governed by the Supervisory Authority as well as by specific internal regulations, takes place after verifying that the critical conditions and the state of insolvency have ceased to exist.

The management of “impaired” loans involves taking action, based on the gravity of the situation, to restore normality or, otherwise, to start appropriate recovery procedures. More precisely, in the event of positions that are classified as:

- *Bad loans*, suitable procedures are implemented to recover the loans; under the right circumstances, recovery plans are drawn up and/or settlements are proposed on an amicable basis in order to terminate the relationship;
- *Unlikely to pay (UTP) loans*, an assessment is made of the probability that the debtor will meet its contractual obligations in full, in order to re-establish the original conditions of reliability and profitability of the relationship, or, if this is impossible, steps are taken to transfer the position to the Bad loans category. For Unlikely to pay loans subject to restructuring agreements, controls are made continuously to ensure that the agreed conditions are met;
- *Past due*, the related exposures are monitored and timely attempts are made to get the situation back to normal; if the borrower really is in financial difficulty, necessary steps are taken to transfer the loan to Unlikely to pay or Bad loans, depending on the circumstances.

## Description of the methodologies adopted to determine credit adjustments

Adjustments are made in compliance with both primary and secondary regulations and on a highly prudent basis. In particular, having regard for bad loans and unlikely-to-pay loans, the bank carries out an analysis of each position, which also takes into account the discounting effects of expected recovery. Overall assessments are made solely with reference to smaller individual loans, being not more than 10,000 euro for bad loans and 350,000 euro for unlikely to pay loans. The objective is to adopt a prudent approach to the control of these non-performing assets that, given their intrinsic characteristics

(large number of non-significant amounts), can be processed rapidly and at low cost on primarily an automated basis, thus ensuring the uniformity of the assessments made. With reference to non-performing past due and/or overdrawn exposures, the adjustment is determined with reference to the historical experience of losses on loans with that type of anomaly.

Cash loans as a whole are periodically subjected to impairment testing for accounting purposes, after assessing at an individual level any significant increase in credit risk (SICR) compared with the date of initial recognition in order to recognise any asset's impairment. In fact, for accounting purposes, loans and receivables at amortised cost, which make up the predominant part of the Group's total exposures, are classified in one of the following categories (known as "Stages"), in accordance with IFRS 9:

- Stage 1: this category includes "performing" loans which have not shown a significant increase in credit risk compared with the initial recognition date;
- Stage 2: "performing" loans that have shown a significant increase in credit risk (SICR) since their initial recognition, but which do not show objective evidence of impairment, are classified in this category;
- Stage 3: this category includes the positions that are classified in one of the "impaired" statuses listed above at the reference date.

For Stage 3 exposures, classification of positions to an "impaired" status takes place in accordance with the definitions of "Non-Performing Exposures" provided for by the Implementing Technical Standards ("ITS") issued by the EBA and implemented in the EU legislation, according to which impaired financial assets are divided into the categories of bad loans, unlikely to pay and impaired past due and/or overdue exposures, as previously defined.

For performing exposures (Stage 1 and Stage 2), an assessment is made at each reporting date as to whether there has been a material change in the credit risk inherent in each position since its initial recognition. The determination of the significant increase in credit risk (SICR) and the subsequent estimate of impairment is made over a one-year (for positions classified as Stage 1) or multi-year time horizon linked to the residual maturity of the exposure (so-called "Lifetime", for positions classified in Stage 2 and Stage 3), adopting specific calculation methodologies that combine the use of absolute and relative classification criteria. The absolute criteria considered for the "staging" of credit relationships are:

- *Low Credit Risk Exemption.* In accordance with the IFRS 9 rationale which allows to assume the absence of a significant increase in credit risk compared with the initial recognition date if an exposure presents a level of risk that is considered "low", the Group uses this option for limited types of counterparties and technical forms which, given their nature, are considered capable of automatic classification in Stage 1 (e.g. transactions with central banks, repurchase agreements with a maturity of less than a month).
- *Number of days of continuous past due/overdrawn (Past due over 30 days).* The accounting standard contains an explicit reference to the case in which a counterparty shows a delay in the fulfilment of its contractual obligations as an example of a possible indicator for classification in Stage 2, considering the sign of impairment of that relationship.
- *State of forbearance.* Forborne exposures comprise loans towards counterparties that have benefited from special concessions, marked by changes in the contractual conditions or refinancing arrangements, following a substantial change in economic condition that is considered particularly compromised. For the Group, this condition is deemed sufficient for classification in Stage 2, exclusively with reference to performing exposures.



- *Impaired loans on acquisition or origin.* Purchased or Originated Credit Impaired (POCI) exposures are those positions that fall within the definition of an “impaired loan” at the time of initial recognition, and for which specific rules are established regarding the measurement of credit risk. This category includes loans and receivables acquired from third parties which, already at the time of purchase, are impaired (Purchased Credit-Impaired Assets), as well as those related to the disbursement of new finance directly by the Group, and which feature subsequent contractual modifications involving cancellation of the previous credit (a derecognition event) and the recognition of an impaired loan, or for the disbursement of new loans to counterparties in a state of default (Originated Credit-Impaired Assets). For the Group, this condition is considered sufficient for classification in Stage 2, exclusively with reference to “performing” exposures as of the reporting date.
- *Positions originated in the month prior to the reporting date.* These are those credit positions that originated or entered the portfolio of exposures during the month prior to the reporting date for which none of the absolute criteria entailing classification in Stage 2 exists, and which are therefore classified in Stage 1.
- *Watchlist criteria.* The purpose that this absolute criterion intends to fulfil is to identify the additional positions and/or counterparties which, due to different considerations and analyses of both a quantitative and qualitative type, appear to be characterised at the reporting date by a high risk profile or in significant increase compared to the date of origination of the relationship, or that, more generally, it is deemed appropriate to make the subject of particular attention and monitoring and for which classification in Stage 2 is therefore considered suitable.
- *Intra-group transactions.* Intra-group transactions (intercompany trade) are characterised as those transactions in which an exchange of goods and services takes place between the Parent Company and the subsidiaries, which may be entered into for many different purposes (i.e. exchange of cash, services or administrative, accounting, commercial or financial assets by the Parent Company to support the subsidiaries or vice versa) and for which, due to their nature and particular risk profile, it is considered that the conditions for a significant increase in credit risk do not exist.
- *Backstop PD criterion.* Lastly, in order to have a holistic assessment of the evolution of the counterparties’ actual credit risk, it is deemed appropriate to classify in Stage 2 the positions in which the “absolute” increase between the annualised PD lifetime level at the date of origination and the equivalent level at the date of reporting is greater than an assigned criticality threshold (so-called backstop).

Using the relative “staging” criteria, it is possible to evaluate, through the analysis of an appropriate PD-based metric (Probability of Default), the change in the riskiness of the position over the time horizon equal to the residual life of the same, between the analysis/reporting date and the origination date. For the construction thereof, probability of default term structures (i.e. lifetime PD curves, which differ according to appropriate granularity) are used, constructed starting with an internal rating system, where available, or assigned by an external rating agency, and by also taking into consideration elements of a predictive-evolutionary nature and specific to the macroeconomic scenario deemed to be most plausible at the analysis/reporting date in compliance with the rationales of the IFRS 9 accounting standard.

With the application of the relative staging criteria, the transfer of positions between stages can take place in both a worsening and an improving sense: the classification model is symmetrical, with the possibility for assets to move indifferently between accounting stages. However, consistent with the prudent principles of forbearance, an observation period of at least two years is applied before returning the position to a better Stage. In addition, where staging is determined on the basis of “relative” criteria, a further mechanism is used to maximise the correspondence between regulatory rating and staging trends (in other words, positions that experience a deterioration in creditworthiness cannot undergo transitions from Stage 2 to Stage 1, and vice versa).

To the staging determined according to the aforementioned model-based approach, “stage overrides” can be applied, determined according to an expert-based approach following an ad-hoc analysis carried out by a special unit with access to specific information on the counterparty.

The valuation of financial assets recognised at amortised cost takes place on the basis of the calculation of the expected credit loss (ECL), defined as an estimate of credit losses over the expected life of the financial instrument weighted by the respective probabilities of occurrence. It is calculated according to the Stage classifications defined above; in particular, there can be:

- 12-month expected credit loss, for assets classified in Stage 1. 12-month expected credit losses are those resulting from default events that are possible within 12 months (or within a shorter period if the expected life of the exposure is less than 12 months);
- Lifetime expected credit loss, for assets classified in Stage 2 and Stage 3. Lifetime expected credit losses are those resulting from all possible default events over the expected life of the financial instrument. For Stage 2 positions, the credit provision – ECL override – may be amended experientially to a level considered appropriate by the competent business functions, based on the results of applying the statistical methodology defined internally and specific operational information, if the theoretical expected loss does not accurately reflect the related risk level.

As regards performing positions, measurement is carried out on an overall basis, taking account of the risk parameters consisting of probability of default (PD) and loss given default (LGD), as well as exposure at default (EAD). As regards credit-impaired positions, measurement may be performed on an overall or detailed basis.

Impairment of individual assets measured at amortised cost is equivalent to the negative difference between their recoverable value and their amortised cost. In the case of a detailed analysis of a loan, the recoverable value is defined as the present value of expected cash flows, determined with reference to the following elements:

- value of contractual cash flows net of any expected losses, estimated with reference to both the ability of the borrower to meet its obligations and the value of any collaterals or personal guarantees assisting the loan;
- expected timing of recoveries, considering the progress made by recovery procedures;
- internal return rate.

Bad loans may be assessed on either a detailed or an overall basis. The specific analysis of non-performing financial assets measured at amortised cost takes the following parameters into account:

- recoveries forecast by the relationship managers;
- expected timing of recoveries based on historical-statistical data;
- original discounting rates or the actual contractual rates applying at the time of classifying as bad loans.

Overall assessments are made of bad loan positions with limited overall exposure, not exceeding certain pro-tempore “threshold values” identified, and provide for the adoption of streamlined valuation processes, mainly of an automatic nature, based on the use of specific coefficients defined internally according to targeted quantitative analyses.

Unlikely-to-pay loans, which include loans subject to restructuring agreements, may also be assessed on either a detailed or an overall basis. The detailed analysis takes the following parameters into account:

- recoveries forecast by the offices involved;
- expected timing of recoveries based on historical-statistical data;
- original discounting rates represented by the actual contractual rates applying at the time the loans were classified as unlikely-to-pay or, with specific reference to loans subject to restructuring agreements, in force before signing the agreement with the debtor.



Overall write-downs of unlikely-to-pay positions follow a similar methodology to that applied in relation to the overall write-down of bad loans for which no specific estimate of the loss attributable to each individual relationship has been made. These financial assets are adjusted on an overall basis with reference to specific historical/statistical analyses of the related losses incurred in the past.

Past due and/or impaired overdrawn exposures are identified using automated procedures that extrapolate anomalous positions with reference to specific parameters established by regulations in force from time to time. For the positions in question, it is not possible to quantify expected losses on a detailed basis at single name level. The measurement of their level of impairment – and, thus, of the adjustments to be applied on an overall basis – is performed by taking account of the possibility of return to “performing” of the positions or of a further deterioration of default and, accordingly, of the amount of the estimated expected losses arising from the established work-out process. Measurement is also performed based on the availability of appropriate information of a macro-economic and prospective nature that is deemed significant for the estimation of the adjustments.

It should be noted that the impairment model relating to impaired loans (Stage 3) envisaged by IFRS 9 accounting standard is based on an estimate of the difference between the original contractual flows and the expected flows. So, in determining the expected flows, it is necessary to include estimates at the reporting date of the various expected scenarios, including any loan disposal programmes and/or settlement agreements with the counterparty. If it is expected to recover a portion of the cash flow of the exposures through sales procedures or settlement agreements, these can be included in the calculation of the Expected Credit Loss (ECL) under certain conditions.

The Group incorporates the possible recovery strategies of a non-performing loan considering the different probabilities of occurrence of such strategies according to the IFRS 9 impairment model.

Internal regulations require the expected loss and the recoverable value of an impaired loan be estimated in accordance with a specific procedure, comprising several phases, that starts with identification of the reference management scenarios. In general, in fact, the accounting rules require the estimate of the loss on non-performing loans to reflect a range of possible outcomes for different scenarios, each associated with a specific probability of occurrence. Currently, the following possible scenarios have been identified, each with different models and estimated outcomes:

- internal management of credit recovery activities;
- adoption of settlement agreements for a selected number of impaired positions;
- disposal of impaired exposures to third parties.

The next phase consists in identifying the portfolio of non-performing exposures to be sold, based on the knowledge of the characteristics thereof, the existence of any internal and/or external constraints, the monitoring of market conditions and any more complex strategic and operational objectives. The aggregate is defined with reference to the specific factors attributed to each position, such as their contractual characteristics (e.g. type of guarantee, ageing, size of the exposure etc.) or relevant operational information (e.g. type of recovery procedures already in progress, geographical location of the counterparty, any impediment or obstacle to disposal, etc.) and the strategic orientation of the Group, the conditions existing from time to time in the market for the disposal of loans, the strategies adopted by competitors, and any other internal and/or external factor that can be explained appropriately.



As mentioned, a specific probability of occurrence is attributed to each identified management scenario, determined on both qualitative and quantitative bases; the latter take into account the correlation between the “target portfolio” and the “extended portfolio” selected for each scenario.

The next phase involves estimating the expected loss for each management scenario identified. The estimate on non-performing loans must reflect reasonable and well-founded information, available without excessive cost or effort, including details of past events, current conditions and the future economic situation. In line with the internal regulations for quantifying the expected loss on non-performing exposures, an estimate of the cash flows expected from each operational scenario identified is made.

Without prejudice to specific regulatory instructions, the determination of cash flows from internal credit management scenarios takes account of macro-economic and sector information, the situation faced by the debtor, the cash flows expected from the restructuring of unlikely-to-pay exposures, any collaterals or personal guarantee, the period during which the position has been impaired and the expected time to obtain recovery.

The estimate of cash flow from loan disposal scenarios takes account of similar transactions carried out in the past by the Group, as well as specific information available about the underlying (situation faced by the borrower and any loan guarantee obtained) and the market for the disposal of non-performing loans (e.g. prices of similar transactions carried out by other intermediaries and historical and forecast market curves).

The expected loss on each impaired position is therefore determined using the following formula:

<b>Expected loss Individual position</b>	<b>=</b>	<b>Expected loss Disposal Scenario* Probability of occurrence of Disposal</b>	<b>+</b>	<b>Expected loss International Management Scenario* Probability of occurrence of International Management</b>
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The process of determining the expected loss value in case of proactive credit management scenarios through settlement agreements follows the same steps as for the disposal scenarios outlined above. The ECL in these specific scenarios, through the relative probability of occurrence, is included in the final quantification of the expected loss of the individual position.

As regards endorsement credit exposures, the assessment process is pretty much the same as for cash loans. One difference is the fact that the actual loss occurs if, in addition to the debtor’s “insolvency” event, the “enforcement” event of the endorsement credit also takes place: for this purpose, the so-called “credit conversion factor” (CCF), is taken into consideration. This is a parameter representing the currently undrawn portion of a credit line that is presumed to be used close to the insolvency of the counterparty, estimated on the basis of experience or identified by the regulations currently in force from time to time.

## Forborne Exposures

Forborne exposures are defined as credit exposures - in the form of loans, debt securities and revocable or irrevocable commitments to provide financing (excluding exposures held for trading purposes) - for which amendments to original contractual conditions or refinancing have been granted due to the debtor’s financial difficulties. Forborne as an attribute is transversal to all loans, whatever their administrative status. It can be used for performing loans just as well as for non-performing loans.



These are exposures to counterparties to which forbearance or concessions are granted because the debtor is experiencing, or is about to experience, difficulties in meeting its financial commitments. A concession is made when the amended contractual conditions are more favourable to the debtor than those applied previously; in particular, when:

- inclusion in the contract of more favourable terms than other debtors with a similar risk profile could have obtained;
- upon contractual modification, the credit relationship is classified as non-performing, or would have been classified as such if the modification had not been agreed;
- the contractual change led to a (total or partial) debt write-off;
- the exercise of contractual clauses is approved towards a debtor classified as non-performing, or who would be if the exercise of these clauses were not to be approved;
- when disbursing a new credit to a counterparty, it pays on a pre-existing relationship classified as non-performing or which would have become soon non-performing, if the Bank had not granted it a new credit.

In particular, for the purpose of identifying and classifying “forborne” loans, a “forbearance” measure is normally represented by at least one of the following cases:

- a modification, favourable to the customer, of pre-existing contractual terms granted to a counterparty who is no longer able to comply with due to its current (or imminent) situation of financial difficulty;
- total or partial refinancing of a pre-existing relationship that would not have been granted if the customer was not considered in a situation of financial difficulty.

This situation of financial difficulty of the debtor is objectively verified in the case of a counterparty classified as non-performing while it is presumed, and must therefore be assessed following in-depth analyses, for: a) customers in a performing state with a counterparty rating that is identifying a high level of risk; b) a loan expired or that would have expired for at least 30 days during the three months prior to the contractual amendment; c) a counterparty that has experienced a deterioration in its internal rating, identifying a rapid increase in the risk profile; or d) classification of the counterparty in the “high risk” management cluster on an ongoing basis for a period of at least three months.

In order to guarantee the quality of credit exposures and effectively monitor their trends, the Group applies a set of “industrialised” internal processes and procedures designed to identify the most suitable concessions for debtors experiencing financial difficulties, as well as to manage the forborne classification of the related exposures. In line with the relevant current regulations, the Group identifies a series of standardised concessions, distinguishing between short and medium/long-term measures, and periodically monitors their effectiveness in terms of bringing the exposures back into line.

When a concession is requested, the Operating Unit responsible for the loan determines the most suitable and sustainable forbearance measure for the customer, with the support of dedicated tools that provide guidance. As part of this identification, the Unit must assess the nature of the financial difficulties of the debtor and ensure that the expected duration of the concession is consistent with the nature of the forbearance. Subsequently, the economic sustainability of the measure is analysed with respect to the financial situation of the customer; in particular, the adequacy of the debtor assets is analysed on a current and prospective basis, considering the need for credibility and prudence. On arrangement of a credit concession, dedicated IT procedures check if the conditions for classifying the position as forborne exist and, if they do, propose the assignment of this attribute to the competent Operating Unit. Any exceptions made to this classification must be supported by adequate reasons. Following the concession approval and the proposed forborne classification by

the competent decision-making body, specific objectives and deadlines are added to the loan contract, with which the customer must comply when repaying the debt. These supplementary conditions are determined using prudent criteria and checked as part of monitoring of the position.

In the event of non-substantial changes to a credit exposure, IFRS 9 requires to determine the resulting gain or loss. A change is deemed to be “non-substantial” when it does not result in the closure of the pre-existing relationship and/or the addition of clauses that might cause the failure of the “SPPI test”.

The profit / loss on “non-substantial” changes to forbore relationships is calculated as the difference between the present value of the new contractual cash flows following renegotiation or amendment, discounted using the original effective interest rate (rate before the renegotiation or amendment of the loan contract), and the present value of the original contractual cash flows, also discounted using the original effective interest rate.

Furthermore, in compliance with the “Guidelines on the application of the definition of default pursuant to article 178 of Regulation (EU) No 575/2013”, this calculation (Delta Net Present Value) is carried out for a position that is the subject of a grant measure. In accordance with regulatory requirements, where the NPV delta is more than 1%, the position is identified as being in financial difficulty and classified as being in default.

All “forborne performing” positions are classified in Stage 2 and the related adjustments are stated at an amount equal to the lifetime losses expected on the residual term of the loan. The reduction in credit risk and the allocation of the relationship to Stage 1 reflects the loss of the forbore attribute.

## Exposures subject to commercial renegotiations

Included in this category are renegotiations involving changes to the original contractual terms applied to credit exposures, granted primarily for the purpose of maintaining the commercial relationship with the customer (“retention” of loans). By contrast with the “concessions” (forbearance measures), the renegotiations agreed for commercial reasons thus relate to debtors without financial difficulties and include all operations designed to align their cost of borrowing with market conditions. In addition, commercial renegotiations include changes to the economic conditions applied to newly arranged credit relationships, being those established for not more than six months.

Commercial renegotiations involve changing the original contractual conditions at the request of the debtor, considering the cost of borrowing or the related duration, with a resulting benefit for the requesting debtor. In general, whenever the Group agrees to renegotiate in order to avoid losing a customer, the transaction is considered substantial because, without it, the customer would obtain funding from other sources and the Group would experience a penalisation in the expected future revenue streams. From an accounting point of view, these transactions are comparable with an early repayment of the original debt and the opening a new contract.



## Purchased or originated credit impaired (POCI)

The category of Purchased or Originated Credit Impaired (POCI) financial instruments includes all purchased or originated loans that, on initial recognition, are found to be credit impaired.

The accounting rules relating to POCI apply to positions recorded under Financial assets measured at fair value through other comprehensive income (FVOCI) or under Financial assets measured at amortised cost, or to loans that have passed the “SPPI Test”, which are managed according to business models whose objective is the possession of assets aimed at acquiring contractual cash flows (“HTC”, Held to Collect) or whose objective is pursued through both acquisition of contractual financial flows and sale of the asset (“HTC&S”, Held to Collect and Sell). The “POCI” attribute remains for the entire duration of the credit relationship and the assets concerned are written down to reflect any losses expected over their residual lifetime until settlement.

Banca Popolare di Sondrio recognises two categories of product associated with POCI financial instruments arising from the granting of loans:

- *standard products with instalment repayment plans*: in this case, the Company’s procedure recognises the creation of the new relationship that passes the SPPI test, but with an impaired counterparty and automatically assigns the “POCI” attribute for approval by the competent decision-making body;
- *standard products managed in the “Current Accounts” and “Foreign” compartments and non-standard contracts originating from Corporate Finance*: for these types of relationships, the unit responsible for monitoring and managing anomalous credit manually proposes the assignment of the “POCI” attribute, subject to approval by the competent decision-making body.

Regardless of how assigned (manually or automatically), the “POCI” attribute must always be confirmed by the competent internal decision-making body and, once approved, remains valid for the entire duration of the business relationship.

## Write-off

In line with IFRS 9, a “write-off” is defined as an event that gives rise to a cancellation from the accounting records, when there are no longer reasonable expectations of recovering the cash flows deriving from the asset - in whole or in part - also in cases of a waiver of the receivable claimed, therefore having to reduce directly the gross carrying amount of the asset concerned. This form of write-down constitutes a case of partial or total cancellation of a credit position.

The gross carrying amount of a financial asset is written off if the amount is confirmed to be unrecoverable or there are no realistic prospects of recovery.

The timely assessment of non-recoverability is based on certain criteria, such as the inability to enforce mortgages or personal guarantees, the unsuccessful completion of enforcement/court-supervised proceedings, the start of bankruptcy procedures, the removal from the register of the business name of the debtor legal entity, the lack of traceability or advanced age of the customer.

The procedures to identify the absence of any reasonable prospects of recovery are focused on the counterparties within the bad loans portfolios and differ depending on the existence of mortgage guarantees, the ageing of the position, the progress made with recovery actions and the economic convenience associated with it, the inclusion of a position within a portfolio being sold and the risk of forfeiture of credit rights.

\* \* \*

Below please find a broad set of quantitative information on the credit quality of the Group's exposures, as required by CRR Part Eight. For further information, please refer to the Notes to the Financial Statements - Part E of the Consolidated Financial Statements.

**Table 40 - Template EU CR1: Performing and non-performing exposures and related provisions (1 of 3)**

		a	b	c	d	e	f
		Gross carrying amount/nominal amount					
		Performing exposures			Non-performing exposures		
		of which STAGE 1	of which STAGE 2		of which STAGE 2	of which STAGE 3	
005	Cash balances at central banks and other demand deposits	4,678,201	4,669,358	8,844	-	-	-
010	Loans and advances	34,202,004	29,663,631	4,187,922	1,316,484	-	1,186,706
020	Central banks	-	-	-	-	-	-
030	General governments	318,716	314,333	4,349	441	-	441
040	Credit institutions	693,623	693,623	-	-	-	-
050	Other financial corporations	3,027,842	3,006,355	14,809	28,566	-	28,566
060	Non-financial corporations	18,044,788	14,476,417	3,364,441	961,913	-	855,383
070	Of which SMEs	9,367,421	7,059,912	2,115,947	726,247	-	636,840
080	Households	12,117,035	11,172,903	804,323	325,564	-	302,317
090	Debt securities	14,297,054	14,072,486	149,859	-	-	-
100	Central banks	-	-	-	-	-	-
110	General governments	11,112,963	11,075,711	-	-	-	-
120	Credit institutions	1,549,139	1,424,880	103,941	-	-	-
130	Other financial corporations	1,225,630	1,206,444	2,047	-	-	-
140	Non-financial corporations	409,323	365,451	43,872	-	-	-
150	Off-balance-sheet exposures	26,106,300	15,261,163	2,415,613	196,069	-	93,553
160	Central banks	50,000	-	-	-	-	-
170	General governments	796,295	553,435	77,807	216	-	-
180	Credit institutions	1,009,920	353,089	18,127	-	-	-
190	Other financial corporations	1,497,065	1,394,704	5,877	370	-	179
200	Non-financial corporations	19,934,325	10,502,849	2,242,296	187,712	-	87,323
210	Households	2,818,695	2,457,087	71,506	7,771	-	6,051
<b>220</b>	<b>TOTAL AS AT 31/12/2023</b>	<b>79,283,559</b>	<b>63,666,639</b>	<b>6,762,238</b>	<b>1,512,553</b>	<b>-</b>	<b>1,280,259</b>
	<b>TOTAL AS AT 31/12/2022</b>	<b>76,531,621</b>	<b>63,687,522</b>	<b>4,343,892</b>	<b>1,641,800</b>	<b>-</b>	<b>1,407,061</b>

Source: FINREP reporting framework - Breakdown of financial assets by instrument and counterparty: Templates F 04.03.1 - F 04.04.1 - F 04.09 - F 04.10 - F 18.00



**Table 41 - Template EU CR1: Performing and non-performing exposures and related provisions (2 of 3)**

		g	h	i	j	k	l
		<b>Accumulated impairment, accumulated negative changes in fair value due to credit risk and provisions</b>					
		<b>Performing exposures – accumulated impairment and provisions</b>			<b>Non-performing exposures – accumulated impairment, accumulated negative changes in fair value due to credit risk and provisions</b>		
			<b>of which STAGE 1</b>	<b>of which STAGE 2</b>		<b>of which STAGE 2</b>	<b>of which STAGE 3</b>
005	Cash balances at central banks and other demand deposits	(622)	(517)	(105)	-	-	-
010	Loans and advances	(250,142)	(62,213)	(182,571)	(754,175)	-	(677,178)
020	Central banks	-	-	-	-	-	-
030	General governments	(1,027)	(801)	(226)	(418)	-	(418)
040	Credit institutions	(507)	(507)	-	-	-	-
050	Other financial corporations	(11,630)	(11,302)	(328)	(20,325)	-	(20,325)
060	Non-financial corporations	(166,435)	(27,693)	(136,188)	(567,095)	-	(502,534)
070	Of which SMEs	(105,063)	(12,890)	(89,867)	(409,176)	-	(357,106)
080	Households	(70,543)	(21,910)	(45,829)	(166,336)	-	(153,900)
090	Debt securities	(9,521)	(4,330)	(5,191)	-	-	-
100	Central banks	-	-	-	-	-	-
110	General governments	(2,134)	(2,134)	-	-	-	-
120	Credit institutions	(2,378)	(1,340)	(1,038)	-	-	-
130	Other financial corporations	(591)	(533)	(58)	-	-	-
140	Non-financial corporations	(4,418)	(323)	(4,095)	-	-	-
150	Off-balance-sheet exposures	(51,716)	(28,165)	(23,212)	(44,550)	-	(12,516)
160	Central banks	-	-	-	-	-	-
170	General governments	(223)	(94)	(129)	(2)	-	-
180	Credit institutions	(98)	(97)	(1)	-	-	-
190	Other financial corporations	(4,566)	(4,541)	(25)	(160)	-	(156)
200	Non-financial corporations	(43,705)	(21,348)	(22,022)	(43,247)	-	(11,895)
210	Households	(3,124)	(2,085)	(1,036)	(1,141)	-	(466)
<b>220</b>	<b>TOTAL AS AT 31/12/2023</b>	<b>(312,000)</b>	<b>(95,225)</b>	<b>(211,079)</b>	<b>(798,725)</b>	<b>-</b>	<b>(689,694)</b>
	<b>TOTAL AS AT 31/12/2022</b>	<b>(184,165)</b>	<b>(69,098)</b>	<b>(112,708)</b>	<b>(889,805)</b>	<b>-</b>	<b>(785,700)</b>

Source: FINREP reporting framework - Breakdown of financial assets by instrument and counterparty: Templates F 04.03.1 - F 04.04.1 - F 04.09 - F 04.10 - F 18.00

**Table 42** - Template EU CR1: Performing and non-performing exposures and related provisions (3 of 3)

		m	n	o
		Accumulated partial write-off	Collateral and financial guarantees received	
			On performing exposures	On non-performing exposures
005	Cash balances at central banks and other demand deposits	-	-	-
010	Loans and advances	(83,467)	22,906,562	502,564
020	Central banks	-	-	-
030	General governments	-	56,251	-
040	Credit institutions	-	237,590	-
050	Other financial corporations	-	1,010,563	8,188
060	Non-financial corporations	(76,469)	10,675,608	348,357
070	Of which SMEs	(44,364)	6,942,046	300,429
080	Households	(6,998)	10,926,549	146,019
090	Debt securities	-	-	-
100	Central banks	-	-	-
110	General governments	-	-	-
120	Credit institutions	-	-	-
130	Other financial corporations	-	-	-
140	Non-financial corporations	-	-	-
150	Off-balance-sheet exposures		771,158	7,237
160	Central banks		-	-
170	General governments		16,583	-
180	Credit institutions		7,789	-
190	Other financial corporations		32,839	-
200	Non-financial corporations		586,923	6,697
210	Households		127,025	540
<b>220</b>	<b>TOTAL AS AT 31/12/2023</b>	<b>(83,467)</b>	<b>23,677,720</b>	<b>509,801</b>
	<b>TOTAL AS AT 31/12/2022</b>	<b>(114,266)</b>	<b>23,006,115</b>	<b>556,575</b>

Source: FINREP reporting framework - Breakdown of financial assets by instrument and counterparty: Templates F 04.03.1 - F 04.04.1 - F 04.09 - F 04.10 - F 18.00



During the 2023 financial year, the Bank continued to finalise securitisation transactions through the bulk sale of non-performing loans in line with the corporate objectives of de-risking and improving average quality of assets in the financial statements. In particular, in the last quarter of the year, it concluded a new transaction called “POP NPLS 2023”, which involved the sale of a portfolio of bad loans with a gross value of 174 million euro.

**Table 43 - Template EU CR1-A: Maturity of exposures**

		a	b	c	d	e	f
		Net exposure value					
		On demand	<= 1 year	> 1 year <= 5 years	> 5 years	No stated maturity	Total
1	Loans and advances	4,281,783	8,421,183	9,210,679	11,915,672	16,909,613	50,738,930
2	Debt securities	288	2,817,982	5,343,596	6,119,189	6,479	14,287,534
<b>3</b>	<b>TOTAL AS AT 31/12/2023</b>	<b>4,282,071</b>	<b>11,239,165</b>	<b>14,554,275</b>	<b>18,034,860</b>	<b>16,916,092</b>	<b>65,026,464</b>

Source: processing of accounting and reporting data

NOTE: The net value of undated exposures associated with “Loans and advances” includes the amount of endorsement credits and loan commitments outstanding at the reporting date.

The table above shows the exposures as at 31 December 2023 of loans and advances disbursed and debt securities in the portfolio classified by maturity. These exposures are mainly positioned in the category with maturities “over 5 years”.

**Table 44 - Template EU CR2: Changes in the stock of non-performing loans and advance**

		31/12/2023
		a
		Gross carrying amount
<b>010</b>	<b>INITIAL STOCK OF NON-PERFORMING LOANS AND ADVANCES</b>	<b>1,462,406</b>
020	Inflows to non-performing portfolios	534,858
030	Outflows from non-performing portfolios	(680,780)
040	Outflow due to write-off	(95,644)
050	Outflow due to other situations	(585,136)
<b>060</b>	<b>FINAL STOCK OF NON-PERFORMING LOANS AND ADVANCES</b>	<b>1,316,484</b>

Source: FINREP reporting framework - Incoming and outgoing non-performing exposures: Template F 24.01

The quarterly outflows of impaired loans and advances recognised in the last quarter of 2023 include the effects of the “POP NPLS 2023” disposal mentioned above.



**Table 45** - Template EU CR2a: Changes in the stock of non-performing loans and advances and related net accumulated recoveries

		31/12/2023	
		a	b
		Gross carrying amount	Related net accumulated recoveries
<b>010</b>	<b>INITIAL STOCK</b>	<b>1,462,406</b>	
020	Inflows to non-performing portfolios	534,858	
030	Outflows from non-performing portfolios	(680,780)	
040	<i>Outflow to performing portfolio</i>	<i>(50,489)</i>	
050	<i>Outflow due to loan repayment, partial or total</i>	<i>(276,298)</i>	
060	<i>Outflow due to collateral liquidation</i>	<i>(57,527)</i>	54,495
070	<i>Outflow due to taking possession of collateral</i>	-	-
080	<i>Outflow due to sale of instruments</i>	<i>(62,891)</i>	21,881
090	<i>Outflow due to risk transfer</i>	<i>(133,992)</i>	28,669
100	<i>Outflow due to write-off</i>	<i>(95,644)</i>	
110	<i>Outflow due to other situations</i>	<i>(3,939)</i>	
120	<i>Outflow due to reclassification as held for sale</i>	-	
<b>130</b>	<b>FINAL STOCK</b>	<b>1,316,484</b>	

Source: FINREP reporting framework - Incoming and outgoing non-performing exposures: Template F 24.01

The totality of the evidence presented in the tables above and below attests to the further improvement in the quality of the Group's credit assets. As at 31 December 2023, both the stock of non-performing exposures and their impact on total loans decreased. The coverage levels of non-performing loans, inspired by prudent provisioning policies, remained at high levels, although slightly down from the end of the previous year.



**Table 46** - Template EU CQ1: Credit quality of forborne exposures (1 of 2)

		a	b	c	d
		Gross carrying amount/nominal amount of exposures with forbearance measures			
		Performing forborne	Non-performing forborne		
			Of which defaulted	Of which impaired	
005	Cash balances at central banks and other demand deposits	-	-	-	-
010	Loans and advances	330,086	584,514	584,514	562,838
020	Central banks	-	-	-	-
030	General governments	-	-	-	-
040	Credit institutions	-	-	-	-
050	Other financial corporations	101	14,853	14,853	14,853
060	Non-financial corporations	143,648	424,352	424,352	407,393
070	Households	186,337	145,309	145,309	140,592
080	Debt securities	-	-	-	-
090	Loan commitments given	8,011	8,682	8,682	8,682
<b>100</b>	<b>TOTAL AS AT 31/12/2023</b>	<b>338,098</b>	<b>593,195</b>	<b>593,195</b>	<b>571,520</b>
	<b>TOTAL AS AT 31/12/2022</b>	<b>440,242</b>	<b>664,550</b>	<b>664,550</b>	<b>646,342</b>

Source: FINREP reporting framework - Information on forborne exposures: Template F 19.00

**Table 47** - Template EU CQ1: Credit quality of forborne exposures (2 of 2)

		e	f	g	h
		Accumulated impairment, accumulated negative changes in fair value due to credit risk and provisions		Collateral received and financial guarantees received on forborne exposures	
		On performing forborne exposures	On non-performing forborne exposures	Of which collateral and financial guarantees received on non-performing exposures with forbearance measures	
005	Cash balances at central banks and other demand deposits	-	-	-	-
010	Loans and advances	(28,298)	(342,395)	497,473	223,444
020	Central banks	-	-	-	-
030	General governments	-	-	-	-
040	Credit institutions	-	-	-	-
050	Other financial corporations	(7)	(14,823)	124	30
060	Non-financial corporations	(14,503)	(243,938)	282,273	167,295
070	Households	(13,788)	(83,634)	215,076	56,119
080	Debt securities	-	-	-	-
090	Loan commitments given	(191)	-	975	546
<b>100</b>	<b>TOTAL AS AT 31/12/2023</b>	<b>(28,489)</b>	<b>(342,395)</b>	<b>498,449</b>	<b>223,990</b>
	<b>TOTAL AS AT 31/12/2022</b>	<b>(20,136)</b>	<b>(366,985)</b>	<b>664,355</b>	<b>272,638</b>

Source: FINREP reporting framework - Information on forborne exposures: Template F 19.00

At the reporting date, forborne exposures showed a decrease compared with 31 December 2022, both in the performing and in the non-performing part of the loan portfolio.

**Table 48** - Template EU CQ2: Quality of forbearance

		31/12/2023	31/12/2022
		a	b
		Gross carrying amount of forborne exposures	Gross carrying amount of forborne exposures
010	Loans and advances that have been forborne more than twice	154,516	168,717
020	Non-performing forborne loans and advances that failed to meet the nonperforming exit criteria	355,209	384,148

Source: FINREP reporting framework- Forbearance management and forbearance quality: Template F 26.00



With regard to forbearance measures granted to customers classified as non-performing at the reporting date, more than a half are positions that did not meet the criteria to shift from the impaired status despite the end of the cure period.

**Table 49 - Template EU CQ3: Credit quality of performing and non-performing exposures by past due days (1 of 2)**

		a	b	c	d	e	f
		Gross carrying amount/nominal amount					
		Performing exposures			Non-performing exposures		
		Not past due or past due ≤ 30 days	Past due > 30 days ≤ 90 days	Unlikely to pay that are not past due or are past due ≤ 90 days	Past due > 90 days ≤ 180 days		
005	Cash balances at central banks and other demand deposits	4,678,201	4,678,201	-	-	-	-
010	Loans and advances	34,202,004	34,124,828	77,175	1,316,484	704,313	95,228
020	Central banks	-	-	-	-	-	-
030	General governments	318,716	318,715	-	441	1	-
040	Credit institutions	693,623	693,623	-	-	-	-
050	Other financial corporations	3,027,842	3,027,841	1	28,566	26,031	-
060	Non-financial corporations	18,044,788	17,997,551	47,237	961,913	490,760	63,088
070	Of which SMEs	9,367,421	9,342,441	24,980	726,247	385,882	47,172
080	Households	12,117,035	12,087,098	29,937	325,564	187,522	32,141
090	Debt securities	14,297,054	14,297,054	-	-	-	-
100	Central banks	-	-	-	-	-	-
110	General governments	11,112,963	11,112,963	-	-	-	-
120	Credit institutions	1,549,139	1,549,139	-	-	-	-
130	Other financial corporations	1,225,630	1,225,630	-	-	-	-
140	Non-financial corporations	409,323	409,323	-	-	-	-
150	Off-balance-sheet exposures	26,106,300			196,069		
160	Central banks	50,000			-		
170	General governments	796,295			216		
180	Credit institutions	1,009,920			-		
190	Other financial corporations	1,497,065			370		
200	Non-financial corporations	19,934,325			187,712		
210	Households	2,818,695			7,771		
220	<b>TOTAL AS AT 31/12/2023</b>	<b>79,283,559</b>	<b>53,100,084</b>	<b>77,175</b>	<b>1,512,553</b>	<b>704,313</b>	<b>95,228</b>
	<b>TOTAL AS AT 31/12/2022</b>	<b>76,531,621</b>	<b>53,146,547</b>	<b>51,095</b>	<b>1,641,800</b>	<b>651,625</b>	<b>69,852</b>

Source: FINREP reporting framework - Information on performing and impaired exposures: Template F 18.00

**Table 50** - Template EU CQ3: Credit quality of performing and non-performing exposures by past due days (2 of 2)

		g	h	i	j	k	l
		Valore contabile lordo / importo nominale					
		Esposizioni deteriorate					
		Past due > 180 days ≤ 1 year	Past due > 1 year ≤ 2 years	Past due > 2 years ≤ 5 years	Past due > 5 years ≤ 7 years	Past due > 7 years	Of which defaulted
005	Cash balances at central banks and other demand deposits	-	-	-	-	-	-
010	Loans and advances	119,453	81,090	132,974	65,802	117,624	1,316,484
020	Central banks	-	-	-	-	-	-
030	General governments	40	1	398	-	1	441
040	Credit institutions	-	-	-	-	-	-
050	Other financial corporations	212	5	29	-	2,290	28,566
060	Non-financial corporations	88,328	64,904	96,410	62,069	96,354	961,913
070	Of which SMEs	77,699	52,207	67,429	57,559	38,299	726,247
080	Households	30,873	16,180	36,137	3,733	18,978	325,564
090	Debt securities	-	-	-	-	-	-
100	Central banks	-	-	-	-	-	-
110	General governments	-	-	-	-	-	-
120	Credit institutions	-	-	-	-	-	-
130	Other financial corporations	-	-	-	-	-	-
140	Non-financial corporations	-	-	-	-	-	-
150	Off-balance-sheet exposures						196,069
160	Central banks						-
170	General governments						216
180	Credit institutions						-
190	Other financial corporations						370
200	Non-financial corporations						187,712
210	Households						7,771
220	<b>TOTAL AS AT 31/12/2023</b>	<b>119,453</b>	<b>81,090</b>	<b>132,974</b>	<b>65,802</b>	<b>117,624</b>	<b>1,512,553</b>
	<b>TOTAL AS AT 31/12/2022</b>	<b>123,522</b>	<b>135,324</b>	<b>200,019</b>	<b>87,518</b>	<b>195,805</b>	<b>1,641,800</b>

Source: FINREP reporting framework - Information on performing and impaired exposures: Template F 18.00



**Table 51** - Template EU CQ4: Quality of non-performing exposures by geography (1 of 2)

	a	b	c	d
	<b>Gross carrying/nominal amount</b>			
	<b>Of which: non-performing</b>			<b>Of which: subject to impairment</b>
	<b>Of which: defaulted</b>			
<b>ON-BALANCE-SHEET EXPOSURES</b>	<b>49,815,542</b>	<b>1,316,484</b>	<b>1,316,484</b>	<b>49,419,190</b>
Italy	38,116,174	1,217,081	1,217,081	37,771,161
Switzerland	5,319,420	89,622	89,622	5,304,796
Spain	1,538,792	-	-	1,538,792
France	1,305,694	7	7	1,304,632
Monaco	397,947	2,729	2,729	397,947
United states	139,865	36	36	139,865
Germany	1,156,466	456	456	1,138,935
Luxembourg	84,406	-	-	72,854
Others	1,756,777	6,553	6,553	1,750,208
<b>OFF-BALANCE-SHEET EXPOSURES</b>	<b>26,302,368</b>	<b>196,069</b>	<b>196,069</b>	
Italy	24,343,961	196,062	196,062	
Switzerland	525,900	6	6	
Spain	74,739	-	-	
France	132,269	-	-	
Monaco	446,316	-	-	
United states	62,496	-	-	
Germany	69,007	-	-	
Luxembourg	100,092	-	-	
Others	547,589	-	-	
<b>TOTAL</b>	<b>76,117,910</b>	<b>1,512,553</b>	<b>1,512,553</b>	<b>49,419,190</b>

Source: FINREP reporting framework - Geographical breakdown of activities: Templates F 20.04 - F 20.05

**Table 52** - Template EU CQ4: Quality of non-performing exposures by geography (2 of 2)

	e	f	g
	Accumulated impairment	Provisions on off-balance sheet commitments and financial guarantees given	Accumulated negative changes in fair value due to credit risk on nonperforming exposures
<b>ON-BALANCE-SHEET EXPOSURES</b>	<b>(995,901)</b>		<b>(17,936)</b>
Italy	(949,853)		(17,936)
Switzerland	(38,612)		-
Spain	(444)		-
France	(481)		-
Monaco	(686)		-
United states	(391)		-
Germany	(827)		-
Luxembourg	(14)		-
Others	(4,593)		-
<b>OFF-BALANCE-SHEET EXPOSURES</b>		<b>96,266</b>	
Italy		95,499	
Switzerland		364	
Spain		17	
France		4	
Monaco		198	
United states		5	
Germany		8	
Luxembourg		16	
Others		154	
<b>TOTAL</b>	<b>(995,901)</b>	<b>96,266</b>	<b>(17,936)</b>

Source: FINREP reporting framework - Geographical breakdown of activities: Templates F 20.04 - F 20.05

The table shows the countries to which the Group's total cash and off-balance sheet exposures exceed the 0.2% minimum threshold.

As at 31 December 2023, the major part of the Group's exposures (both on- and off-balance sheet items) related to counterparties resident in Italy. They account for about 76.5% of total on-balance sheet exposures and about 92.6% of total off-balance sheet exposures. The concentration of domestic exposures on the sub-set of non-performing loans is even more marked: 92.4% and nearly 100%, respectively, are the percentages of incidence calculated on the impaired segment alone.

Considering the ongoing military conflict between Russia and Ukraine, in order to provide an exhaustive picture of the Group's risk profile in respect of the affected countries, it should be noted that direct exposures to the two countries remained low at 31 December 2023 (0.04% of gross balance sheet exposure). Exposures to countries involved in the Israeli-Palestinian crisis are also immaterial.



**Table 53** - Template EU CQ5: Credit quality of loans and advances by industry

		a	b	c	d	e	f
		Gross carrying amount				Accumulated impairment	Accumulated negative changes in fair value due to credit risk on non-performing exposures
		Of which: non-performing		Of which: loans and advances subject to impairment			
		Of which: defaulted					
010	Agriculture, forestry and fishing	336,816	16,048	16,048	322,288	(6,798)	-
020	Mining and quarrying	111,176	1,127	1,127	111,176	(4,334)	-
030	Manufacturing	5,148,269	141,270	141,270	5,122,901	(132,834)	(5,715)
040	Electricity, gas, steam and air conditioning supply	777,093	9,497	9,497	772,544	(8,283)	-
050	Water supply	248,314	800	800	248,314	(2,394)	-
060	Construction	1,722,636	221,022	221,022	1,684,128	(144,273)	(1,286)
070	Wholesale and retail trade	3,599,819	105,934	105,934	3,572,742	(85,520)	(1,037)
080	Transport and storage	441,176	28,895	28,895	437,615	(17,289)	(49)
090	Accommodation and food service activities	969,103	68,307	68,307	952,565	(56,746)	(108)
100	Information and communication	340,239	25,835	25,835	339,705	(19,230)	(11)
110	Financial and insurance activities	333,953	27,362	27,362	333,374	(20,087)	-
120	Real estate activities	2,534,503	220,174	220,174	2,474,233	(144,269)	(5,000)
130	Professional, scientific and technical activities	987,909	59,213	59,213	980,036	(42,912)	(1,575)
140	Administrative and support service activities	421,182	16,554	16,554	419,551	(14,681)	(24)
150	Public administration and defence, compulsory social security	-	-	-	-	-	-
160	Education	43,337	1,181	1,181	43,170	(1,305)	-
170	Human health services and social work activities	334,567	1,437	1,437	333,415	(2,554)	-
180	Arts, entertainment and recreation	255,885	11,102	11,102	255,465	(11,205)	(36)
190	Other services	400,724	6,153	6,153	399,343	(3,976)	-
<b>200</b>	<b>TOTAL AS AT 31/12/2023</b>	<b>19,006,701</b>	<b>961,913</b>	<b>961,913</b>	<b>18,802,567</b>	<b>(718,689)</b>	<b>(14,841)</b>
	<b>TOTAL AS AT 31/12/2022</b>	<b>18,130,973</b>	<b>1,066,164</b>	<b>1,066,164</b>	<b>17,877,318</b>	<b>(694,947)</b>	<b>(14,343)</b>

Source: FINREP reporting framework - Breakdown by NACE codes of loans and advances: Template F 06.01





At 31 December 2023, the business sectors where the exposures were most concentrated were: Manufacturing (27.1% of total exposure), Wholesale and Retail Trade (18.9% of total exposure) and Real Estate (13.3% of total exposure). With reference to the impaired segment only, the prevailing segments were: Construction (23.0% of total impaired exposures), Real Estate (22.9% of total impaired exposures) and Manufacturing (14.7% of total impaired exposures).

**Table 54** - Template EU CQ6: Collateral valuation - loans and advances (1 of 2)

		a	b	c	d	e
		Loans and advances				
		Performing			Non performing	
		Of which past due > 30 days < 90 days			Unlikely to pay that are not past due or are past due <= 90 days	
010	Gross carrying amount	35,518,487	34,202,004	77,175	1,316,484	704,313
020	Of which secured	19,815,015	18,739,646	52,591	1,075,369	577,686
030	Of which secured with immovable property	13,717,537	12,976,655	34,875	740,881	423,474
040	Of which instruments with LTV higher than 60% and lower or equal to 80%	4,618,758	4,474,814		143,945	94,903
050	Of which instruments with LTV higher than 80% and lower or equal to 100%	437,684	358,864		78,820	30,461
060	Of which instruments with LTV higher than 100%	313,790	185,487		128,304	37,013
070	Accumulated impairment for secured assets	(750,288)	(179,755)	(4,093)	(570,533)	(233,741)
080	Collateral					
090	Of which value capped at the value of exposure	17,629,109	17,225,430	35,624	403,679	287,590
100	Of which immovable property	14,522,861	14,136,056	31,528	386,805	280,381
110	Of which value above the cap	23,012,758	21,302,632	83,387	1,710,126	1,121,596
120	Of which immovable property	22,015,438	20,356,517	82,877	1,658,920	1,092,324
130	Financial guarantees received	5,780,017	5,681,131	12,058	98,885	55,456
140	Accumulated partial write-off	(83,467)	(40)	-	(83,426)	(3,018)

Source: FINREP reporting framework - Loans and advances: Templates F 23.02 - F 23.03 - F 23.04 - F 23.05 - F23.06



**Table 55** - Template EU CQ6: Collateral valuation - loans and advances (2 of 2)

		f	g	h	i	j	k	l
		Loans and advances						
		Non performing						
		Past due > 90 days						
		Of which past due >90 days <= 180 days	Of which: past due > 180 days <= 1 year	Of which: past due > 1 year <= 2 years	Of which: past due > 2 years <= 5 years	Of which: past due > 5 years <= 7 years	Of which: past due > 7 years	Of which : past due > 7 years
010	Gross carrying amount	612,170	95,228	119,453	81,090	132,974	65,802	117,624
020	Of which secured	497,683	56,164	111,481	71,089	89,847	55,448	113,655
030	Of which secured with immovable property	317,408	30,901	60,327	56,498	67,173	28,969	73,539
040	Of which instruments with LTV higher than 60% and lower or equal to 80%	49,041						
050	Of which instruments with LTV higher than 80% and lower or equal to 100%	48,359						
060	Of which instruments with LTV higher than 100%	91,290						
070	Accumulated impairment for secured assets	(336,792)	(23,777)	(52,716)	(45,786)	(62,373)	(49,503)	(102,635)
080	Collateral							
090	Of which value capped at the value of exposure	116,089	20,100	37,274	20,369	22,564	5,540	10,242
100	Of which immovable property	106,424	17,994	31,143	19,653	22,218	5,408	10,007
110	Of which value above the cap	588,531	69,738	124,525	140,381	88,143	37,137	128,607
120	Of which immovable property	566,596	67,139	119,884	135,149	84,858	35,753	123,814
130	Financial guarantees received	43,429	11,549	21,054	4,766	4,878	405	777
140	Accumulated partial write-off	(80,409)	-	-	(11,060)	(4,996)	(29,821)	(34,531)

Source: FINREP reporting framework - Loans and advances: Templates F 23.02 - F 23.03 - F 23.04 - F 23.05 - F23.06



At 31 December 2023, guaranteed exposures represented more than a half of total loans and advances disbursed by the Group (about 56%); guaranteed exposure rose to approximately 81% for the impaired segment alone.

It should also be noted that, for the portion of the portfolio guaranteed by real estate assets (about 39% of total exposure) only a fraction equal to 13.0% had an LTV ratio (loan/guarantee value) higher than 60% and less than 80%.

**Table 56** - Template EU CQ7: Collateral obtained by taking possession and execution processes

		31/12/2023		31/12/2022	
		a	b	a	b
		Collateral obtained by taking possession		Collateral obtained by taking possession	
		Value at initial recognition	Accumulated negative changes	Value at initial recognition	Accumulated negative changes
010	Property, plant and equipment (PP&E)	-	-	-	-
020	Other than PP&E	64.466	(2.165)	39.803	(1.647)
030	<i>Residential immovable property</i>	9.971	(2.165)	7.106	(1.647)
040	<i>Commercial Immovable property</i>	-	-	-	-
050	<i>Movable property (auto, shipping, etc.)</i>	-	-	-	-
060	<i>Equity and debt instruments</i>	-	-	-	-
070	<i>Other collateral</i>	54.495	-	32.698	-
<b>080</b>	<b>TOTAL</b>	<b>64.466</b>	<b>(2.165)</b>	<b>39.803</b>	<b>(1.647)</b>

Source: FINREP reporting framework - Guarantees obtained by taking possession accumulated: Template F 13.03.1

Similar to as observed at 31 December 2022, the main contributions to the figures above came from the enforcement of collaterals (real guarantees) obtained by the Group on a voluntary basis or in the context of legal proceedings.



**Table 57** - Template EU CQ8: Collateral obtained by taking possession and execution processes - vintage breakdown (1 of 2)

		a	b	c	d	e	f
		Debt balance reduction		Total collateral obtained by taking possessions			
		Gross carrying	Accumulated negative changes	Value at initial recognition	Accumulated negative changes	Foreclosed <= 2 years	
Value at initial recognition	Accumulated negative changes						
010	Collateral obtained by taking possession classified as PP&E	-	-	-	-		
020	Collateral obtained by taking possession other than that classified as PP&E	93,879	(2,165)	64,466	(2,165)	60,870	(1,229)
030	<i>Residential immovable property</i>	9,971	(2,165)	9,971	(2,165)	6,375	(1,229)
040	<i>Commercial immovable property</i>	-	-	-	-	-	-
050	<i>Movable property (auto, shipping, etc.)</i>	-	-	-	-	-	-
060	<i>Equity and debt instruments</i>	-	-	-	-	-	-
070	<i>Other collateral</i>	83,908	-	54,495	-	54,495	-
<b>080</b>	<b>TOTAL AS AT 31/12/2023</b>	<b>93,879</b>	<b>(2,165)</b>	<b>64,466</b>	<b>(2,165)</b>	<b>60,870</b>	<b>(1,229)</b>
	<b>TOTAL AS AT 31/12/2022</b>	<b>91,232</b>	<b>(1,647)</b>	<b>39,803</b>	<b>(1,647)</b>	<b>36,422</b>	<b>(675)</b>

Source: FINREP reporting framework - Incoming and outgoing guarantees obtained by taking possession: Templates F 25.03 - F 25.02

**Table 58** - Template EU CQ8 - Collateral obtained by taking possession and execution processes - vintage breakdown (2 of 2)

		g	h	i	j	k	l
		Total collateral obtained by taking possessions					
		Foreclosed > 2 years <= 5 years		Foreclosed > 5 years		Of which non-current assets held-for-sale	
		Value at initial recognition	Accumulated negative changes	Value at initial recognition	Accumulated negative changes	Value at initial recognition	Accumulated negative changes
010	Collateral obtained by taking possession classified as PP&E			amount	Accumulated		
020	Collateral obtained by taking possession other than that classified as PP&E	3,596	(936)				-
030	<i>Residential immovable property</i>	3,596	(936)	-	-	-	-
040	<i>Commercial immovable property</i>	-	-	-	-	-	-
050	<i>Movable property (auto, shipping, etc.)</i>	-	-	-	-	-	-
060	<i>Equity and debt instruments</i>	-	-	-	-	-	-
070	<i>Other collateral</i>	-	-	-	-	-	-
<b>080</b>	<b>TOTAL AS AT 31/12/2023</b>	<b>3,596</b>	<b>(936)</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
	<b>TOTAL AS AT 31/12/2022</b>	<b>3,382</b>	<b>(972)</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>

Source: FINREP reporting framework - Incoming and outgoing guarantees obtained by taking possession: Templates F 25.03 - F 25.02

At 31 December 2023, collaterals obtained by taking possession and through execution processes remained marginal in terms of numbers. The possession activity focuses almost entirely on residential properties with foreclosure date no later than two years with respect to possession of the property.



## Section 9

# Disclosure of the use of credit risk mitigation techniques (art. 453 CRR/CRR II)

For the purposes of credit risk mitigation, the Group acquires the forms of guarantee typical of banking operations: mainly of a real nature, on real estate and financial instruments, and of a personal nature. The latter principally comprise limited, general guarantees given by individuals and companies whose creditworthiness is considered adequate following a specific assessment.

In collateral security, the debtor or a third party (as guarantor or protection provider), in order to cover the risk of non-performance of the obligation contracted, provides the creditor with the right to be satisfied in a preferential manner, in respect of other creditors, through the proceeds of the collateral asset. The types of typical and atypical collateral most commonly used are:

- mortgage on real estate assets (residential and commercial) or registered movable properties;
- pledge on money and securities deposited with the Group or with third parties;
- pledge on goods and other movable properties, a “universality” of property, credits and other rights concerning movable properties (e.g. patents, trademarks, intangible rights, corporate investments, insurance policies, etc.);
- assignment of loans and receivables;
- special lien;
- salary or pension backed loans (“*cessione del quinto*”).

In personal guarantees, a third party (guarantor or protection provider) explicitly assumes the legal commitment to fulfil an obligation towards the creditor in the event of non-performance by the principal (guaranteed) party. The main forms of personal guarantees acquired by the Group include:

- surety;
- endorsement;
- letter of patronage;
- surety policy (insurance);
- collection mandate;
- guarantees issued by public entities (guaranteed by the State).

Guarantees received may only be valid for management purposes or they may also be recognised for prudential purposes as credit risk mitigation (CRM) instruments when calculating capital absorption. In this regard, unless otherwise required by the supervisory rules applicable to the individual Group Companies, accessory guarantees must comply with defined eligibility requirements from the moment they are created and for the entire duration. In general, a guarantee:

- must be legally valid, effective, binding on the protection provider and enforceable against third parties in all relevant jurisdictions, even in the event of the client or guarantor’s insolvency (legal certainty);
- must ensure prompt realisation in the event of default, also through the adoption of techniques and procedures that allow immediate activation of recovery measures (timeliness of realisation).

To the above, more specific supervisory requirements may be added for the individual types of collateral or personal guarantee in relation to their characteristics.

It is fundamental, with regard to personal guarantees, to check the quality of the guarantor's assets. This analysis is not limited to the initial phase of the guarantee relationship, but is repeated until the relationship ends. If the guarantor is found to be economically unsuitable, the Group reviews the relationship in order to verify the continued reliability of the borrowing counterparty.

The estimated value of collateral offered by counterparties is "discounted" on a prudent basis, having regard for the nature of the asset made available (mortgages on buildings, pledges of cash or other financial instruments, etc.).

In real estate guarantees, the Bank ensures that the value of the property to be reported in the appropriate procedures is equal to the "fair value" of the asset, given by its "market value", appropriately adjusted by the specific haircuts applied to take into account possible unexpected decreases in value and any third party pre-emption rights to the property. This value is determined on the basis of a prudent assessment of the future marketability of the property, taking into account the long-term durability of the asset, normal local market conditions, the current use of the property and its appropriate alternative uses. During the periodical review of the credit relationship, or in conjunction with events relating to the loan granted and/or the protection acquired, the persistence of the value of the guarantee and its ability to mitigate the credit risk assumed are assessed.

As mentioned, the risk mitigation effects of having additional guarantees can be considered in the calculation of the capital requirement for credit risk. The adoption of CRM techniques is permitted for all banks, irrespective of the method chosen for calculating credit risk capital requirements ("standardised", "foundation IRB" or "advanced IRB"), albeit with some differences in terms of the type of instruments recognised and how the capital impact is calculated.

As part of the standardised approach, the guarantees that are allowed contribute both to the risk weighting to be applied to the part of the exposure backed by the credit protection, and as an element that directly reduces the amount of the exposure. As part of the advanced IRB approach, the credit risk mitigation effects produced by the use of CRM techniques in estimating risk parameters are taken into account.

With regard to mortgage guarantees, the Group adopts reliable principles and standards for the valuation of properties in order to obtain realistic and detailed estimates of the value of the assets being used as collateral. There are also systems capable of ensuring the efficient management and timely evaluation of the encumbered assets, by means of a census of the mortgaged properties and expert appraisals that can be filed on specific IT procedures.

Also in order to comply with the supervisory provisions, a revaluation is carried out using statistical indexing methods at least annually for residential and commercial/instrumental assets. There are also processes for regular updating of the appraisal values of the collateral properties, especially to those operations which, in consideration of the risk profile, require constant checks and, based on their results, the preparation of any corrective measures. If the use of advanced statistical methods is not sufficient for revaluation purposes, the Bank commissions an on-site assessment to ensure that the approach is prudent and proportionate to the type and potential value of the collateral and in relation to the credit agreements.

By virtue of this, at Banca Popolare di Sondrio the assessment of the properties used to protect impaired loans is updated by means of a new technical appraisal on the date that the loan is classified as non-performing and at least once a year thereafter for as long as it remains classified as an NPL. This applies to all impaired loans, with the exception of those that have a gross value of less than € 300 thousand, for which it is possible to do an index-based valuation.



A further level of control is ensured through a special technical Commission, which is responsible for all activities aimed at ensuring an effective internal control system over the activities of the providers and experts entrusted from time to time with the performance of estimation activities for the determination of the value of real estate as collateral.

Property must meet specific requirements in order to mitigate lending risk (value of the property independent of the creditworthiness of the counterparty, loan repayments independent of cash flows deriving from the asset, and residential property used directly or rented). These requirements are checked by the local Units and the electronic credit application is processed for subsequent checks by the credit investigators and the approval Bodies.

The value of collaterals given in the form of financial instruments listed on regulated markets is automatically revised each day with reference to the quoted prices, in order to check that the cover remains within the agreed line of credit or, otherwise, the position is examined by the managers on a timely basis.

Collaterals and personal guarantees are accepted as a subsidiary support for the credit line granted, as they are not considered as substitutes for the debtor's own repayment capacity. When acquiring, assessing, verifying and realising guarantees, suitable structural arrangements and processes are adopted to ensure that they will prevail over third parties and can be enforced, both at the time and in the future, in the event of the debtor's default. The central functions that perform the above checks are different from the functions that grant and review lending.

As part of its policy and coordination functions, the Parent Company requires the Subsidiaries to adopt suitable internal processes for the efficient management and prudent evaluation of the guarantees acquired.

Banca Popolare di Sondrio (SUISSE) adopts credit risk mitigation techniques substantially in line with those of the Parent Company. In particular, it is standard practice to provide loans secured by real estate or financial guarantees: more than 80% of the loans to customers granted by the subsidiary have a mortgage component, almost exclusively relating to residential building.

As regards the subsidiary Factorit's operations, mitigation to the risk assumed by the factor can be found in the technical practice used to consolidate the transfer of risk versus the assigned debtor and in fragmenting the risk over the series of other persons or entities, a typical approach in operations of this kind. The shorter average maturity and, therefore, faster turnover of factoring loans with respect to normal banking transactions ensures a certain flexibility in the recovery of the resources invested.

In relation to personal loans repayable through the assignment of up to a fifth of one's salary or pension, granted by the subsidiary BNT Banca, the following act as key elements to mitigate the risk assumed: i) with-recourse assignment of the credit, an arrangement in which the co-obligor required to pay the instalments is the debtor's pension fund or employer; ii) the mandatory acquisition of specific insurance coverage required by law to protect against the solvency risk of the debtor and his heirs in the event of premature death or loss of employment of the counterparties, signed directly by BNT Banca as party in the contract.

Group entities do not have offsetting agreements relating to on-balance sheet and off-balance sheet transactions and do not hedge transactions using credit derivatives.



The concentration of credit risk mitigation instruments is strictly related to the type of credit operations carried out by the Group. The collateral portfolio is primarily composed of real collateral, mostly consisting of mortgages on real estate that expose to the risk factor represented by price trends in the real estate market in the Group entities' settlement areas. Personal guarantees constitute a secondary share of the overall portfolio. The main type of guarantor is the "Sovereign" category (roughly 65% of the total), followed by guarantors classified as "Retail" and "Corporate" (respectively about 17% and 12% of the total). With reference to guarantors, it is shown that a significant proportion of them (about 67%) are in the best internal rating classes.

\* \* \*

Summarised below are the Group's exposures as at 31 December 2023 in the form of loans and advances disbursed and debt securities held for investment purposes, covered and uncovered by guarantees - collateral or financial - acquired as credit risk mitigation (CRM) instruments recognised under applicable accounting rules, regardless of whether such techniques are deemed to be permissible forms of credit protection under current prudential regulations.

**Table 59** - Template EU CR3 - CRM techniques overview: Disclosure of the use of credit risk mitigation techniques

		Unsecured carrying amount	Secured carrying amount			
			a	b	Of which secured by collateral	Of which secured by financial guarantees
						c
		a	b	c	d	e
1	Loans and advances	15,782,624	23,409,126	17,629,109	5,780,017	-
2	Debt securities	14,287,534	-	-	-	-
<b>3</b>	<b>TOTAL AS AT 31/12/2023</b>	<b>30,070,157</b>	<b>23,409,126</b>	<b>17,629,109</b>	<b>5,780,017</b>	<b>-</b>
4	<i>Of which non-performing exposures</i>	59,745	502,564	403,679	98,885	-
EU-5	<i>Of which defaulted</i>	59,745	502,564	403,679	98,885	-
	<b>TOTAL AS AT 31/12/2022</b>	<b>30,887,130</b>	<b>22,763,413</b>	<b>17,000,726</b>	<b>5,762,687</b>	<b>-</b>

Source: FINREP reporting framework - Breakdown of loans and advances, collateral for loans and advances: Templates F 05.01 - F 13.01 - F 18.00

At 31 December 2023 there were no significant changes compared with last year in the proportions of unsecured exposures (around 56% of the total at 31/12/2023) and exposures secured by CRM techniques (around 44% of the total at 31/12/2023) and, within the latter, between exposures secured by collateral (around 75% of the total secured at 31/12/2023) and by personal guarantees (around 25% of the total secured at 31/12/2023). No risk hedging transactions were made using credit derivatives.



# Section 10

## Disclosure of the use of the standardised approach to credit risk (articles 444 and 453 CRR/CRR II)

### External institutions used

For the purpose of calculating risk-weighted credit and counterparty assets according to the supervisory “Standardised Approach”, the Group has chosen to use the following external institutions for the assessment of the counterparty creditworthiness (ECAI - External Credit Assessment Institutions).

**Tabella 60** - List of ECAIs used to weight credit risk exposures and securitisation positions - Standardised approach

Regulatory class	ECAI	Tipo di rating <sup>(1)</sup>
Exposures to Central Administration or Central Banks	Scope Ratings	Unsolicited
Exposures to supervised intermediaries	FitchRatings Standard & Poor's Rating Services	Solicited
Exposures to international organisations	FitchRatings Standard & Poor's Rating Services	Solicited
Exposures to multilateral development banks	Standard & Poor's Rating Services	Solicited
Exposures to corporates and other parties	Cerved Rating Agency	Unsolicited
Securitisation exposures	DBRS Ratings Limited Moody's Investors Service Scope Ratings	Solicited
Covered bonds	FitchRatings Standard & Poor's Rating Services	Solicited

<sup>1</sup> *Solicited rating: rating issued on request from the rated party for a consideration.  
Unsolicited rating: rating issued in the absence of a request from the rated entity.*

### Process for extending issuer or issue-related credit assessments to comparable assets not included in the regulatory trading book

In compliance with the provisions of Regulation (EU) 575/2013 (CRR), the criteria, summarised below, regarding the use of ECAI issue and issuer ratings for the purpose of risk assessment of exposures and mitigation of guarantees have been defined.

To assess the risk weighting factor to be assigned to exposures, the Group primarily refers to the following rules regarding use of the rating:

1. issuer ratings are attributed to comparable financial assets, regardless of their allocation portfolio (banking or trading).  
The issuer ratings of companies belonging to an economic and/or legal group are not extended to other legal entities belonging to the same group;
2. issue ratings are used in the case of financial instrument exposures.

With reference to point (2), the Group adopts a rule of precedence, which provides for the priority use of the issue rating; only if this is not available, where the conditions dictated by the CRR exist, the rating relating to the issuer is used.

It should be noted that the ECAI rating used is always the long-term rating.



To assess the eligibility of guarantees with a view to CRM, as well as the regulatory volatility adjustments attributed as part of the regulatory formulas for calculating the capital requirements, in general the prevalence rule as above was set for all regulatory exposure portfolios (priority use of issue rating and, in its absence, of issuer rating).

\* \* \*

The following table shows, for each of the Group's exposure classes as at 31 December 2023, the effect of the credit risk mitigation (CRM) techniques recognised as part of the determination of the capital requirement for credit risk under the "Standardised Approach". The relative RWA density is also measured for each regulatory class, a summary indicator of risk comparison between portfolios of exposures.

**Table 61** - Template EU CR4 - Standardised approach – Credit risk exposure and CRM effects

Exposures class	Exposures before CCF and CRM		Exposures post CCF and post CRM		RWAs and RWA density		
	On-balance-sheet exposures	Off-balance-sheet exposures	On-balance-sheet exposures	Off-balance-sheet exposures	RWAs	RWA density	
	a	b	c	d	e	f	
1	Central governments or central banks	16,615,780	251,867	19,451,683	229,945	140	0.0007%
2	Regional governments or local authorities	55,958	52,275	56,045	6,604	14,515	23.1694%
3	Public sector entities	384,558	697,711	384,409	43,132	305,350	71.4201%
4	Multilateral development banks	163,066	-	381,003	90	-	-
5	International organizations	176,436	15,572	176,436	287	-	-
6	Institutions	3,717,247	919,407	3,674,400	207,044	1,507,550	38.8399%
7	Corporates	4,720,684	2,411,570	4,453,609	406,394	4,402,941	90.5954%
8	Retail	939,274	474,241	653,517	53,543	396,998	56.1476%
9	Secured by mortgages on immovable property	5,212,022	7,651	5,212,022	2,685	2,129,195	40.8306%
10	Exposures in default	65,746	653	65,024	226	66,958	102.6172%
11	Higher-risk categories	118,732	-	118,732	-	178,099	150.0000%
12	Covered bonds	267,745	-	267,745	-	39,559	14.7749%
13	Institutions and corporates with a short-term credit assessment	-	-	-	-	-	-
14	Collective investments undertakings	346,660	433,289	346,660	25,673	748,195	200.9479%
15	Equity	581,083	-	581,083	-	920,368	158.3884%
16	Other items	1,704,466	20,794	1,704,466	10,397	912,135	53.1899%
<b>17</b>	<b>TOTAL AS AT 31/12/2023</b>	<b>35,069,457</b>	<b>5,285,031</b>	<b>37,526,835</b>	<b>986,020</b>	<b>11,622,002</b>	<b>30.1769%</b>
	<b>TOTAL AS AT 31/12/2022</b>	<b>34,996,750</b>	<b>4,012,610</b>	<b>37,859,183</b>	<b>688,229</b>	<b>10,423,761</b>	<b>27.0414%</b>

Source: COREP reporting framework - Credit and counterparty risks, standardised approach to capital requirements: Template C 07.00

Key:

- *Pre-CCF and pre-CRM exposure: the value of the on-balance sheet or off-balance sheet exposure calculated after the application of loan impairments, deductions and write-offs defined in the Framework but before the application of credit conversion factors (CCF) and the effect of CRM techniques.*
- *Post-CCF and post-CRM exposure: the value of the on-balance sheet or off-balance sheet exposure calculated after the application of the loan impairments, deductions and write-offs defined in the Framework as well as after the application of credit conversion factors (CCF) and the effect of CRM techniques.*
- *RWA density: an indicator measuring the average weighting of credit risk assets, given by the ratio of the weighted exposure amount (RWA) to the amount of on-balance sheet/off-balance sheet exposures calculated after taking into account the effects of credit risk mitigation techniques (CRM) and the application of credit conversion factors (CCF).*



The following tables show the breakdown by asset class and risk weight of the Group's exposures at 31 December 2023 included in the calculation of the capital requirement for credit risk under the "Standardised Approach".

**Table 62** - Template EU CR5: Standardised approach (1 of 3)

EXPOSURES CLASSES	Classes of credit worthiness (Weighting Factors)						
	0%	2%	4%	10%	20%	35%	
	a	b	c	d	e	f	
1	Central governments or central banks	19,681,348	-	-	-	-	-
2	Regional governments or local authorities	-	-	-	-	60,167	-
3	Public sector entities	-	-	-	-	52,061	-
4	Multilateral development banks	381,092	-	-	-	-	-
5	International organizations	176,723	-	-	-	-	-
6	Institutions	-	-	-	-	2,016,498	-
7	Corporates	-	-	-	-	18,231	36,846
8	Retail	-	-	-	-	-	262,127
9	Secured by mortgages on immovable property	-	-	-	-	-	4,678,293
10	Exposures in default	-	-	-	-	-	-
11	Higher-risk categories	-	-	-	-	-	-
12	Covered bonds	-	-	-	164,677	94,809	-
13	Institutions and corporates with a short-term credit assessment	-	-	-	-	-	-
14	Collective investment undertakings	5,489	-	-	9	144	-
15	Equity	-	-	-	-	-	-
16	Other items	908,922	-	-	-	30,455	-
<b>17</b>	<b>TOTAL AS AT 31/12/2023</b>	<b>21,153,575</b>	<b>-</b>	<b>-</b>	<b>164,686</b>	<b>2,272,365</b>	<b>4,977,266</b>
	<b>TOTAL AS AT 31/12/2022</b>	<b>23,120,231</b>	<b>-</b>	<b>-</b>	<b>162,607</b>	<b>1,902,537</b>	<b>4,506,745</b>

Source: COREP reporting framework - Credit and counterparty risks, standardised approach to capital requirements: Template C 07.00

**Table 63** - Template EU CR5: Standardised approach (2 of 3)

EXPOSURES CLASSES		Classes of credit worthiness (Weighting Factors)					
		50%	70%	75%	100%	150%	250%
		<b>g</b>	<b>h</b>	<b>i</b>	<b>j</b>	<b>k</b>	<b>l</b>
1	Central governments or central banks	280	-	-	-	-	-
2	Regional governments or local authorities	-	-	-	2,482	-	-
3	Public sector entities	161,085	-	-	214,395	-	-
4	Multilateral development banks	-	-	-	-	-	-
5	International organizations	-	-	-	-	-	-
6	Institutions	1,521,392	-	-	343,554	-	-
7	Corporates	686,178	103,502	-	3,920,397	94,850	-
8	Retail	-	-	444,933	-	-	-
9	Secured by mortgages on immovable property	6,382	-	163,457	366,575	-	-
10	Exposures in default	-	-	-	61,835	3,415	-
11	Higher-risk categories	-	-	-	-	118,732	-
12	Covered bonds	8,259	-	-	-	-	-
13	Institutions and corporates with a short-term credit assessment	-	-	-	-	-	-
14	Collective investment undertakings	869	-	-	231,953	104,836	435
15	Equity	-	-	-	354,893	-	226,190
16	Other items	-	-	-	688,447	-	87,038
<b>17</b>	<b>TOTAL AS AT 31/12/2023</b>	<b>2,384,446</b>	<b>103,502</b>	<b>608,390</b>	<b>6,184,531</b>	<b>321,834</b>	<b>313,663</b>
	<b>TOTAL AS AT 31/12/2022</b>	<b>2,097,760</b>	<b>84,819</b>	<b>576,416</b>	<b>5,516,032</b>	<b>241,210</b>	<b>310,231</b>

Source: COREP reporting framework - Credit and counterparty risks, standardised approach to capital requirements: Template C 07.00



**Table 64** - Template EU CR5: Standardised approach (3 of 3)

EXPOSURES CLASSES	Classes of credit worthiness (Weighting Factors)			Total	Without rating	
	370%	1250%	Others			
	m	n	o	p	q	
1	Central governments or central banks	-	-	-	19.681.628	-
2	Regional governments or local authorities	-	-	-	62.649	62.649
3	Public sector entities	-	-	-	427.541	314.768
4	Multilateral development banks	-	-	-	381.092	-
5	International organizations	-	-	-	176.723	-
6	Institutions	-	-	-	3.881.444	1.104.146
7	Corporates	-	-	-	4.860.004	2.856.786
8	Retail	-	-	-	707.060	707.060
9	Secured by mortgages on immovable property	-	-	-	5.214.707	5.214.707
10	Exposures in default	-	-	-	65.250	65.250
11	Higher-risk categories	-	-	-	118.732	118.732
12	Covered bonds	-	-	-	267.745	-
13	Institutions and corporates with a short-term credit assessment	-	-	-	-	-
14	Collective investment undertakings	-	28.596	-	372.333	370.876
15	Equity	-	-	-	581.083	581.083
16	Other items	-	-	-	1.714.863	1.714.863
<b>17</b>	<b>TOTAL AS AT 31/12/2023</b>	-	<b>28.596</b>	-	<b>38.512.855</b>	<b>13.110.921</b>
	<b>TOTAL AS AT 31/12/2022</b>	-	<b>28.824</b>	-	<b>38.547.412</b>	<b>12.579.935</b>

Source: COREP reporting framework - Credit and counterparty risks, standardised approach to capital requirements: Template C 07.00

# Section 11

## Disclosure of the use of the IRB approach to credit risk (articles 438, 452 and 453 CRR/CRR II)

### Permission of the competent Authority to use the IRB approach or to apply the transition process

On 27 May 2019, the European Central Bank authorised Banca Popolare di Sondrio Group to adopt its internal rating models for the purpose of determining the amount of capital requirements for credit risk (Advanced IRB Approach - A-IRB) relating to “Corporate” and “Retail” regulatory portfolios, with effects starting from the supervisory reporting at 30 June 2019.

The initial model validation scope includes exclusively the Parent Company Banca Popolare di Sondrio. The subsidiary Factorit will be included in a multi-year roll-out plan for IRB models, which also envisages the extension of advanced risk metrics for exposures in the “Institutions - Intermediaries” regulatory portfolio.

More specifically, the Group has been authorised by ECB to make use of its own internal rating models to estimate the following credit risk parameters:

- PD (Probability of Default), the probability that a borrower will not be able to meet his credit commitments;
- LGD (Loss Given Default), the estimated loss rate associated with a position at the time of default of a borrower;
- EAD (Exposure at Default), an estimate of a borrower’s expected credit exposure at the time of default<sup>17</sup>.

The extension does not include some exposures, which are the subject of a request for authorisation for permanent partial use of the standardised approach (PPU perimeter, Permanent Partial Use). These are specifically included in the following regulatory portfolios:

- “Equity instruments and securitisations”, “Governments and central banks”, “Public sector and territorial entities” and “Enterprises - residual exposures” (including specialised loans) related to the entire Group;
- All portfolios falling within the corporate scope of the subsidiaries Sinergia Seconda, Banca Popolare di Sondrio (SUISSE) and BNT Banca.

Following the last Internal Model Investigation, in October 2023 the ECB granted the Bank permission to use the internal models subject to a previous material model change request. The new rating models have been used with effect from the 31 December 2023 supervisory reporting.

Furthermore, on 29 December 2023, the Group formulated a new request for a model change on the Parent Company’s Corporate and Retail models and for the extension of the AIRB perimeter to the subsidiary Factorit, in accordance with the roll-out plan.

The rating system and the roll-out plan for internal models are monitored by the Bank, which produces a quarterly report on the coverage of the rating system and the monitoring of the roll-out plan and PPU portfolios. The outcomes are presented to the Board of Directors at least annually.

<sup>17</sup> The authorisation received by the Supervisory Authority only concerned the EAD model for “Retail” regulatory portfolio. The development of a similar model for “Corporate” counterparties is instead included in the multi-year roll-out plan..



## Illustration of the general structure, use, management processes and control mechanisms of internal rating systems

### Risk segmentation

The overall Bank's credit portfolio is divided into management classes that combine homogeneous counterparties in terms of characteristics, needs, complexity and amount of credit lines granted, through a deterministic process based on four dimensions: Sector of Economic Activity (SAE code), exposure size, revenues and legal form.

The following is a breakdown of the risk segments into which the entire lending portfolio is classified for management purposes; these are in turn grouped by macro-categories.

Group	Internal segment
<b>Retail</b>	Individuals
	Small Economic Operators
	Small Business
	Retail non-profit institutions
<b>Corporate</b>	SMEs
	Corporate non-profit institutions
	Large enterprises
	Public enterprises
	Non-resident non-financial corporations

The regulatory segmentation adopted for IRB purposes is linked to internal segmentation according to specific correspondences, summarised in the following chart.

Regulatory segment	Internal segment
Individuals	Individuals
Small and medium-sized retail enterprises	Small Economic Operators
	Small Business
	Retail non-profit institutions
Small and medium-sized corporate enterprises	SMEs
	Large enterprises
Other corporate businesses	Public enterprises
	Non-resident non-financial corporations
	Corporate non-profit institutions



## Structure and description of internal rating systems: PD models

The internal models used for the calculation of counterparty PDs are differentiated according to the risk segment to which each counterparty belongs (Corporate, Small Business, POE, Individuals), as well as the phase of the credit process in which they are applied, i.e. at the time of the request for a loan (“acceptance model”) or during its subsequent monitoring (“internal behaviour model”).

The internal behaviour model involves a first level of elementary econometric models to estimate the target variable (the probability of default entry) through a logistic regression between the observed values of it and a set of potentially discriminating independent variables from different information areas (financial statements, internal trend, external trend, qualitative questionnaire).

Discretising the score into bands then defines rating classes, which are then (possibly) worsened in “expert” mode through a matrix of notch down rules that takes into account the presence of a number of categories of detrimental events transposed from external information sources, as well as the riskiness of the industry in which the counterparty operates. Finally, the score is (possibly) adjusted through an expert assessment of the impact produced by legal and/or economic relationships.

As limited to the Corporate segment, the rating thus determined can be modified by the appointed operators through an experiential derogation mechanism (override), the proposal of which provides for confirmation or denial by a specific central Rating Desk Office.

The “acceptance model”<sup>18</sup> follows the general scheme for determining the counterparty rating envisaged in the “internal behavioural model” calculation, except for the absence of the “Internal Performance” module and a different way of integrating components related to information acquired from external sources. The derived PD values are then recalibrated to align the average probability of default of the estimate sample to the population’s reference default rate (acting as an “anchor point”).

The process of assigning the rating to the debit counterparties included in the segments covered by internal models is divided into a series of activities.

The first involves the counterparty credit officer acquiring a series of information of a quantitative or qualitative nature (such as the financial statements, where available, and the qualitative questionnaire to integrate the statistical elements of the models). This information is needed to trigger the automatic rating calculation; they are accompanied by any further indications of a behavioural or trend nature (internal and external).

As foreseen by the supervisory regulations, the rating automatically assigned by the system is what is known as a “validated rating”, which can be used in various operating contexts, but this entails an expert-based assessment before it is effectively used. For each new loan application or in case of review/renewal of an existing credit, the “validation” by the competent manager takes place by accepting the rating elaborated by the system; alternatively, when allowed, the manager can propose an exception to the risk assigned automatically.

The rating class resulting from a specific process of monthly recalculation by the system does not replace the “validated rating” in force (which instead continues to be used for the purpose of quantifying the RWAs based on the A-IRB approach),

<sup>18</sup> Specific for “Retail” counterparties. For “Corporate” counterparties, the performance models, net of the “Internal performance” module, are also taken during the initial acceptance phase and applied in full during the credit review/renewal phase..



except in the case where the discrepancy between the two ratings - “calculated” and “validated” - is higher than a specific number of classes; in this situation, the “validated rating” lapses as it is no longer fully representative of the borrower’s riskiness.

Further causes for the cancellation of the rating are envisaged: first and foremost, its natural expiry twelve months after its previous assignment. Unless an automatic rating update is provided, branch operators are promptly notified of the expiry of the ratings assigned to the borrowers they manage, so that they can carry out a new “rating validation”.

The rating scales are specific for management macro-segment and consist of 13 classes for performing positions and 1 class for “default” positions (i.e. credit exposures classified in a Bad Loans, Unlikely to pay or Past Due administrative status).

The 13 internal rating classes related to performing counterparties are also aggregated, for management purposes, into 6 buckets of creditworthiness (Excellent, Good, Medium, Uncertain, Bad, Very Bad) and 3 risk categories (Low Risk, Medium Risk, High Risk).

The following table shows the relative reconciliation with the ECAI ratings - taking as a point of reference the risk classification adopted by Moody’s for the “Corporate” models and the “Small Business”<sup>19</sup> segment in the “Retail” sector (where the reconciliation is not clear, a range of values is given).

Risk	Creditworthiness	Corporate	Retail – Small Business
Low	<i>Excellent</i>	Investment grade	Investment grade
	<i>Good</i>	Investment grade	Speculative grade
Medium	<i>Medium</i>	Speculative grade	Speculative grade
	<i>Uncertain</i>	Speculative grade	Speculative grade
High	<i>Bad</i>	Speculative grade	Speculative grade
	<i>Very Bad</i>	Speculative grade	Speculative grade

## Structure and description of internal rating systems: LGD models

The estimation of Loss Given Default (LGD) models, i.e. the expected value of the ratio of the loss generated by a debtor’s default to the expected exposure amount at the time of default, adheres to well-established methodological approaches.

The models are based on a workout methodological approach, which, in order to calculate the target variable, considers the discounted cash flows resulting from the Bank’s credit recovery activities on non-performing positions.

Estimation is carried out using the modular approach technique. This approach involves dividing the model into several sub-modules, each with its own sample and target variable. All these modules are then subject to independent estimates, which are combined to determine the final LGD calculation.

The components pertaining to the different sub-modules can be classified according to a macro-partition into modules pertaining to non-performing (LGS, Loss Given Sofferenza) and pre-non-performing (DR, Danger Rate) positions.

<sup>19</sup> For details on the management segmentation of exposures, please refer to the following paragraph entitled “Risk Segmentation”



For all modules, a stratification is developed based on the management macro-segment, aimed at distinguishing Businesses from Households, as shown below:

Model	Internal segment
<b>Companies</b>	Small Business
	Retail non-profit institutions
	SMEs
	Corporate non-profit institutions
	Large enterprises
	Non-resident non-financial corporations
	Public enterprises
<b>Households</b>	Individuals
	Small Economic Operators

In the LGS model, the aim is to analyse the behaviour, in terms of the flow of movements, that characterises positions classified as non-performing throughout their life cycle.

The components that are investigated to define the loss rate of a non-performing position are: (i) exposure: principal debit activity; (ii) recoveries: principal and/or interest collection activity; (iii) direct costs: expense debit and collection activity (invoices, taxes, fees).

The model is estimated by considering a set of closed and open positions beyond a specific cut-off date. It is then recalibrated by introducing specific corrections related to the inclusion of open positions that have not reached the time-to-workout and non-performing loans subject to massive disposal pursuant to Art 500 of Regulation (EU) 2019/876.

In the DR model, the objective is to quantify the probability of a counterparty's transition to non-performing status and, with it, the potential evolution of its exposure in the states of credit deterioration preceding legal action.

Three main modules are identified within the DR:

- Probability of Transition to Bad Loans (DRP): estimate of the probability of transition from any administrative status to bad loans
- Change in Exposure (DRS): estimation of the change in exposure from default to non-performing status
- Loss Performing (DRB): estimate of the loss in the case of return from a default status to a performing status.

The described "performing" versions of LGS and DR are supplemented by the "default" version by means of the Expected Loss Best Estimate (ELBE) and Defaulted Assets (DA) components. For these components, a dynamic re-evaluation is performed at various instants in the life of the default both of the target variable and of the drivers potentially significant in explaining its evolution.

To determine the final LGD parameter to be applied, other model components are also available, such as the indirect costs linked to credit recovery processes, the occurrence of bankruptcy revocations and the potential losses associated with the positions subject to partial write-off.



In addition, in order for the LGD values to duly take into account the typical adverse effects of an economic slowdown, an additional “downturn” factor is estimated.

Finally, checks were carried out in order to introduce margins of conservatism in the estimates, by means of MoC (Margin of Conservatism) types A (methodological deficiencies), B (major process changes) and C (general estimation error).

In general, the estimation of the parameters of the various LGD modules differs according to the type of product, the level of exposure, the possible presence of collateral securing the loan granted and certain characteristics of the counterparty.

No override mechanisms are allowed for the calculated LGD values.

## Structure and description of internal rating systems: EAD models

The estimation of Exposure at Default (EAD) models is based on a “modular approach” methodology, whereby the model is divided into several sub-modules, each with its own sample and target variable.

EAD models are estimated by considering, for counterparties with performing status, the management segments Corporate, Individuals and Other Retail, the technical forms of Portfolio Cash, Financial Advances, Mortgages and Loans, while distinguishing between margin or overdrawn positions.

The target variable is identified by the credit conversion factor (CCF) if there is available margin for the counterparty; otherwise it is represented by the overdraft factor (K). In the former case, the factor represents the ratio between (1) the portion of the credit line granted that is undrawn and that is expected to be utilised in the event of a default and (2) the portion not yet utilised. In the latter case, it represents the ratio between the portion used at the time of the default and the portion used at the time performing status was recognised.

To complement the facility drawing parameters, a parameter was estimated to take into account the contribution to the increase in exposure after the transition to default (Drawings After Default).

In addition, in order for the CCF and K values to duly take into account the typical adverse effects of an economic slowdown, an additional “downturn” factor is estimated.

Finally, checks were carried out in order to introduce margins of conservatism in the estimates, by means of MoC (Margin of Conservatism) types A (methodological deficiencies), B (major process changes) and C (general estimation error).

The application of the CCF and K parameters is for regulatory and management purposes.

There are no override mechanisms.

## Uses of the rating system (PD, LGD, EAD)

The internal rating system represents a fundamental element of the Bank's credit processes and procedures. It is fully integrated with them in accordance with regulatory requirements. IRB-related risk metrics are specifically used in the following areas:

- Granting of credit and determination of the decision-making powers
- Credit monitoring
- Asset quality targets
- Management and branch network reporting
- Risk-adjusted pricing
- ICAAP and Risk Appetite Framework (RAF)
- Credit policies
- Impairment.

### Granting of credit and determination of the decision-making powers

Rating systems are key elements of credit analysis in the preliminary investigation of new loan applications and in the mechanism for establishing decision-making powers in matters of credit disbursement and renewal, as the competent decision-making body is, inter alia, identified according to the risk profiles of the transaction to be resolved, of the borrower and any counterparties connected to it (and related exposures), involving the use of internal parameters.

These risk factors are also assessed upon the renewal/revision of outstanding loans, allowing for automatic revision in the presence of specific solvency criteria, including maximum thresholds for the counterparty's probability of default, differentiated by risk segment.

### Credit monitoring

The credit monitoring process includes an automatic predictive "early warning" system designed to detect as timely as possible potentially problematic counterparties through a set of events or indicators acting as symptoms of difficulty in order to calibrate the organisational effort in the management of anomalous positions by addressing them within dedicated "monitoring processes", differentiated by level of risk intercepted and customer segment, and, ultimately, allowing rapid and effective intervention by the managers, where necessary.

The monitoring system is based on several indicators that act as signals of a potential deterioration in credit quality of the positions; these include changes in internal rating classes assigned to individual counterparties, as well as the existence of overdrawn past due situations, the occurrence of external prejudicial events and any credit anomalies in the Central Credit Register ("Centrale dei Rischi" database) regarding the positions under observation.

### Internal reporting

On a periodic basis, the Bank prepares management-level reports on evolutionary aspects of credit portfolio composition and associated risks, lending dynamics and coverage of exposures. This reporting, structured in accordance with internal risk measurement methodologies, constitutes a valuable informative support to top management and other competent corporate bodies for the related assessments and decisions in the matter. Two reporting tools for risk-based analyses around the composition of the loan portfolio, updated on a monthly basis, are also addressed to the commercial network.



## Risk-adjusted pricing

To support the determination of the price levels of loans that adequately compensate the risks associated with each transaction, the Bank has developed an Economic Value Added (EVA) calculation tool which is integrated within the electronic credit line system. This measure of “value creation” can be calculated by operators, both ex-ante (i.e. during the appraisal phase, prior to disbursement of a new loan) and ex-post (i.e. to monitor the ongoing risk-return profile of the credit exposures), it is based on the amount of the “expected credit loss”, quantified for each position based on the risk parameters produced by the rating system, aimed at facilitating the formation of spreads on risk-related loans.

## ICAAP and Risk Appetite Framework (RAF)

Within the ICAAP (Internal Capital Adequacy Assessment Process), the amount of capital needs related to risks to which the Groups’ credit portfolio is exposed under current and forward-looking scenarios is assessed to evaluate capital resilience, even under stressed conditions. In assessing the impacts on the Group’s equity position according to the future prospects expected for operations and in the event of unfavourable economic performance, such assessments assume the use of credit risk factors resulting from internal models for the purpose of quantifying the capital absorbed by the credit risk. For stress tests, these parameters, relating to “Retail” and “Corporate” portfolios, are derived from regulatory parameters calculated through the application of so-called “satellite models”, which provide values for credit risk factors that are conditioned by the macro-economic scenarios defined by the bank.

The risk-based parameters estimated with internal rating models are also integrated in the RAF framework structure through the periodic quantification of key metrics expressing the credit risk appetite of the Bank and the Banking Group as a whole.

## Credit policies

The risk parameters estimated by the system also play an important role in the definition of credit policies, expressed in the form of guidelines and operational guidelines for the commercial network, with a view to configuring the optimal credit portfolio in terms of customer segments, economic sectors and geographical areas.

These guidelines translate into qualitative-quantitative objectives in terms of composition of the credit portfolio aimed at optimising the risk-return profile, limiting the weight of riskier exposures and favouring credit reallocation to segments with lower risks and higher expected profitability; the latter are also determined on the basis of metrics estimated by the internal rating system and the measure of capital absorption calculated with IRB method.

The riskiness summarised by the counterparty PD parameter also contributes to the definition of the sectoral attractiveness underlying the credit policy model.

## Impairment

The lending portfolio is periodically subjected to impairment adjustments by applying the accounting concept of “Expected Credit Losses” (ECL), with the aim of identifying any losses in the economic value of the positions. The type of assessment, based on the concept of “expected credit loss”, can be of a collective or analytical nature, depending on the classification status of the debtor and the amount of the exposure.

The process of determining impairment provisions by means of a collective assessment relates to credit exposures classified as performing, past due and/or overdrawn. In accordance with IFRS 9 - it requires methods for calculating expected losses over the 12 months following the relevant accounting date (for Stage 1 positions) or throughout the entire residual lifetime of the exposures (for Stage 2 positions). On the other hand, positions in a state of probable default or non-performing status are subject to analytical valuation, unless their amount is small: benchmark impairment coefficients based on specific portfolio clustering of positions are applied to these positions<sup>20</sup>.

In the impairment calculation process, IRB-based parameters (PD, LGD, EAD) are appropriately adjusted to satisfy the requirements indicated by the IFRS accounting principles, specifically modelling the “point-in-time”, “forward-looking” and “scenario-dependent” components; in particular, the parameters of PD and Danger Rate for LGD are recalibrated in a short-term perspective. The parameters for the evolution of margins of unused credit lines and overdrawn exposures (EAD) are applied from a management perspective - in this sense, a specific model is also available for the “Corporate” segments, not based on the validated A-IRB solution - net of regulatory floors.

To this end, specific econometric models (“satellite models”) have been set up to estimate on sectoral basis, the possible evolutionary dynamics of the customers’ credit risk factors in correspondence with different macro-economic scenarios.

## Development of the rating system

The process of developing, validating and implementing rating systems consists of the following main stages:

- a.** definition of general methodological principles of model building, with particular reference to the customer segments to which modelling is to be applied, the default definition adopted, the transposition of models into business processes, and the configuration of technological solutions to support the models;
- b.** estimation of internal credit measurement models by defining data requirements, building the data set, identifying the catalogue of indicators, and defining the expert components;
- c.** conducting proficiency checks on the basis of design and development documentation by the internal validation function, which is responsible for classifying the materiality (substantive or otherwise) of the intervention carried out on the model in accordance with Delegated Regulation (EU) No 529/2014;
- d.** the internal validation function performs an activity to assess the adequacy of the system against regulatory requirements and the overall performance of the system. The analyses conducted can lead to the identification of possible critical issues and areas for improvement;
- e.** the internal audit function carries out a review activity aimed at verifying the development activities and performance of the model, its effective use in relevant processes of business management, and the activities carried out by the validation function;
- f.** in the case of “material change,” presentation of the facility first to the managerial Risk Committee for a preliminary opinion, then presentation by the validation function of the results of evaluation carried out, and finally reporting to the Board of Directors, which is called for final approval; in the case of “non-material” type of change to the models, presentation to the Risk Committee, production of information to the validation function and internal audit, and finally reporting to the Board of Directors;
- g.** the relevant IT function puts in place the model, processes and information systems that constitute the architecture of the rating system.

The submission of the application for authorisation to the ECB takes place according to the process indicated by the Authority itself, which provides, in the case of a “substantial change” to internal models, for the submission of a documentary

<sup>20</sup> In this context, a minimum quantitative threshold is established for identifying those credit exposures which, by their nature, are subjected to purely automatic valuation processes.



package in support of the request for change (Application Package), following which an inspection process begins that results in the ECB sending the final decision on the amending application, which may require the satisfaction of corrective measures. On the other hand, in the case of “non-material change” to the models, there is a mere notification (ex-ante or ex-post) to the Supervisory Authority depending on what is stipulated in the regulations.

## Controls and review of the rating system

The degree of reliability of the internal models adopted by the Group is monitored periodically through qualitative and quantitative controls aimed at verifying the performance and maintenance of the original methodological features, with particular regard to the aspects of calibration and stability of the models and their dynamic characteristics. These checks are conducted quarterly or more frequently, where necessary, by the Credit Model Development Office within the Chief Risk Officer (CRO) Area.

The Validation Office - an organisational unit that is separate and independent of the business functions involved in the model development and credit granting processes, reporting directly to the Chief Risk Officer - is responsible for performing periodic ratification checks (second level controls). In particular, the rating system is globally subject to regular validation processes, consisting of a formalised set of activities, tools and procedures aimed at continuously testing the reliability of the results produced by the system, while maintaining its compliance with regulatory requirements, the operational needs of the company and the developments in reference markets. This evidence is represented periodically in the Validation Office Annual Report and, in the case of substantial changes to the A-IRB models (model changes), in the overall reporting submitted to the Board.

The Internal Audit Department, as an independent audit function, also reviews internal rating systems at least once a year, ensuring that they function properly (third-level controls), in compliance with the provisions of Regulation (EU) 575/2013. Specifically, the Department assesses the functionality of the overall control framework over the rating system by verifying the adequacy and completeness of the activities carried out by the competent functions and the consistency and merits of the ratification results, as well as the ongoing compliance of the internal rating-based (A-IRB) system with applicable regulatory requirements. The results of the audits carried out are summarised in a specific report submitted annually to the Board of Directors.

Lastly, the rating systems are managed through a specific organisational process for the evaluation, classification and internal approval of the changes made, differentiated in relation to the relevance of the changes envisaged, which provides for notification obligations or requests for approval to the Supervisory Authority, in accordance with the requirements set by Regulation (EU) No 529/2014.

\* \* \*

The tables below show, for each exposure class envisaged at regulatory level, the values as at 31 December 2023 of the main parameters used by the Group to calculate capital requirements for credit risk under the “Advanced IRB Approach” (A-IRB). In particular, the following are specified per individual counterparty PD value range:

- information on the value of the nominal exposure (on- and off-balance sheet) and EAD;
- information on the number of debtors corresponding to each PD range;
- information on the weighted average PD, weighted average LGD, weighted average credit conversion factor (CCF) and weighted average maturity of exposures;
- information on risk-weighted exposure amounts (RWA) and the RWA density associated with the exposures;
- information on the expected loss quantified on the exposures based on the risk parameters produced by the rating system;
- information on the specific impairment and provisions made in the balance sheet in respect of exposures.



**Table 65** - Template EU CR6 - IRB Approach: Credit risk exposures by exposure class and PD range (1 of 2)

a	b	c	d	e	f	g
PD range	On-balance sheet exposures	Off-balance-sheet exposures pre-CCF	Exposure weighted average CCF	Exposure post CCF and post CRM	Exposure weighted average PD (%)	Number of obligors
<b>Total as exposure</b>						
0.00 to <0.15	1,327,646	3,824,146	8.1790%	1,862,228	-	26,061
0.00 to <0.10	103,725	302,211	7.6990%	205,932	-	10,814
0.10 to <0.15	1,223,920	3,521,935	8.2200%	1,656,297	-	15,247
0.15 to <0.25	2,272,712	3,912,260	13.4990%	2,932,927	-	18,562
0.25 to <0.50	3,416,944	4,040,283	11.1420%	4,192,358	-	27,255
0.50 to <0.75	1,861,259	2,069,038	16.7080%	2,347,280	-	4,892
0.75 to <2.50	5,592,588	3,832,650	20.6150%	6,906,958	-	35,296
0.75 to <1.75	3,616,681	1,902,453	16.1980%	4,240,273	-	28,369
1.75 to <2.5	1,975,906	1,930,196	24.9690%	2,666,685	-	6,927
2.50 to <10.00	2,581,585	1,679,871	27.3510%	3,415,707	-	20,658
2.5 to <5	1,403,513	993,568	27.2870%	1,875,120	-	10,707
5 to <10	1,178,072	686,302	27.4440%	1,540,587	-	9,951
10.00 to <100.00	992,560	462,912	14.0280%	1,180,475	-	21,782
10 to <20	452,586	131,511	22.9500%	526,139	-	6,522
20 to <30	103,375	54,775	19.9070%	127,854	-	1,529
30.00 to <100.00	436,599	276,626	8.6220%	526,482	-	13,731
100,00 (default)	1,114,098	194,770	29.2080%	1,228,791	-	5,321
<b>TOTAL AS AT 31/12/2023</b>	<b>19,159,391</b>	<b>20,015,929</b>	<b>15.0287%</b>	<b>24,066,724</b>	<b>-</b>	<b>159,827</b>

Source: COREP reporting framework - Credit risk, IRB approach to capital requirements breakdown by PD range: Template C 08.03

Key:

- *On-balance-sheet exposure: original value of the on-balance sheet exposure without taking into account loan impairments and the application of credit conversion factors (CCF).*
- *Pre-CCF off-balance sheet exposure: original value of the off-balance sheet exposure without taking into account loan impairments and the application of credit conversion factors (CCF). Off-balance sheet exposures include all committed but undrawn amounts and all off-balance sheet items listed in Annex I of the CRR.*
- *Post-CCF and post-CRM exposure: the value of the on-balance sheet or off-balance sheet exposure calculated in accordance with the CRR provisions governing the use of the IRB approach after application of credit conversion factors (CCF).*



**Table 66** - Template EU CR6 - IRB Approach: Credit risk exposures by exposure class and PD range (2 of 2)

a	h	i	j	k	l	m
PD range	Exposure weighted average LGD (%)	Exposure weighted average maturity (years)	Risk weighted exposure amount after supporting factors	Density of risk weighted exposure amount	Expected loss amount	Value adjustments and provisions
<b>Total as exposure</b>						
0.00 to <0.15	-	2	237,182	12.7364%	397	(5,184)
0.00 to <0.10	-	2	4,897	2.3779%	19	(101)
0.10 to <0.15	-	2	232,285	14.0244%	378	(5,084)
0.15 to <0.25	-	2	553,013	18.8553%	964	(10,692)
0.25 to <0.50	-	2	887,319	21.1652%	2,523	(22,080)
0.50 to <0.75	-	2	801,042	34.1264%	2,524	(23,775)
0.75 to <2.50	-	2	2,665,793	38.5958%	16,252	(75,404)
0.75 to <1.75	-	2	1,320,645	31.1453%	7,021	(29,459)
1.75 to <2.5	-	3	1,345,147	50.4427%	9,231	(45,945)
2.50 to <10.00	-	3	1,758,351	51.4784%	24,257	(62,874)
2.5 to <5	-	3	840,735	44.8363%	8,611	(25,006)
5 to <10	-	3	917,616	59.5628%	15,646	(37,868)
10.00 to <100.00	-	3	723,990	61.3304%	46,572	(52,087)
10 to <20	-	3	296,424	56.3395%	9,362	(22,549)
20 to <30	-	2	88,616	69.3101%	5,002	(7,365)
30.00 to <100.00	-	3	338,950	64.3802%	32,208	(22,174)
100,00 (default)	-	2	284,248	23.1324%	539,813	(735,314)
<b>TOTAL AS AT 31/12/2023</b>	<b>-</b>	<b>2</b>	<b>7,910,938</b>	<b>32.8709%</b>	<b>633,302</b>	<b>(987,409)</b>

Source: COREP reporting framework - Credit risk, IRB approach to capital requirements breakdown by PD range: Template C 08.03

Key:

- *RWA density: indicator that measures the average risk weighting of credit risk assets, given by the ratio of the weighted exposure amount (RWA) after application of the supporting factors to the value of post-CCF and post-CRM exposures.*
- *Expected loss amount: expected credit loss on on-balance sheet or off-balance sheet exposures calculated in accordance with article 158 of the CRR based on actual risk parameters used in the internal rating system.*
- *Impairment and provisions: the sum of general and specific loan impairments, provisions, and further reductions in own funds related to exposures assigned to each category of PD range.*

**Table 67** - Template EU CR6 - IRB Approach: Credit risk exposures by exposure class and PD range - Central governments or central banks

The template is not published due to the absence of significant exposures treated with the IRB approach in the specific counterparty segment.

**Table 68** - Template EU CR6 - IRB Approach: Credit risk exposures by exposure class and PD range - Institutions

The template is not published due to the absence of significant exposures treated with the IRB approach in the specific counterparty segment.

**Table 69** - Template EU CR6 - IRB Approach: Credit risk exposures by exposure class and PD range - Corporates - SMEs (1 of 2)

a	b	c	d	e	f	g
PD range	On-balance sheet exposures	Off-balance-sheet exposures pre-CCF	Exposure weighted average CCF	Exposure post CCF and post CRM	Exposure weighted average PD (%)	Number of obligors
<b>Corporates - SME</b>						
0.00 to <0.15	409,979	1,370,911	7.1870%	591,873	0.1250%	1,316
0.00 to <0.10	4,270	15,803	2.4820%	5,956	0.0800%	89
0.10 to <0.15	405,709	1,355,108	7.2420%	585,917	0.1260%	1,227
0.15 to <0.25	638,511	915,290	9.0750%	769,357	0.1760%	1,038
0.25 to <0.50	773,084	855,881	14.2640%	960,967	0.3390%	1,047
0.50 to <0.75	862,953	615,777	14.8520%	1,018,421	0.5230%	1,052
0.75 to <2.50	1,888,460	858,251	18.5200%	2,168,438	1.4910%	1,840
0.75 to <1.75	928,054	444,781	14.5230%	1,045,918	1.0640%	995
1.75 to <2.5	960,406	413,470	22.8190%	1,122,520	1.8890%	845
2.50 to <10.00	804,235	448,509	28.5140%	1,039,556	4.6450%	811
2.5 to <5	458,461	182,127	25.7570%	558,163	2.9670%	445
5 to <10	345,774	266,381	30.3990%	481,394	6.5910%	366
10.00 to <100.00	149,022	110,824	13.2950%	178,572	29.2910%	365
10 to <20	59,787	41,857	14.1570%	70,892	13.1490%	103
20 to <30	25,052	16,442	14.9530%	30,492	23.8000%	62
30.00 to <100.00	64,183	52,525	12.0880%	77,188	46.2850%	200
100,00 (default)	587,781	62,431	27.6080%	629,352	100.0000%	301
<b>TOTAL AS AT 31/12/2023</b>	<b>6,114,025</b>	<b>5,237,873</b>	<b>13.6302%</b>	<b>7,356,535</b>	<b>10.5070%</b>	<b>7,770</b>

Source: COREP reporting framework - Credit risk, IRB approach to capital requirements breakdown by PD range: Template C 08.03



**Table 70** - Template EU CR6 - IRB Approach: Credit risk exposures by exposure class and PD range - Corporates - SMEs (2 of 2)

a	h	i	j	k	l	m
PD range	Exposure weighted average LGD (%)	Exposure weighted average maturity (years)	Risk weighted exposure amount after supporting factors	Density of risk weighted exposure amount	Expected loss amount	Value adjustments and provisions
<b>Corporates - SME</b>						
0.00 to <0.15	19.8560%	3	85,942	14.5204%	147	(1,402)
0.00 to <0.10	22.0240%	2	468	7.8594%	1	(7)
0.10 to <0.15	19.8340%	3	85,474	14.5881%	146	(1,395)
0.15 to <0.25	19.0030%	3	123,463	16.0476%	254	(2,962)
0.25 to <0.50	19.8230%	3	249,699	25.9842%	647	(7,164)
0.50 to <0.75	19.7850%	3	321,258	31.5447%	1,054	(10,061)
0.75 to <2.50	18.0060%	3	912,702	42.0903%	5,722	(35,290)
0.75 to <1.75	18.6680%	3	407,834	38.9930%	2,082	(11,877)
1.75 to <2.5	17.3890%	3	504,867	44.9762%	3,640	(23,413)
2.50 to <10.00	17.7960%	3	574,177	55.2329%	8,531	(23,019)
2.5 to <5	17.4240%	3	273,347	48.9727%	2,894	(12,097)
5 to <10	18.2280%	3	300,830	62.4914%	5,638	(10,922)
10.00 to <100.00	18.2540%	3	153,402	85.9051%	9,939	(9,722)
10 to <20	16.9180%	3	52,702	74.3409%	1,580	(3,577)
20 to <30	18.3890%	2	27,520	90.2534%	1,342	(1,623)
30.00 to <100.00	19.4270%	3	73,181	94.8082%	7,016	(4,523)
100,00 (default)	45.7730%	2	139,026	22.0904%	280,728	(376,420)
<b>TOTAL AS AT 31/12/2023</b>	<b>21.0946%</b>	<b>3</b>	<b>2,559,669</b>	<b>34.7945%</b>	<b>307,023</b>	<b>(466,040)</b>

Source: COREP reporting framework - Credit risk, IRB approach to capital requirements breakdown by PD range: Template C 08.03

**Table 71** - Template EU CR6 - IRB Approach: Credit risk exposures by exposure class and PD range - Corporates - Specialised lending

The template is not published due to the absence of significant exposures treated with the IRB approach in the specific counterparty segment.

**Table 72** - Template EU CR6 - IRB Approach: Credit risk exposures by exposure class and PD range - Corporates - Other (1 of 2)

a	b	c	d	e	f	g
PD range	On-balance sheet exposures	Off-balance-sheet exposures pre-CCF	Exposure weighted average CCF	Exposure post CCF and post CRM	Exposure weighted average PD (%)	Number of obligors
<b>Corporates - Others</b>						
0.00 to <0.15	499,205	1,676,539	9.2290%	642,151	0.1270%	226
<i>0.00 to &lt;0.10</i>	<i>4</i>	<i>250</i>	<i>6.7960%</i>	<i>50</i>	<i>0.0800%</i>	<i>3</i>
<i>0.10 to &lt;0.15</i>	<i>499,201</i>	<i>1,676,289</i>	<i>9.2300%</i>	<i>642,101</i>	<i>0.1270%</i>	<i>223</i>
0.15 to <0.25	1,033,715	2,689,035	15.4270%	1,493,950	0.1710%	311
0.25 to <0.50	894,704	2,695,456	10.6840%	1,227,513	0.3400%	250
0.50 to <0.75	718,839	1,127,507	16.8140%	947,732	0.5200%	204
0.75 to <2.50	1,202,015	2,258,278	22.1240%	1,862,058	1.5260%	330
<i>0.75 to &lt;1.75</i>	<i>590,837</i>	<i>979,086</i>	<i>15.5380%</i>	<i>815,417</i>	<i>1.0600%</i>	<i>156</i>
<i>1.75 to &lt;2.5</i>	<i>611,178</i>	<i>1,279,192</i>	<i>27.1640%</i>	<i>1,046,641</i>	<i>1.8900%</i>	<i>174</i>
2.50 to <10.00	442,816	919,142	28.9990%	814,267	4.1530%	131
<i>2.5 to &lt;5</i>	<i>271,618</i>	<i>636,309</i>	<i>30.1860%</i>	<i>525,389</i>	<i>2.9490%</i>	<i>74</i>
<i>5 to &lt;10</i>	<i>171,198</i>	<i>282,833</i>	<i>26.3290%</i>	<i>288,879</i>	<i>6.3430%</i>	<i>57</i>
10.00 to <100.00	19,269	105,734	10.3620%	32,348	26.0270%	79
<i>10 to &lt;20</i>	<i>4,870</i>	<i>30,187</i>	<i>32.0850%</i>	<i>15,498</i>	<i>13.1210%</i>	<i>15</i>
<i>20 to &lt;30</i>	<i>4,417</i>	<i>3,341</i>	<i>11.2970%</i>	<i>5,808</i>	<i>23.4440%</i>	<i>8</i>
<i>30.00 to &lt;100.00</i>	<i>9,982</i>	<i>72,206</i>	<i>1.2360%</i>	<i>11,042</i>	<i>45.4990%</i>	<i>56</i>
100,00 (default)	138,214	87,448	23.8930%	164,076	100.0000%	105
<b>TOTAL AS AT 31/12/2023</b>	<b>4,948,778</b>	<b>11,559,140</b>	<b>15.9626%</b>	<b>7,184,096</b>	<b>3.4409%</b>	<b>1,636</b>

Source: COREP reporting framework - Credit risk, IRB approach to capital requirements breakdown by PD range: Template C 08.03



**Table 73** - Template EU CR6 - IRB Approach: Credit risk exposures by exposure class and PD range - Corporates - Other (2 of 2)

a	h	i	j	k	l	m
PD range	Exposure weighted average LGD (%)	Exposure weighted average maturity (years)	Risk weighted exposure amount after supporting factors	Density of risk weighted exposure amount	Expected loss amount	Value adjustments and provisions
<b>Corporates - Others</b>						
0.00 to <0.15	19.8840%	2	130,690	20.3519%	163	(3.341)
0.00 to <0.10	16.3190%	1	4	7.3324%	0	0
0.10 to <0.15	19.8850%	2	130,686	20.3529%	163	(3.341)
0.15 to <0.25	20.8690%	2	393,446	26.3360%	532	(6.623)
0.25 to <0.50	22.8840%	2	469,924	38.2826%	956	(12.002)
0.50 to <0.75	20.8370%	2	419,147	44.2263%	1,032	(12.301)
0.75 to <2.50	21.1770%	2	1,258,205	67.5707%	5,964	(27.761)
0.75 to <1.75	22.1790%	2	535,023	65.6134%	1,918	(9.048)
1.75 to <2.5	20.3970%	2	723,183	69.0956%	4,046	(18.713)
2.50 to <10.00	19.3160%	2	717,591	88.1271%	6,793	(20.299)
2.5 to <5	17.8110%	2	367,914	70.0270%	2,762	(6.020)
5 to <10	22.0520%	3	349,677	121.0462%	4,031	(14.279)
10.00 to <100.00	19.3090%	2	42,790	132.2811%	1,606	(690)
10 to <20	20.7980%	2	20,723	133.7115%	425	(462)
20 to <30	16.8840%	3	7,444	128.1678%	230	(122)
30.00 to <100.00	18.4940%	3	14,623	132.4369%	951	(106)
100,00 (default)	51.3700%	2	33,366	20.3354%	82,431	(110.557)
<b>TOTAL AS AT 31/12/2023</b>	<b>21.7144%</b>	<b>2</b>	<b>3,465,158</b>	<b>48.2337%</b>	<b>99,476</b>	<b>(193.573)</b>

Source: COREP reporting framework - Credit risk, IRB approach to capital requirements breakdown by PD range: Template C 08.03

**Table 74** - Template EU CR6 - IRB Approach: Credit risk exposures by exposure class and PD range - Retail - Secured by real estate SMEs (1 of 2)

a	b	c	d	e	f	g
PD range	On-balance sheet exposures	Off-balance-sheet exposures pre-CCF	Exposure weighted average CCF	Exposure post CCF and post CRM	Exposure weighted average PD (%)	Number of obligors
<b>Retail - Secured by immovable property SME</b>						
0.00 to <0.15	111,031	3,915	13.7260%	111,997	0.1280%	1,275
0.00 to <0.10	7,748	1,686	26.6930%	8,494	0.0800%	86
0.10 to <0.15	103,283	2,230	3.9240%	103,503	0.1320%	1,189
0.15 to <0.25	371,916	6,124	21.5950%	374,978	0.1930%	3,370
0.25 to <0.50	81,663	2,358	-	82,167	0.3080%	704
0.50 to <0.75	66,888	689	-	67,269	0.6280%	322
0.75 to <2.50	308,910	4,948	18.9710%	313,779	1.4260%	2,105
0.75 to <1.75	175,351	3,023	21.9640%	178,207	1.0820%	1,229
1.75 to <2.5	133,559	1,925	14.2690%	135,572	1.8780%	876
2.50 to <10.00	198,280	2,991	26.4060%	202,747	4.2080%	1,372
2.5 to <5	111,407	2,477	28.8040%	114,268	3.0310%	809
5 to <10	86,872	514	14.8420%	88,479	5.7280%	563
10.00 to <100.00	217,842	2,756	7.0220%	220,269	27.9600%	2,209
10 to <20	70,933	365	15.0530%	71,594	12.3600%	603
20 to <30	37,478	1,185	8.8180%	38,086	21.9300%	316
30.00 to <100.00	109,431	1,205	2.8210%	110,588	40.1370%	1,290
100,00 (default)	79,612	81	-	81,405	100.0000%	494
<b>TOTAL AS AT 31/12/2023</b>	<b>1,436,142</b>	<b>23,862</b>	<b>15.8489%</b>	<b>1,454,612</b>	<b>10.8304%</b>	<b>11,851</b>

Source: COREP reporting framework - Credit risk, IRB approach to capital requirements breakdown by PD range: Template C 08.03



**Table 75** - Template EU CR6 - IRB Approach: Credit risk exposures by exposure class and PD range - Retail - Secured by real estate SMEs (2 of 2)

a	h	i	j	k	l	m
PD range	Exposure weighted average LGD (%)	Exposure weighted average maturity (years)	Risk weighted exposure amount after supporting factors	Density of risk weighted exposure amount	Expected loss amount	Value adjustments and provisions
<b>Retail - Secured by immovable property SME</b>						
0.00 to <0.15	11.2440%	-	3,471	3.0988%	16	(72)
0.00 to <0.10	15.8050%	-	260	3.0630%	1	(4)
0.10 to <0.15	10.8690%	-	3,210	3.1018%	15	(68)
0.15 to <0.25	11.5170%	-	16,432	4.3822%	83	(520)
0.25 to <0.50	14.6270%	-	6,690	8.1417%	37	(227)
0.50 to <0.75	16.6340%	-	10,407	15.4705%	70	(383)
0.75 to <2.50	13.5090%	-	66,324	21.1371%	610	(2,155)
0.75 to <1.75	13.2670%	-	31,325	17.5777%	258	(914)
1.75 to <2.5	13.8260%	-	34,999	25.8159%	352	(1,241)
2.50 to <10.00	13.3960%	-	80,107	39.5108%	1,178	(3,057)
2.5 to <5	13.0850%	-	36,908	32.2995%	464	(1,366)
5 to <10	13.7970%	-	43,199	48.8241%	714	(1,691)
10.00 to <100.00	13.0310%	-	151,150	68.6207%	8,145	(10,793)
10 to <20	12.5120%	-	43,094	60.1924%	1,115	(3,000)
20 to <30	13.7910%	-	29,375	77.1267%	1,149	(3,058)
30.00 to <100.00	13.1060%	-	78,681	71.1476%	5,881	(4,736)
100,00 (default)	33.8770%	-	47,472	58.3161%	24,478	(38,571)
<b>TOTAL AS AT 31/12/2023</b>	<b>14.0805%</b>	<b>-</b>	<b>382,052</b>	<b>26.2649%</b>	<b>34,617</b>	<b>(55,778)</b>

Source: COREP reporting framework - Credit risk, IRB approach to capital requirements breakdown by PD range: Template C 08.03



**Table 76** - Template EU CR6 - IRB Approach: Credit risk exposures by exposure class and PD range - Secured by real estate non-SMEs (1 of 2)

a	b	c	d	e	f	g
PD range	On-balance sheet exposures	Off-balance-sheet exposures pre-CCF	Exposure weighted average CCF	Exposure post CCF and post CRM	Exposure weighted average PD (%)	Number of obligors
<b>Retail - Secured by immovable property non-SME</b>						
0.00 to <0.15	110.905	1.668	8,7200%	112.328	0,1140%	1.637
<i>0.00 to &lt;0.10</i>	<i>34.730</i>	<i>1.308</i>	-	<i>35.742</i>	<i>0,0570%</i>	<i>659</i>
<i>0.10 to &lt;0.15</i>	<i>76.175</i>	<i>361</i>	<i>40,3110%</i>	<i>76.586</i>	<i>0,1400%</i>	<i>978</i>
0.15 to <0.25	-	-	-	-	-	-
0.25 to <0.50	1.225.996	9.568	29,4910%	1.236.679	0,4790%	10.854
0.50 to <0.75	-	-	-	-	-	-
0.75 to <2.50	1.330.053	11.143	36,0020%	1.342.313	1,0330%	11.377
<i>0.75 to &lt;1.75</i>	<i>1.330.053</i>	<i>11.143</i>	<i>36,0020%</i>	<i>1.342.313</i>	<i>1,0330%</i>	<i>11.377</i>
<i>1.75 to &lt;2.5</i>	-	-	-	-	-	-
2.50 to <10.00	612.656	5.911	35,9250%	620.307	4,4780%	4.945
<i>2.5 to &lt;5</i>	<i>292.274</i>	<i>2.393</i>	<i>47,7530%</i>	<i>295.105</i>	<i>2,5600%</i>	<i>2.316</i>
<i>5 to &lt;10</i>	<i>320.382</i>	<i>3.519</i>	<i>27,8810%</i>	<i>325.202</i>	<i>6,2190%</i>	<i>2.629</i>
10.00 to <100.00	323.723	303	49,8310%	324.973	23,5830%	3.182
<i>10 to &lt;20</i>	<i>198.587</i>	<i>241</i>	<i>49,8500%</i>	<i>199.720</i>	<i>14,2590%</i>	<i>1.664</i>
<i>20 to &lt;30</i>	-	-	-	-	-	-
<i>30.00 to &lt;100.00</i>	<i>125.136</i>	<i>62</i>	<i>49,7590%</i>	<i>125.252</i>	<i>38,4500%</i>	<i>1.518</i>
100,00 (default)	90.360	41	-	92.292	100,0000%	580
<b>TOTAL AS AT 31/12/2023</b>	<b>3.693.694</b>	<b>28.635</b>	<b>32,3160%</b>	<b>3.728.891</b>	<b>5,8094%</b>	<b>32.575</b>

Source: COREP reporting framework - Credit risk, IRB approach to capital requirements breakdown by PD range: Template C 08.03



**Table 77** - Template EU CR6 - IRB Approach: Credit risk exposures by exposure class and PD range - Secured by real estate non-SMEs (2 of 2)

a	h	i	j	k	l	m
PD range	Exposure weighted average LGD (%)	Exposure weighted average maturity (years)	Risk weighted exposure amount after supporting factors	Density of risk weighted exposure amount	Expected loss amount	Value adjustments and provisions
<b>Retail - Secured by immovable property non-SME</b>						
0.00 to <0.15	7.0260%	-	2,471	2.1994%	9	(57)
0.00 to <0.10	7.2920%	-	492	1.3773%	2	(28)
0.10 to <0.15	6.9010%	-	1,978	2.5831%	7	(28)
0.15 to <0.25	-	-	-	-	-	-
0.25 to <0.50	8.6150%	-	98,272	7.9464%	511	(1,880)
0.50 to <0.75	-	-	-	-	-	-
0.75 to <2.50	9.6040%	-	200,071	14.9049%	1,338	(3,835)
0.75 to <1.75	9.6040%	-	200,071	14.9049%	1,338	(3,835)
1.75 to <2.5	-	-	-	-	-	-
2.50 to <10.00	9.4800%	-	213,255	34.3789%	2,629	(7,901)
2.5 to <5	9.4980%	-	77,500	26.2620%	718	(2,205)
5 to <10	9.4640%	-	135,754	41.7445%	1,911	(5,696)
10.00 to <100.00	10.2060%	-	211,674	65.1359%	7,561	(16,955)
10 to <20	10.6910%	-	130,312	65.2471%	3,018	(10,407)
20 to <30	-	-	-	-	-	-
30.00 to <100.00	9.4340%	-	81,362	64.9586%	4,544	(6,548)
100,00 (default)	24.8420%	-	38,003	41.1767%	20,283	(42,522)
<b>TOTAL AS AT 31/12/2023</b>	<b>9.6073%</b>	<b>-</b>	<b>763,745</b>	<b>20.4818%</b>	<b>32,331</b>	<b>(73,150)</b>

Source: COREP reporting framework - Credit risk, IRB approach to capital requirements breakdown by PD range: Template C 08.03

**Table 78** - Template EU CR6 - IRB Approach: Credit risk exposures by exposure class and PD range - Companies - Qualifying revolving (1 of 2)

a	b	c	d	e	f	g
PD range	On-balance sheet exposures	Off-balance-sheet exposures pre-CCF	Exposure weighted average CCF	Exposure post CCF and post CRM	Exposure weighted average PD (%)	Number of obligors
<b>Retail - Qualifying revolving</b>						
0.00 to <0.15	5,425	74,389	-	73,852	0.0850%	8,941
0.00 to <0.10	1,934	48,195	-	45,468	0.0510%	5,923
0.10 to <0.15	3,491	26,194	-	28,384	0.1400%	3,018
0.15 to <0.25	-	-	-	-	-	-
0.25 to <0.50	25,877	45,531	-	74,504	0.4670%	5,549
0.50 to <0.75	-	-	-	-	-	-
0.75 to <2.50	17,719	15,949	-	38,839	1.1140%	2,383
0.75 to <1.75	17,719	15,949	-	38,839	1.1140%	2,383
1.75 to <2.5	-	-	-	-	-	-
2.50 to <10.00	13,763	7,264	-	26,633	4.3200%	1,868
2.5 to <5	6,983	4,079	-	13,686	2.5600%	967
5 to <10	6,780	3,184	-	12,947	6.1800%	901
10.00 to <100.00	5,225	6,851	-	13,905	28.0370%	1,360
10 to <20	3,018	1,984	-	6,259	15.3160%	574
20 to <30	-	-	-	-	-	-
30.00 to <100.00	2,207	4,868	-	7,646	38.4500%	786
100,00 (default)	2,030	297	-	2,957	100.0000%	192
<b>TOTAL AS AT 31/12/2023</b>	<b>70,039</b>	<b>150,282</b>	<b>-</b>	<b>230,689</b>	<b>3.8363%</b>	<b>20,293</b>

Source: COREP reporting framework - Credit risk, IRB approach to capital requirements breakdown by PD range: Template C 08.03



**Table 79** - Template EU CR6 - IRB Approach: Credit risk exposures by exposure class and PD range - Companies - Qualifying revolving (2 of 2)

a	h	i	j	k	l	m
PD range	Exposure weighted average LGD (%)	Exposure weighted average maturity (years)	Risk weighted exposure amount after supporting factors	Density of risk weighted exposure amount	Expected loss amount	Value adjustments and provisions
<b>Retail - Qualifying revolving</b>						
0.00 to <0.15	8.6710%	-	410	0.5547%	6	(12)
0.00 to <0.10	8.4410%	-	161	0.3536%	2	(5)
0.10 to <0.15	9.0380%	-	249	0.8768%	4	(7)
0.15 to <0.25	-	-	-	-	-	-
0.25 to <0.50	9.9560%	-	1,913	2.5683%	35	(51)
0.50 to <0.75	-	-	-	-	-	-
0.75 to <2.50	11.5940%	-	2,280	5.8695%	50	(57)
0.75 to <1.75	11.5940%	-	2,280	5.8695%	50	(57)
1.75 to <2.5	-	-	-	-	-	-
2.50 to <10.00	11.5020%	-	4,000	15.0192%	134	(191)
2.5 to <5	11.2350%	-	1,439	10.5180%	39	(49)
5 to <10	11.7850%	-	2,561	19.7771%	94	(142)
10.00 to <100.00	11.8060%	-	5,289	38.0365%	428	(310)
10 to <20	14.0350%	-	2,438	38.9477%	135	(190)
20 to <30	-	-	-	-	-	-
30.00 to <100.00	9.9810%	-	2,851	37.2907%	293	(120)
100,00 (default)	17.8630%	-	37	1.2569%	526	(1,101)
<b>TOTAL AS AT 31/12/2023</b>	<b>10.2118%</b>	<b>-</b>	<b>13,929</b>	<b>6.0380%</b>	<b>1.179</b>	<b>(1.722)</b>

Source: COREP reporting framework - Credit risk, IRB approach to capital requirements breakdown by PD range: Template C 08.03

**Table 80** - Template EU CR6 - IRB Approach: Credit risk exposures by exposure class and PD range - Retail - Other SMEs (1 of 2)

a	b	c	d	e	f	g
PD range	On-balance sheet exposures	Off-balance-sheet exposures pre-CCF	Exposure weighted average CCF	Exposure post CCF and post CRM	Exposure weighted average PD (%)	Number of obligors
<b>Retail - Other SME</b>						
0.00 to <0.15	146,470	631,631	8.6990%	240,147	0.1130%	11,846
0.00 to <0.10	35,932	208,039	9.9400%	71,838	0.0800%	3,039
0.10 to <0.15	110,538	423,592	8.0900%	168,309	0.1260%	8,807
0.15 to <0.25	228,570	301,810	9.5720%	294,643	0.1940%	14,871
0.25 to <0.50	170,255	297,792	10.5190%	236,900	0.3120%	5,335
0.50 to <0.75	212,579	325,064	19.8940%	313,857	0.6170%	3,593
0.75 to <2.50	580,193	556,850	19.8440%	787,044	1.4690%	11,593
0.75 to <1.75	309,430	321,241	21.9930%	425,092	1.1230%	6,135
1.75 to <2.5	270,763	235,609	16.9140%	361,952	1.8760%	5,458
2.50 to <10.00	373,532	240,064	23.4450%	505,952	4.6610%	7,793
2.5 to <5	191,473	130,896	19.8980%	257,492	3.2300%	4,192
5 to <10	182,058	109,168	27.6970%	248,461	6.1440%	3,601
10.00 to <100.00	222,664	217,010	15.4240%	306,161	29.3150%	10,421
10 to <20	77,718	42,575	24.0190%	101,620	12.5460%	2,515
20 to <30	36,428	33,807	23.5560%	53,468	22.0630%	1,311
30.00 to <100.00	108,518	140,629	10.8670%	151,073	43.1610%	6,595
100,00 (default)	157,604	43,062	43.2770%	189,499	100.0000%	3,073
<b>TOTAL AS AT 31/12/2023</b>	<b>2,091,867</b>	<b>2,613,284</b>	<b>15.2574%</b>	<b>2,874,204</b>	<b>11.0609%</b>	<b>68,525</b>

Source: COREP reporting framework - Credit risk, IRB approach to capital requirements breakdown by PD range: Template C 08.03



**Table 81** - Template EU CR6 - IRB Approach: Credit risk exposures by exposure class and PD range - Retail - Other SMEs (2 of 2)

a	h	i	j	k	l	m
PD range	Exposure weighted average LGD (%)	Exposure weighted average maturity (years)	Risk weighted exposure amount after supporting factors	Density of risk weighted exposure amount	Expected loss amount	Value adjustments and provisions
<b>Retail Other - SME</b>						
0.00 to <0.15	18.3790%	-	11,919	4.9630%	49	(281)
0.00 to <0.10	19.7690%	-	2,895	4.0302%	11	(52)
0.10 to <0.15	17.7860%	-	9,023	5.3612%	38	(229)
0.15 to <0.25	16.6410%	-	19,671	6.6762%	95	(587)
0.25 to <0.50	19.4810%	-	26,194	11.0571%	145	(480)
0.50 to <0.75	19.2350%	-	50,231	16.0043%	368	(1,029)
0.75 to <2.50	17.8800%	-	166,805	21.1939%	2,058	(4,908)
0.75 to <1.75	18.1420%	-	84,707	19.9267%	866	(2,329)
1.75 to <2.5	17.5710%	-	82,098	22.6821%	1,192	(2,579)
2.50 to <10.00	17.0610%	-	128,501	25.3979%	4,024	(7,114)
2.5 to <5	17.0280%	-	62,823	24.3982%	1,417	(2,796)
5 to <10	17.0950%	-	65,678	26.4339%	2,607	(4,317)
10.00 to <100.00	16.7510%	-	119,739	39.1097%	15,258	(11,223)
10 to <20	15.4200%	-	28,331	27.8798%	1,962	(3,594)
20 to <30	19.0860%	-	24,278	45.4055%	2,281	(2,563)
30.00 to <100.00	16.8210%	-	67,130	44.4354%	11,015	(5,066)
100,00 (default)	53.1860%	-	24,854	13.1157%	99,661	(124,309)
<b>TOTAL AS AT 31/12/2023</b>	<b>20.1379%</b>	<b>-</b>	<b>547,914</b>	<b>19.0632%</b>	<b>121,657</b>	<b>(149,931)</b>

Source: COREP reporting framework - Credit risk, IRB approach to capital requirements breakdown by PD range: Template C 08.03

**Table 82** - Template EU CR6 - IRB Approach: Credit risk exposures by exposure class and PD range - Retail - Other non-SMEs (1 of 2)

a	b	c	d	e	f	g
PD range	On-balance sheet exposures	Off-balance-sheet exposures pre-CCF	Exposure weighted average CCF	Exposure post CCF and post CRM	Exposure weighted average PD (%)	Number of obligors
<b>Retail - Other non-SME</b>						
0.00 to <0.15	44,629	65,093	5.9520%	89,880	0.1040%	3,483
0.00 to <0.10	19,107	26,931	6.4230%	38,384	0.0560%	2,028
0.10 to <0.15	25,522	38,161	5.6200%	51,496	0.1400%	1,455
0.15 to <0.25	-	-	-	-	-	-
0.25 to <0.50	245,364	133,697	4.4540%	373,628	0.4750%	7,489
0.50 to <0.75	-	-	-	-	-	-
0.75 to <2.50	265,237	127,230	12.6630%	394,487	1.0980%	8,851
0.75 to <1.75	265,237	127,230	12.6630%	394,487	1.0980%	8,851
1.75 to <2.5	-	-	-	-	-	-
2.50 to <10.00	136,304	55,990	10.4330%	206,244	4.2510%	6,269
2.5 to <5	71,297	35,287	11.9880%	111,018	2.5600%	3,165
5 to <10	65,007	20,703	7.7810%	95,226	6.2220%	3,104
10.00 to <100.00	54,816	19,433	27.9560%	104,248	24.2390%	5,995
10 to <20	37,675	14,301	29.1560%	60,556	13.9860%	1,961
20 to <30	-	-	-	-	-	-
30.00 to <100.00	17,141	5,132	24.6130%	43,692	38.4500%	4,034
100,00 (default)	58,497	1,409	8.6550%	69,209	100.0000%	1,166
<b>TOTAL AS AT 31/12/2023</b>	<b>804,846</b>	<b>402,852</b>	<b>9.2680%</b>	<b>1,237,696</b>	<b>8.8426%</b>	<b>33,253</b>

Source: COREP reporting framework - Credit risk, IRB approach to capital requirements breakdown by PD range: Template C 08.03



**Table 83** - Template EU CR6 - IRB Approach: Credit risk exposures by exposure class and PD range - Retail - Other non-SMEs (2 of 2)

a	h	i	j	k	l	m
PD range	Exposure weighted average LGD (%)	Exposure weighted average maturity (years)	Risk weighted exposure amount after supporting factors	Density of risk weighted exposure amount	Expected loss amount	Value adjustments and provisions
<b>Retail - Other non-SME</b>						
0.00 to <0.15	8.3340%	-	2,280	2.5373%	8	(19)
0.00 to <0.10	8.2740%	-	617	1.6062%	2	(5)
0.10 to <0.15	8.3790%	-	1,664	3.2312%	6	(15)
0.15 to <0.25	-	-	-	-	-	-
0.25 to <0.50	10.8300%	-	34,627	9.2678%	193	(276)
0.50 to <0.75	-	-	-	-	-	-
0.75 to <2.50	11.5770%	-	59,406	15.0590%	510	(1,399)
0.75 to <1.75	11.5770%	-	59,406	15.0590%	510	(1,399)
1.75 to <2.5	-	-	-	-	-	-
2.50 to <10.00	11.0810%	-	40,721	19.7440%	968	(1,294)
2.5 to <5	11.0560%	-	20,802	18.7375%	317	(473)
5 to <10	11.1100%	-	19,919	20.9174%	651	(821)
10.00 to <100.00	14.0160%	-	39,947	38.3189%	3,634	(2,395)
10 to <20	13.3700%	-	18,825	31.0868%	1,127	(1,319)
20 to <30	-	-	-	-	-	-
30.00 to <100.00	14.9120%	-	21,122	48.3425%	2,507	(1,075)
100,00 (default)	45.8690%	-	1,490	2.1536%	31,707	(41,833)
<b>TOTAL AS AT 31/12/2023</b>	<b>13.1563%</b>	<b>-</b>	<b>178,471</b>	<b>14.4196%</b>	<b>37,020</b>	<b>(47,216)</b>

Source: COREP reporting framework - Credit risk, IRB approach to capital requirements breakdown by PD range: Template C 08.03



**Table 84** - Template EU CR6-A: Scope of use of IRB and SA methods

		a	b	c	d	e
		Exposure value as defined in Article 166 CRR for exposures subject to IRB approach	Total exposure value for exposures subject to the Standardised approach and to the IRB approach	Percentage of total exposure value subject to the permanent partial use of the SA (%)	Percentage of total exposure value subject to a roll-out plan (%)	Percentage of total exposure value subject to IRB Approach (%)
1	Central governments or central banks	17,182,550	17,186,289	100.0000%	-	-
1,1	<i>Of which Regional governments or local authorities</i>		50	100.0000%	-	-
1,2	<i>Of which Public sector entities</i>		10,025	100.0000%	-	-
2	Institutions	4,820,991	4,933,788	9.5131%	90.4869%	-
3	Corporates	22,588,786	22,266,884	12.4527%	16.8565%	70.6909%
3,1	<i>Of which Corporates - Specialised lending, excluding slotting approach</i>		-	-	-	-
3,2	<i>Of which Corporates - Specialised lending under slotting approach</i>		20,478	100.0000%	-	-
4	Retail	16,173,992	15,101,898	34.6323%	2.9707%	62.3971%
4,1	<i>of which Retail – Secured by real estate SMEs</i>		1,385,960	-	-	100.0000%
4,2	<i>of which Retail – Secured by real estate non-SMEs</i>		8,178,268	55.6026%	-	44.3975%
4,3	<i>of which Retail – Qualifying revolving</i>		83,532	-	0.0490%	99.9510%
4,4	<i>of which Retail – Other SMEs</i>		3,765,775	0.0602%	7.0749%	92.8649%
4,5	<i>of which Retail – Other non-SMEs</i>		1,682,843	40.1085%	10.8260%	49.0656%
5	Equity	589,874	588,919	100.0000%	-	-
6	Other non-credit obligation assets	1,573,354	1,573,354	99.9845%	0.0155%	-
<b>7</b>	<b>TOTAL AS AT 31/12/2023</b>	<b>62,929,546</b>	<b>61,651,132</b>	<b>45.1257%</b>	<b>14.0577%</b>	<b>40.8168%</b>

Source: COREP reporting framework - Credit risk, IRB approach to capital requirements, scope of the use of IRB and SA approaches: Template C 08.07

The following template shows the impact of credit derivatives recognised as credit risk mitigation (CRM) techniques on the values at 31 December 2023 of risk-weighted assets (RWA) and credit risk capital requirements calculated by the Group under the “Advanced IRB Approach”, broken down by category of relevant exposure at regulatory level.



**Table 85** - Template EU CR7 - IRB approach: Effect on the RWEAs of credit derivatives used as CRM techniques

		31/12/2023		31/12/2022	
		Pre-credit derivatives risk weighted exposure amount	Actual risk weighted exposure amount	Pre-credit derivatives risk weighted exposure amount	Actual risk weighted exposure amount
		a	b	a	b
<b>1</b>	<b>Exposures under FIRB</b>	-	-	-	-
2	Central governments and central banks	-	-	-	-
3	Institutions	-	-	-	-
4	Corporates	-	-	-	-
4,1	<i>of which - Corporates SMEs</i>	-	-	-	-
4,2	<i>of which - Corporates Specialised lending</i>	-	-	-	-
<b>5</b>	<b>Exposures under AIRB</b>	<b>7,910,938</b>	<b>7,910,938</b>	<b>7,611,573</b>	<b>7,611,573</b>
6	Central governments and central banks	-	-	-	-
7	Institutions	-	-	-	-
8	of which - Corporates	6,024,827	6,024,827	5,876,640	5,876,640
8,1	<i>of which - Corporates SMEs</i>	2,559,669	2,559,669	2,403,749	2,403,749
8,2	<i>of which Corporates - Specialised lending</i>	-	-	-	-
9	Retail	1,886,111	1,886,111	1,734,933	1,734,933
9,1	<i>of which Retail – SMEs - Secured by immovable property collateral</i>	382,052	382,052	356,067	356,067
9,2	<i>of which Retail – non-SMEs - Secured by immovable property collateral</i>	763,745	763,745	608,867	608,867
9,3	<i>of which Retail – Qualifying revolving</i>	13,929	13,929	15,605	15,605
9,4	<i>of which Retail – SMEs - Other</i>	547,914	547,914	621,163	621,163
9,5	<i>of which Retail – Non-SMEs- Other</i>	178,471	178,471	133,231	133,231
<b>10</b>	<b>TOTAL (including FIRB exposures and AIRB exposures)</b>	<b>7,910,938</b>	<b>7,910,938</b>	<b>7,611,573</b>	<b>7,611,573</b>

Source: COREP reporting framework - Credit and counterparty risks, IRB approach to capital requirements: Template C 08.01

As can be seen from the data represented in the table, as at 31 December 2023, there were no risk hedging transactions through credit derivatives.

The table below shows, for each class of exposures relevant to the calculation of the capital requirement for credit risk under the “Advanced IRB Approach”, the portion of the Group’s exposures at 31 December 2023 covered by real and personal credit risk mitigation (CRM) techniques. It also displays the amounts of risk-weighted exposures (RWA), including any reduction due to the existence of credit protection, with and without the application of the “substitution approach”<sup>21</sup>. Source:

<sup>21</sup> Under the Advanced IRB Approach, banks may recognise the effects of personal guarantees and, more generally, personal credit protection instruments by adjusting the risk parameters associated with the guaranteed exposure, provided certain minimum requirements for such guarantees are met. Specifically, it is possible to replace the PD or risk weight of the principal debtor with those of the guarantor, or to change the LGD of the covered credit exposure (so-called “substitution approach”)

**Table 86** - Template EU CR7-A - IRB approach: Disclosure of the extent of the use of CRM techniques (1 of 3)

A-IRB		Credit risk Mitigation techniques					
		Funded credit Protection (FCP)					
		Total exposures	Part of exposures covered by Other eligible collaterals (%)				
			Part of exposures covered by Financial Collaterals (%)	Part of exposures covered by Immovable property Collaterals (%)	Part of exposures covered by Receivables (%)	Part of exposures covered by Other physical collateral (%)	
a	b	c	d	e	f		
1	Central governments and central banks	-	-	-	-	-	-
2	Institutions	-	-	-	-	-	-
3	Corporates	14,540,631	2.7430%	19.6242%	18.9772%	-	0.6470%
3,1	<i>Of which Corporates – SMEs</i>	7,356,535	4.9428%	32.4405%	31.4671%	-	0.9734%
3,2	<i>Of which Corporates – Specialised lending</i>	-	-	-	-	-	-
3,3	<i>Of which Corporates – Other</i>	7,184,096	0.4903%	6.5003%	6.1875%	-	0.3128%
4	Retail	9,526,092	2.6772%	59.4693%	59.4291%	-	0.0402%
4,1	<i>Of which Retail – Immovable property SMEs</i>	1,454,612	0.0033%	97.8268%	97.8268%	-	-
4,2	<i>Of which Retail – Immovable property non-SMEs</i>	3,728,891	0.0061%	97.5578%	97.5578%	-	-
4,3	<i>Of which Retail – Qualifying revolving</i>	230,689	-	-	-	-	-
4,4	<i>Of which Retail – Other SMEs</i>	2,874,204	4.7505%	17.4324%	17.2992%	-	0.1332%
4,5	<i>Of which Retail – Other non-SMEs</i>	1,237,696	9.5515%	8.3408%	8.3408%	-	-
<b>5</b>	<b>TOTAL</b>	<b>24,066,724</b>	<b>2.7170%</b>	<b>35.3957%</b>	<b>34.9889%</b>	<b>-</b>	<b>0.4068%</b>

Source: COREP reporting framework - Credit and counterparty risks, IRB approach to capital requirements: Template C 08.01



**Table 87** - Template EU CR7-A - IRB approach: Disclosure of the extent of the use of CRM techniques (2 of 3)

A-IRB		Credit risk Mitigation techniques					
		Funded credit Protection (FCP)			Unfunded credit Protection (UFCP)		
		Part of exposures covered by Other funded credit protection (%)			Part of exposures covered by Guarantees (%)	Part of exposures covered by Credit Derivatives (%)	
		Part of exposures covered by Cash on deposit (%)	Part of exposures covered by Life insurance policies (%)	Part of exposures covered by Instruments held by a third party (%)			
		g	h	i	j	k	l
1	Central governments and central banks	-	-	-	-	-	-
2	Institutions	-	-	-	-	-	-
3	Corporates	-	-	-	-	10.9968%	-
3,1	<i>Of which Corporates – SMEs</i>	-	-	-	-	15.8695%	-
3,2	<i>Of which Corporates – Specialised lending</i>	-	-	-	-	-	-
3,3	<i>Of which Corporates – Other</i>	-	-	-	-	6.0072%	-
4	Retail	-	-	-	-	8.4804%	-
4,1	<i>Of which Retail – Immovable property SMEs</i>	-	-	-	-	0.3696%	-
4,2	<i>Of which Retail – Immovable property non-SMEs</i>	-	-	-	-	0.2044%	-
4,3	<i>Of which Retail – Qualifying revolving</i>	-	-	-	-	-	-
4,4	<i>Of which Retail – Other SMEs</i>	-	-	-	-	25.0233%	-
4,5	<i>Of which Retail – Other non-SMEs</i>	-	-	-	-	6.1105%	-
<b>5</b>	<b>TOTAL</b>	-	-	-	-	<b>10.0008%</b>	-

Source: COREP reporting framework - Credit and counterparty risks, IRB approach to capital requirements: Template C 08.01

**Table 88** - Template EU CR7-A - IRB approach: Disclosure of the extent of the use of CRM techniques (3 of 3)

A-IRB		Credit risk Mitigation methods in the calculation of RWEAs	
		RWEA without substitution effects (reduction effects only)	RWEA with substitution effects (both reduction and substitution effects)
		m	n
1	Central governments and central banks		-
2	Institutions		-
3	Corporates	6,384,607	6,024,827
3,1	<i>Of which Corporates – SMEs</i>	2,832,386	2,559,669
3,2	<i>Of which Corporates – Specialised lending</i>	-	-
3,3	<i>Of which Corporates – Other</i>	3,552,221	3,465,158
4	Retail	2,039,270	1,886,111
4,1	<i>Of which Retail – Immovable property SMEs</i>	389,347	382,052
4,2	<i>Of which Retail – Immovable property non-SMEs</i>	843,527	763,745
4,3	<i>Of which Retail – Qualifying revolving</i>	13,925	13,929
4,4	<i>Of which Retail – Other SMEs</i>	606,253	547,914
4,5	<i>Of which Retail – Other non-SMEs</i>	186,218	178,471
<b>5</b>	<b>TOTAL</b>	<b>8,423,877</b>	<b>7,910,938</b>

Source: COREP reporting framework - Credit and counterparty risks, IRB approach to capital requirements: Template C 08.01

The table reported below shows the changes in the amounts of risk-weighted exposure (RWA) calculated on the basis of the “Advanced IRB approach” compared to the previous quarter, giving further details of key factors that contributed significantly to the changes.



**Table 89** - Template EU CR8: RWEA flow statements of credit risk exposures under the IRB approach

		<b>RWA</b>
		<b>a</b>
<b>1</b>	<b>RISK WEIGHTED EXPOSURE AMOUNT AS AT THE END OF THE PREVIOUS REPORTING PERIOD</b>	<b>7,863,750</b>
2	Asset size	32,815
3	Asset quality	(40,285)
4	Model updates	319,183
5	Methodology and policy	-
6	Acquisitions and disposals	(57,039)
7	Foreign exchange movements	5,265
8	Other	(125,412)
<b>9</b>	<b>RISK WEIGHTED EXPOSURE AMOUNT AS AT THE END OF THE REPORTING PERIOD</b>	<b>7,998,277</b>

Source: COREP reporting framework - Flow statements for credit risk, IRB approach to capital requirements: Template C 08.04

As at 31 December 2023, the value of the aggregate of risk-weighted assets subject to credit risk assessed using the “Advanced IRB” approach shows an increase from the value registered at the beginning of the period. The change reflects both a portfolio effect, due to the natural fluctuations that occur during the year, and a model effect, due to the authorisation received during the year from the ECB to use the internal models subject to a previous material model change request.

Residual changes relate both to any effects not computed in the preceding items and to the combined effects of items measured by stand-alone analysis.

**Table 90** - Template CR9 - IRB approach: Back-testing of PD per exposure class (fixed PD scale) - Total

PD range	Number of obligors at the end of the previous year		Observed average default rate (%)	Exposures weighted average PD (%)	Average PD (%)	Average historical annual default rate (%)	
	a	b					c
0.00 to <0.15		25,106	14	0.0560%	-	0.0940%	0.0560%
0.00 to <0.10		11,351	2	0.0180%	-	0.0540%	0.0460%
0.10 to <0.15		13,755	12	0.0870%	-	0.1270%	0.0650%
0.15 to <0.25		19,459	40	0.2060%	-	0.1830%	0.1560%
0.25 to <0.50		27,874	53	0.1900%	-	0.4100%	0.1810%
0.50 to <0.75		14,776	41	0.2770%	-	0.7090%	0.3160%
0.75 to <2.50		31,063	267	0.8590%	-	1.5350%	0.8280%
0.75 to <1.75		18,637	118	0.6330%	-	1.1570%	0.6000%
1.75 to <2.50		12,426	149	1.1990%	-	2.1010%	1.1710%
2.50 to <10.00		18,488	435	2.3530%	-	5.3570%	2.9230%
2.5 to <5		12,025	208	1.7300%	-	4.0060%	1.9190%
5 to <10		6,463	227	3.5120%	-	7.8700%	4.7910%
10.00 to <100.00		12,426	828	6.6630%	-	27.3140%	13.1910%
10 to <20		4,772	252	5.2810%	-	14.1510%	6.9640%
20 to <30		1,456	108	7.4180%	-	21.1710%	11.9710%
30.00 to <100.00		6,198	468	7.5510%	-	38.8930%	18.2720%
100.00 (Default)		5,415	5,415	100.0000%	-	100.0000%	100.0000%

Source: COREP reporting framework - Credit risk, IRB approach to capital requirements, PD back-testing: Template C 08.05 - Credit risk, IRB approach to capital requirements breakdown by PD range: Template C 08.03.

**Table 91** - Template CR9 - IRB approach: Back-testing of PD per exposure class (fixed PD scale) - Central governments or central banks

The template is not published due to the absence of significant exposures treated with the IRB approach in the specific counterparty segment.



**Table 92** - Template CR9 - IRB approach: Back-testing of PD per exposure class (fixed PD scale) - Entities

The template is not published due to the absence of significant exposures treated with the IRB approach in the specific counterparty segment.

**Table 93** - Template CR9 - IRB approach: Back-testing of PD per exposure class (fixed PD scale) - SMEs

PD range	Number of obligors at the end of the previous year		Observed average default rate (%)	Exposures weighted average PD (%)	Average PD (%)	Average historical annual default rate (%)	
	a	b					c
0.00 to <0.15		517	2	0,3870%	0,1250%	0,1110%	0,0700%
0.00 to <0.10		96	-	-	0,0800%	0,0700%	0,0540%
0.10 to <0.15		421	2	0,4750%	0,1260%	0,1200%	0,0740%
0.15 to <0.25		1.675	7	0,4180%	0,1760%	0,1780%	0,1420%
0.25 to <0.50		936	-	-	0,3390%	0,3740%	0,2510%
0.50 to <0.75		875	4	0,4570%	0,5230%	0,6050%	0,5470%
0.75 to <2.50		1.432	36	2,5140%	1,4910%	1,5930%	1,5220%
0.75 to <1.75		755	18	2,3840%	1,0640%	1,1800%	1,3350%
1.75 to <2.50		677	18	2,6590%	1,8890%	2,0530%	1,7300%
2.50 to <10.00		683	27	3,9530%	4,6450%	4,4590%	3,6930%
2.5 to <5		403	14	3,4740%	2,9670%	3,3460%	3,1680%
5 to <10		280	13	4,6430%	6,5910%	6,0610%	4,4480%
10.00 to <100.00		418	36	8,6120%	29,2910%	28,4360%	19,3740%
10 to <20		191	13	6,8060%	13,1490%	12,2930%	10,8990%
20 to <30		55	7	12,7270%	23,8000%	24,0110%	19,4760%
30.00 to <100.00		172	16	9,3020%	46,2850%	47,7770%	28,7510%
100.00 (Default)		317	317	100,0000%	100,0000%	100,0000%	100,0000%

Source: COREP reporting framework - Credit risk, IRB approach to capital requirements, PD back-testing: Template C 08.05 - Credit risk, IRB approach to capital requirements breakdown by PD range: Template C 08.03.



**Table 94** - Template CR9 - IRB approach: Back-testing of PD per exposure class (fixed PD scale) - Specialised Loans

The template is not published due to the absence of significant exposures treated with the IRB approach in the specific counterparty segment.

**Table 95** - Template CR9 - IRB approach: Back-testing of PD per exposure class (fixed PD scale) - Companies - Other

PD range	Number of obligors at the end of the previous year		Observed average default rate (%)	Exposures weighted average PD (%)	Average PD (%)	Average historical annual default rate (%)
		of which: number of obligors which defaulted during the year				
a	b	c	d	e	f	g
0.00 to <0.15	69	-	-	0.1270%	0.1180%	0.0620%
0.00 to <0.10	3	-	-	0.0800%	0.0700%	0.0540%
0.10 to <0.15	66	-	-	0.1270%	0.1200%	0.0620%
0.15 to <0.25	353	1	0.2830%	0.1710%	0.1810%	0.1430%
0.25 to <0.50	160	-	-	0.3400%	0.3860%	0.2530%
0.50 to <0.75	123	-	-	0.5200%	0.5920%	0.5590%
0.75 to <2.50	214	4	1.8690%	1.5260%	1.6400%	1.5010%
0.75 to <1.75	96	2	2.0830%	1.0600%	1.1500%	1.3060%
1.75 to <2.50	118	2	1.6950%	1.8900%	2.0390%	1.6590%
2.50 to <10.00	116	6	5.1720%	4.1530%	4.5670%	3.4490%
2.5 to <5	70	4	5.7140%	2.9490%	3.4620%	2.7550%
5 to <10	46	2	4.3480%	6.3430%	6.2480%	4.5040%
10.00 to <100.00	75	2	2.6670%	26.0270%	25.1140%	15.2250%
10 to <20	37	-	-	13.1210%	11.9700%	9.2900%
20 to <30	9	1	11.1110%	23.4440%	22.2020%	14.2790%
30.00 to <100.00	29	1	3.4480%	45.4990%	42.7870%	23.0890%
100.00 (Default)	82	82	100.0000%	100.0000%	100.0000%	100.0000%

Source: COREP reporting framework - Credit risk, IRB approach to capital requirements, PD back-testing: Template C 08.05 - Credit risk, IRB approach to capital requirements breakdown by PD range: Template C 08.03.



**Table 96** - Template CR9 - IRB approach: Back-testing of PD per exposure class (fixed PD scale) - Retail - SME real estate guarantees

PD range	Number of obligors at the end of the previous year		Observed average default rate (%)	Exposures weighted average PD (%)	Average PD (%)	Average historical annual default rate (%)
		of which: number of obligors which defaulted during the year				
a	b	c	d	e	f	g
0.00 to <0.15	966	-	0.0520%	0.1280%	0.1200%	0.0440%
<i>0.00 to &lt;0.10</i>	<i>56</i>	<i>-</i>	<i>-</i>	<i>0.0800%</i>	<i>0.0700%</i>	<i>0.0540%</i>
<i>0.10 to &lt;0.15</i>	<i>910</i>	<i>-</i>	<i>0.0550%</i>	<i>0.1320%</i>	<i>0.1230%</i>	<i>0.0430%</i>
0.15 to <0.25	2,814	4	0.1600%	0.1930%	0.1830%	0.1560%
0.25 to <0.50	822	1	0.1820%	0.3080%	0.2930%	0.2050%
0.50 to <0.75	216	-	0.2310%	0.6280%	0.6570%	0.4980%
0.75 to <2.50	1,679	4	0.2980%	1.4260%	1.2960%	0.7980%
<i>0.75 to &lt;1.75</i>	<i>1,056</i>	<i>3</i>	<i>0.3310%</i>	<i>1.0820%</i>	<i>1.0070%</i>	<i>0.6920%</i>
<i>1.75 to &lt;2.50</i>	<i>623</i>	<i>1</i>	<i>0.2410%</i>	<i>1.8780%</i>	<i>1.7870%</i>	<i>0.9790%</i>
2.50 to <10.00	927	13	1.4560%	4.2080%	3.9750%	2.2560%
<i>2.5 to &lt;5</i>	<i>785</i>	<i>8</i>	<i>1.0190%</i>	<i>3.0310%</i>	<i>3.5810%</i>	<i>1.7640%</i>
<i>5 to &lt;10</i>	<i>142</i>	<i>5</i>	<i>3.8730%</i>	<i>5.7280%</i>	<i>6.1550%</i>	<i>4.9740%</i>
10.00 to <100.00	1,238	50	4.1180%	27.9600%	23.9330%	11.6670%
<i>10 to &lt;20</i>	<i>507</i>	<i>12</i>	<i>2.4650%</i>	<i>12.3600%</i>	<i>11.5950%</i>	<i>5.8790%</i>
<i>20 to &lt;30</i>	<i>234</i>	<i>14</i>	<i>6.1970%</i>	<i>21.9300%</i>	<i>20.9460%</i>	<i>10.3830%</i>
<i>30.00 to &lt;100.00</i>	<i>497</i>	<i>24</i>	<i>4.8240%</i>	<i>40.1370%</i>	<i>37.9110%</i>	<i>18.1710%</i>
100.00 (Default)	398	398	100.0000%	100.0000%	100.0000%	100.0000%

Source: COREP reporting framework - Credit risk, IRB approach to capital requirements, PD back-testing: Template C 08.05 - Credit risk, IRB approach to capital requirements breakdown by PD range: Template C 08.03.

**Table 97** - Template CR9 - IRB approach: Back-testing of PD per exposure class (fixed PD scale) - Retail - Non-SME real estate guarantees

PD range	Number of obligors at the end of the previous year		Observed average default rate (%)	Exposures weighted average PD (%)	Average PD (%)	Average historical annual default rate (%)	
	a	b					c
0.00 to <0.15		1,262	1	0.0790%	0.1140%	0.1010%	0.0680%
0.00 to <0.10		537	-	-	0.0570%	0.0480%	0.0430%
0.10 to <0.15		725	1	0.1380%	0.1400%	0.1400%	0.0870%
0.15 to <0.25		-	-	-	-	-	-
0.25 to <0.50		9,446	6	0.0670%	0.4790%	0.4480%	0.1690%
0.50 to <0.75		5,594	6	0.1160%	-	0.7400%	0.2220%
0.75 to <2.50		6,585	16	0.2510%	1.0330%	1.5780%	0.6240%
0.75 to <1.75		4,588	7	0.1530%	1.0330%	1.2200%	0.4210%
1.75 to <2.50		1,997	9	0.4760%	-	2.4000%	1.0900%
2.50 to <10.00		2,826	41	1.4390%	4.4780%	6.9170%	3.2600%
2.5 to <5		1,468	13	0.8860%	2.5600%	4.8100%	1.7770%
5 to <10		1,358	28	2.0370%	6.2190%	9.1950%	4.8620%
10.00 to <100.00		1,609	68	4.2480%	23.5830%	30.0030%	11.7760%
10 to <20		622	28	4.5040%	14.2590%	18.9900%	7.5480%
20 to <30		-	-	-	-	-	-
30.00 to <100.00		987	40	4.0860%	38.4500%	36.9400%	14.4390%
100.00 (Default)		499	499	100.0000%	100.0000%	100.0000%	100.0000%

Source: COREP reporting framework - Credit risk, IRB approach to capital requirements, PD back-testing: Template C 08.05 - Credit risk, IRB approach to capital requirements breakdown by PD range: Template C 08.03.



**Table 98** - Template CR9 - IRB approach: Back-testing of PD per exposure class (fixed PD scale) - Retail - Qualified revolving

PD range	Number of obligors at the end of the previous year		Observed average default rate (%)	Exposures weighted average PD (%)	Average PD (%)	Average historical annual default rate (%)
		of which: number of obligors which defaulted during the year				
a	b	c	d	e	f	g
0.00 to <0.15	8,320	2	0.0240%	0.0850%	0.0760%	0.0560%
0.00 to <0.10	5,675	2	0.0350%	0.0510%	0.0470%	0.0420%
0.10 to <0.15	2,645	-	-	0.1400%	0.1400%	0.0870%
0.15 to <0.25	-	-	-	-	-	-
0.25 to <0.50	4,825	13	0.2760%	0.4670%	0.4360%	0.1580%
0.50 to <0.75	913	6	0.6570%	-	0.7400%	0.2220%
0.75 to <2.50	2,344	29	1.2590%	1.1140%	1.6880%	0.6870%
0.75 to <1.75	1,413	11	0.7780%	1.1140%	1.2200%	0.4210%
1.75 to <2.50	931	18	1.9880%	-	2.4000%	1.0900%
2.50 to <10.00	1,126	33	2.9870%	4.3200%	6.8990%	3.3000%
2.5 to <5	580	12	2.1530%	2.5600%	4.8100%	1.7770%
5 to <10	546	21	3.8730%	6.1800%	9.1180%	4.9190%
10.00 to <100.00	514	29	5.7050%	28.0370%	30.2660%	11.8770%
10 to <20	191	13	6.8000%	15.3160%	18.9900%	7.5480%
20 to <30	-	-	-	-	-	-
30.00 to <100.00	323	16	5.0570%	38.4500%	36.9400%	14.4390%
100.00 (Default)	138	138	100.0000%	100.0000%	100.0000%	100.0000%

Source: COREP reporting framework - Credit risk, IRB approach to capital requirements, PD back-testing: Template C 08.05 - Credit risk, IRB approach to capital requirements breakdown by PD range: Template C 08.03.

**Table 99** - Template CR9 - IRB approach: Back-testing of PD per exposure class (fixed PD scale) - Retail - Other SMEs

PD range	Number of obligors at the end of the previous year		Observed average default rate (%)	Exposures weighted average PD (%)	Average PD (%)	Average historical annual default rate (%)
		of which: number of obligors which defaulted during the year				
a	b	c	d	e	f	g
0.00 to <0.15	10,974	8	0.0770%	0.1130%	0.1070%	0.0550%
0.00 to <0.10	3,140	-	-	0.0800%	0.0700%	0.0540%
0.10 to <0.15	7,834	8	0.1080%	0.1260%	0.1210%	0.0550%
0.15 to <0.25	14,617	27	0.1880%	0.1940%	0.1840%	0.1580%
0.25 to <0.50	5,245	18	0.3530%	0.3120%	0.3010%	0.2240%
0.50 to <0.75	3,632	18	0.5090%	0.6170%	0.6560%	0.4990%
0.75 to <2.50	11,518	126	1.1030%	1.4690%	1.4160%	0.9740%
0.75 to <1.75	6,243	56	0.9050%	1.1230%	1.0750%	0.7850%
1.75 to <2.50	5,275	70	1.3360%	1.8760%	1.8200%	1.1970%
2.50 to <10.00	7,338	206	2.8140%	4.6610%	4.3650%	2.8590%
2.5 to <5	4,990	117	2.3450%	3.2300%	3.5310%	1.9760%
5 to <10	2,348	89	3.8120%	6.1440%	6.1390%	4.7350%
10.00 to <100.00	6,467	488	7.5610%	29.3150%	26.0400%	13.9390%
10 to <20	2,446	134	5.4990%	12.5460%	11.7110%	6.4670%
20 to <30	1,158	85	7.3830%	22.0630%	21.0730%	11.9180%
30.00 to <100.00	2,863	269	9.3940%	43.1610%	40.2880%	21.1400%
100.00 (Default)	2,964	2,964	100.0000%	100.0000%	100.0000%	100.0000%

Source: COREP reporting framework - Credit risk, IRB approach to capital requirements, PD back-testing: Template C 08.05 - Credit risk, IRB approach to capital requirements breakdown by PD range: Template C 08.03



**Table 100** - Template CR9 - IRB approach: Back-testing of PD per exposure class (fixed PD scale) - Retail - Other non-SMEs

PD range	Numero di debitori alla fine dell'anno precedente		Observed average default rate (%)	Exposures weighted average PD (%)	Average PD (%)	Average historical annual default rate (%)
		of which: number of obligors which defaulted during the year				
a	b	c	d	e	f	g
0.00 to <0.15	2,996	-	-	0.1040%	0.0830%	0.0600%
0.00 to <0.10	1,842	-	-	0.0560%	0.0480%	0.0430%
0.10 to <0.15	1,154	-	-	0.1400%	0.1400%	0.0870%
0.15 to <0.25	-	-	-	-	-	-
0.25 to <0.50	6,439	13	0.2070%	0.4750%	0.4450%	0.1660%
0.50 to <0.75	3,422	5	0.1610%	-	0.7400%	0.2220%
0.75 to <2.50	7,291	49	0.6720%	1.0980%	1.6740%	0.6780%
0.75 to <1.75	4,485	20	0.4460%	1.0980%	1.2200%	0.4210%
1.75 to <2.50	2,806	29	1.0340%	-	2.4000%	1.0900%
2.50 to <10.00	5,470	107	1.9680%	4.2510%	5.9260%	2.7630%
2.5 to <5	3,728	39	1.0590%	2.5600%	4.3720%	1.8010%
5 to <10	1,742	68	3.9130%	6.2220%	9.2520%	4.8200%
10.00 to <100.00	2,104	152	7.2400%	24.2390%	30.3020%	11.8910%
10 to <20	778	51	6.5540%	13.9860%	18.9900%	7.5480%
20 to <30	-	-	-	-	-	-
30.00 to <100.00	1,326	101	7.6420%	38.4500%	36.9400%	14.4390%
100.00 (Default)	1,017	1,017	100.0000%	100.0000%	100.0000%	100.0000%

Source: COREP reporting framework - Credit risk, IRB approach to capital requirements, PD back-testing: Template C 08.05 - Credit risk, IRB approach to capital requirements breakdown by PD range: Template C 08.03.

**Table 101** - Template CR9.1 - IRB approach: Back-testing of PD per exposure class (only for PD estimates according to point (f) of Article 180(1) CRR)

The template is not published because the specific requirements for estimating PD set forth in art. 180, paragraph 1, point f) of the CRR.

\* \* \*

Given the Group's lack of material exposures to specialised lending and material exposures in equity instruments treated under the "Simple Weighting Method", prospectuses under the following template, to which the Group would be subject pursuant to art. 438(e) of the CRR, have not been published:

**Template EU CR10: Specialised lending and equity exposures under the simple risk-weighted approach**



## Section 12

# Disclosure of environmental, social and governance (ESG) risks (art. 449-bis CRR/CRR II)

This section provides the information on environmental, social and governance (ESG) risks, including physical risks and transition risks, required by Article 449-bis of Regulation (EU) No. 575/2013 (“CRR”) on the basis of the uniform publication templates established by the technical standards implementing the disclosure requirements introduced by Commission Implementing Regulation (EU) 2021/637 of 15 March 2021, as amended by the provisions of Implementing Regulation (EU) 2022/2453 of 30 November 2022.

The new public reporting requirements concerning ESG risks are fulfilled in a sequential and gradual manner, proportionality measures having been foreseen to facilitate their transposition by banking institutions, including the provision of transitional periods. In particular, the following must be fulfilled:

- qualitative, general information on the management of environmental, social and governance risks, aimed at understanding how banking institutions integrate ESG considerations into their corporate governance systems, business models and strategies, and corporate risk management frameworks;
- more specific, quantitative disclosures of physical and transitional risks related to climate change, comprising multiple data and information on: a) exposures to economic activities linked to atmospheric carbon emissions and subject to critical climate change events; b) climate change mitigation and adaptation measures taken by banks to be aligned with the objectives of the Taxonomy and to support their respective counterparties in the transition towards a carbon emissions-neutral economy.

Quantitative disclosure is subject to a phase-in period with a focus on the reporting of counterparty climate gas emissions data and a specific taxonomy alignment metric, the Banking Book Taxonomy Alignment Ratio (BTAR), designed to measure exposure to sectors of economic activity aligned with the EU Taxonomy of eco-compatible assets as defined by Regulation (EU) 2020/852, consistent with the targets set by the Paris Climate Agreement and the European Green Deal, the publication of which will become mandatory as of 2025 (with the first reporting date of 31 December 2024).

For this disclosure at 31 December 2023, the following are subject to mandatory disclosure:

- qualitative information on environmental, social and governance risks, describing ESG risk management policies and strategies and how these factors are integrated into the overall framework for identifying and monitoring “traditional” banking risks and into credit institutions’ internal decision-making and information processes;
- quantitative templates setting out specific disclosures on exposures to funded counterparties subject to physical and transition risk. The new element of this reporting is the introduction of templates that provide evidence of credit and financial exposures that can be counted in a specific metric aligned with the EU Taxonomy of green activities, the Green Asset Ratio (GAR).

The information in this section is also in line with the contents of the Consolidated Non-Financial Report (hereinafter, “NFR”) and/or the report prepared by the Group on the basis of the Task Force on Climate-Related Financial Disclosure (TCFD) protocol for the year 2023, published in the “Sustainability” section of the Bank’s corporate website:

<https://istituzionale.popso.it/it/sostenibilita/dichiarazione-consolidata-di-carattere-non-finanziario>).





In the following, the qualitative information on the integration of ESG risks into the Group's strategies, governance mechanisms and risk management system is described, and the quantitative information required by the aforementioned "Pillar 3" provisions is reported in standardised tabular models.

For the purposes of this section, the following general definitions apply:

- a. "*environmental, social or governance risks*": the risk of loss resulting from adverse financial effects on the institution due to the impact, present or future, of environmental, social or governance factors on the institution's counterparties or invested assets;
- b. "*environmental risk*" or "*climate and environmental risk*": the risk of loss arising from the adverse financial effects on the institution due to the impact, present or future, of environmental factors on the institution's counterparties or invested assets, including factors related to the transition towards the following environmental objectives: i) climate change mitigation; ii) climate change adaptation; iii) sustainable use and protection of water and marine resources; iv) transition to a circular economy; v) pollution prevention and control; and vi) protection and restoration of biodiversity and ecosystems. It includes both physical risk and transition risk;
- c. "*physical risk*": in the context of overall environmental risk, the risk of loss arising from the adverse financial effects on the institution due to the impact, present or future, of the physical effects of environmental factors on the institution's counterparties or invested assets. The term denotes the financial impact of climate change - including both more frequent extreme weather and atmospheric events and gradual climate change - as well as environmental degradation (e.g. air, water and soil pollution, water stress, loss of biodiversity and deforestation). Physical risk is classified as "*acute*" if caused by extreme events such as droughts, landslides, floods and storms, and "*chronic*" if caused by progressive changes such as rising temperatures, rising sea levels, water stress, loss of biodiversity, land-use change, habitat destruction and resource scarcity;
- d. "*transition risk*": in the context of global environmental risk, the risk of loss resulting from the negative financial effects for the institution due to the impact, present or future, of the transition to an environmentally sustainable economy on the institution's counterparties or invested assets; the term denotes the financial loss that an institution may incur, directly or indirectly, as a result of the process of adjustment to a low-carbon and more environmentally sustainable economy; this could be caused, for example, by the sudden adoption of climate and environmental policies, technological progress or changing market confidence and preferences, and may result in reduced profitability of companies and devaluation of assets;
- e. "*social risk*": the risk of loss resulting from the adverse financial effects on the institution due to the impact, present or future, of social factors on the institution's counterparties or invested assets;
- f. "*governance risk*": the risk of loss resulting from adverse financial effects on the institution due to the impact, present or future, of governance factors on the institution's counterparties or invested assets;
- g. "*GHG (Green House Gases)*": the emissions of climate-altering gases (or greenhouse gases) attributable to a product, organisation or individual. The most commonly publicly reported emissions are carbon dioxide (CO<sub>2</sub>); other examples of polluting gases are water vapour (H<sub>2</sub>O), nitrous oxide (N<sub>2</sub>O), methane (CH<sub>4</sub>) and sulphur hexafluoride (SF<sub>6</sub>). They are measured in CO<sub>2</sub> equivalents (CO<sub>2</sub>e), a unit of measurement that enables the homogeneous assessment of different types of pollutant gases and their effects on climate change;
- h. "*GHG Scope 1*": direct greenhouse gas emissions from sources controlled or owned by the organisation (e.g. GHG emissions from combustion in boilers, furnaces and owned vehicles);
- i. "*GHG Scope 2*": indirect greenhouse gas emissions from electricity and heat consumption, i.e. generated by the energy purchased and consumed by an organisation as part of its production process (e.g. greenhouse gas emissions associated with the purchase of electricity, steam, heat or cooling from third parties);
- j. "*GHG Scope 3*": other indirect greenhouse gas emissions generated along an organisation's "value chain", upstream and downstream; hence, from sources not owned or controlled by the organisation itself (e.g., greenhouse gas emissions related to the production of purchased material, fuel used by vehicles not owned by the organisation, end-use of products or services, investments made);





- k. “*EPC (Energy Performance Certificates)*”: tools to improve the energy performance of buildings. They are defined as a document recognised by an EU Member State or a legal person designated by it in which the value resulting from the calculation of the energy performance of a building or building unit carried out in accordance with Directive 2010/31/EU of the European Parliament and of the Council of 19 May 2010 on the energy performance of buildings;
- l. “*financed GHG emissions*”: for a Bank, these refer to the amount of GHG emissions produced indirectly and that can be attributed to a given portfolio through lending, investment and insurance underwriting;
- m. “*PAIs (Principal Adverse Impacts)*”: principal adverse impacts of investment decisions and investment advice on sustainability factors;
- n. “*Taxonomy*”: EU taxonomy of green activities. It is a common classification of economic activities that can be considered environmentally sustainable, adopted by the European Union with Regulation 2020/852. It is designed as a tool to guide the choices of investors and companies towards a transition to economic growth without negative impacts on the environment and, in particular, climate. Activities are selected on the basis of their potential to contribute to six environmental objectives identified by the European Commission: (i) climate change mitigation; (ii) adaptation to climate change; (iii) sustainable use and protection of water and marine resources; (iv) transition to a circular economy, including waste reduction and recycling; (v) pollution prevention and control; and (vi) protection of biodiversity and eco-system health;
- o. “*GAR*”: green asset ratio. A key performance indicator (KPI) of a financial institution represented by the ratio of the value of credit and investment assets used to finance taxonomy-aligned economic activities to the value of total balance sheet assets.

## Qualitative information on environmental risk

### Strategy and business processes

- a. **Explanation of how the business model, strategy and processes, and financial planning incorporate risks arising from environmental factors and how these risks may evolve over time in view of changing technology, strategic frameworks, operating context, stakeholder preferences and changes in the physical environment itself.**

The Group is committed to acting consistently with the United Nations Sustainable Development Goals (hereinafter, “SDGs”) and the UN Global Compact Principles.

At the end of 2023, the Bank's Board of Directors, as envisaged in the 2022-2025 Business Plan (the “Business Plan”), approved participation in the United Nations Environment Programme Finance Initiative (UNEP FI). This is a partnership between UNEP and the global financial sector to mobilise private sector funding for sustainable development. By participating in this initiative, the Bank also participated in two related initiatives: the Principles for Responsible Banking (PRB) and the Net Zero Banking Alliance (“NZBA”), thus reinforcing the integration of sustainability factors into its corporate strategy, with a particular focus on climate and environmental aspects.

Within its Code of Ethics, the Bank also outlines specific “Behavioural Principles with reference to climate and environmental aspects”.





The Bank has a strong body of internal regulations to concretise its commitment to environmental protection and combating climate change in its business and operations, comprising a *Sustainability Policy* and an *Environmental Policy*, both of which are available on the institutional website (<https://istituzionale.popso.it/it/sostenibilita/il-nostro-impegno>). In the first document, updated in 2023 to reflect recent regulatory developments and governance innovations, the Bank describes how it strives to protect the environment and combat climate change by monitoring and containing the direct and indirect impact of its activities on them. The *Environmental Policy* also reinforces the Bank's determination to ensure that its activities and relations with customers, suppliers, collaborators and partners are conducted in light of a cost-benefit balance assessment that takes due account of environmental impacts, with the aim of minimising any negative effects that might arise. The two policies are adopted by all Group companies.

The Bank, aware of the urgency related to environmental issues and the fight against climate change, in its Business Plan has placed particular attention on the integration of the environmental factor (Environmental) in its traditional areas of activity, i.e. the granting of credit and investments in financial assets.

In particular, through its adherence to the NZBA, the Bank has begun the process of setting decarbonisation targets for its portfolios in line with the Paris Agreement (2015), the European Green Deal (2019) and European and international best practices, which call for greater private sector commitment to climate change mitigation actions.

The Bank also supported the Task Force on Climate-Related Financial Disclosures (hereinafter, "TCFD"), an international organisation aimed at encouraging companies globally to be more transparent about the financial risks and opportunities associated with climate change, by committing to report on the internal disclosure of these issues, as well as the specific performance objectives (KPIs) set, in a special TCFD Report<sup>22</sup>, prepared as an annex to the Consolidated Non-Financial Report pursuant to Legislative Decree 254/2016, thus aligning with international best practices.

As a demonstration of its attention to the fight against climate change and environmental protection, the Bank carries out detailed analyses of its carbon footprint, which is the calculation of greenhouse gas (GHG) emissions attributable to its own operations and to the various business lines that make up its customer service activities, and is engaged in projects to reduce its environmental impacts, particularly those related to its financial and credit asset portfolios (so-called Scope 3 indirect GHG emissions). Further information on the Bank's "GHG Inventory", the actions it has taken to reduce its carbon footprint and the first quantitative targets set can be found in the aforementioned TCFD Report.

In the NFR 2023 and TCFD Report 2023, information is also available on the preparatory activities for the definition of decarbonisation targets for the corporate loan portfolio, along with a description of the activities required to identify a set of preliminary portfolio targets ("pre-targets") formulated on the basis of the methodology issued by NZBA, in order to support the Governing Bodies in adopting an informed and consistent commitment to the initiative. The pre-targets will undergo further elaboration during 2024, which will include more in-depth analyses, to assess their relevance and refine them, with the aim of obtaining a first set of definitive targets to be submitted to the NZBA, in accordance with its methodology.

<sup>22</sup> The Task Force on Climate-Related Financial Disclosure (TCFD) recommends the use of scenario analysis in order to assess climate change risks, so as to obtain a clear direction towards a reduction of direct and indirect impacts. The guidelines developed by the TCFD aim to measure the adequacy of the climate strategy of member companies and to support them in communicating climate-relevant aspects to the outside world in a transparent and timely manner. The TCFD Report published by the Bank, covering the year 2023, is presented as an annex to the NFR and available on the corporate website (<https://istituzionale.popso.it/it/sostenibilita/dichiarazione-consolidata-di-carattere-non-finanziario>).



Mention should also be made of the following activities implemented so far by the Group to promote the reduction of environmental impacts:

- integration of climatic and environmental risk factors into credit processes;
- integration of climate and environmental risk factors into the internal governance system, strategic framework, risk management system and reporting, in line with the expectations of the Supervisory Authority;
- gradual development and placement of investment instruments to promote environmental characteristics;
- development of a specific bond issue program aimed at financing and/or refinancing eco-sustainable activities (green bonds);
- progressive promotion of financing products aimed at supporting the economic activities that contribute most to the mitigation and adaptation to climate change, such as, for example:
  - low-emission production processes;
  - purchase of housing with a reduced environmental impact;
  - energy upgrading of buildings;
  - energy production from renewable sources;
  - sustainable mobility projects;
- selection of funding opportunities, with reference to companies in “sensitive” sectors, through an assessment of regulatory compliance and environmental standards;
- integration of sustainability assessments into the main investment processes;
- definition of quantitative targets for ESG bonds in the proprietary securities portfolio.

For more information on the “environmental sustainability” content of the Group’s Business Plan, see the “Business Plan” section of the NFR 2023 and the “Strategy” section of the TCFD Report 2023, available on the Bank’s institutional website.

The initiatives concerning lending activities took the form of the adoption of a new ESG Credit Policy and the development of the “Next - Sustainable credit products” range, a new line of loans for individuals and companies wishing to moderate their energy consumption, make their travel more sustainable or invest in energy efficiency and renewable energy. Furthermore, as will be discussed in more detail in the following paragraphs and in the TCFD Report itself, the Bank is preparing risk management systems aimed at identifying, assessing and monitoring climate and environmental risks in an increasingly robust manner.

With reference to investment activity, during 2023, in line with the commitments made in the 2022-2025 Business Plan, a new ESG Investment Policy was approved. This policy document made concrete the Bank’s commitment and approach to integrating environmental, social and governance factors within its investment processes in financial instruments, both own and managed on behalf of third parties. For further details, please refer to the following paragraphs and the corresponding information section in the NFR 2023.

#### **b. Objectives, targets and limits for the assessment and management of environmental risks and explanation of the processes used to establish them.**

By joining the NZBA, the Bank has set an ambitious course with respect to reducing its environmental and climate impacts.

Considering also the interest of the markets, the requests of the European authorities to intensify their efforts to tackle the global issue of climate change, and the need to create specific key indicators (KPIs) to support the monitoring of its own climate performance, starting with a review of its asset and counterparty portfolios, the Bank is implementing target-setting





processes in line with the requirements of the NZBA methodology to define specific, objective and measurable targets, in line with the current international strategic framework. For this reason, the Bank has initiated a process to:

- refine the collection of data on GHG emissions, both direct and indirect, enabling the preparation of a dedicated inventory based on increasingly robust sources;
- develop near-term targets based on Scope 1 and Scope 2 GHG emissions according to NZBA's science-based methodology for the financial sector;
- develop near-term targets based on Scope 3, category 15 GHG emissions according to NZBA's science-based methodology for the financial sector;
- analysing preliminary long-term target assumptions in line with the NZBA framework.

The Bank's strategic planning is constantly being expanded in order to incorporate an effective and clear vision of the implications of climate change from a management perspective, in the short, medium and long term. The aim is to understand the climate drivers relevant to the pursuit of the objectives dictated by the business model and to integrate them into the framework of strategic asset allocation choices, assessing their impacts on the company's business profile and its sustainability. The definition of a corporate "climate strategy" cannot in fact disregard the study of scenario analysis, i.e. the projection of asset portfolios under different climate scenarios. Through the use of a scientific methodology, targets are set for reducing the amount of greenhouse gas emissions associated with portfolios. The achievement and monitoring of these targets are entrusted to specific performance indicators.

See the "Strategy" and "Metrics and Targets" sections of the 2023 TCFD Report for more in-depth planning and target setting.

In order to promote an adequate governance of climate and environmental risks, both physical and transitional, the Bank is also equipping itself with increasingly effective processes and systems for the control and management of these particular sources of risk, in line with the overall structure of internal controls, so as to have a holistic and well-documented view of their impact on "traditional" risk profiles (see, in this regard, the section below entitled "Risk Management", point k).

Please refer to the section on "Risk Management", point q, for a more detailed review of the interventions in terms of targets, limits and metrics for assessing and managing climate and environmental risks conducted as part of the company's Risk Appetite Framework (RAF).

### **c. Information on current and future (planned) investments in environmentally sustainable activities and sectors aligned with environmental objectives, including climate change targets.**

The *ESG Credit Policy* identifies the approach and general principles for the formulation of an ESG-sensitive credit process, in accordance with the EBA Guidelines on the granting and monitoring of credit. The document was approved on 22 December 2022 by the Board of Directors. In particular, the Policy:

- identifies the objectives pursued by the Group and the scope of application;
- defines the main technical terms and lists relevant regulations and principles;
- lays down general guidelines for the integration of ESG factors into the credit process, providing details on how ESG, sector and counterparty assessment is to be carried out;
- distinguishes sensitive sectors and activities;
- informs about the development of ESG credit products;
- outlines roles and responsibilities;
- indicates how it will be overseen, monitored, shared and disseminated.



The Group is committed to developing new sustainable strategies and products, in both credit and investment, as well as to recognising the Taxonomy and future related regulatory provisions as an indispensable point of reference in defining its sustainability targets.

In addition, through its Business Plan, the Group continues to create sustainable value by strengthening its positioning in ESG issues and supporting the acceleration towards a carbon-neutral economy by 2050, with the goal of zero net greenhouse gas emissions for its loan and investment portfolios, confirming its commitment to the NZBA. The Bank also directly supports the green and circular economy, as well as the ecological transition, through the disbursement of new credit and the promotion of new green “Next” products.

In investment activities, in 2023, in line with the commitments on sustainability undertaken in the current Business Plan, the aforementioned ESG Investment Policy was approved. This policy identifies the strategic lines of integration of sustainability factors in investment processes in financial assets – both own and managed on behalf of third parties – and indicates how they are to be monitored, shared and spread. In order to define as broad and structured a scope as possible, the Policy governs the integration of sustainability dimensions in strategic areas of activity such as investment services (portfolio management and investment advice), management of the proprietary securities portfolio and the approach to the issuance of bonds with ESG connotations.

In compliance with the regulations, the Bank also carried out an investigation that resulted in the selection of the ESG info-provider that would guarantee appropriate information coverage, in particular on ESG risks, about the financial instruments included in asset management or offered to customers through the advisory service. At the same time, the Bank carries out autonomous ESG analyses on the basis of information provided by financial applications normally used for offering its services and also examines information received directly from the producers of financial products.

The acquisition, analysis and processing of this information are key to efficient assessment of the environment and related investment opportunities which, in turn, are essential when building portfolios of financial instruments designed to optimise the risk-yield profile based on the established investment opportunities. In carrying out this activity, both a fundamental analysis approach and technical analysis methodologies are used, without neglecting ESG factor analyses, which are integrated into the decision-making process.

In September 2023 the Bank issued its second Senior Green Bond in the amount of 500 million euro under the EMTN (Euro Medium Term Notes) programme, and it also updated its framework in line with the current ICMA principles, subject to a Second Party Opinion by an independent third party. This bond issuance followed the inaugural issuance made in 2021, of the same amount and with similar characteristics.

As a participant in the financial markets, the Bank, following changes in the financial context linked to an increasing focus on sustainability factors, has integrated both sustainability risks and the consideration of major negative effects on sustainability factors into its investment decisions, more closely tailoring its products and services to customers’ changing needs. In the securities portfolio management service, the integration of ESG factors has been implemented, especially in the definition of specific management lines that favour sustainable, socially and environmentally conscious growth.





Regarding the internal implementation of the green asset classification defined by the European Taxonomy, the Bank publishes the eligibility and alignment disclosure pursuant to Article 8 of Regulation (EU) 2020/852 in its NFR 2023. According to the regulatory changes that become available from time to time, projects are being carried out with the aim of exploiting the information that the Taxonomy requires be collected directly from counterparties by a financial intermediary or by means of external info-providers. The Bank and its Group affiliates understand the relevance of this exercise in the development of new “sustainable” strategies and products, both credit and investment, and, in planning the activities envisaged in the Business Plan, recognise the Taxonomy and future related regulatory provisions as fundamental references.

**d. Information on measures taken to mitigate risks associated with environmental factors. Institutions must consider the counterparty’s ability to manage environmental risks.**

See “Risk Management” paragraph, point m) below.

## Governance

### FOREWORD: ESG GOVERNANCE

With the aim of increasingly integrating sustainability into its business, the Bank has adopted an ESG governance system that involves the interaction of various bodies dedicated to the supervision and management of these issues and their impacts. As envisaged in the Business Plan, in 2023 ESG governance was further strengthened, thanks above all to the establishment of the Board Sustainability Committee, which, in line with the provisions of supervisory regulations (Circular No. 285 of 17 December 2013, Part One, Title IV, Chapter 1, Section IV), is composed of three Directors, all non-executive, and at least one of whom is independent. The Sustainability Committee performs a support function for the Board of Directors in an investigative, advisory and propositional role in the assessment of sustainability factors deemed fundamental to the Bank’s medium- to long-term strategy and their translation into its policies; The distribution of roles and responsibilities in the field of “sustainability” as set out in the *Sustainability Policy* is detailed below:



- Defines Group-wide guidelines, targets and strategies on sustainability issues (Business Plan);
- Ensures that ESG risks are integrated into business strategies, governance, processes, procedures and the control system;
- Approves the NFR and the main policies within its sphere of competence;
- Approves the Risk Appetite Framework and risk governance policies, integrating them in time with ESG issues and, in particular, climate and environmental risks;
- Follows continuous training and updating activities on ESG issues and related risks, with particular attention to climate and environmental risks, in order to monitor and progressively increase its skills, also by filling in questionnaires and self-assessments;
- Supervises the correct handling of these issues.



## Board of Statutory Auditors



## Sustainability Committee

- Oversees compliance with the legal requirements for drawing up the NFR;
- Monitors the adequacy of the procedures and processes governing the drafting of the NFR.

A collegial body which:

- Examines and assesses the contents of the Group Sustainability Policy and the related strategies drawn up by the structures and the Sustainability Management Committee; examines and assesses the consistency of the Bank's other policy documents with the sustainability objectives in the light of the relevant national and international regulations, standards and practices;
- Provides support to the other Board Committees on the reflections of sustainability issues with reference to the specific competences of each, in particular in risk and opportunity analyses, remuneration policies, training and succession plans;
- Assesses, including from a proactive perspective, the integration into the Business Plan of environmental and social aspects aimed at creating value in the medium to long term; examines the Bank's commitments in relation to sustainability, in particular with regard to decarbonisation ("net zero") targets, and assesses their pursuit, with particular regard to the products offered and sustainable finance solutions;
- Assesses the integration of sustainability issues into the Bank's investment decision-making procedures and processes;
- Promotes and supports the Bank's initiatives aimed at ensuring an ongoing dialogue with stakeholders on issues within the Committee's remit, while also ensuring that the Board is informed of the outcomes of such initiatives;
- Reviews the NFR in the light of the approved policies, actions taken and results obtained, in advance of the Control and Risk Committee, so that the latter can take them into account in the performance of its duties;
- Reviews the other sustainability disclosures prepared by the Bank, including the TCFD Report and the sustainability-related contribution in the Public Disclosures in application of Pillar 3 regulations;
- Supports the Bank in its dialogue with the authorities on the outcomes of supervisory assessments of sustainability issues and the guidance received;
- Examines the assessments of sustainability rating agencies and suggested actions; assesses the Bank's positioning within industry metrics, indices and benchmarks; monitors developments in sustainability factors, also in the light of international guidelines and principles, as well as market and relevant regulatory developments;
- Assesses initiatives to spread a culture of sustainability at the Bank and awareness among staff of the importance of pursuing sustainable development;





### Sustainability Management Committee

- Examines the Bank's non-profit strategy and its implementation, in particular initiatives aimed at local communities, assessing their social and environmental aspects; promotes the development of relations with institutions and the third sector on issues within its remit;
- Examines in advance the reporting and documentation to be submitted to the Board of Directors for decision-making

- Periodically reviews regulatory developments, standards and relevant national and international practices on ESG issues;
- Assesses proposals to introduce and amend relevant internal regulations and turning guidelines into concrete initiatives, for which it also defines operational plans and monitors actual implementation;
- Contributes to the coordination of organisational structures and Subsidiaries in order to comply with the sustainability guidelines established by the Board of Directors and outlined in strategic planning from time to time;
- Coordinates activities aimed at identifying potentially relevant sustainability issues and updating materiality. Furthermore, it examines the NFR and the accompanying TCFD Report and makes any comments and suggestions submitted to the Sustainability Committee;
- In the context of transactions with debt instruments with sustainability characteristics ( ESG bonds):
  - I. Approves the relevant framework and the annual allocation and impact reporting;
  - II. Reviews and validates the set of eligible assets;
  - III. Supervises and monitors the management of the funds raised;
- Coordinates and monitors interface activities with relevant stakeholders and disclosure actions;
- The Chairman (Chief Financial Officer) informs the Sustainability Committee of the work carried out at each meeting, making available minutes and working documents, if requested.



### Control and Risk Committee

In line with its mandate, it assists the Board of Directors with regard to ESG and associated risks:

- in determining the guidelines of the internal control and ESG risk management system;
- in periodically reviewing the adequacy of said system with respect to the Bank's characteristics and risk profile, as well as its effective functioning.
- in assessing the conformity of the qualitative and quantitative information included in the NFR with regulatory guidance and reporting standards, after consulting the statutory auditor and the Board of Auditors.





## Risk Committee

In line with the General Climate and Environmental Risk Regulation:

- Examines proposals for the definition, integration or significant modification of techniques, methodologies and criteria for monitoring climate and environmental risks, expressing its own opinions and assessments;
- Evaluates proposals concerning the definition, updating or revision of the parameters representing climate and environmental risk appetite in the Risk Appetite Statement (RAS);
- Evaluates proposals for the introduction, extension, modification or significant integration of climate and environmental risk analysis systems, models, techniques or methodologies;
- Approves the system of operational level limits/thresholds associated with climate and environmental risk exposure indicators.



## Sustainability Department

Situated within the Planning, Investor Relations and Management Control Service (Chief Financial Officer Governance Area):

- Constantly monitors national and international regulations, standards and practices on sustainability issues;
- Supports and coordinates the central and peripheral structures, as well as the Subsidiary Companies in understanding and addressing sustainability factors and interfacing with relevant stakeholders;
- Drafts the NFR and other sustainability disclosures, including the TCFD Report, and coordinates its activities;
- Contributes to the preparation of the Public Disclosure in application of Pillar 3 regulations, as far as the ESG risk section is concerned;
- Carries out, for the parts within its competence, liaison activities with the Supervisory Authorities, in particular supporting the Risk Control Department in relation to climate and environmental risk issues;
- Manages dialogue with ESG rating agencies, handles questionnaire completion and monitors Group-wide ratings;
- Supports and coordinates the drafting of the Group's guidelines, targets and strategies on sustainability issues (Business Plan) with particular reference to the Bank's commitments to decarbonisation targets ("net zero");
- Looks after the Bank's relations with Third Sector entities, proposing initiatives particularly aimed at local communities, assessing their social and environmental aspects;
- Supports the Sustainability Management Committee:
  - I. in identifying the initiatives to be implemented;
  - II. in the operational management of ESG issues in accordance with the Business Plan;
  - III. in the periodic monitoring and reporting of initiatives;





### Operating ESG contact



### Mobility Manage

- Identifies initiatives to spread the culture of sustainability and promotes its internal and external communication in order to raise awareness among colleagues and all stakeholders of the importance of pursuing sustainable development;
- In consultation with the competent structures of the Secretarial Service and the Personnel and Organisational Model Service, defines training plans for the BoD, management and staff, aimed at ensuring appropriate dissemination and awareness of ESG issues and related risks, with particular focus on climate and environmental risks.

Appointed for each of the subsidiaries and for each of the main business areas of the Parent Company:

- Constitute reference figures for the dissemination of a culture of sustainability;
  - Address ESG factors with respect to their own activities, identifying projects and intercepting business opportunities;
  - Facilitate the circulation of information, the coordination of activities and their sharing, allowing for more effective interaction between functions and guiding internal operations.
- 
- Continuously supports the decision-making, planning, programming, management and promotion of optimal sustainable mobility solutions for the Group's employees.



#### e. Information on the management body's involvement in the supervision and management of environmental risks.

As part of its strategic supervisory powers, the Board of Directors (hereinafter, "BoD") is responsible for setting Group-wide guidelines, targets and strategies on environmental and climate issues, and for monitoring progress against the defined targets.

The BoD plays an active guiding and governing role in integrating climate and environmental risks into the corporate and Group culture and strategies, consistently outlining the main corporate policies and ensuring the appropriate adaptation of organisational and management systems. In order to ensure the integration of ESG risks into business strategies, governance, processes, procedures and the system of controls, and to oversee the proper monitoring of these issues, the BoD is responsible for approving the *Risk Appetite Framework* and the climate and environmental risk management process, verifying their compatibility with the strategic guidelines and policies for overall risk governance. The management body is also responsible for conducting effective supervision of the exposure to climate and environmental risks, taking regular cognisance of the time-to-time risk profile and the manner in which it is identified, assessed and measured, and taking appropriate corrective measures where necessary.

The BoD carries out continuous training and updating activities on ESG issues and related risks, with a special focus on climate and environmental risks, in order to monitor and progressively increase its skills, also through the completion of questionnaires and self-assessments. In 2023 in particular, *ad hoc* training sessions were delivered to the BoD on the subject of:

- European Taxonomy and the role of the Bank;
- Overview of ESG regulations, with focus on the *Corporate Sustainability Reporting Directive* ("CSRD");
- the Bank's adherence to NZBA.

The Sustainability Policy defines a reporting system in which the Board's Sustainability Committee, supported by the Sustainability Management Committee and the Sustainability Department, handles reporting and related documentation to be submitted to the Board of Directors for decision-making on ESG issues.

The process of reporting climate- and environment-related issues to the BoD also involves sessions during which the Chief *Risk Officer* presents members of the Board with ESG risk reports with a focus on climate and environmental risk factors to Board members on a quarterly basis.

During 2023, the BoD participated in various alignment meetings on climate and environmental issues. In particular, the following were submitted to the management body:

- the approval of the NFR 2022;
- the approval of the first *TCFD Report* in accordance with the recommendations of the Task Force on *Climate-related Financial Disclosures*;
- the approval of the results of the ICAAP and ILAAP as at 31 December 2022, supplemented with specific analyses of the potential impacts of climate and environmental risks on the Group's capital and liquidity position;
- an update on sustainability that included: (i) approval of the ESG Investment Policy; (ii) adherence to UNEP FI and the two international initiatives NZBA and *Principles for Responsible Banking* (PRB); (iii) approval of the materiality analysis of sustainability issues relevant to the NFR 2023; and (iv) updates on the outcomes of supervisory assessments of external disclosures on climate and environmental risks;





- periodic alignments and in-depth reviews of the progress of the activities set out in the project plan aimed at ensuring, over a multi-year horizon, gradual adaptation to the expectations laid down by the ECB in its “Guidance on Climate and Environmental Risks” (a revised version of the plan was finalised towards the end of the year on the basis of specific requests made by the Supervisor);
- the findings and methodologies relating to the financial materiality assessment of climate and environmental risks, conducted on an annual basis;
- the approval of a new general Regulation adopted as a policy document dedicated to the governance and management of climate and environmental risk factors.
- quarterly reporting on the dynamics of the riskiness of credit and financial exposure portfolios from the perspective of the incidence of ESG factors, with particular regard to climate-environmental (physical and transitional) risk sources;
- an update on the company’s RAF, with particular regard to ESG developments and additions, with a focus on climate and environmental risk drivers.

**f. Information on how the management body integrates the short-, medium- and long-term effects of environmental risks into the organisational structure of the institution for risk management purposes. Institutions must explain how this exercise at management body level is reflected in their business lines and internal control functions.**

As stipulated in the Sustainability Policy, the BoD defines Group-wide guidelines, targets and strategies on sustainability issues, in particular with the approval of the Business Plan.

As detailed in the “Strategy” section of the TCFD Report, corporate strategic planning is constantly supplemented in order to incorporate an effective and clear view of the implications of climate change from a management perspective, in the short, medium and long term. The aim is to understand the climate drivers relevant to the pursuit of the objectives dictated by the business model and to integrate them into the framework of strategic asset allocation choices, assessing their impacts on the company’s business profile and its sustainability.

In pursuit of this objective, the Bank is expanding its business, credit and financial planning model with the aim of capturing the specificities linked to the possible occurrence of medium-long term climate-related risks and opportunities (e.g. by complying with the requirements of international initiatives to which the Bank has adhered, particularly with regard to the definition of decarbonisation targets of lending and reduction of GHG emissions financed), while maintaining consistency and alignment with short and medium term strategic planning (budgeting and Business Plan), a process that in turn is intended to evolve to capture the main effects of transition risk and physical risk on the Bank’s prospective situation (capital and economic). The evolution of the framework is focusing, in the first instance, on climate-related aspects and will include the impacts that transition and physical events may generate on the Bank’s operations, according to different climate transition scenarios.

On the basis of these activities, specific climate KPIs will be defined and a dedicated reporting system will be set up to adequately monitor the achievement of the targets, using special enabling tools such as: provision of economic forecasts influenced by climate effects, engines for processing forecast estimates of physical risk and transition risk, tools for Portfolio Alignment analysis.



### g. Information on the organisation of risk committees and the allocation of tasks and responsibilities within the risk management framework to monitor and manage environmental risks.

The board *Audit and Risk Committee* supports the BoD in carrying out the functions it oversees regarding the definition of risk objectives and strategies for the prevention and management of risks considered relevant, including ESG risks and risks related to climate and the environment, both in a current and prospective perspective; moreover, without prejudice to the competences of the Remuneration Committee, it ensures that the incentives underlying the Bank's remuneration and incentive system are consistent with the Risk Appetite Framework. The Committee examines the NFR and TCFD Report and makes any comments and suggestions. It also supports the BoD in the periodic monitoring of risk exposure, verifying the completeness, adequacy and functionality of the internal control system; with particular regard to risk containment, it ascertains compliance with the limits set by the management body and/or required by mandatory regulations.

The Board *Sustainability Committee* supports the Board of Directors in an investigative, advisory and propositional role in assessing the sustainability factors deemed fundamental to the Bank's medium-to-long-term development strategy and their translation into its policies. In its activities, it also supports the other Board committees in the integration of the Business Plan and the overall processes of integrating sustainability into the corporate strategy.

The *Sustainability Management Committee's* main role is to coordinate the organisational structures of the Bank and its subsidiaries with the aim of ensuring compliance with the sustainability guidelines set by the BoD. It coordinates activities aimed at identifying sustainability issues potentially relevant to the company's dynamics; it examines the NFR and TCFD Report, making any comments and suggestions to be forwarded to the Board's Sustainability Committee.

The managerial *Risk Committee* examines proposals for the definition, integration or significant modification of techniques, methodologies and criteria for monitoring ESG risks, with particular attention to climate and environmental risks, expressing its own opinions and assessments. In addition, it assesses proposals concerning: a) the definition, updating or revision of the parameters representative of the ESG risk appetite, in particular climate and environmental risk, envisaged in the Risk Appetite Framework, b) the introduction, extension, modification or significant integration of systems, models, techniques or methodologies for analysing ESG risks, with particular attention to climate and environmental profiles.

For further information, see the section "Governance" (Introduction: ESG Governance) under "Qualitative information on environmental risk".

The subsidiary Banca Popolare di Sondrio (SUISSE) also has its own *ESG Committee* to specifically manage issues related to environmental, social and investment governance sustainability. The main tasks of this collegial body are:

- to follow ESG regulation and trends in the asset management industry;
- to formulate proposals for working methodologies, rules, and sustainability parameters to be integrated into the various stages of the investment process;
- to discuss ESG investment ideas for consideration by the Investment Committee;
- to report to the General Management on the status of the implementation of sustainability policies in investments;
- to draw up a document once a year, called the *ESG Investment Newsletter*, aimed at informing people inside and outside the bank about the Bank's positioning regarding sustainable investment.





In addition, an ESG team has been established within the company's Investment Department, dedicated to studying the issue in all its aspects and particularly focused on product innovation and investment processes. In addition, two specific working groups have been created: the *Credit Working Group*, in charge of regulatory adjustments in the area of credit and mortgage advice (e.g. SBA regulatory impact on mortgages), and the Investment Working Group, in charge of assessing ESG aspects that can be implemented on managed products (e.g. provision of ESG data).

#### **h. Information on how environmental risks are included in the framework and internal reporting, as well as information on the frequency of internal reporting and information exchange on such risks.**

The Bank adopts a system of regular disclosure and reporting on ESG risk issues, with a focus on climate and environmental risks, which involves a dialogue between various competent bodies and functions. In particular:

- Board Sustainability Committee: takes care of the reporting and documentation to be submitted to the Board of Directors for decision-making;
- Sustainability Management Committee: The Chairman (Chief Financial Officer) informs the Sustainability Committee of the work carried out at each meeting, making available minutes and working documents;
- Sustainability Department: supports the Sustainability Management Committee:
  - in identifying the initiatives to be implemented;
  - in the operational management of C&E issues in accordance with the Business Plan;
  - in the periodic monitoring and reporting of initiatives.
- Audit and Risk Committee: in line with its mandate, it assists the BoD with regard to ESG and related risks (and, in particular, of a climatic-environmental nature):
  - in determining the guidelines of the internal control and risk management system in question;
  - in periodically reviewing the adequacy of said system with respect to the Bank's characteristics and related risk profile, as well as its effective functioning;
  - in examining the contents of the NFR, for the purpose of preliminary investigation with respect to the subsequent scrutiny and approval by the BoD.

To support the processes of climate and environmental risk monitoring and control, as well as for robust and reliable decision-making, the Bank's CRO area prepares adequate internal reporting to document to the relevant bodies and functions, on request or with predefined periodicity, the analyses and risk measurements performed. At the top management level, the Board of Directors and the Control and Risk Committee are regularly informed of trends in exposure to climate and environmental risks through the production of quarterly reports on the type and level of significance of physical and transitional factors relevant to each of the main traditional banking risk categories potentially impacted. For further information, see section on "Risk Management" below, item I).

#### **i. Inclusion of environmental risks in the remuneration policy and related criteria and metrics used to determine the impact of environmental risk considerations on variable remuneration.**

Remuneration is a fundamental tool for attracting and retaining staff with the professionalism needed to ensure the growth of Group entities and their ability to compete in target markets. It is therefore essential to develop staff by assigning them to roles with an increasing level of responsibility and complexity.



In this regard, the Group's remuneration policy has evolved, reflecting and supporting the general dimensional expansion of the activities. This expansion has also revealed the need for increasingly qualified professional resources to work in both the central and branch offices, partly because of the new areas that have been opened – among these, the area of environmental, social and governance sustainability, – and partly because of the higher level of competition within the banking system. In keeping with the general trends of the market, and with the intent of attracting, retaining and motivating the best human resources, the Bank has held firm to a number of basic principles: attention to the medium- and long-term sustainability of remuneration policies, general balance, meritocracy, a gradual approach and the desire to establish lasting relationships over time.

The Remuneration Policies submitted for approval to the Shareholders' Meeting of 29 April 2023 are the result of a thorough revision of the previous regulations. The main innovations introduced, explored in detail in the chapter of the NFR 2023 "Remuneration Policies and ESG Integration", include:

- the strengthening of the link between the sustainable success of the Group, individual management performance measurement and remuneration, in particular through:
  - broadening the scope of the quantitative and objective metrics considered in the determination of variable remuneration (excluding Heads of Control Functions);
  - selection of both short-term and long-term performance metrics, consistent with the objectives set out in the 2022-2025 Business Plan (expected results and timelines);
- strengthening of the system of metrics to support the Group's commitment to ESG issues. Specifically, measurable and specific sustainability goals are considered in determining short-term and long-term variable remuneration. In particular, the following variables are taken into account for the remuneration policies of long-term top management:
  - ESG rating: ensure a strong ranking of the Bank in the Standard Ethics sustainability rating and the CDP climate rating score;
  - ESG Credit and Finance: expand ESG product offerings and volumes;
  - ESG issues: increase ESG funding activity by issuing new green bonds and social bonds;
  - CO<sub>2</sub> emissions: reduce direct (Scope 1) and indirect (Scope 2 and 3) emissions;
  - ESG initiatives: participate in international initiatives related to environmental and social sustainability;
  - ESG training: integrate sustainability issues into corporate training programmes in a comprehensive, cross-cutting manner.
- The short-term remuneration for the General Manager also incorporates metrics and targets of an ESG nature such as:
  - ESG rating: confirm the EE corporate rating, with positive long-term outlook, assigned to the Bank by Standard Ethics;
  - ESG credit: integrate ESG credit processes, in application of the new ESG Credit Policy introduced in late 2022;
  - ESG finance: introduce an ESG investment policy;
  - ESG initiatives: join the Group of supporters of the Task-force on Climate-related Financial Disclosures and join international initiatives to reduce CO<sub>2</sub> emissions;
  - ESG training: conduct the annual ESG training courses provided at each level of the organisation.

Details on the changes introduced and the operation of the new Policies can be found in the "Annual Report on Remuneration Policy and Compensation Paid", approved by the Board of Directors on 17 March 2023. This document was approved by the Shareholders' Meeting on 29 April 2023.





With respect to 2024, the proposed Remuneration Policy submitted to the Shareholders' Meeting for approval includes the increase of the weighting of ESG parameters from 5% to 10% and, among other things, the replacement of the parameter "achievement of ESG training hours" with "completion of the Diversity and Inclusion Operational Plan".

More in-depth information on the Remuneration Policies applicable to members of the governing bodies and senior executives (managers), as well as on the remuneration determination process and the annual total remuneration ratio, can be found on the Bank's institutional website at the following links:

<https://istituzionale.popso.it/it/governance/documenti-societari>

<https://istituzionale.popso.it/it/investor-relations/assemblea-dei-soci>

## Risk management

### j. Integration of the short, medium and long-term effects of environmental factors and risks into the risk management framework and the RAF.

In order to integrate the short-, medium- and long-term effects of climatic and environmental factors into its overall risk management framework, the Bank has defined the following reference time horizons:

- *short term*, from 0 to 3 years;
- *medium term*, 3 to 7 years;
- *long term*, from 7 to 30 years.

Time horizon		Razionale di scelta
<b>Short term</b>	<i>Less than 3 years</i>	<ul style="list-style-type: none"> <li>■ Time horizon defined to ensure consistency with RAF and ICAAP/ILAAP analysis forecast interval</li> </ul>
<b>Medium term</b>	<i>More than 3 and less than 7 years</i>	<ul style="list-style-type: none"> <li>■ Time horizon defined consistent with the Bank's further climate-environmental initiatives (e.g. short-term NZBA targets, Bank climate planning and strategies)</li> <li>■ Horizon defined to set the observation point back to 2030, considered an important junction of the climate transition (e.g. EU target of 55% net GHG reduction, verification of target sustainability through EBA "Fit-for-55" exercise)</li> </ul>
<b>Long term</b>	<i>More than 7 years, up to 2050</i>	<ul style="list-style-type: none"> <li>■ Year 2050 identified as the end point of the long-term horizon for consistency with the global decarbonisation targets of the Paris Agreement and the Net Zero 2050 climate scenario ("orderly transition")</li> <li>■ Consistency with the time horizons envisaged in the Bank's further climate-environmental initiatives (e.g. future NZBA targets, climate planning and strategies)</li> </ul>

These time horizons are used across the board in the forward-looking processes of estimating the materiality metrics of climate and environmental risks, as well as in the analyses of quantifying the impacts of such risks on the current and prospective adequacy of the capital position (ICAAP) and the liquidity situation (ILAAP). For more information on the integration of the short-, medium- and long-term effects of climate-environmental factors and risks into risk management systems and Risk Appetite Frameworks, see points l, n, o and q below in this section "Risk management".





## K. Information on methods, definitions and international standards used to identify and manage environmental factors and risks.

In promoting adequate governance of climate and environmental risks, the Bank adopts appropriate, constantly refined systems to manage and control these exposures, in line with the overall internal control framework, so as to have a holistic view of their impact on “traditional” risk profiles. These systems aim on an ongoing basis to identify, measure, monitor and mitigate exposure to physical and transitional risk factors through the adoption of procedures, processes and methodologies that ensure careful risk management.

In particular, the approach adopted for the management of climate and environmental risks includes:

- the definition of appropriate tools and methodologies to assess the climate-environmental risk profile of sectors, counterparties and investment activities;
- the presence of appropriate processes for identifying, mapping and analysing the level of materiality of the current and prospective exposure to climatic and environmental risk factors that may manifest themselves in the context of traditional risk cases;
- the presence of appropriate processes and systems to quantify the potential impacts generated by climate and environmental risks, including through the use of forward-looking assessments (sensitivity or scenario analyses, stress tests, portfolio alignment exercises, etc.);
- the development of consistent systems for monitoring and reporting on exposure to climate and environmental risks based on appropriate metrics and indicators (e.g. classification of counterparties/issuers by economic sector and geographic area of activity, carbon intensity per individual counterparty, etc.);
- the identification of appropriate actions and tools to mitigate exposure to physical and transitional risks, supporting processes for the gradual reduction of these risks within the company’s operating areas (also in relation to portfolios, business lines, types of investments, etc.) and increasing their resilience to climate and environmental impacts;
- the adoption of appropriate systems for the identification and analysis of relevant regulatory developments relating to environmental sustainability factors.

In general terms, climate and environmental risks are integrated into the Bank’s regular risk management systems as determining factors for the exposure to already existing risk categories and not new types of risks.

The Bank has defined the aforementioned management approach on the basis of principles defined by international best practices and guidelines issued by the competent authorities. In particular, the framework of reference norms, guidelines and standards includes, among others:

- European Parliament Resolution of 29 May 2018 on Sustainable Finance;
- *Action Plan on Sustainable Finance* of the European Banking Authority (EBA) of 6 December 2019;
- Regulation (EU) 2019/2088 ( SFDR) of the European Parliament and of the Council of 27 November 2019 on sustainability reporting in the financial services sector;
- Regulation (EU) 2020/852 ( Taxonomy Regulation) of the European Parliament and of the Council of 18 June 2020, with the annexed Delegated Regulations:
  - Delegated Regulation (EU) 2021/2178 on how to calculate KPIs for disclosure under the Taxonomy;
  - Delegated Regulation (EU) 2021/2139 on technical screening criteria for activities under the Climate Change Mitigation and Adaptation objectives;
  - Delegated Regulation (EU) 2022/1214 concerning the integration of Delegated Regulation (EU) 2021/2139 with regard to gas and nuclear activities;





- Delegated Regulation (EU) 2023/2485 amending the technical screening criteria for the first two climate targets in Delegated Regulation (EU) 2021/2139;
- Delegated Regulation (EU) 2023/2486 amending Delegated Regulation (EU) 2021/2178, supplementing the technical screening criteria for the four additional environmental objectives;
- Regulation (EU) No. 2021/1119 of the European Parliament and of the Council of 30 June 2021 establishing the framework for achieving climate neutrality and amending Regulation (EC) No. 401/2009 and Regulation (EU) No. 2018/1999 (European climate regulation);
- Commission Delegated Regulation (EU) No. 2021/2178 of 6 July 2021 supplementing Regulation (EU) No. 2020/852 of the European Parliament and of the Council by specifying the content and presentation of the information that companies subject to Article 19a or Article 29a of Directive 2013/34/EU must report on environmentally sustainable economic activities and specifying the methodology to comply with this obligation;
- ECB Guide on Climate-Related and Environmental Risks of 27 November 2020;
- ECB *Good practices for climate-related and environmental risk management - Observations from the 2022 thematic review*, November 2022;
- EBA *Guidelines on loan origination and monitoring* (EBA/GL/2020/06);
- *EBA Report on management and supervision of ESG risks for credit institutions and investment firms* (EBA/REP/2021/18);
- *EBA Report on the role of environmental risks in the prudential framework* (EBA/REP/2023/34);
- Directive (EU) 2022/2464 of the European Parliament and of the Council of 14 December 2022 amending Regulation (EU) 537/2014, Directive 2004/109/EC, Directive 2006/43/EC and Directive 2013/34/EU with regard to corporate sustainability reporting (CSRD);
- Proposal for a Regulation of the European Parliament and of the Council on nature restoration (Procedure 2022/0195/COD - *Nature Restoration law*);
- Decree No. 434 of 21 December 2023 of the Ministry of the Environment and Energy Security – National Climate Change Adaptation Plan;
- Regulation (EU) 2023/956 of 10 May 2023, which established the Carbon Border Adjustment Mechanism (“CBAM”);
- UNEP FI *Guidelines for Climate Target Setting for Banks*, guidelines developed by the signatories of the UNEP FI *Principles for Responsible Banking* commitment;
- *Science Based Targets, Financial Sector Science-Based Targets Guidance*;
- Recommendations of the *Task Force on Climate-related Financial Disclosures* (TCFD);
- *Partnership for Carbon Accounting Financials* (PCAF).
- *Green Bond Principles - Voluntary Process Guidelines for Issuing Green Bonds* (2021) of the International Capital Market Association (“ICMA”).

In 2023 the Bank participated in the important *Carbon Disclosure Project* (CDP ) initiative in continuation of 2022, and, following its previous adherence to the recommendations of the *Task Force on Climate-Related Financial Disclosures*, published its first TCFD report as an appendix to the Consolidated Non-Financial Report (NFR) 2023, providing the public with climate-related risk reporting on the four main thematic areas: governance, strategy, risk management and metrics and targets.

In addition, the Bank formally joined the UN PRB (*Principles for Responsible Banking*) and the *Net-Zero Banking Alliance* (NZBA) initiatives in the second half of 2023 (see section “Strategy and business processes”, point a).

With regard to the defining framework, see the key definitions in the introductory part of this Section 12.



## I. Indication of the processes by which the entity identifies and monitors its activities and exposures that are sensitive and vulnerable to environmental risks.

The Bank has established regular processes for identifying and assessing the materiality of exposure to risks related to climate and environmental (C&E) change, physical and transitional risks that may directly or indirectly affect the business context and profitability. The materiality of these risks, understood as their capacity to influence the sustainability of current and future company returns, is normally analysed on an annual basis, by adopting data and techniques subject to refinement on the basis of the most advanced practices available and the indications provided by the Supervisor. To this end, the Bank uses specific tools and metrics as well as specific methodologies for conducting analyses to identify and map its exposures to environmental risk factors.

As a general rule, the Bank considers C&E risk factors as determinants capable of affecting the exposure to existing banking risks and not as additions to the typical scope of banking risks that can potentially be assumed. The level of materiality is therefore detected, from a financial standpoint, in relation to the possible influence of physical and transitional factors on traditional risk categories, thanks to a structured analysis of the transmission channels by which they could propagate in the event of materialisation.

In identifying the most relevant C&E risk factors, the Bank takes as a reference the expectations contained in the “Guide on climate-related and environmental risks”, a document published by the European Central Bank in November 2020, which summarises and defines in detail the drivers and risk factors arising from climate change and deteriorating environmental conditions. All the factors indicated by the ECB are classified by the Bank as potentially relevant to its business model; the elements identified are updated from time to time on the basis of developments in scientific knowledge and the regulatory framework.

In particular, as already mentioned in previous sections, two main risk drivers fall under C&E risks:

- transition risk
- physical risk.

The following overview table summarises the C&E risk factors considered relevant in connection with the aforementioned drivers, according to the classification dictated by the Supervisory Authority:

Physical risk factors		Transition risk factors	
Climated-related	Environmental	Climate-related	Environmental
<ul style="list-style-type: none"> <li>■ Extreme weather events</li> <li>■ Chronic weather conditions</li> </ul>	<ul style="list-style-type: none"> <li>■ Water stress</li> <li>■ Resource scarcity</li> <li>■ Loss of biodiversity</li> <li>■ Pollution</li> </ul>	<ul style="list-style-type: none"> <li>■ Policies and regulation</li> <li>■ Technology</li> <li>■ Market confidence</li> </ul>	<ul style="list-style-type: none"> <li>■ Policies and regulation</li> <li>■ Technology</li> <li>■ Market confidence</li> </ul>

For each relevant C&E risk factor, the diagram below explains the transmission channels through which climate and environmental risk factors may manifest themselves within the traditional banking risk categories.





ESG Risk driver	Transmission channels (not-exhaustive)	Banking risk
<b>Environmental</b>	Lower profitability	
<b>Physical risks</b>	Reduction in property value Decrease in private wealth	Credit risk Market risk Operational and reputational risk
<b>Transition risks</b>	Lower asset performance Increased compliance costs Increased legal costs	Liquidity risk Strategic risk

For conducting financial materiality analyses of C&E risks, specific methods are defined to identify the levels of significance of exposure to C&E risk factors according to the traditional risk types potentially impacted. In general, materiality assessments and the subsequent measurement and monitoring of their impact on existing risk exposure levels and, consequently, on potentially associated capital and liquidity requirements, take into account:

- geographical, economic and regulatory context factors (e.g. vulnerability to environmental and climate risks of different geographical areas, economic sectors and property energy classes);
- specific factors linked to strategic objectives, operations and the business model pursued (e.g. services offered and reference markets), the composition of the company's assets (e.g. credit portfolio, financial investments, guarantees, etc.), the composition of funding sources, logistical aspects (e.g. physical location of Group components, location of suppliers' production activities).

The process of identifying the materiality of climate-environmental risk sources for the Bank's business and operating model consists of the following sub-phases:

- a. Mapping of C&E risk factors and transmission channels through which physical and transitional drivers can propagate their impacts on exposure to the banking risks analysed.
- b. Identification of traditional risks potentially impacted by the effects generated by exposure to C&E risk factors.
- c. Definition of distinct time horizons and different dimensions of C&E analysis. As for time horizons, all analyses focus on a 30-year horizon (up to 2050), distinguishing three forecasting intervals:
  - *Short-term*, covering a time period of three years or less;
  - *Medium-term*, which identifies C&E risk events expected to occur over a horizon of more than 3 years and less than or equal to 7 years (by 2030);
  - *Long-term*, describing C&E risk events expected to occur over a time horizon of more than 7 years and in any case by 2050.

The Bank identifies four different clusters for assessing C&E risk profiles (dimensions of analysis): (i) economic sectors; (ii) geographic areas; (iii) individual significant counterparties (debtors, issuers of portfolio securities, suppliers, etc.); and (iv) energy consumption of own and third-party properties.

The analysis includes:

- a preliminary materiality assessment of C&E factors, i.e. a holistic pre-examination, based on studies of a scientific nature, of the characteristics of vulnerability to climate-environmental risks of each dimension of analysis in the forecast time horizons considered; if this assessment is positive, the degree of materiality of climate-environmental effects is investigated for each cluster considered and in the defined time horizon;



- selection of C&E analysis metrics and tools useful to capture and assess the individual transmission channels through which C&E risk factors may manifest themselves;
- conducting financial materiality assessments of the potential impact of C&E factors for all traditional risk categories analysed.

In fact, the identification of the most significant transition factors makes it possible to understand and quantify in a financial sense their negative impacts on the business context, in the short, medium and long term, also with a view to orienting strategic choices and ensuring the resilience of the business model pursued.

In 2023 the measurement of the degree of materiality of physical and transitional factors was performed for the following types of traditional banking risks:

- Credit risk
- Market risk
- Liquidity risk
- Operational risk
- Reputational risk
- Strategic and business risk.

Materiality analyses share the following general elements.

- The impacts of physical and transitional risk factors are investigated prospectively by applying the Net Zero 2050 climate scenario ("orderly transition"), an ambitious scenario limiting global warming to +1.5°C by 2050 through the immediate and orderly introduction of strict climate policies and innovation.
- For the analysis of traditional risks involving business portfolios, the concentration and qualitative composition of the Group's portfolios or business segments over the three defined time horizons are assumed to be constant, in order to investigate the existing riskiness without the influence of possible prospective recomposition effects.
- The materiality levels of C&E risk factors are analysed according to a bottom-up approach, i.e. starting from the highest possible level of detail (e.g. units of analysis represented by individual counterparties, financial instruments, real estate units, etc.) with successive aggregations of riskiness at the level of the clusters and dimensions of analysis considered.
- C&E risk is investigated, except where expressly specified, without considering the effects of any mitigation and active management of vulnerabilities to physical and energy transition risks implemented or planned by the Group and its counterparties.

For each banking risk analysed, the detection of the materiality of the impact of physical and transitional factors is based on various tools and metrics capable of detecting the significance of C&E factors that may manifest themselves in the relevant context, through specific transmission channels.

Materiality level
Minimum
Low
Medium
Medium-high
High
Very high





The estimation of the material scope of C&E risk factors, in accordance with the traditional risk assessment, calls for risk exposure to be classified according to the following categories:

“Material” means climatic and environmental factors characterised by a rating of Medium, Medium-High, High or Very High materiality with respect to the units of analysis considered.

For more information on the processes for identifying relevant climate and environmental (physical and transitional) risks, on the methodological criteria and tools adopted for estimating the materiality of these risk factors in relation to the Banking Group’s traditional risk types, and on the outcomes of the latest materiality analyses conducted, see the chapter “Risk management”, section “Identification of climate and environmental risks and materiality analysis” of the TCFD Report 2023.

The Bank periodically measures and monitors the evolution of its exposure to C&E risk factors in order to intercept potential changes in the risk profile and to identify critical issues or abnormal trends, in terms of the probability of occurrence, number or intensity of expected impacts. The process is carried out through the analysis and determination of objective and measurable indicators, referring to the different types of traditional risks impacted, which, with different granularity and specificity, make it possible to examine the possible exposure that the Bank must face in the conduct of its business activities. These metrics, associated with specific, progressive risk limits, integrate the Group’s Risk Appetite Framework at various hierarchical levels, supporting the control of the effects of physical and transitional risk sources on current and prospective positions exposed to traditional risks.

In order to report on the results of this monitoring, a special direct reporting system has also been defined in order to represent, on a quarterly basis, to the corporate governance Bodies the dynamics of the riskiness of the Bank’s business portfolios and operations from the perspective of the incidence of ESG factors, with particular attention to climatic and environmental factors.

The list of synthetic indicators used to monitor risks related to the environment and climate change, as well as the description of the escalation mechanisms envisaged in the event of exceeding the internal limits set, are documented, depending on the hierarchical level of the metric, in the “Risk Appetite Statement” (RAS) and in the “Risk Appetite Framework Regulation” of the Group and its entities, or in the specific internal regulations on the management of the risk cases impacted.

The overall C&E risk management process is regulated in a special policy document (“*General Climate and Environmental Risk Regulation*”) approved by the Board of Directors. Individual steps or components of the process are formalised in specific internal regulatory devices, forming together with the aforementioned reference policy an organic and integrated body of regulations with the general apparatus of risk management documentation.

#### **m. Information on activities, commitments and exposures put in place to mitigate environmental risks.**

Any critical issues recognised in the processes of identifying, assessing and measuring climatic and environmental risks, as well as in the periodic monitoring of the degree of exposure, trigger specific mitigation actions. Such situations may occur, in general, as a result of the periodic measurement of the performance of C&E risk indicators (KRIs), where these indicate an excessive exposure to physical or transitional risks in relation to established limits.

In this report, the Bank defines a set of possible management tools and actions to contain and reduce its exposure to C&E risks in the various business lines impacted. Mitigation initiatives are specifically defined according to the traditional types of risk within which climatic and environmental factors tend to manifest themselves.



With particular regard to relevant C&E risks in the context of credit risk exposure, the following mitigation actions may be taken, among others:

- activation of centralised deliberative procedures and single-name in-depth analyses as part of the “ESG Due Diligence” process, used to grant loans to assets and/or counterparties with a high exposure to C&E risk factors; this process is carried out by selecting counterparties on the basis of their GHG emission levels and has as its main objective collecting precise information to carry out an accurate C&E assessment of customers by filling out a dedicated internal ESG questionnaire;
- offering specific financing products (e.g. “Next” line of sustainable products and other forms of green lending) aimed at fostering the process of improving the climate-environmental profile of customers (corporate and consumer households), supporting their adaptation to the transition to a low-carbon emissions economy;
- introduction of specific climate-environmental performance measurement clauses (e.g. green covenants) in contractual agreements with customers in the presence of new credit lines in favour of counterparties more exposed to C&E risk factors.

In order to add further actions in continuity with those mentioned above, the Bank is strengthening its C&E risk mitigation framework along several lines of action. In particular, it is:

- developing specific solutions to mitigate the consequences of the manifestation of physical risks that may affect real estate acquired as collateral for loans, such as: i) promoting insurance policies against weather threats to which mortgaged real estate is exposed, and ii) launching a dedicated project aimed at defining physical weather risk reduction solutions on vulnerable real estate (DNSH), in line with the requirements of the EU Taxonomy;
- defining a set of GHG emission reduction targets financed up to 2050, accompanied by a set of intermediate targets up to 2030, for “carbon-related” sectors; the definition of these portfolio targets is a consequence of the Bank’s desire to play a role as a promoter in the ecological transition towards low-carbon business models and, further, in view of the commitment made in joining the Net Zero Banking Alliance (NZBA);
- implementing direct engagement strategies for customers most exposed to C&E risk factors, to raise awareness and establish a productive dialogue with these counterparties.

With regard to C&E risks that may arise in the context of market risk exposure, the following mitigation actions may be taken, by way of example:

- reorientation of investment policies in order to redesign the composition of the portfolio of financial assets to favour a reduction in the overall exposure to climate and environmental risks.

With regard to C&E risks that find manifestation in the form of operational and reputational risks, the following mitigation measures can be taken, by way of example:

- monitoring the level of maturity and completeness of the physical security procedures and energy efficiency standards of the Group’s buildings, also through the definition of specific business continuity and disaster recovery plans (subject to periodic verifications of their effectiveness), in order to prevent or proactively manage the occurrence of physical risks;
- underwriting and periodic review of the adequacy of insurance policies taken out by the Group to cover potential operational risks arising from climatic and environmental factors;
- reorienting its policies for selecting and engaging suppliers and business counterparties on the basis of compliance with certain requirements concerning the environmental sustainability of its business, with reference both to physical risk threats and to compliance with applicable climate-environmental regulations;
- reorienting its core business policies (e.g. customer financial services, credit disbursement and management) towards approaches that favour the prevention and/or reduction of overall exposure to climate and environmental risks, with direct or indirect benefits for the Group (e.g. effect on complaints and penalties);





- monitoring of the level of reputation enjoyed in terms of sensitivity to climate-environmental issues, with the possible activation of campaigns to restore the corporate image (e.g. emergency plans and crisis management, communication flows of public recognition of corporate choices) in the event that the Group is perceived as not adhering or only apparently adhering to instances of environmental sustainability (so-called greenwashing).

Finally, with regard to climatic and environmental risks capable of affecting liquidity risk exposure, no specific managerial risk mitigation actions other than those listed above are considered, as they mitigate potential negative impacts on the liquidity position.

**n. Information on implementation tools to identify and manage environmental risks. These include stress tests, sensitivity analyses or other forward-looking indicators, applied at exposure level, portfolio level, counterparty level or sector level, depending on the materiality of the risk.**

With regard to the measurement and quantification of climate and environmental risk profiles, the Bank estimates its exposures on the basis of both current data and forward-looking measures, capturing quantitative metrics of physical and transitional risk trends.

In this context, metrics are developed to determine what exposure is considered acceptable, defining an appropriate system of limits and risk indicators. With regard to climate risks in particular, the measurement tools adopted take into account the long-term nature of climate change, assessing how different temperature and greenhouse gas emission paths may accentuate these risks.

Recognition of these C&E risk metrics enhances the Group's ability to respond to the challenges of the transition to a carbon-neutral economy or to individual physical events that may impact the Group's typical operations, counterparties or asset portfolios, and to take mitigating measures on such impacts in a timely manner.

Among the metrics adopted, the Bank makes use of indicators calculated through the development of internal methodologies for assessing and classifying climate/environmental risk at both sector and individual counterparty/transaction levels, which are useful for portfolio analyses such as those used in the assessment of specific assets, transactions, investments or counterparties/issuers.

The Bank has defined appropriate tools and methodologies to carry out assessments of the C&E risk profile of sectors, geographical areas, counterparties and investment activities.

Below is a synoptic overview of the assessment tools currently used by the Bank to determine the extent of its exposure to C&E (physical and transitional) risks for the main "traditional" risk types impacted.

Credit risk		
Tool	Description	Use
<b>ESG scores of counterparty and individual components</b>	Risk metric that the Bank has developed internally to identify the level of exposure of its credit customers to ESG risk factors, with a focus on C&E risks. Additional individual counterparty and/or portfolio climate metrics (e.g. WACI, financed emissions, carbon intensity) are also derived from the elementary data used to determine the score	<ul style="list-style-type: none"> <li>■ Credit granting process</li> <li>■ Credit pricing</li> <li>■ Definition of credit policies (Single Name)</li> <li>■ RAF</li> <li>■ Materiality analysis of C&amp;E risks</li> <li>■ ESG reporting</li> </ul>





Credit risk		
Tool	Description	Use
<b>ESG heat map</b>	A tool developed at sector level to identify the potential risk of ESG factors linked to the Bank portfolio in relation to the 17 Sustainable Development Goals (SDGs) established by the United Nations	<ul style="list-style-type: none"> <li>■ Credit granting process (in the absence of counterparty ESG scores)</li> </ul>
<b>C&amp;E risk quantification metrics</b>	Metrics for measuring impacts on traditional credit risk parameters through C&E risk transmission channels	<ul style="list-style-type: none"> <li>■ ICAAP</li> </ul>

The above tools meet the need to assess the Bank's risk profile from a dual perspective: on the one hand, with a view to analysing the financial impact of environmental and climate factors on its economic and financial activities by, for example, investigating the riskiness of its counterparty portfolios and exposures due to climate change or environmental degradation (outside-in perspective); on the other hand, with a view to assessing the extent of climate-environmental risk factors determining the Bank's business activity or generated by it, which in turn could become financially relevant if they affect the Bank's stakeholders (inside-out perspective).

The first of the two assessment perspectives is the focus of the counterparty ESG scoring system developed by the Bank according to an internal calculation methodology, currently referring to the measurement of financial firms' vulnerability to C&E risks. The classification tool makes it possible to estimate, through the assignment of a numerical score and an associated risk category, the potential financial impacts associated with the exposure of credit counterparties ("non-financial companies" segment) to transition and physical risks.

All the elements making up the score are assessed prospectively through the use of forward-looking scenarios or hypotheses, representative of the possible evolution of the individual counterparty's physical and climatic and environmental transition risks over short, medium and long term horizons, with differentiation assessments at geographic and/or sectoral level. For example, in order to prospectively capture the sensitivity of the individual company financed to the climate and environmental transition and the related projected financial impacts, some of the climate scenarios proposed by the NGFS<sup>23</sup> are adopted over different time intervals of analysis (short term: 3 years; medium term: 7 years; long term: 30 years); the following scenarios in particular are relevant:

- "Net Zero 2050" scenario: a particular scenario that assumes the containment of global warming to 1.5°C through strict climate policies and strong technological innovation. The scenario assumes the immediate introduction of ambitious climate change policies with the goal of zero net CO<sub>2</sub> emissions around 2050;
- "Delayed Transition" scenario: a particular scenario in which it is assumed that annual global GHG emissions will not decrease until 2030, resulting in the delayed implementation of drastic policy choices aimed at keeping the global warming target below 2°C. This calls for a rapid decarbonisation pathway of economies to achieve the Net Zero 2050 scenario targets;
- "Current Policy" scenario: a particular scenario that assumes no evolution in current environmental and climate change policies, resulting in high physical risks. GHG emissions would grow until 2080, causing global warming of about 3°C and serious manifestations of physical risk. The scenario helps to assess the long-term magnitude of the physical risks, acute and chronic, to the economy and the financial system should climate gas emissions remain at current levels.

<sup>23</sup> The NGFS (Network of Central Banks and Supervisors for Greening the Financial System) is a group of central banks committed to contributing to the global development of climate and environmental risk management practices in the financial sector and to mobilising the world of finance towards a commitment to support the transition to a sustainable economy. Among other things, it develops specific forecast scenarios for the prospective assessment of climate risks.





In addition to the tools listed in the table above, more advanced models for quantifying C&E risks for Corporate and Retail counterparties are also being developed, mainly based on quantitative approaches and internal methodologies. These models are functional to both the integration of C&E elements into the IFRS 9 framework for determining loan impairments for accounting purposes and the revision of the current ESG scoring system.

For more details on the characteristics of ESG risk scoring under internal development, additional C&E risk assessment tools in the credit risk area, and ongoing methodological developments, see the chapter “Risk management”, section “Measuring and monitoring climate and environmental risks” of the TCFD Report 2023.

Market risk		
Tool	Description	Use
<b>Environmental Rating (E Rating)</b>	Useful tool to provide an overall judgement on the issuers of the securities in the portfolio with regard to climate-environmental issues (physical and transition risks)	<ul style="list-style-type: none"> <li>■ ESG reporting</li> </ul>
<b>Quantification of greenhouse gas emissions</b>	Carbon footprint and weighted average carbon intensity (WACI) of the securities portfolio	<ul style="list-style-type: none"> <li>■ ESG reporting</li> </ul>
<b>Analysis of portfolio alignment</b>	A tool to measure the alignment of the securities portfolio with climate targets used to monitor the degree to which the global warming containment goals of the Paris Climate Agreements are being met	<ul style="list-style-type: none"> <li>■ ESG reporting</li> </ul>
<b>Forward-looking climate scenarios (CVaR)</b>	Quantification of the potential prospective financial impact on the securities portfolio, in terms of the change in present value (Present Value delta), that would occur in certain climate scenarios	<ul style="list-style-type: none"> <li>■ SG reporting</li> <li>■ ICAAP</li> <li>■ Materiality analysis of C&amp;E risks</li> </ul>

The *Environmental Rating* is a metric acquired from qualified service providers to provide a rating of the issuers of financial instruments in the portfolio with regard to climate and environmental issues. The rating estimation methodology, differentiated for Corporate and Government issuers, is based on an analysis of specific points of attention (Key Issues) defining the C&E profile of the rated entity, each of which pertains to a particular thematic area (Theme). The following are the relevant themes investigated for the formulation of the environmental rating:

Corporate	Governmental
<ul style="list-style-type: none"> <li>■ Climate change</li> <li>■ Consumption of natural resources</li> <li>■ Pollution and waste management</li> <li>■ Environmental opportunities</li> </ul>	<ul style="list-style-type: none"> <li>■ Natural resource management</li> <li>■ Environmental externalities and vulnerability to external events</li> </ul>

The quantification of greenhouse gas emissions of financial instrument portfolios exposed to market risk is carried out on the basis of the following metrics recommended by the TCFD and the Partnership for Carbon Accounting Financials (PCAF):

- the *financed emissions* (Carbon footprint), representative of the amount of greenhouse gas emissions attributable to a given portfolio, or its sub-aggregates, through the share of investment in the issuers of the securities held;
- the *Weighted Average Carbon Intensity* (WACI), an indicator measuring the exposure of a given portfolio, or its sub-aggregates, to issuers with high levels of greenhouse gas emissions relative to their volume of assets.



*Portfolio alignment analyses* are conducted by means of tools made available by external service providers that enable targeted analyses of the Bank's portfolio of financial assets that aim to measure the alignment of a given portfolio, or its sub-aggregates, to global climate targets. These tools for analysis are used to monitor the degree to which the global warming containment targets of the 2015 Paris Climate Agreements inherent in the current composition of the investment portfolios owned are being met.

The prospective impacts on securities portfolios arising from climate and environmental risks are investigated through the use of the Climate VaR (CVaR) tool (for more details on this methodology, see the chapter "Risk management", section "Identifying climate and environmental risks and materiality analyses" of the TCFD Report 2023). The CVaR model, which is differentiated between Corporate and Government issuers, makes it possible to quantify the potential financial impact, expressed in terms of the change in the current value of securities (Present Value delta), that would occur in a given climate scenario. The provider, on the basis of the scenarios published by NGFS, provides multiple scenarios using different Integrated Assessments Models (IAMs). However, the Bank, in accordance with other C&E impact analysis frameworks, decided to focus its analysis on the following three NGFS scenarios:

- "Net Zero 2050" scenario
- "Delayed Transition" scenario
- "Current Policies" scenario.

For more details on assessment tools relevant to market risk, see the chapter "Risk management" (section "Measuring and monitoring climate and environmental risks") of the TCFD Report 2023.

## Liquidity risk

The Bank monitors its expected liquidity position by conducting differentiated stress tests involving, with effect from 2023, a specific scenario based on climate risk manifestation events.

On the basis of the results of materiality analyses of the C&E factors relevant to liquidity risk, which identified significant impact forecasts in relation to funding liquidity risk, the potential effects of the occurrence of acute physical risk events, on which this analysis focuses, were investigated. Among the many threats considered (e.g. forest fires, landslides, droughts, storms and cyclones, etc.), landslides were of particular relevance to the Banking Group's depositors as a whole and, specifically, to those in the province of Sondrio, the Parent Company's base of operations.

The expansion of the internal stress test framework on liquidity risk profiles with the addition of a simulation scenario dedicated to landslide events and their effects in terms of liquidity outflows was divided into two stress drivers: the run on branches related to retail funding and the unexpected drawing of credit facilities granted to the corporate segment and still available.

For more details on assessment tools relevant to liquidity risk, see the chapter "Risk management" (section "Measuring and monitoring climate and environmental risks") of the TCFD Report 2023.





## Operational and reputational risks

TOOLS			
Risk category		Description and scope	Use
Operational risk	Litigation risk	Collection of current and prospective (short-, medium- and long-term) scores of exposure to physical risk threats (acute and chronic): a. <i>real estate assets of the Group and EIF suppliers* based in the EU</i> : external data provider methodology	<ul style="list-style-type: none"> <li>■ Materiality analysis of C&amp;E risks</li> <li>■ ICAAP</li> </ul>
	Other operational risks	b. <i>real estate assets of the Group and EIF suppliers based outside the EU</i> : ThinkHazard! open-source tool methodology	
	Legal liability risk	Collection of current and prospective (short-, medium- and long-term) scores of exposure to transition risk threats: c. <i>credit counterparties</i> : scoring methodology developed in-house d. <i>EIF suppliers</i> : external data provider methodology	<ul style="list-style-type: none"> <li>■ Materiality analysis of C&amp;E risks</li> </ul>
Reputational risk			

\* FEI: Funzioni Essenziali o Importanti.

### a. Physical risks: real estate assets of the Group and EIF suppliers based in EU territory

The scores representing the levels of physical risk, broken down by reference time horizon (actual/future), are calculated by a leading external data provider on the basis of a proprietary methodology focused on the joint analysis of the local dangerousness of the property and the sectoral vulnerability of the property owner.

### b. Physical risks: real estate assets of the Group and EIF suppliers based outside the EU

The public domain scores of the *ThinkHazard!* tool, available with a detailed geographic view (e.g. province / canton) specific to identified physical risk threats, are associated with five risk exposure classes and fed back into the overall rating scale, on the basis of which qualitative materiality levels are defined for individual physical risk threats.

### c. Transition risk: credit counterparties

The methodological approach for credit counterparties is based on the evidence on the impacts of climate transition risks provided by the ESG scoring system for counterparties, broken down by short-, medium- and long-term horizon, developed internally by the Bank.

### d. Transition risk: EIF suppliers

The assessment methodology for EIF suppliers' exposure to transition risks relies on the counterparty transition score calculated by a qualified external info provider on the basis of the following components: i) transition scenarios; ii) macroeconomic determinants provided by the NGFS; and iii) modelling of the incidence of transition risk for each transmission channel (business revenues, investments and costs).

For more details on assessment tools relevant to operational and reputational risk, see the chapter "Risk management", section "Measuring and monitoring climate and environmental risks" of the TCFD Report 2023.

On the basis of the C&E risk materiality analyses performed and with particular reference to Expectation 11 contained in the ECB's "Guide on climate-related and environmental risks", the Bank has incorporated C&E risk factors into its internal



capital adequacy assessment processes (ICAAP) through dedicated impact quantifications (e.g. of the values of business portfolios and assets, operating volumes and profitability, management and regulatory measures of exposure to existing risks, etc.) based on the application of forward-looking scenarios simulating the climate transition and/or assumptions on the severity of the effects of relevant physical risks.

As early as 2022, the Bank had already begun defining and implementing the key components of its internal climate risk management framework, activating recurring data feeds focused on climate-environmental factors relevant to its operations and adopting analytical simulation calculation engines to estimate the impacts of physical and transitional risks on its main business portfolios. The framework, which is being progressively structured and expanded, underwent further development during the last financial year.

On the whole, by conducting scenario analyses and stress tests in respect of climate and environmental risks, the Bank aims to understand the potential impacts, including in management and economic-financial sustainability terms, of the propagation of these particular factors to traditional risk measures. Specifically, these analyses are aimed at assessing: i) how the Group might be affected by the effects of the prospective materialisation of physical and transition risks; ii) how climate and environmental risks might evolve under various climate change trend scenarios, considering that, typically, they are not fully reflected in historical data; and iii) to what extent climate-related and environmental risks might materialise over short-, medium- and long-term time horizons, depending on the scenarios considered.

The European Central Bank, in publishing the overall results of its first Thematic Review of climate-related and environmental risk management on 2 November 2022, reiterated its expectation that significant banking institutions would be fully aligned with all supervisory guidelines on the integration of climate-related and environmental risks by the end of 2024 at the latest. Among the key milestones of this alignment process, the ECB expects full incorporation of these risk drivers into intermediaries' ICAAP processes and internal stress testing systems by 2024.

In the current ICAAP cycle, the Bank made significant methodological developments in the direction advocated by the Supervisor in conducting the analysis, assessing the resilience of its capital adequacy profile to physical and transitional risks through simulations of the impact on exposure to traditional Pillar 1 risks such as credit, market and operational risks over different time horizons and using the main available climate scenarios. In particular, the framework has been strengthened to include the potential forward-looking impacts of climate risk transmission channels on traditional risk measures, namely:

- i. for credit risk, the potential impacts generated on risk drivers concerning the portfolio of corporate and individual loans and related guarantees received were examined;
- ii. for operational risk, the impacts of the occurrence of acute physical risk events entailing potential losses on Group properties were taken into account;
- iii. for market risk, the analysis focused on estimating the financial impacts caused by changes in the current value (Present Value delta) of the securities in the portfolio.

For more details on the methodological approach for quantifying climate and environmental risks adopted for ICAAP stress testing, see the chapter "Risk management", "Quantifying climate-related and environmental risks" section of the TCFD Report 2023.





- o. Estimated impact of environmental risk, including climate change risk, on an institution's solvency, regulatory capital requirements and liquidity risk profile as part of its internal capital adequacy assessment process (ICAAP) and internal liquidity adequacy assessment process (ILAAP).**

### ICAAP

As mentioned in the previous point, this year, the Bank planned to develop within the ICAAP exercise, evolving from the analyses conducted in the previous capital analysis cycle, an organic stress testing system aimed at testing vulnerability to possible manifestations of climate-related and environmental risk over the short-term (3 years), medium-term (7 years) and long-term (until 2050) time horizons, simulating the consequences on the Group's main risk exposure measures.

C&E risks are incorporated into the capital adequacy assessment by means of scenario/sensitivity analyses to take into account the effects of ecological transition factors and natural physical events that may evolve over a long-term time horizon. The analyses are based on scientific climate trend scenarios (NGFS).

In line with the Supervisory Authority's expectations, C&E stress analyses were conducted for the main Pillar I risks.

#### 1. Credit risk

The stress test was aimed at determining the effects on specific measures of credit risk exposure (potential changes in PD and LGD parameters and consequent impacts on the short-, medium- and long-term dynamics of the RWA and change in the cost of credit associated with the exposures covered by the analyses) of pre-defined NGFS scenarios of adverse developments in C&E risk factors – physical and transitional – to which both the borrowing companies and the real estate securing loans granted to households and businesses are typically exposed.

The analysis concerned the following portfolio segments:

- Non-financial corporations - exposure secured by real estate (NFC secured);
- Non-financial corporations - exposure not secured by real estate (NFC unsecured);
- Households - exposure secured by real estate (HH secured).

#### 2. Market risk

The framework used for the ICAAP exercise as at 31 December 2023 with regard to the C&E risk analyses of the trading and banking book securities portfolio was based on the Climate VaR (CVaR) methodology.

The scope of financial assets subject to valuation included debt securities, equity securities and options on shares and indices held in the Group's portfolios.

The financial impact of the change in the present value (Present Value delta) of the securities in the portfolio is investigated by taking into account the NGFS climate scenarios adopted by management.

#### 3. Operational risk

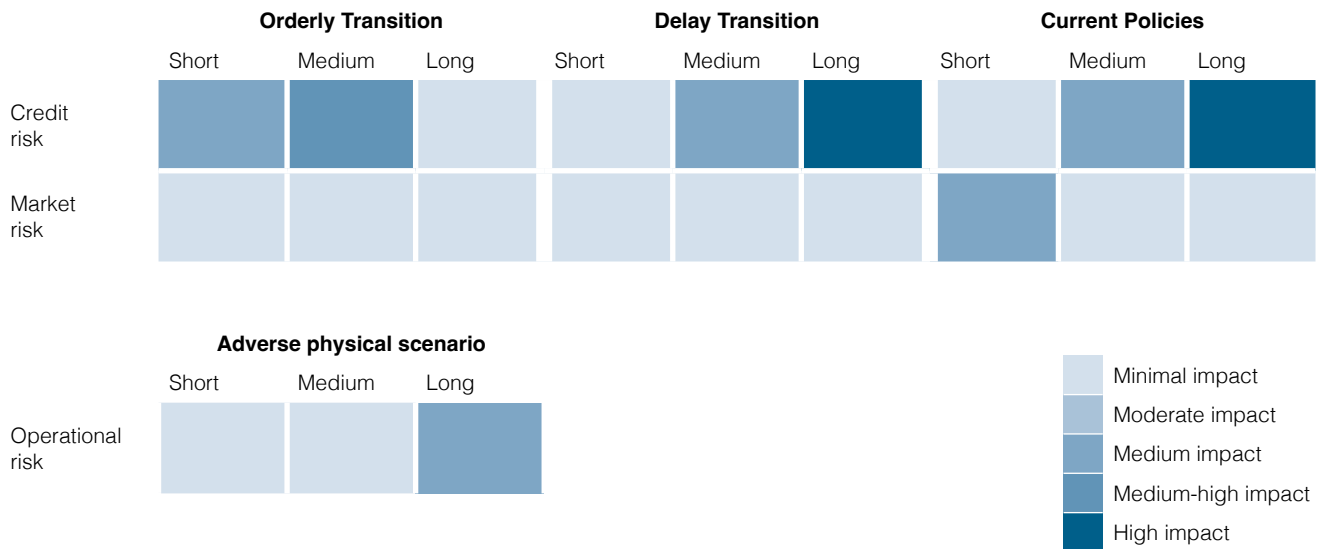
For the purpose of a dedicated stress test, the Bank developed an initial analysis approach examining and quantitatively estimating the potential impact on operational risk exposure of the manifestation of C&E risk factors, focused on the case of the occurrence of natural disasters or other external events due to an acute physical risk (flood), with the detection of operational losses resulting from the damage or destruction of property and equipment owned by the Bank.



Specifically, damage is conceived in terms of:

- i. economic losses related to the costs of restoring/repairing damaged real estate or resulting from the interruption of processes carried out at the affected physical locations (direct impact);
- ii. lost profits/lost revenues from the operations affected by the risk (indirect impact).

The overview diagram below illustrates, for each of the risks described above, the results of the analysis of climate risk scenarios over the short and medium-to-long term horizons, in terms of their impact on the Group’s capital adequacy:



For more details on the methodological approach for quantifying climate and environmental risks adopted for ICAAP stress testing, see the chapter “Risk management”, “Quantifying climate-related and environmental risks” section of the TCFD Report 2023.

**ILAAP**

The Bank supplemented its ILAAP stress testing framework with a scenario focusing on the effects of climatic-environmental factors on funding liquidity risk – a traditional liquidity risk case for which medium materiality was found as part of the analysis conducted on C&E risk factors.

The new stress scenario focuses on physical risk events, and in particular landslide episodes, affecting both retail customers, in terms of outflows of demand deposits (hypothetical outflows related to initial expenses following the catastrophic environmental event), and the corporate cluster, in terms of the increase in the Bank’s drawdowns to support corporate operations. This stress analysis, carried out monthly or quarterly depending on the frequency of calculation of the indicator in the baseline scenario, estimates the impacts of the adverse environmental event on the following metrics:

- Operational maturity ladder;
- management indicators: Survival days and Counterbalancing Capacity;
- regulatory indicators: LCR and NSFR.





**p. Information on data and elements for environmental risk management, key information currently missing and measures being taken to fill data gaps and improve data quality and accuracy.**

From the point of view of infrastructure and data management processes, the Bank is progressively working on defining ESG databases that are as complete and accurate as possible in order to retrieve and store all the information needed to govern and manage environmental, social and governance sustainability risks. To this end, specific architectural foundations have been defined so that information systems increasingly respond to the need to systematically collect, process and aggregate the data required to assess ESG risk exposure, to acquire information in an orderly manner through interchange channels and to place it in dedicated ICT environments available to multiple processes and users.

With the involvement of key business functions, the Bank conducted an extensive mapping of the ESG data currently used and useful in the near future, particularly in compliance with the relevant regulations, identifying the data process, its life cycle and its main “owners”. The mapping of ESG information needs therefore highlighted the level of data availability in the Bank’s current governance and data management system and the related integration and improvement measures to be implemented. As a result, it was possible to:

- obtain a clear, comprehensive vision of the scope of ESG data required and identify possible initiatives for their engineering and codified management;
- identify intervention priorities for more effective, conscious use of the data available in the company’s information assets.

The information that makes up the Bank’s ESG assets is mainly derived from qualified external info-providers (who provide proxy or point data of counterparties or issuers of investment securities), from the collection of data from public sources or directly from customers themselves.

As is well known, the subject of “ESG data” suffers from certain weaknesses in terms of completeness and accuracy (proxy data), as well as a lack of standardisation and homogeneity of the same. The creation of datasets that are as complete, accurate and robust as possible is therefore a fundamental element of the framework for the governance and control of these risks; for this reason, the Bank is assiduously engaged in activities to acquire, systematise and computerise management systems and verify the quality of the data and their sources.

**q. Information on the limits set for climatic and environmental risks and their corrective actions.**

With effect from 31 December 2022, the Bank has already begun to supplement the Group’s Risk Appetite Statement, on the one hand, through the inclusion of qualitative indications and objectives relating to aspects of ESG risk governance and management and, on the other hand, through the introduction at a complementary level (2nd level) of a quantitative parameter for measuring the extent of climate and environmental risk profiles, measured by the internal ESG scoring system described above, in the context of the credit risk exposure of the “corporate” portfolio.

With regard to qualitative objectives, the Bank outlined:

- the commitment to the activation of policies to guide the reconversion of bank credit towards green and sustainable sectors, as well as the definition of evaluation elements - current and prospective - related to the impact of climate and environmental factors on the economic and financial stability of its counterparties;
- the recognition of the risks of environmental degradation and climate change as significant sources of credit risk, resulting in the adoption of systems to measure these factors at the individual counterparty level. The single-name scoring of customers to assess their exposure to climatic-environmental factors and the portfolio synthesis through specific risk propensity metrics are considered elements of strategic direction for the Group, especially in the areas





of (i) the formulation and implementation of credit strategy, (ii) the offer of financing products to customers and (iii) the definition of lending pricing logics;

- the promotion of the integration of additional and new ESG risk assessments in the expression of the Group's risk appetite, in order to guide strategic choices with a view to limiting the impact of these factors on credit and investment, strategic, reputational and legal risk exposures, also through the development of dedicated quali-quantitative metrics.

Using risk-based analysis tools, the Group also aims: (i) to refrain from investing in counterparties that have, even prospectively, adverse impacts on the environment, climate and human rights; (ii) to define appropriate impact mitigation measures proportionate to the materiality of the ESG determinants.

As for the quantitative indicator mentioned above, it was defined to measure the concentration, in the loan portfolio regarding the "corporate" segment, of debtor counterparties with a negative assessment of vulnerability to C&E risk factors summarised through the score assigned by the aforementioned internal scoring system. This pre-existing second-tier risk metric has recently been supplemented by a similar market risk indicator, given by the percentage concentration of securities with a high climate and environmental risk profile in the portfolio.

At the lower level of the RAF schemes (Level 3), more granular sets of KRIs have also been introduced, which aim to ensure "operational" monitoring of trends in exposures to the environmental and social sustainability risk dimensions that characterise both the loan portfolio and investments in proprietary financial instruments. Appropriate metrics were also adopted for operational and reputational risk exposure factors related to ESG profiles.

The monitoring of these indicators makes use of appropriate systems for detecting, reporting and alerting deviations (alert or escalation procedures).

For more detail on the above-mentioned indicators, see the chapter "Risk management", section "Measuring and monitoring climate and environmental risks" of the TCFD Report 2023.

#### **r. Impact/link of climate and environmental risks with respect to prudential risk categories, including credit risk, liquidity risk, market risk and operational risk.**

According to the dictates of the Supervisory Authorities, risks related to the environment and climate change do not constitute a risk category in their own right, as they typically manifest themselves and materialise through "traditional" risk categories, influencing the magnitude or likelihood of materialising impacts: in other words, they represent determining factors for typical risk cases, such as credit, market, operational, reputational, liquidity, strategic and business risks. Climatic and environmental risks may therefore simultaneously constitute causal factors of various existing risk categories and subcategories, manifesting themselves in these through specific channels of transmission.

In line with the Group's taxonomic risk inventory ("Risk Map"), C&E risk profiles include the two typical risk drivers of transition and physical risk. Both are susceptible to causing impacts on economic activities, and consequently on the financial system: these types of risk factors in fact influence the level of productive activities, and can even permanently compromise them, through direct impacts (e.g. physical damage to property and infrastructure, drop in productivity or profitability of banking counterparties, devaluation of relevant assets, etc.) or indirect impacts (e.g. by causing subsequent events such as the interruption of production chains or macro-financial changes).





These risk factors are also likely to affect the resilience of a Bank's business model in the medium and longer term, especially for financial institutions with a business plan based on economic sectors and markets that are particularly vulnerable to climate and environmental risks. In addition, physical and transitional risks may give rise to further losses arising directly or indirectly from lawsuits (so-called "legal liability risk") as well as the reputational damage that may arise if the public, counterparties and/or investors associate the banking institution with adverse environmental effects.

In relation to this, for each main area of "traditional" risk, the Bank has defined, formalising them in a specific policy document ("General Regulation of Climate and Environmental Risks"), specific guidelines for setting up models for integrating climate and environmental risk assessments in the context of the respective management systems:

■ *Credit risk:*

- a. Climate and environmental risk factors and their impacts on credit risk are considered at all relevant stages of the credit granting and management process.
- b. As part of the granting of credit, operational criteria of a qualitative-quantitative nature are formalised to distinguish economic sectors and individual borrowers on the basis of their exposure to climate and environmental risks.
- c. For customers associated with higher environmental and climate risks and for larger counterparties, more in-depth analyses are appropriate, taking into account the current and/or prospective impacts of transition factors (e.g. changes in environmental pollution regulatory policies) as well as the quality of the client's management of physical and transition risks.
- d. Specific climate and environmental due diligence checks are promoted, both at the beginning of a customer relationship and on an ongoing basis. The Group intends, in particular, to establish a constructive dialogue with its most critical counterparties, also in order to support them in improving their environmental sustainability profile.
- e. Climate and environmental risks are integrated into the valuation of collateral, with particular regard to the risks of loss of value of real estate as collateral.
- f. The pricing of loans reflects differences in charges related to climate and environmental risks, e.g. by applying higher financing costs for assets particularly exposed to physical and transition risks.

■ *Market risk:*

- a. The Group monitors the effects of climatic and environmental factors on its positions exposed to market risk, taking into account the significance of physical and transition risks for the banking and trading book. This is due to the fact that investments in financial assets issued by companies with business models perceived as environmentally unsustainable or located in geographic areas susceptible to physical risks could decline in value as a result of changing regulatory policies, market confidence or technology, or due to severe weather events or gradual adverse changes in climatic conditions.
- b. The integration of climatic and environmental factors into market risk management processes may require the Group to adjust its investment policies in its own financial instruments.
- c. In addition to measuring the degree of "environmental sustainability" of portfolio investments, the ability to assess the possible impact of adverse events related to the materialisation of climate/environmental risks on the pricing of financial instruments should be noted.



- *Operational and reputational risks:*
  - a. The Group takes into account the possible impact of climate and environmental risks on business continuity as well as on the level of reputational and legal risks in relation to the various business lines and operations carried out, by putting in place adequate control and mitigation measures, also with regard to outsourced services and IT activities, especially if suppliers of essential or important services/functions are located in areas exposed to extreme weather events or other environmental vulnerabilities.
  - b. Business continuity could be affected by adverse impacts caused by physical risk events (e.g., disruptions in operations caused by material damage to buildings, branches and data processing centres as a result of extreme weather and environmental events). In relation to this, the Group takes all necessary measures to safeguard business continuity and ensure timely restoration of operations in the event of a disaster, both in terms of policies and in terms of the operation of tangible assets, including IT systems.
  - c. The Group assesses the extent to which the nature of its activities may increase the risk of negative financial impacts from future reputational damage, legal liability and litigation.
  
- *Liquidity risk:*
  - a. The Group integrates climate and environmental risks into the measurement and management of liquidity risk, assessing potential deterioration of the liquidity position due to cash outflows and/or a decrease in the amount of liquidity reserves and/or changes in the degree of liquidity of financial instruments held on its own account.
  - b. As part of ILAAP reporting, impact assessments on net cash outflows or cash reserves take into account severe but plausible scenario assumptions of materialising physical and transition risks, paying particular attention to fundamental vulnerabilities.

## Qualitative information on social risks

### Strategy and business processes

- a. Explanation of how the business model, strategy and processes, and financial planning incorporate risks arising from social factors (i.e. social risks) and how these risks evolve over time in view of changing technology, strategic frameworks, operating context and stakeholder preferences.

The Group has in its founding values solidarity, subsidiarity, attention to individuals and communities and proximity to families and small and medium-sized enterprises. It is also committed to fostering the economic and social development of the local communities and territories in which it operates, with particular attention to families and small and medium-sized enterprises, acting consistently with Agenda 2030 and, in particular, with several SDGs on social issues such as:

- SDG 3: Health and well-being
- SDG 4: Quality education
- SDG 5: Gender equality
- SDG 10: Reduce inequalities
- SDG 11: Sustainable cities and communities.
- SDG 12: Responsible consumption and production.





In its *Sustainability Policy*, the Group affirms its commitment to found its actions on respect for human rights as an essential requirement, protecting and promoting these rights in the course of its business. It identifies promoting diversity and inclusion as a priority commitment and, through its membership of national and international associations, it intends in particular to promote gender equality within the Group and for the benefit of communities.

These values are also reflected in the Business Plan, with which the Group, focused on its distinctive areas, maintains its intention to grow while keeping its ambition for social sustainability high.

Acts of psychological violence or attitudes or behaviour that are discriminatory or harmful to individuals or their beliefs, convictions or preferences are not permitted in internal and external labour relations. In the context of ordinary business relations, respect for human rights by partners and suppliers is of particular importance, including through specific contractual clauses.

By adhering to the Principles for Responsible Banking (“PRB”), the Bank has further strengthened its commitment to social issues through its commitment to report on the six principles defined by the international initiative such as:

1. aligning its business strategy to be consistent with and contribute to the goals and needs of society, as expressed in the Sustainable Development Goals, the Paris Climate Agreement and other relevant national and regional frameworks;
2. working to continuously increase positive impacts while reducing negative ones, managing risks for people and the environment from its activities, products and services;
3. working responsibly with customers to support the development of sustainable economic activities capable of creating shared positive effects for present and future generations;
4. proactively and responsibly consulting and involving various Stakeholders to achieve sustainability goals;
5. strengthening its commitment to support the PRB by implementing effective Governance and a culture of banking responsibility;
6. periodically reviewing the implementation of the Principles, thus ensuring transparency and accountability with regard to the positive and negative impacts generated and the contribution to the company’s objectives.

Valuing diversity and inclusion (D&I) represents a priority commitment for the Group in order to sustain a working environment that respects all forms of individual uniqueness and participation, inspired by principles of freedom, fairness and dignity in professional relations, and free of any collective or individual discriminatory behaviour. This commitment was further realised in 2022 and 2023, through:

- the issuing of specific “Guidelines on Diversity and Inclusion”;
- joining the “*Valore D*” initiative, the first association of Italian companies promoting gender balance and an inclusive culture for the growth of companies and the country;
- the signing of the Charter “Women in banking: enhancing gender diversity”, drawn up by the Italian Banking Association (ABI);
- the D&I training programme: training courses available to all the Bank’s permanent staff.

The objective is to create an inclusive working environment that promotes plurality, respect and free expression and that allows for the recognition and enhancement of everyone’s talent, offering each individual the same opportunities for professional growth and salary dynamics. To this end, training programmes for all staff on ESG issues were provided in the last two years.



In the same context, a Regulation on diversity in the composition of the Board of Directors and the Board of Statutory Auditors was adopted, a document that identifies the measures adopted to ensure that the composition of the corporate bodies reflects an adequate degree of diversification in terms, inter alia, of skills, experience, age, gender and international projection, in order to encourage the emergence of different perspectives and points of view on the subjects of competence.

To reinforce the Bank's safeguards on social issues, the *ESG Investment Policy* applies negative selection processes to exclude from the investment universe investments in companies operating in the non-conventional weapons sector, as well as companies for which clear violations of the principles of the UN Global Compact and the OECD Guidelines for Multinational Enterprises have been reported.

The Group identifies and manages social risks within its business processes. For more information on this, see the following points.

**b. Description of objectives, targets and limits for the assessment and management of social risks, as well as a description of the processes they use to establish these objectives, targets and limits. Institutions must explain the links of these objectives, targets and limits with the applicable international and EU policy framework and available benchmarks.**

The current ESG Strategy, an integral part of the broader Business Plan, includes, among other things:

- the introduction of ESG objectives in the remuneration policies;
- the definition of an operational plan on Diversity and Inclusion;
- the activation of the women's leadership programme;
- the definition of the giving strategy, including:
  - sponsorships
  - donations
- adoption of an ESG rating for suppliers;
- formalisation of a process digitisation programme for the customer.

In implementing its Business Plan, the Group also aims to consolidate its position in the corporate sector, with a particular focus on SMEs, as well as to intensify its presence in high-value areas with under-exploited potential, capitalising as much as possible on the new opportunities offered by the market - in particular, the National Recovery and Resilience Plan (so-called *PNRR*) -, including in areas contiguous to the banking business.

More information can be found on the Bank's institutional website at the following link <https://istituzionale.popso.it/it/documenti/piano-industriale-di-gruppo-2022-2025>.

When approving the distribution of the year's profit, the Bank allocates a sum to be used for charitable donations, which are assessed by a specific Charity Commission that meets, except in special cases, on a weekly basis.

The Bank also acts consistently with the 2030 Agenda and supports the goals of SDGs 3 "Ensure healthy lives and promote well-being for all at all ages" and 4 "Ensure inclusive and equitable quality education and promote lifelong learning opportunities for all".





Staff administration is underpinned by a robust and consolidated system of personnel management and training, which harmonises personal development paths with corporate objectives for building skills to achieve the internal necessary levels of professionalism. A corporate Welfare program and adequate planning in terms of health and safety are also created, developing awareness of possible risks, promoting responsible behaviour on the part of all personnel and favouring working conditions functional to the protection of the psychophysical integrity of workers and respect for their moral personality.

Regarding “Dialogue with the social partners”, relations with trade union organisations, as defined in the company Code of Ethics, are characterised by the utmost transparency, fairness, integrity, impartiality and independence, respecting the roles and prerogatives of each subject, in a climate of mutual respect and willingness to dialogue and participate, while guaranteeing the widest possible freedom and representation.

For the Group, respect for human rights is a fundamental and indispensable requirement, and therefore it protects and promotes their safeguard and the continuous dissemination of these rights in the performance of its activities. With this in mind, it proceeds, with a holistic approach and with the will to be a player of change, on the path already undertaken of identifying, implementing and monitoring Diversity and Inclusion objectives, implementing the most appropriate ways to achieve them in its own and system context.

The Group’s *Sustainability Policy*, issued in the first half of 2021, expressly recalls the commitment to promote and respect human rights, as also set out in the UN Global Compact. The Code of Ethics reiterates that the Bank is committed to guaranteeing working conditions that respect the dignity of the individual, and to neither admitting nor tolerating forms of discrimination contrary to the law: to this end, the Code requires that acts of psychological violence or attitudes or behaviour that are discriminatory or harmful to individuals, their beliefs, convictions or preferences are not permitted in internal and external labour relations.

With reference to SDG 11 above, the Group continues to ensure a strong social commitment by maintaining access points in scarcely populated areas as further confirmation of the strong support guaranteed to local communities.

<b>Territorial presence of BPS</b>	<b>2023</b>	<b>2022</b>	<b>2021</b>	<b>average</b>
<b>TOTAL MUNICIPALITIES SERVED BY BPS</b>	<b>335</b>	<b>332</b>	<b>332</b>	<b>333</b>
with less than 5000 inhabitants - served by BPS (n.)	134	134	132	133
%	40%	40%	40%	40%
with less than 5000 inhabitants - served only by BPS (n.)	67	59	56	58
%	20%	18%	17%	17%
<b>TOTAL BPS ACCESS POINTS</b>	<b>486</b>	<b>484</b>	<b>484</b>	<b>485</b>
in municipalities with less than 5000 inhabitants - served by BPS (n.)	144	144	141	143
%	30%	30%	30%	30%
in municipalities with less than 5000 inhabitants - served only by BPS (n.)	68	60	57	59
%	14%	12%	12%	12%

SOURCES (detail by municipality):

BPS access points: internal sources

Bank access points: Bank of Italy return flow - Planus

Number of inhabitants: <http://dati.istat.it> - 'Resident population'

(\*) Number of inhabitants as of 1 January 2023; Bank access points as at 31/12/2022



With reference to the commitment to “Responsible consumption and production” (SDG 12), relations with suppliers are governed by the company’s Code of Ethics, which includes commitments to transparency and guaranteed relations. General clauses are also set out in the Outsourcing Policy with regard to eligibility requirements for suppliers of essential or important services to confirm compliance with environmental protection standards and workers’ rights: in general, preference is therefore given to suppliers who adopt high environmental standards and good practices.

In line with what was defined in the Business Plan, in 2023 the Bank launched a project to assess the sustainability performance of its suppliers, starting with the most relevant in terms of turnover and considering companies that provide outsourced services.

The Bank conducted an ESG assessment of its suppliers, prioritising the use of public information such as ESG ratings/score, sustainability report and NFR and, where such information is not available, direct engagement of suppliers in potentially critical categories.

With a view to assisting companies interested in internationalisation, the Bank promotes multiple initiatives that aim to disseminate clear and up-to-date information on the opportunities offered by foreign markets, but also to support companies in opening new business channels in international markets. In 2023, 21 initiatives were organised, with a total of 2,787 participants. Excellent feedback on appreciation of the events was obtained, with an average score of 4 on a rising scale from 1 to 5.

#### **c. Description of measures to mitigate risks associated with social factors, including understanding the capacity of counterparties to manage social risks and engaging in dialogue with them to mitigate social risks.**

Social risks are defined by the Group as risk profiles deriving from exposures to counterparties that can be negatively influenced by social factors, or as the risks to which it is directly exposed due to its characteristics and operations. These factors typically relate to protection of the rights, welfare and interests of individuals and society and include elements such as (in)equality, personal health, inclusion, labour relations, occupational health and safety, human capital and community relations.

The process of managing and mitigating social risks takes place through a reconciliation to traditional banking risks. This reconciliation process allows for the timely identification and description of risks associated with social factors in order to adopt appropriate control methods specific to each identified category.

For further details see the NFR 2023, available on the Bank’s institutional website at the following link: <https://istituzionale.popso.it/it/sostenibilita/dichiarazione-consolidata-di-carattere-non-finanziario> (ref. section ESG risks – Risks relating to the topic).

## **Governance**

#### **d. Information on the management body’s involvement in the supervision and management of social risks.**

See the section “Governance” (*Foreword: ESG Governance*) on “Qualitative information on environmental risk”.

#### **e. Information on the organisation of risk committees and the allocation of tasks and responsibilities within the risk management framework to monitor and manage social risks.**

Social risks are appropriately monitored and managed through the organisational structures in charge, in general, of governing environmental, social and governance issues. In this regard, see the section “Governance” (*Foreword: ESG Governance*) on “Qualitative information on environmental risk”.





In addition, specifically for the social component, in agreement with the trade union representatives, a specific Commission on equal opportunities has been set up which has the following purposes:

- identifying appropriate measures to achieve equal opportunities;
- promoting measures to facilitate the reintegration of women workers after maternity leave and to safeguard their professionalism;
- promoting initiatives aimed at eliminating any behaviour harmful to personal freedoms, including sexual harassment;
- evaluating any reports about direct or indirect discrimination at a work or professional level and making proposals on this matter.

**f. Information on how social risks are included in the framework and internal reporting, as well as information on the frequency of internal reporting and information exchange on such risks.**

The internal reporting of “sustainability” issues related to social risks is carried out through a mutual dialogue between the competent Bodies and Functions, in particular between the Sustainability Department, the Chief Risk Officer Area, the Sustainability Management Committee, the Sustainability Committee and the Control and Risk Committee.

For more details on this, see the section “Governance”, point h, on “Qualitative information on environmental risk”.

In 2023, several meetings of the management body were held at which specific ESG-related topics were discussed, containing information of relevance to social risk management; namely:

- approval of the Consolidated Non-Financial Report 2022 pursuant to Legislative Decree 254/2016;
- approval of the “Home-Work Travel Plan”.
- approval of the ESG Investment Policy;
- approval of membership in international initiatives such as UNEP FI, Principles for Responsible Banking (PRB) and Net Zero Banking Alliance (NZBA).

**g. Inclusion of social risks in the remuneration policy and related criteria and metrics used to determine the impact of social risk considerations on variable remuneration.**

See the section “Governance”, point i), on “Qualitative information on environmental risk”.

## Risk management

**h. Information on methods, definitions and international standards used to identify and manage social risks.**

In managing social risks, the Bank refers to the principles defined by international best practices and guidelines issued by the competent authorities. In particular, the regulatory framework taken as reference includes:

- United Nations Global Compact (2000);
- United Nations Sustainable Development Goals (2015);
- UNEP FI Principle for Responsible Banking (PRB) (2019);
- Universal Declaration of Human Rights - United Nations General Assembly (1948);
- International Covenant on Economic, Social and Cultural Rights and International Covenant on Civil and Political Rights - United Nations General Assembly, 1966 (entered into force in 1976 and implemented in Italy in 1978);
- Declaration on Fundamental Principles and Rights at Work - International Labour Organisation (ILO), 1998 and the 8 Core Conventions;
- UN Conventions on the Rights of Women, on the elimination of all forms of racial discrimination, on the rights of the child, on the rights of persons with disabilities;







- Standards of Conduct for Businesses developed in 2017 by the United Nations High Commissioner for Human Rights on anti-discrimination against lesbian, gay, bisexual, transgender and intersex persons;
- Guidelines Diversity & Inclusion in Business - UN Global Compact Network Italy (2021);
- Directive 2013/36/EU of the European Parliament and Council of 26 June 2013 on access to the activity of credit institutions and the prudential supervision of credit institutions and investment firms;
- Legislative Decree 231/2001 (Administrative Liability of Entities) as amended;
- Legislative Decree 198/2006 (Code of equal opportunities between men and women) as amended;
- Legislative Decree 81/2008 (Consolidation act on the protection of health and safety in the workplace) as amended;
- Legislative Decree 254/2016, implementing Directive 2014/95/EU of the European Parliament and of the Council on the disclosure of non-financial information of certain large and public interest companies;
- Legislative Decree 179/2017 (Provisions for the protection of the authors of reports of offences or irregularities of which they have become aware in the context of a public or private employment relationship, so-called “whistleblowing”) as amended;
- Law No. 185 of 9 July 1990 on: “New provisions on the control of export, import and transit of weapons materials”;
- Law No. 220 of 9 December 2021 on: “Measures to combat the financing of companies producing anti-personnel mines and cluster munitions and submunitions”;
- Proposal for a Directive of the European Parliament and of the Council on Corporate Sustainability Due Diligence and amending Directive (EU) 2019/1937 (CSDDD);
- “OECD Guidelines for Multinational Enterprises”, updated version 8 June 2023, OECD (2023) Guidelines for Multinational Enterprises on Responsible Business Conduct.

In the first part of 2023, the Banca Popolare di Sondrio Group joined, as an ordinary member, “*Valore D*”, the first Association of large companies created in Italy that is committed to promoting an inclusive corporate culture, without discrimination, capable of bringing out everyone’s talent through the enhancement of diversity. Through this partnership, the Bank may take advantage of numerous services and growth opportunities, including a rich training offer to reinforce an inclusive corporate culture that values all diversities within the Group.

Furthermore, the Bank, as evidence of its growing sensitivity to these issues, has endorsed the Charter “Women in Banking: enhancing gender diversity”, drawn up by the Italian Banking Association (“ABI”), aimed at enhancing equal treatment and opportunities between genders in the banking sector and within corporate organisations

In relation to the definition of social risks adopted by the Bank, see section “Corporate Strategy and Processes” above, point c).

**i, j, k, m. Indication of the processes by which the entity identifies, measures and monitors social risks and the tools used in support. Impact/link of social risks with respect to prudential risk categories, including credit risk, liquidity risk, market risk and operational risk.**

As of 2020, the Bank has adopted a methodological framework for identifying and categorising environmental, social and governance (ESG) risk profiles based on a stakeholder engagement self-assessment approach that originates from the best practices promoted at the international level, capable of integrating and supporting, with a forward-looking vision, the activities of measuring and managing these risks. This reconnaissance method is based on the identification and mapping of ESG risk cases perceived as manifest in the short, medium and long term, both from an outside-in and an inside-out perspective (“dual perspective”), in light of the strategic guidelines pursued by the Group and the management policies adopted for the conduct of the company’s business.





The types of ESG risk identified are classified according to a taxonomic approach inspired by the evaluation scheme adopted in the CDP (Carbon Disclosure Project) Questionnaire for the retrieval of information relating to risks related to sustainability, suitably contextualised through the enhancement of specific information attributes, defined in the scope of the Recommendations of the Task Force on Climate-related Financial Disclosure (TCFD). The risk mapping and taxonomies have been internally integrated with further analysis aspects, functional to a more precise identification and classification of non-climatic environmental, social and governance considerations (topics not covered by the CDP initiative, which focuses only on risks associated with carbon emissions into the atmosphere).

In order to carry out this internal exercise to identify the risks linked to the specific reality of the banking group, the following types of risks pertaining to the “S” (Social) sphere are defined, taking the TCFD recommendations as a starting point:

Risks	
Legal and Policy	Technology
Market	Reputation
Credit	Strategy and Business

On an annual basis, the mapped ESG factors, including those relating to the “Social” component, are subjected to expert-based assessment by various company representatives and Group subsidiaries, who are called upon to identify, within its sphere of competence, the possible negative effects - current or prospective - of different issues related to “sustainability”, cataloguing them in a specific “ESG risk inventory” and accompanying them with additional information, useful for qualifying the identified risk dimensions.

The reconnaissance exercise is then supplemented by an examination of the interconnections between the ESG risks resulting from the Inventory and the list of characteristic banking risks present in the “Risk Map” (credit, market, operational, liquidity risks, etc.), a system for defining, identifying and assessing the relevant risk profiles used as a reference for the Group’s main risk governance processes (e.g. RAF, ICAAP, ILAAP), through an empirical association between the two frameworks.

For the year 2023, the Chief Risk Officer Area promoted the update of the Inventory on the same scope of corporate structures involved in the analysis conducted as in the previous year. This update envisaged, first of all, a new general rationalisation of the risk descriptors surveyed during the previous annual self-assessment activity, followed by a passage with the company contact persons involved for an approval and possible integration of the reported contents.

On the other hand, as regards the classification and measurement of risks pertaining to the “Social” aspect, the Bank has developed its own ESG Heatmap, a tool aimed at identifying at sector level the potential risk linked to ESG factors inherent in asset portfolios (loans and advances, investments in proprietary securities). It is represented by a double-entry matrix instrumental in the sectoral mapping of economic activities from the point of view of their exposure to climatic-environmental, social and governance risk factors, allowing a score to be associated with each economic sector on the basis of assessments of the potential environmental damage caused by the activities or the possible negativity from the point of view of the principles of social equity or good governance of the business organisation that characterise each sector.



The mapping process underpinning the development of the sectoral ESG Heatmap sees as its main source for defining the matrix’s categorisations the analysis and classification standard published periodically by UNEP FI, an initiative developed from the collaboration between UNEP (United Nations Environment Programme) and the global financial sector. The tool used (Impact Radar - Portfolio Impact Analysis Tool for Banks), by identifying specific areas or categories of negative impact, makes it possible to determine the extent to which operators in a given sector of economic activity are at risk of harming the achievement of one or more of the 17 SDGs dictated by the UN as part of the global action programme “Agenda 2030 for Sustainable Development”. The 17 SDGs are translated by UnepFI into 38 categories of negative impact from ESG liability risks, with assessment conducted at sector level using specific indicators.

The methodological approach is based on an inside-out materiality perspective, aimed at assessing the sectoral incidence of risk that the Bank may face when doing business with counterparties/sectors that may be responsible for actions, conduct or practices that may have negative consequences, not only for the quality of the environment and climate change, but also on compliance with socially recognised values and rules of good corporate governance.

The following diagram shows the negative impact factors, pertaining to the “Social” sphere, defined by UNEP FI for each economic sector and analysed by the Bank in the elaboration of its sectoral ESG Heatmap.

ESG pillars	UNEP FI factors
<b>Social</b>	<ul style="list-style-type: none"> <li>■ Availability of water</li> <li>■ Availability of food</li> <li>■ Availability of housing</li> <li>■ Healthcare</li> <li>■ Child labour</li> <li>■ Privacy</li> <li>■ Education</li> <li>■ Access to energy</li> <li>■ Mobility</li> <li>■ Conflicts and modern slavery</li> <li>■ Natural disasters</li> <li>■ Access to the financial offer</li> <li>■ Access to information</li> <li>■ Access to culture</li> <li>■ Justice</li> <li>■ Social equality</li> <li>■ Age discrimination</li> <li>■ Protection of minorities</li> </ul>

Based on the level of negative impact on ESG factors detected through the Heatmap, a riskiness scale was constructed according to five different levels identified by colours indicating the “potential risk” of each economic macro/sub-sector, both in terms of the overall ESG assessment, and by individual “Environmental”, “Social” and “Governance” components.

As part of the methodological initiatives planned for 2024, the current statistical model for the ESG scoring assigned to the Bank’s financed counterparties is slated for development. Among other innovations, it will include specific components in the “Social” and “Governance” areas provided by a qualified external provider .





### **I. Information on limits set in relation to the financing of projects or counterparties that significantly harm the social objectives of their business strategy.**

The Bank has supplemented the Group's Risk Appetite Statements with specific statements and qualitative objectives relating to the management of environmental, social and governance risks. See the section "Risk Management", point q) on "Qualitative information on environmental risk".

In addition, within its *ESG Credit Policy*, the Bank has identified a number of sectors and economic activities that are considered "sensitive" from an ESG point of view and for which special attention is paid during the lending phase, with the aim of adopting a responsible approach to these. The identified sectors pertaining to the "Social" sphere are as follows:

- Manufacture of and trade in arms
- Gambling
- Tobacco.

In addition to the aforementioned "sensitive" sectors, there are financing transactions with counterparties resident in countries with privileged taxation and counterparties resident in countries subject to embargoes/restrictions on assets, for which, in the credit-granting phase, it is planned to intensify controls by means of an escalation decision-making process and, where possible, provide specific support to customers with a view to facilitating the transition to a more sustainable business.

In terms of quantitative targets, the Bank has defined – at Level 3 of the RAF metrics structure relating to credit, operational and reputational risks – new specific monitoring indicators aimed at investigating the concentration in the aforementioned "socially sensitive" sectors and the number of complaints, related litigation and out-of-court redress related to non-compliance / apparent non-compliance with social needs. Development of the overall structure of the RAF and the list of related indicators is also planned in 2024, in particular also taking into account the Bank's overall exposure to these "sensitive" sectors.

Within the scope of its business relations, the Bank acts in compliance with the principles laid down in its Code of Ethics, promoting its values also towards third parties with whom it has business relations through the stipulation of contractual agreements whereby the parties undertake to comply with its provisions. Where third parties are legal persons, the Bank shall ensure that the dissemination and observance of the Code of Ethics is guaranteed by all natural persons included in the organisation of the third party.

## **Qualitative information on governance risks**

### **Governance**

- a. Information on how the counterparty's governance performance is integrated into the governance systems. Consideration of the counterparty's governance performance must cover the necessary steps in the counterparty's decision-making, supervisory and management processes at all levels, including committees of the highest governance body and committees responsible for economic, environmental and social decision-making.**

The assessment of the implementation of good governance systems of counterparties is carried out, as part of the preliminary investigation process, by means of the collection of information governed by specific internal regulations on credit granting and review activities.



In particular, the process involves the production of a set of qualitative information, capable of influencing the economic-financial situation of the counterparty, such as:

- the quality of the managerial and entrepreneurial structure;
- the sector in which the counterparty operates, with particular reference to the main competitive forces that characterise it and the positioning of the counterparty;
- the business plan in relation to the credit line requested and the specificities of the sector in which the counterparty operates;
- the political, economic and legal context if the counterparty operates abroad, where there are credit lines with cross-border elements;
- the customer's belonging to a group of connected customers, especially when repayment depends on cash flow from other connected parties;
- exposure to economic, social and governance sustainability factors (ESG factors), and in particular factors related to environmental pollution, climate change impacts and the adequacy of mitigation strategies, also investigated in the context of the dedicated "ESG Due Diligence" process for the counterparty and of any direct engagement of the financed entity on sustainability issues.

**b. How the role of the counterparty's highest governing body is taken into account in the disclosure of non-financial information, including the committee or top-level functional position that formally reviews and approves the organisation's sustainability report and ensures that all relevant aspects are addressed.**

The Bank considers corporate governance assessments as part of its processes for gathering information on counterparties in order to analyse their:

- corporate composition;
- allocation of powers and the system of delegation;
- presence of anomalous indicators (protests, conservatory events and procedures detected).

This activity is carried out by analysing chamber of commerce visas, incorporation documents and any company proxy structure. In order to assess ESG risk factors, use is typically made of:

- internal data required from the customer (e.g. sector, geographical location)
- counterparty data acquired from public sources (e.g. non-financial statements, corporate sustainability documents)
- specialised info-providers (e.g. MSCI, Vigeo, CDP)
- data from research institutes (e.g. UNEP FI).

**c. Information on how the counterparty governance results are integrated into the institution's corporate governance systems.**

As already highlighted in the "Risk Management" section on "Qualitative information on environmental risk", the governance aspect is an integral part of the ESG assessment of the Bank's counterparties.

In addition, the Bank and the other members of the Banking Group are strongly committed to preventing the products and services they offer from being used for the purposes of money laundering and terrorist financing, by promoting a culture of full compliance with the provisions in force and the effective fulfilment of the obligations of "passive cooperation" (aimed at ensuring in-depth knowledge of customers and the preservation of documents relating to transactions carried out) and of "active cooperation" (aimed at identifying and reporting suspicious money laundering transactions). The adoption at Group level of strict policy rules on preventing money laundering and terrorist financing is an expression of the commitment of all entities to repress financial crime phenomena.





## Risk management

### d. Ways of integrating governance risks into risk management systems.

As with social risks, the method for identifying, mapping and categorising relevant risks pertaining to the sphere of “Governance” is the “ESG Risk Inventory”. For more details on this, see points i,j,k,m of the “Risk Management” section on “Qualitative information on social risks”.

For a Bank, governance risks arise from exposures to counterparties that may be negatively influenced by factors related to corporate governance, or from similar risks to which the Bank is directly exposed due to its characteristics and operations. These factors relate to the governance arrangements/choices of counterparties or the banks themselves, including the incorporation of ESG considerations into their corporate governance policies and procedures.

Within the “Governance” risk macro-category, the same sub-categories were identified as in the “Social” area for the purposes of compiling the aforementioned Inventory:

Risks	
<b>Legal and Policy</b>	<b>Technology</b>
<b>Market</b>	<b>Reputation</b>
<b>Credit</b>	<b>Strategy and Business</b>

Also with regard to the measurement and classification of risks pertaining to the Governance aspect, the reference tool is the aforementioned sectoral ESG Heatmap. For more details, see points i,j,k,m of the “Risk Management” section on “Qualitative information on social risks”.

The following diagram shows the negative impact factors, referring to the “Governance” sphere, defined by UNEP FI for each economic sector and analysed by the Bank in the elaboration of its sectoral ESG Heatmap.

ESG pillars	Fattori UNEPFI
<b>Governance</b>	<ul style="list-style-type: none"> <li>■ Safety and social protection</li> <li>■ Employment</li> <li>■ Strong institutions, peace and stability</li> </ul>

As part of the methodological enhancement initiatives planned for 2024, the current statistical model for the ESG scoring assigned to the Bank’s financed counterparties is also slated for development. Among other innovations, it will include specific components in the “Social” and “Governance” areas provided by a qualified external provider.

Lastly, with regard to the Group’s quantitative Risk Appetite Statements, the Bank introduced new specific monitoring indicators at Level 3 of the metrics structure relating to operational and reputational risks, aimed at investigating the number of complaints, related litigation and out-of-court redress related to non-compliance /apparent non-compliance in the area of governance. The relevant monitoring and reporting system is scheduled to be put in place in 2024.



Quantitative disclosures of environmental, social and governance risks are set out below in accordance with the technical standards introduced by Commission Implementing Regulation (EU) 2021/637 of 15 March 2021, as amended by Implementing Regulation (EU) 2022/2453 of 30 November 2022 pursuant to Art. 449-bis of the CRR.

The review of the disclosure templates for transition risk and physical risks related to climate change subject to disclosure requirements as of 31 December 2022 includes the following tabular formats.

#### **A. Indicators of potential transition risk related to climate change**

- *Template 1*: reports quantitative information on the quality and residual maturity of credit exposures to non-financial corporations operating in carbon-related economic sectors, accompanied by information on the level of GHG emissions (GHG Scope 1, Scope 2 and Scope 3 emissions, of which GHG Scope 3 emissions are financed) produced by these counterparties;
- *Template 2*: reports information on commercial and residential real estate secured loans and real estate collateral recovered, classified according to the energy consumption and energy performance certificates (APE or EPC) of the real estate units;
- *Template 4*: reports aggregated and anonymised information on outstanding exposures to counterparties that are among the top 20 most carbon-intensive companies in the world.

#### **B. Indicators of potential physical risk related to climate change**

- *Template 5*: reports information on the banking book's exposures to non-financial corporates, loans secured by real estate and real estate collateral recovered, exposed to chronic and acute climate-related physical risks, with a breakdown by sector of economic activity and by geographic location of the counterparty's business or collateral.

#### **C. Climate change-related mitigation actions**

- *Template 6*: it provides a summary overview of the key performance indicators (KPIs) on taxonomy-aligned exposures, calculated on the basis of *Template 7* and *Template 8* relevant to the GAR (Green Asset Ratio) metric.
- *Template 7*: it sets out quantitative information on portfolio exposures concerning eligibility and alignment to the taxonomy with regard to the environmental objectives of climate change mitigation (CC Mitigation) and adaptation (CC Adaptation).
- *Template 8*: it sets out information on the total asset stock as at 31 December 2023 and the percentage of new assets (in the reference year 2023) that finance economic Taxonomy-aligned assets with respect to the environmental objectives of climate change mitigation (CC Mitigation) and adaptation (CC Adaptation).
- *Template 10*: it sets out quantitative information on possible mitigation actions and exposures to climate change risks to assets that are not aligned with the Taxonomy but that support counterparties in the process of transition to and pursuit of climate change mitigation and adaptation objectives (e.g. information on bonds held and sustainable loans provided to finance "eco-friendly" assets).

In all published quantitative models, financial information refers to the entire Banking Group. In contrast, climate-environmental information is only available for the Group's legal entities established in EU-27 countries.





**Table 102** - Template 1: Banking book - Indicators of potential transition risk related to climate change: Credit quality of exposures by sector, issuance and residual maturity (1 of 3)

Sector/subsector	a	b	c	d	e
	Gross carrying amount (Mln EUR)				
		Of which exposures towards companies excluded from EU Paris-aligned Benchmarks in accordance with points (d) to (g) of Article 12.1 and in accordance with Article 12.2 of Climate Benchmark Standards Regulation	Of which environmentally sustainable (CCM)	Of which stage 2 exposures	Of which non-performing exposures
<b>1 Exposures towards sectors that highly contribute to climate change</b>	<b>16.071</b>	<b>332</b>	<b>269</b>	<b>2.860</b>	<b>813</b>
2 A - Agriculture, forestry and fishing	337	-	-	64	16
3 B - Mining and quarrying	111	-	2	66	1
4 B.05 - Mining of coal and lignite	-	-	-	-	-
5 B.06 - Extraction of crude petroleum and natural gas	31	-	-	-	-
6 B.07 - Mining of metal ores	-	-	-	-	-
7 B.08 - Other mining and quarrying	59	-	-	46	1
8 B.09 - Mining support service activities	20	-	2	20	-
9 C - Manufacturing	5,200	121	20	1,218	141
10 C.10 - Manufacture of food products	875	-	-	190	20
11 C.11 - Manufacture of beverages	118	-	-	12	-
12 C.12 - Manufacture of tobacco products	-	-	-	-	-
13 C.13 - Manufacture of textiles	166	-	-	52	5
14 C.14 - Manufacture of wearing apparel	54	-	-	4	6
15 C.15 - Manufacture of leather and related products	18	-	-	3	1
16 C.16 - Manufacture of wood and of products of wood and cork, except furniture; manufacture of articles of straw and plaiting materials	81	-	-	12	2
17 C.17 - Manufacture of pulp, paper and paperboard	100	-	-	29	-
18 C.18 - Printing and service activities related to printing	68	-	-	46	20
19 C.19 - Manufacture of coke oven products	113	112	-	44	1
20 C.20 - Production of chemicals	268	-	1	222	2
21 C.21 - Manufacture of pharmaceutical preparations	147	-	-	42	1
22 C.22 - Manufacture of rubber products	227	-	-	42	4
23 C.23 - Manufacture of other non-metallic mineral products	155	1	-	116	6
24 C.24 - Manufacture of basic metals	427	-	-	78	2
25 C.25 - Manufacture of fabricated metal products, except machinery and equipment	901	-	-	109	16
26 C.26 - Manufacture of computer, electronic and optical products	117	-	-	77	29
27 C.27 - Manufacture of electrical equipment	131	3	8	13	10
28 C.28 - Manufacture of machinery and equipment n.e.c.	497	-	3	86	9
29 C.29 - Manufacture of motor vehicles, trailers and semi-trailers	398	-	-	14	-
30 C.30 - Manufacture of other transport equipment	152	-	7	3	2





**Table 102** - Template 1: Banking book - Indicators of potential transition risk related to climate change: Credit quality of exposures by sector, issuance and residual maturity (1 of 3)

Sector/subsector	a	b	c	d	e
	Gross carrying amount (MIn EUR)				
		Of which exposures towards companies excluded from EU Paris-aligned Benchmarks in accordance with points (d) to (g) of Article 12.1 and in accordance with Article 12.2 of Climate Benchmark Standards Regulation	Of which environmentally sustainable (CCM)	Of which stage 2 exposures	Of which non-performing exposures
31 C.31 - Manufacture of furniture	77	-	-	9	3
32 C.32 - Other manufacturing	61	-	-	8	1
33 C.33 - Repair and installation of machinery and equipment	49	5	-	7	1
34 D - Electricity, gas, steam and air conditioning supply	857	125	92	67	9
35 D35.1 - Electric power generation, transmission and distribution	453	119	79	53	7
36 D35.11 - Production of electricity	259	118	38	40	4
37 D35.2 - Manufacture of gas; distribution of gaseous fuels through mains	372	6	13	12	2
38 D35.3 - Steam and air conditioning supply	32	-	-	2	1
39 E - Water supply; sewerage, waste management and remediation activities	248	-	-	40	1
40 F - Construction	1,736	14	33	227	221
41 F.41 - Construction of buildings	1,135	3	-	167	182
42 F.42 - Civil engineering	265	10	33	19	10
43 F.43 - Specialised construction activities	335	2	-	41	29
44 G - Wholesale and retail trade; repair of motor vehicles and motorcycles	3,604	63	-	409	106
45 H - Transportation and storage	473	-	123	81	29
46 H.49 - Land transport and transport via pipelines	281	-	59	49	25
47 H.50 - Water transport	30	-	-	-	-
48 H.51 - Air transport	9	-	-	2	-
49 H.52 - Warehousing and support activities for transportation	136	-	64	29	4
50 H.53 - Postal and courier activities	17	-	-	-	-
51 I - Accommodation and food service activities	969	-	-	212	68
52 L - Real estate activities	2,535	8	-	475	220
53 Exposures towards sectors other than those that highly contribute to climate change	<b>3,425</b>	<b>14</b>	<b>48</b>	<b>575</b>	<b>149</b>
54 K - Financial and insurance activities	419	-	48	50	27
55 Exposures to other sectors (NACE codes J, M - U)	3,007	14	-	525	122
<b>56 TOTAL</b>	<b>19,496</b>	<b>346</b>	<b>317</b>	<b>3,435</b>	<b>962</b>

Source: FINREP reporting base: Templates F 18.00 - F 4.02 - F 4.03 - F 6.01; Internal ESG Database





**Table 103** - Template 1: Banking book - Indicators of potential transition risk related to climate change: Credit quality of exposures by sector, issuance and residual maturity (2 of 3)

Sector/subsector	f	g	h	i	j
	Accumulated impairment, accumulated negative changes in fair value due to credit risk and provisions (Mln EUR)			GHG financed emissions (scope 1, scope 2 and scope 3 emissions of the counterparty) (in tons of CO <sub>2</sub> equivalent)	
		Of which Stage 2 exposures	Of which non-performing exposures		Of which Scope 3 financed emissions
<b>1 Exposures towards sectors that highly contribute to climate change</b>	<b>(613)</b>	<b>(119)</b>	<b>(470)</b>	<b>7,632,259</b>	<b>6,391,096</b>
2 A - Agriculture, forestry and fishing	(7)	(2)	(5)	15,650	-
3 B - Mining and quarrying	(4)	(4)	(1)	35,061	18,197
4 B.05 - Mining of coal and lignite	-	-	-	-	-
5 B.06 - Extraction of crude petroleum and natural gas	-	-	-	13	11
6 B.07 - Mining of metal ores	-	-	-	-	-
7 B.08 - Other mining and quarrying	(3)	(2)	(1)	24,171	10,416
8 B.09 - Mining support service activities	(1)	(1)	-	10,876	7,770
9 C - Manufacturing	(135)	(39)	(89)	6,797,354	6,016,866
10 C.10 - Manufacture of food products	(24)	(9)	(13)	2,033,572	1,953,696
11 C.11 - Manufacture of beverages	(1)	(1)	-	11,318	8,439
12 C.12 - Manufacture of tobacco products	-	-	-	-	-
13 C.13 - Manufacture of textiles	(4)	(1)	(3)	120,830	101,481
14 C.14 - Manufacture of wearing apparel	(4)	-	(3)	7,098	4,353
15 C.15 - Manufacture of leather and related products	(1)	-	(1)	3,865	3,681
16 C.16 - Manufacture of wood and of products of wood and cork, except furniture; manufacture of articles of straw and plaiting materials	(2)	-	(1)	35,561	22,349
17 C.17 - Manufacture of pulp, paper and paperboard	-	-	-	102,123	64,646
18 C.18 - Printing and service activities related to printing	(15)	-	(15)	14,087	9,431
19 C.19 - Manufacture of coke oven products	(1)	(1)	(1)	707,001	585,255
20 C.20 - Production of chemicals	(4)	(3)	(1)	344,618	261,886
21 C.21 - Manufacture of pharmaceutical preparations	(1)	-	(1)	10,719	7,745
22 C.22 - Manufacture of rubber products	(5)	(3)	(2)	159,523	133,254
23 C.23 - Manufacture of other non-metallic mineral products	(8)	(4)	(4)	207,260	132,890
24 C.24 - Manufacture of basic metals	(6)	(2)	(1)	1,449,682	1,274,137
25 C.25 - Manufacture of fabricated metal products, except machinery and equipment	(13)	(3)	(9)	384,042	313,294
26 C.26 - Manufacture of computer, electronic and optical products	(17)	(1)	(16)	35,228	31,837
27 C.27 - Manufacture of electrical equipment	(10)	(1)	(9)	186,023	179,844
28 C.28 - Manufacture of machinery and equipment n.e.c.	(12)	(6)	(5)	418,849	397,562
29 C.29 - Manufacture of motor vehicles, trailers and semi-trailers	(1)	(1)	-	116,923	93,816



**Table 103** - Template 1: Banking book - Indicators of potential transition risk related to climate change: Credit quality of exposures by sector, issuance and residual maturity (2 of 3)

Sector/subsector	f	g	h	i	j
	Accumulated impairment, accumulated negative changes in fair value due to credit risk and provisions (MIn EUR)			GHG financed emissions (scope 1, scope 2 and scope 3 emissions of the counterparty) (in tons of CO <sub>2</sub> equivalent)	
		Of which Stage 2 exposures	Of which non-performing exposures		Of which Scope 3 financed emissions
30 C.30 - Manufacture of other transport equipment	(1)	-	(1)	356,849	353,436
31 C.31 - Manufacture of furniture	(3)	-	(2)	40,513	37,828
32 C.32 - Other manufacturing	(1)	-	-	26,946	24,237
33 C.33 - Repair and installation of machinery and equipment	(1)	-	(1)	24,722	21,768
34 D - Electricity, gas, steam and air conditioning supply	(8)	(2)	(6)	125,415	-
35 D35.1 - Electric power generation, transmission and distribution	(7)	(2)	(4)	87,830	-
36 D35.11 - Production of electricity	(5)	(2)	(3)	69,136	-
37 D35.2 - Manufacture of gas; distribution of gaseous fuels through mains	(1)	-	(1)	24,823	-
38 D35.3 - Steam and air conditioning supply	(1)	-	(1)	12,761	-
39 E - Water supply; sewerage, waste management and remediation activities	(2)	(1)	(1)	30,272	-
40 F - Construction	(146)	(10)	(134)	374,435	319,176
41 F.41 - Construction of buildings	(123)	(9)	(113)	234,118	217,613
42 F.42 - Civil engineering	(8)	(1)	(7)	80,382	59,949
43 F.43 - Specialised construction activities	(15)	(1)	(14)	59,935	41,614
44 G - Wholesale and retail trade; repair of motor vehicles and motorcycles	(87)	(12)	(68)	176,533	-
45 H - Transportation and storage	(17)	(2)	(16)	63,873	36,857
46 H.49 - Land transport and transport via pipelines	(15)	(1)	(14)	36,306	25,516
47 H.50 - Water transport	-	-	-	3,807	454
48 H.51 - Air transport	-	-	-	6,176	209
49 H.52 - Warehousing and support activities for transportation	(3)	(1)	(2)	17,498	10,627
50 H.53 - Postal and courier activities	-	-	-	86	52
51 I - Accommodation and food service activities	(57)	(20)	(36)	8,066	-
52 L - Real estate activities	(149)	(28)	(117)	5,601	-
<b>53 Exposures towards sectors other than those that highly contribute to climate change</b>	<b>(125)</b>	<b>(24)</b>	<b>(97)</b>		
54 K - Financial and insurance activities	(20)	(4)	(16)		
55 Exposures to other sectors (NACE codes J, M - U)	(105)	(20)	(81)		
<b>56 TOTAL</b>	<b>(738)</b>	<b>(143)</b>	<b>(567)</b>	<b>7,632,259</b>	<b>6,391,096</b>

Source: FINREP reporting base: Templates F 18.00 - F 4.02 - F 4.03 - F 6.01; Internal ESG Database





**Table 104** - Template 1: Banking book - Indicators of potential transition risk related to climate change: Credit quality of exposures by sector, issuance and residual maturity (3 of 3)

Sector/subsector	k	l	m	n	o	p
	GHG emissions (column i): gross carrying amount percentage of the portfolio derived from company-specific reporting	<= 5 years	> 5 year <= 10 years	> 10 year <= 20 years	> 20 years	Average weighted maturity
<b>1 Exposures towards sectors that highly contribute to climate change</b>						
2 A - Agriculture, forestry and fishing	0.0%	148	86	75	27	8,30
3 B - Mining and quarrying	18.3%	59	31	-	21	3,97
4 B.05 - Mining of coal and lignite	0.0%	-	-	-	-	-
5 B.06 - Extraction of crude petroleum and natural gas	0.0%	17	-	-	14	0,04
6 B.07 - Mining of metal ores	0.0%	-	-	-	-	-
7 B.08 - Other mining and quarrying	0.0%	22	31	-	6	3,95
8 B.09 - Mining support service activities	100.0%	20	-	-	-	4,00
9 C - Manufacturing	14.8%	3,362	1,000	190	648	3,75
10 C.10 - Manufacture of food products	9.2%	535	190	41	108	4,01
11 C.11 - Manufacture of beverages	0.0%	68	29	8	12	5,68
12 C.12 - Manufacture of tobacco products	0.0%	-	-	-	-	-
13 C.13 - Manufacture of textiles	4.8%	96	43	1	27	3,38
14 C.14 - Manufacture of wearing apparel	0.1%	35	6	2	11	3,51
15 C.15 - Manufacture of leather and related products	0.0%	15	-	-	3	2,40
16 C.16 - Manufacture of wood and of products of wood and cork, except furniture; manufacture of articles of straw and plaiting materials	0.0%	39	13	9	20	4,40
17 C.17 - Manufacture of pulp, paper and paperboard	5.1%	64	16	4	15	4,18
18 C.18 - Printing and service activities related to printing	0.0%	45	8	3	12	3,24
19 C.19 - Manufacture of coke oven products	80.4%	108	1	-	3	1,88
20 C.20 - Production of chemicals	37.7%	145	93	4	26	4,88
21 C.21 - Manufacture of pharmaceutical preparations	33.6%	124	5	-	17	2,66
22 C.22 - Manufacture of rubber products	0.0%	160	26	11	29	3,81
23 C.23 - Manufacture of other non-metallic mineral products	13.4%	102	29	1	23	3,53
24 C.24 - Manufacture of basic metals	2.9%	321	42	5	59	2,76
25 C.25 - Manufacture of fabricated metal products, except machinery and equipment	3.5%	530	208	27	136	3,59
26 C.26 - Manufacture of computer, electronic and optical products	0.0%	74	16	10	16	3,96
27 C.27 - Manufacture of electrical equipment	0.0%	79	17	4	32	3,25



**Table 104** - Template 1: Banking book - Indicators of potential transition risk related to climate change: Credit quality of exposures by sector, issuance and residual maturity (3 of 3)

Sector/subsector	k	l	m	n	o	p
	GHG emissions (column i): gross carrying amount percentage of the portfolio derived from company-specific reporting	<= 5 years	> 5 year <= 10 years	> 10 year <= 20 years	> 20 years	Average weighted maturity
28 C.28 - Manufacture of machinery and equipment n.e.c.	6.8%	357	58	37	45	3,87
29 C.29 - Manufacture of motor vehicles, trailers and semi-trailers	59.7%	221	164	-	13	4,27
30 C.30 - Manufacture of other transport equipment	65.0%	134	1	10	6	3,09
31 C.31 - Manufacture of furniture	0.0%	44	14	7	13	4,80
32 C.32 - Other manufacturing	0.0%	31	14	6	11	4,21
33 C.33 - Repair and installation of machinery and equipment	0.0%	34	8	-	7	3,58
34 D - Electricity, gas, steam and air conditioning supply	58.9%	530	153	65	108	7,01
35 D35.1 - Electric power generation, transmission and distribution	36.8%	161	137	56	99	6,12
36 D35.11 - Production of electricity	19.0%	66	124	56	13	6,99
37 D35.2 - Manufacture of gas; distribution of gaseous fuels through mains	90.8%	362	1	-	8	4,03
38 D35.3 - Steam and air conditioning supply	0.0%	7	15	9	2	7,60
39 E - Water supply; sewerage, waste management and remediation activities	6.3%	105	59	45	39	6,35
40 F - Construction	6.6%	863	193	162	518	3,81
41 F.41 - Construction of buildings	1.0%	462	140	135	399	3,95
42 F.42 - Civil engineering	36.6%	223	8	8	26	2,84
43 F.43 - Specialised construction activities	0.0%	178	46	19	93	3,75
44 G - Wholesale and retail trade; repair of motor vehicles and motorcycles	5.5%	2,254	440	248	663	4,13
45 H - Transportation and storage	7.6%	211	118	79	65	5,91
46 H.49 - Land transport and transport via pipelines	1.0%	124	49	63	44	6,33
47 H.50 - Water transport	0.0%	22	1	-	7	1,11
48 H.51 - Air transport	0.0%	4	2	3	1	5,74
49 H.52 - Warehousing and support activities for transportation	12.1%	45	66	13	12	5,76
50 H.53 - Postal and courier activities	97.9%	16	-	-	-	2,80
51 I - Accommodation and food service activities	0.0%	276	219	380	95	8,66
52 L - Real estate activities	0.0%	577	561	633	765	7,44
<b>53 Exposures towards sectors other than those that highly contribute to climate change</b>		<b>1,630</b>	<b>486</b>	<b>206</b>	<b>1,104</b>	<b>4,60</b>
54 K - Financial and insurance activities		210	65	32	112	4,11
55 Exposures to other sectors (NACE codes J, M - U)		1,420	421	174	991	4,62
<b>56 TOTAL</b>	<b>9.0%</b>	<b>10,016</b>	<b>3,346</b>	<b>2,083</b>	<b>4,052</b>	<b>5,14</b>

Source: FINREP reporting base: Templates F 18.00 - F 4.02 - F 4.03 - F 6.01; Internal ESG Database





The tables above show the exposures to non-financial corporations outstanding as at 31 December 2023, with a focus on the economic sectors most susceptible to climate transition risks. In particular, evidence is given at the level of the sectoral NACE code of the counterparties:

- of the credit quality of these exposures, including the impaired exposure status, any accounting classification to Stage 2 and related provisioning values on loans, and the maturity categories to which the exposures belong;
- of greenhouse gas (GHG) quantities financed by the Group, determined in line with the Partnership for Carbon Accounting Financials (PCAF) standard, divided into Scope 1 and 2 and Scope 3. The information used to calculate financed emissions is derived from:
  - Info-provider databases containing information and statistical data on GHG emissions by individual counterparty and NACE sector;
  - Reported data database containing values of GHG emissions reported in Non-Financial Reports or Sustainability Reports published by groups and companies;
  - Bank's Financial Statements Database, containing information on customers' reclassified individual or consolidated financial statements;
  - FINREP standardised reporting as at the reporting date, from which information is collected on the degree of indebtedness of customers to the Group.

The calculation of financed emissions takes into account the absolute amounts of GHG emissions related to the corporate loans and bonds portfolio (sum of Scope 1, 2 and 3 emissions of the financed entities) weighted by an allocation factor of the client's GHG emissions. This allocation factor is calculated on the basis of the ratio between the amount financed by the Group (numerator) and the economic value of the financed company (denominator).

The denominator for corporate loans and investments in private companies or for bonds of private companies is understood as the sum of total equity and debt of the company, as shown in the most recent available company balance sheet:

$$Attribution\ factor = \sum_c \frac{Outstanding\ amount_c}{Total\ equity+Debt}$$

For loans to listed companies, however, the denominator of the ratio is EVIC (Enterprise Value Including Cash):

$$Attribution\ factor = \sum_c \frac{Outstanding\ amount_c}{Enterprise\ Value\ Including\ Cash_c\ (EVIC)}$$

Finally, once the value of the allocation factor has been obtained for each counterparty, the total amount of financed issues of the portfolio considered is calculated according to the following formula:

$$Financed\ Emissions = \sum_c Attribution\ factor_c \times Company\ emissions_c$$

This metric represents the share of greenhouse gas emissions related to a financed counterparty attributable to the lending credit institution.



On the occasion of the publication of data for the 2023 financial year, the Bank refined its process for determining the Group's Scope 3 financed issues, making important changes to the calculation of the allocation ratio. In detail:

- information from consolidated company financial statements was integrated in the presence of Scope 1, 2, and 3 GHG emissions reported by counterparties at the corporate group level;
- types of corporate debt other than those of a financial nature were added to the calculation of the denominator of the ratio (Total Equity + Debt);
- data on counterparty Scope 1, 2 and 3 GHG emissions volumes obtained as part of the internal ESG Due Diligence process were incorporated;
- the procedure for the breakdown of Scope 1, 2 and 3 GHG emissions reported by customers at the consolidated level and subsequent redistribution to individual investee entities was improved, with a special focus on counterparties that are "holdings of business groups".

In addition to the totals per NACE sector, in the tables above subtotals are included for those sub-sectors with a strong influence on climate change. In particular, totals are shown for the business sectors listed in Sections A to H and Section L of Annex I of Regulation (EC) No. 1893/2006, including oil, gas, mining and transport, defined as "sectors that highly contribute to climate change" in recital 6 of Commission Delegated Regulation (EU) 2020/1818, as well as a subtotal of exposures to "other sectors".

The templates are also supplemented with information on companies excluded from the EU benchmark indices aligned with the Paris Climate Agreement, as specified in Article 12(1)(d) to (g) and Article 12(2) of Delegated Regulation (EU) 2020/1818, aggregated at sector level. The counterparties in question are represented by:

- companies that derive 1% or more of their revenues from the exploration, extraction, distribution or refining of hard coal and lignite;
- companies that derive 10% or more of their revenues from the exploration, extraction, distribution or refining of oil fuels;
- companies that derive 50% or more of their revenues from the exploration, extraction, production or distribution of gaseous fuels;
- companies that derive 50% or more of their revenues from electricity generation with a GHG intensity of more than 100 g CO<sub>2</sub> e/kWh.

These companies were identified through the use of information on the nature of the company's revenues obtained from external providers, where available, or through the internal reconciliation of the counterparty's main economic activity to the regulatory perimeter.

As recalled by Article 12.2 of Delegated Regulation (EU) 2020/1818, defined as "excluded from the EU benchmarks aligned with the Paris Climate Agreement" were also companies that are deemed to significantly undermine one or more of the environmental objectives set forth in Article 9 of Regulation (EU) 2020/852 of the European Parliament and of the Council ("Taxonomy Regulation").





**Table 105** - Template 2: Banking book - Indicators of potential climate change-related transition risk: Loans secured by real estate - Energy efficiency of collateral

Counterparty sector		a	b	c	d	e	f	g
		Valore contabile lordo totale						
		Level of energy efficiency (EP score in kWh/m <sup>2</sup> of collateral)						
		0; ≤ 100	> 100; ≤ 200	> 200; ≤ 300	> 300; ≤ 400	> 400; ≤ 500	> 500	
<b>1</b>	<b>Total EU area</b>	<b>8,055</b>	<b>677</b>	<b>1,658</b>	<b>1,816</b>	<b>1,066</b>	<b>1,215</b>	<b>464</b>
2	Of which Loans collateralised by commercial immovable property	4,022	243	560	844	654	803	233
3	Of which Loans collateralised by residential immovable property	4,023	434	1,098	972	412	413	231
4	Of which Collateral obtained by taking possession: residential and commercial immovable properties	10	-	-	-	-	-	-
5	Of which Level of energy efficiency (EP score in kWh/m <sup>2</sup> of collateral) estimated	4,827	190	892	1,427	712	1,189	417
<b>6</b>	<b>Total non-EU area</b>	<b>4,277</b>	<b>11</b>	<b>15</b>	<b>17</b>	<b>9</b>	<b>13</b>	<b>6</b>
7	Of which Loans collateralised by commercial immovable property	152	-	-	-	-	-	-
8	Of which Loans collateralised by residential immovable property	4,125	11	15	17	9	13	6
9	Of which Collateral obtained by taking possession: residential and commercial immovable properties	-	-	-	-	-	-	-
10	Of which Level of energy efficiency (EP score in kWh/m <sup>2</sup> of collateral) estimated	56	8	13	13	5	12	5

Source: FINREP reporting base: Templates F 18.00 - F 13.03.1; Internal ESG Database





h	i	j	k	l	m	n	o	p
Total gross carrying amount amount (in MEUR)								
Level of energy efficiency (EPC label of collateral)							Without EPC label of collateral	
A	B	C	D	E	F	G	Of which level of energy efficiency (EP score in kWh/m <sup>2</sup> of collateral) estimated	
392	160	184	292	281	295	467	5,985	81%
194	75	110	164	109	98	129	3,145	78%
199	85	74	128	172	196	338	2,830	84%
-	-	-	-	-	-	-	10	0%
							4,827	100%
2	1	1	1	1	3	6	4,262	1%
-	-	-	-	-	-	-	152	0%
2	1	1	1	1	3	6	4,110	1%
-	-	-	-	-	-	-	-	0%
							56	100%





The table above shows the gross book value of exposures secured by real estate (residential and commercial) and real estate collateral recovered as at 31 December 2023, supplemented by information on the energy efficiency level of the collateral measured in terms of energy consumption in kWh/m<sup>2</sup>, the energy efficiency class attributed by the energy performance certificate (APE or EPC) of the real estate collateralised property as defined in Article 2(12) of Directive 2010/31/EU for Member States, or as defined in any relevant local regulations for exposures located outside the European Union, where equivalent to the Union energy performance class.

The representation of exposure values is divided on the basis of the location of the pledged property or the real estate obtained by acquiring possession of it ("EU area" or "non-EU area"), indicating the extent to which energy efficiency category data are estimated and not based on EPC classes. Specifically, when the energy efficiency category is an estimate data, evidence of this is provided in the dedicated row of the model; in all other cases, the energy performance information has been obtained, by means of an external info-provider, directly from the regional registers that have a queryable telematic structure, giving evidence of this in the dedicated rows of the table.

**Table 106** - Template 4: Banking book - Indicators of potential climate change-related transition risk: Exposures to the top 20 carbon-intensive companies

	a	b	c	d	e
	Gross carrying amount (aggregate)	Gross carrying amount towards the counterparties compared to total gross carrying amount (aggregate)*	Of which environmentally sustainable (CCM)	Weighted average maturity	Number of top 20 polluting firms included
1	-	-	-	-	-

\* For counterparties among the world's top 20 carbon emitters



The lists used to identify any exposures to these companies are as follows:

- *Carbon Majors Database* - Carbon-Majors-Report (<https://www.cdp.net/en>);
- *Climate Accountability Institute* (<https://climateaccountability.org/>).

The decision to use a dual data source allows for greater granularity and reliability of the analysis. These above-mentioned lists, containing the GHG emissions data of the counterparties for the years 2017 and 2020, respectively, are combined into one final long list (available in the annexes section of this document). Following this process, the counterparties are appropriately analysed to verify the presence of these more polluting companies, or of the relevant equity investments, within the Group's banking book.

As shown in the table above, as at 31 December 2023 the Banking Group also had no material exposures to the world's top 20 carbon-intensive companies.





**Table 107** - Template 5: Banking book - Indicators of potential physical risk related to climate change: Exposures subject to physical risk - All countries

a		b	c	d	e	f	g
All countries		Gross carrying amount (Mln EUR)					
		of which exposures sensitive to impact from climate change physical events					
		Breakdown by maturity bucket					
		<= 5 years	> 5 year <= 10 years	> 10 year <= 20 years	> 20 years	Average weighted maturity	
1	A - Agriculture, forestry and fishing	337	106	64	53	11	6,38
2	B - Mining and quarrying	111	14	30	-	2	4,62
3	C - Manufacturing	5,200	1,180	339	87	282	2,85
4	D - Electricity, gas, steam and air conditioning supply	857	88	67	42	82	4,09
5	E - Water supply; sewerage, waste management and remediation activities	248	25	13	17	5	7,17
6	F - Construction	1,736	194	75	50	100	4,05
7	G - Wholesale and retail trade; repair of motor vehicles and motorcycles	3,604	932	265	130	355	3,21
8	H - Transportation and storage	473	87	44	58	26	6,34
9	L - Real estate activities	2,535	283	263	386	115	7,68
10	Loans collateralised by residential immovable property	8,148	86	223	755	299	17,53
11	Loans collateralised by commercial immovable property	4,174	185	241	552	68	9,63
12	Repossessed colaterals	10	-	-	-	-	-
13	Other relevant sectors (breakdown below where relevant)	4,395	891	322	352	215	5,70

Source: FINREP reporting base: Templates F 18.00 - F 4.02 - F 4.03 - F 6.01 - F 13.03.1; Internal ESG Database



h	i	j	k	l	m	n	o
Gross carrying amount (MIn EUR)							
of which exposures sensitive to impact from climate change physical events							
of which exposures sensitive to impact from chronic climate change events	of which exposures sensitive to impact from acute climate change events	of which exposures sensitive to impact both from chronic and acute climate change events	Of which Stage 2 exposures	Of which non-performing exposures	Accumulated impairment, accumulated negative changes in fair value due to credit risk and provisions		
					of which Stage 2 exposures	Of which non-performing exposures	
49	115	70	43	13	(4)	(1)	(3)
-	1	46	42	1	(3)	(2)	-
154	1,301	434	511	54	(54)	(21)	(30)
49	127	102	33	-	(2)	(1)	-
6	44	10	8	-	-	-	-
46	196	177	62	48	(34)	(3)	(30)
38	1,347	298	268	39	(32)	(9)	(21)
1	76	139	35	19	(10)	-	(9)
160	627	260	293	91	(58)	(19)	(38)
22	335	1,007	120	38	(30)	(9)	(18)
39	314	694	237	120	(89)	(22)	(66)
-	-	-	-	-	-	-	-
390	727	663	315	110	(96)	(24)	(70)





**Table 108-** Template 5: Banking book - Indicators of potential physical risk related to climate change: Exposures subject to physical risk - Italy

a	b	c	d	e	f	g						
							Gross carrying amount (Mln EUR)					
							of which exposures sensitive to impact from climate change physical events					
							Breakdown by maturity bucket					
	<= 5 years	> 5 year <= 10 years	> 10 year <= 20 years	> 20 years	Average weighted maturity							
Italia												
1	A - Agricoltura, silvicoltura e pesca	336	106	64	53	11	6,38					
2	B - Estrazione di minerali da cave e miniere	75	14	30	-	2	4,62					
3	C - Attività manifatturiere	5,057	1,180	339	87	282	2,85					
4	D - Fornitura di energia elettrica, gas, vapore e aria condizionata	857	88	67	42	82	4,09					
5	E - Fornitura di acqua; reti fognarie, attività di gestione dei rifiuti e risanamento	248	25	13	17	5	7,17					
6	F - Costruzioni	1,509	194	75	50	100	4,05					
7	G - Commercio all'ingrosso e al dettaglio; riparazione di autoveicoli e motocicli	2,919	932	265	130	355	3,21					
8	H - Trasporto e magazzinaggio	451	87	44	58	26	6,34					
9	L - Attività immobiliari	2,020	283	263	386	115	7,68					
10	Prestiti garantiti da immobili residenziali	3,995	84	213	712	298	15,03					
11	Prestiti garantiti da immobili commerciali	3,917	185	232	552	68	9,67					
12	Garanzie recuperate	10	-	-	-	-	-					
13	Altri settori rilevanti (suddivisione di seguito ove rilevante)	3,763	891	322	352	215	5,70					

Source: FINREP reporting base: Templates F 18.00 - F 4.02 - F 4.03 - F 6.01 - F 13.03.1; Internal ESG Database



h	i	j	k	l	m	n	o
Gross carrying amount (MIn EUR)							
of which exposures sensitive to impact from climate change physical events							
of which exposures sensitive to impact from chronic climate change events	of which exposures sensitive to impact from acute climate change events	of which exposures sensitive to impact both from chronic and acute climate change events	Of which Stage 2 exposures	Of which non-performing exposures	ccumulated impairment, accumulated negative changes in fair value due to credit risk and provisions		
					of which Stage 2 exposures	Of which non-performing exposures	
49	115	70	43	13	(4)	(1)	(3)
-	1	46	42	1	(3)	(2)	-
154	1,301	434	511	54	(54)	(21)	(30)
49	127	102	33	-	(2)	(1)	-
6	44	10	8	-	-	-	-
46	196	177	62	48	(34)	(3)	(30)
38	1,347	298	268	39	(32)	(9)	(21)
1	76	139	35	19	(10)	-	(9)
160	627	260	293	91	(58)	(19)	(38)
17	325	964	113	35	(28)	(9)	(17)
39	305	693	237	120	(89)	(22)	(66)
-	-	-	-	-	-	-	-
390	727	663	315	110	(96)	(24)	(70)





**Table 109** - Template 5: Banking book - Indicators of potential physical risk related to climate change: Exposures subject to physical risk - Rest of world

a		b	c	d	e	f	g
<b>Rest of the world</b>		<b>Gross carrying amount (Mln EUR)</b>					
		<b>of which exposures sensitive to impact from climate change physical events</b>					
		<b>breakdown by maturity bucket</b>					
		<b>&lt;= 5 years</b>	<b>&gt; 5 year &lt;= 10 years</b>	<b>&gt; 10 year &lt;= 20 years</b>	<b>&gt; 20 years</b>	<b>Average weighted maturity</b>	
1	A - Agriculture, forestry and fishing	1	-	-	-	-	-
2	B - Mining and quarrying	36	-	-	-	-	-
3	C - Manufacturing	143	-	-	-	-	-
4	D - Electricity, gas, steam and air conditioning supply	-	-	-	-	-	-
5	E - Water supply; sewerage, waste management and remediation activities	-	-	-	-	-	-
6	F - Construction	227	-	-	-	-	-
7	G - Wholesale and retail trade; repair of motor vehicles and motorcycles	686	-	-	-	-	-
8	H - Transportation and storage	22	-	-	-	-	-
9	L - Real estate activities	515	-	-	-	-	-
10	Loans collateralised by residential immovable property	4,153	2	11	43	2	14,32
11	Loans collateralised by commercial immovable property	258	-	9	-	-	5,72
12	Repossessed collaterals	-	-	-	-	-	-
13	Other relevant sectors (breakdown below where relevant)	632	-	-	-	-	-

Source: FINREP reporting base: Templates F 18.00 - F 4.02 - F 4.03 - F 6.01 - F 13.03.1); Internal Database ESG





h	i	j	k	l	m	n	o
Gross carrying amount (Mln EUR)							
of which exposures sensitive to impact from climate change physical events							
of which exposures sensitive to impact from chronic climate change events	of which exposures sensitive to impact from acute climate change events	of which exposures sensitive to impact both from chronic and acute climate change events	Of which Stage 2 exposures	Of which non-performing exposures	Accumulated impairment, accumulated negative changes in fair value due to credit risk and provisions		
					of which Stage 2 exposures	Of which non-performing exposures	
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
5	10	43	7	3	(2)	(1)	(1)
-	9	1	1	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-





The table above provides information on the banking book's exposures to non-financial corporations - loans and advances, fixed-yield securities and equity instruments not held for trading and for sale -, loans secured by real estate and real estate collateral recovered, subject to acute and chronic climate-related hazards as at 31 December 2023.

A cross-section is provided both by sector of economic activity (NACE classification) and by geographical location of counterparty activity or collateral, with reference to sectors and geographical areas subject to acute and chronic climate change-related events. The credit quality of the exposures and the related accounting provisions are also disclosed.

For the identification of exposures subject to acute and/or chronic physical hazards, the Bank makes use of dedicated indicators estimated by a qualified external service provider, who assigns the Italian and foreign companies and individual real estate assets physical risk assessments conducted through special calculation engines that take into account the geographical location of headquarters and production sites for companies and buildings for collateral properties. The RCP 4.5 climate change scenario is used in the calculation logic: this scenario predicts that atmospheric greenhouse gas emissions will peak in the year 2040 with a subsequent downward trend, generating global average temperature increases by 2100 of between 2 and 3 degrees Celsius, depending on the estimation model applied to each physical risk analysed.

The types of acute and chronic physical hazards shown in the table below were examined, with high spatial resolution of analysis for the whole of Italy and the EU-27 territory.

Chronic Physical Risk	Acute Physical Risk
Changing temperatures	<b>Heat waves (*)</b>
Heat stress	Waves of freezing cold
Changing wind patterns	Fire
Changing patterns and types of precipitation	<b>Windstorm (*)</b>
Thawing of permafrost	Drought (*)
Sea level rise	Heavy rainfall
Water stress	<b>Floods (*)</b>
Soil and coastal erosion	<b>Landslides and subsidence (*)</b>
Soil degradation	

(\*the physical risks to which the Group's portfolio is most exposed are highlighted)

With reference to the new Templates 6, 7 and 8, in line with the provisions of Delegated Regulation (EU) 2021/2178 and Delegated Regulation (EU) 2023/2486, the Group reports its share of credit and investment assets aligned to the Taxonomy expressed by the Green Asset Ratio (GAR) using the uniform publication templates established by the technical standards implementing the disclosure requirements introduced by Implementing Regulation (EU) 2022/2453 of 30 November 2022. The Regulation states that such Pillar III reporting should only include quantitative information on mitigation actions associated with financed economic activities, in alignment with the climate change mitigation (CC Mitigation) and adaptation (CC Adaptation) objectives set out in the Taxonomy.



Similar taxonomic alignment reporting pursuant to Delegated Regulation (EU) 2021/2178 is provided within the Consolidated Non-Financial Report (NFR) as at 31 December 2023. In that sustainability disclosure document, GAR is estimated and disclosed in two versions: the first by calculating the measure of alignment to the Taxonomy of Group assets based on the Turnover value of the financed counterparties (non-financial corporations) with respect to exposures whose purpose is not to finance specified assets (“general” financing); the second by calculating the measure of alignment to the Taxonomy based on the capital expenditure (Capex) of the financed counterparties with respect to general financing. In Templates 6, 7 and 8 included in this Pillar 3 Disclosure, the GAR disclosed is calculated solely on the basis of the alignment to the Taxonomy measured against the Turnover share of the counterparty company.

GAR is an indicator designed to concisely represent the percentage of a financial institution’s activities that are considered environmentally sustainable according to the European Taxonomy. The denominator of the indicator refers to the total balance sheet assets of a financial institution, excluding exposures to governments, institutions, central banks and supranational issuers and assets held for trading purposes (trading book).

The GAR calculation process classifies the Group’s assets into four main sections:

1. Assets included in the numerator for GAR calculation;
2. Assets excluded from the numerator for GAR calculation (included in the denominator);
3. Exclusions from KPI calculation;
4. Off-balance sheet assets.

A summary description of the four different sections is given below.

### **1. Assets included in the numerator for GAR calculation**

An asset is “green” when it represents an investment in assets that are considered aligned with the Taxonomy, whose analysis metrics include the classification of exposures according to counterparty category and type of financing provided, and the identification of eligible and aligned exposures, as depicted below.

#### **a. Exposures to counterparties within the scope of Directive 2014/95/EU (Non Financial Reporting Directive; hereinafter “NFRD counterparties”):**

- I. Total GAR for financing activities for financial companies for climate change mitigation and adaptation objectives;
- II. Total GAR for financing activities for non-financial companies for climate change mitigation and adaptation objectives.

These exposures can be divided into two categories, depending on the use of the proceeds for which the financing was provided:

- in the case of a generic loan, data on Taxonomy eligibility and alignment are retrieved from the NFR of the financed company (in the case of a company subject to EU Non-Financial Reporting Directive or “NFRD” obligations); from this data, the percentages to be applied to the Bank’s exposure to the specific company are derived in order to determine the eligibility and alignment share referable to the loan granted to the counterparty<sup>24</sup>;

<sup>24</sup> In the case of groups of companies, the Taxonomy eligibility and alignment percentages calculated for the parent company are also applied when the credit exposure refers to a subsidiary, subject to verification that the subsidiary is actually consolidated in the parent company’s financial statements.





- *in the case of financing for a specific purpose*, the following technical screening criteria set out in Delegated Regulation (EU) 2021/2139 must be met:

1. substantial contribution criteria;
2. Do No Significant Harm (“DNSH”);
3. Minimum safeguards.

If the activity underlying the financing fulfils the technical screening criteria, it can be considered aligned within the meaning of Regulation (EU) 2020/852. To avoid double-counting, if an exposure from specialised financing can be considered aligned in relation to two environmental objectives compatible with the Taxonomy, it should be assigned to the most relevant objective.

For the purposes of this report, the existence of outstanding special purpose loans to non-financial corporations subject to NFRD obligations was not recognised, so the analysis preparatory to the quantification of the GAR focused on general loans only, with data on the degree of Taxonomy eligibility and alignment of the activities drawn from the 2022 NFRs of the counterparty companies to which the Bank has exposures.

For financial companies, the lack of information on alignment to the Taxonomy bears underscoring, as these entities, in financial year 2022, were not required to make the alignment disclosure, but only the eligibility disclosure.

For this first macro-category of financed entities, the calculation carried out on the basis of the Turnover figure drawn from the last available financial statements showed a total amount of 938 million euro of eligible exposures in the form of general loans, of which 317 million euro Taxonomy-aligned.

#### **b. Exposures to households:**

- I. GAR for residential real estate exposures, including loans for home renovation, for climate change mitigation, adaptation and climate change adaptation purposes;
- II. GAR for retail loans for the purchase of cars for climate change mitigation purposes.

This analyses how many of the loans to households secured by real estate are EU Taxonomy-eligible and/or aligned. Exposures to households are broken down, in accordance with Regulation (EU) 2021/2139, into:

1. Loans secured by residential property;
2. Building renovation loans;
3. Motor vehicle loans.

It should be noted that minimum safeguards are not taken into account for the reporting period in question, as the methods of their application have yet to be established by the Regulator.

In calculating the alignment proportions, the Bank allocated part of its exposures to households to the following assets described by the EU Taxonomy:

- 6.5 – Transport by motorbikes, cars and light commercial vehicles;
- 7.1 – Construction of new buildings;
- 7.2 – Renovation of existing buildings;



- 7.6 – Installation, maintenance and repair of renewable energy technologies; in this specific case, financing for the purchase of photovoltaic panels falls into this category;
- 7.7 – Purchase and ownership of buildings; new buildings are excluded; for them, the requirements of activity 7.1 must be met.

Based on the information currently available, for the year 2023 the Bank was able to verify alignment to the Taxonomy only for credit exposures attributed to activity 7.7. Eligible exposures totalling 7,667 million euro were recognised, of which 147 million euro was aligned with the Taxonomy criteria.

#### c. Exposures to local governments:

- I. GAR for revenues used to finance local governments.

This financing, intended to support environmental projects promoted by local governments, is divided into:

1. Public housing finance, which includes in particular loans granted by credit institutions to local governments for the purpose of financing the purchase of a family's place of residence;
2. Other local government financing, which includes loans granted to local governments for the purpose of financing any activity other than the purchase of a family's place of residence.

The Group's exposure to this general category of entities totals 97 million euro, of which 4 million euro qualifies as Taxonomy-eligible loans. There is no activity that qualifies for the alignment calculation.

#### d. Guarantees obtained by taking possession: residential and non-residential properties:

- I. GAR for residential and commercial real estate collateral recovered and held for sale for climate change targets.

The coefficient referring to this macro-category represents the ratio of: (i) commercial and residential real estate collateral in respect of which the Bank exercises a right over the mortgaged property, thereby becoming the owner of the property by entry into possession (recovered collateral), and which at the same time meets the technical screening criteria set out in the EU Taxonomy (set out in Annex I, paragraph 7.7 of EU Delegated Regulation 2021/2139); to (ii) the total commercial and residential real estate collateral recovered.

The alignment of this type of collateral to the Taxonomy is verified according to the same process used for "Loans secured by residential property", as compliance with the criteria in Activity 7.7 "Purchase and ownership of buildings" is required.

For this report, the Bank noted an absence of gross exposures represented by this type of guarantee.





## 2. Assets excluded from the numerator for GAR calculation (included in the denominator)

The following is a list of the types of assets that in the GAR calculation are excluded from the numerator while being included in the denominator.

### a. Exposures to non-NFRD counterparties.

Exposures to companies not subject to disclosure requirements within the NFRD framework are not included in the numerator of the GAR and are broken down, in accordance with Delegated Regulation (EU) 2021/2178 and Delegated Regulation (EU) 2023/2486, into:

1. financial companies, SMEs and other non-financial companies (other than SMEs) not subject to NFRD disclosure requirements, to which the Group had exposures totalling 22,313 million euro as at 31 December 2023;
2. Third country counterparties not subject to NFRD reporting requirements, to which the Group had exposures totalling 488 million euro as at 31 December 2023.

### b. Exposures to other asset classes.

Also excluded from the numerator of the GAR are exposures to other asset classes, which, pursuant to Delegated Regulation (EU) 2021/2178 and Delegated Regulation (EU) 2023/2486, are divided into:

1. Derivatives: exposures of 2 million euro as at 31 December 2023;
2. On-demand interbank loans: exposures of 164 million euro as at 31 December 2023;
3. Cash and cash assets: exposures of 176 million euro as at 31 December 2023;
4. Other asset categories (tangible, intangible and other assets): exposures of 847 million euro as at 31 December 2023.

The exposures mentioned, included in the denominator but not in the numerator in the GAR calculation, are not considered eligible, nor consequently aligned, to the EU Taxonomy.

## 3. Exclusions from GAR calculation

Delegated Regulation (EU) 2021/2178 states that exposures to central governments, central banks and supranational issuers, as well as exposures related to assets held for trading purposes, are to be excluded from the calculation of the numerator and denominator of the environmental key performance indicators (KPIs) under the Taxonomy rules, and thus also from the GAR.

The Group's exposure to this category was as follows as at 31 December 2023:

1. Exposures to Central Governments and Supranational Entities of 13,353 million euro;
2. Exposures to Central Banks of 4,514 million euro;
3. Exposures related to the Trading Book of 150 million euro.



#### 4. Off-balance sheet assets

A complementary analysis is performed concerning the level of association with Taxonomy-aligned economic activities of off-balance sheet exposures, which may direct, or contribute to directing, capital flows to economic activities whose environmental sustainability can be assessed as conforming to the Taxonomy. The off-balance sheet assets measured include:

1. Financial guarantees, for which the GAR corresponds to the ratio of financial guarantees securing EU Taxonomy-aligned debt instruments financing economic activities and all financial guarantees backing corporate debt instruments;
2. Managed financial assets<sup>25</sup>, for which the GAR corresponds to the ratio of managed financial assets (debt and equity instruments) financing EU Taxonomy-aligned economic activities to total managed financial assets (debt and equity instruments).

For this type of exposure, the Bank focused its analysis of eligibility for and alignment with Taxonomy requirements on data obtained from the NFRs of counterparties subject to NFRD obligations. However, while these analyses carried out as at 31 December 2023 are included in the calculation of the Group's Taxonomy-aligned assets within the Consolidated Non-Financial Report (NFR), the relevant information is not required in the uniform GAR reporting templates (6, 7 and 8) published in this Pillar 3 Disclosure.

**Table 110** - Template 6: Summary of key performance indicators (KPIs) on Taxonomy-aligned exposures

	KPI			% coverage (over total assets)
	Climate change mitigation	Climate change adaptation	Total (Climate change mitigation + Climate change adaptation)	
GAR stock	1.14%	0.00%	1.14%	69.32%
GAR flow	0.75%	0.00%	0.75%	76.97%

Source: FINREP reporting base: Templates - F 1.01 - F 1.02 - F 2.00 - F 4.01 - F 4.02 - F 4.03 - F 4.04 - F 4.05 - F 18.00 - F 6.01; Internal ESG database

The table above presents a set of GAR metrics that provide a summary overview of exposures aligned to the first two environmental objectives defined by the Taxonomy: climate change mitigation and adaptation. The percentages of aligned exposures are represented both as stock volumes measured as at 31 December 2023 and as flow volumes generated during the reporting period (baseline year 2023) within the Group's banking book.

<sup>25</sup> The market value of the portfolio of managed financial assets is shown net of cash and government bonds



**Table 111** - Template 7: Mitigation actions: assets for GAR calculation (1 of 3)

	a	b	c	d	e	f	
	Disclosure reference date: 31/12/2023						
	Climate Change Mitigation (CCM)						
	Total gross carrying amount	Of which towards taxonomy relevant sectors (Taxonomy-eligible)					
		Of which environmentally sustainable (Taxonomy-aligned)			Of which specialised lending	Of which transitional	Of which enabling
<b>GAR - Covered assets in both numerator and denominator</b>							
<b>1</b>	<b>Loans and advances, debt securities and equity instruments not HfT eligible for GAR calculation</b>	<b>16,718</b>	<b>8,610</b>	<b>465</b>	<b>147</b>	<b>16</b>	<b>120</b>
<b>2</b>	<b>Financial corporations</b>	<b>1,954</b>	<b>401</b>	-	-	-	-
3	Credit institutions	1,527	386	-	-	-	-
4	Loans and advances	329	77	-	-	-	-
5	Debt securities, including UoP	1,198	309	-	-	-	-
6	Equity instruments	-	-	-	-	-	-
7	Other financial corporations	426	15	-	-	-	-
8	of which investment firms	304	-	-	-	-	-
9	Loans and advances	-	-	-	-	-	-
10	Debt securities, including UoP	304	-	-	-	-	-
11	Equity instruments	-	-	-	-	-	-
12	of which management companies	120	14	-	-	-	-
13	Loans and advances	-	-	-	-	-	-
14	Debt securities, including UoP	42	6	-	-	-	-
15	Equity instruments	78	9	-	-	-	-
16	of which insurance undertakings	3	-	-	-	-	-
17	Loans and advances	-	-	-	-	-	-
18	Debt securities, including UoP	3	-	-	-	-	-
19	Equity instruments	-	-	-	-	-	-
<b>20</b>	<b>Non-financial corporations (subject to NFRD disclosure obligations)</b>	<b>2,225</b>	<b>538</b>	<b>317</b>	-	<b>16</b>	<b>120</b>
21	Loans and advances	1,660	334	158	-	12	62
22	Debt securities, including UoP	502	203	159	-	4	59
23	Equity instruments	63	1	1	-	-	-
<b>24</b>	<b>Households</b>	<b>12,443</b>	<b>7,667</b>	<b>147</b>	<b>147</b>	-	-
25	of which loans collateralised by residential immovable property	8,510	7,475	147	147	-	-
26	of which building renovation loans	53	53	-	-	-	-
27	of which motor vehicle loans	38	38	-	-	-	-
<b>28</b>	<b>Local governments financing</b>	<b>97</b>	<b>4</b>	-	-	-	-
29	Housing financing	1	1	-	-	-	-
30	Other local governments financing	96	3	-	-	-	-
31	Collateral obtained by taking possession: residential and commercial immovable properties	-	-	-	-	-	-
<b>32</b>	<b>TOTAL GAR ASSETS</b>	<b>16,718</b>	<b>8,610</b>	<b>465</b>	<b>147</b>	<b>16</b>	<b>120</b>



**Table 111** - Template 7: Mitigation actions: assets for GAR calculation (1 of 3)

	a	b	c	d	e	f						
							Disclosure reference date: 31/12/2023					
							Climate Change Mitigation (CCM)					
							Total gross carrying amount	Of which towards taxonomy relevant sectors (Taxonomy-eligible)				
								Of which environmentally sustainable (Taxonomy-aligned)			Of which specialised lending	Of which transitional
<b>Assets excluded from the numerator for GAR calculation (covered in the denominator)</b>												
<b>33</b>	<b>EU Non-financial corporations (not subject to NFRD disclosure obligations)</b>	<b>22,313</b>										
34	Loans and advances	20,420										
35	Debt securities	1,245										
36	Equity instruments	647										
<b>37</b>	<b>Non-EU Non-financial corporations (not subject to NFRD disclosure obligations)</b>	<b>488</b>										
38	Loans and advances	460										
39	Debt securities	28										
40	Equity instruments	-										
41	Derivatives	2										
42	On demand interbank loans	164										
43	Cash and cash-related assets	176										
44	Other assets (e.g. Goodwill, commodities etc.)	847										
<b>45</b>	<b>TOTAL ASSETS IN THE DENOMINATOR (GAR)</b>	<b>40,708</b>										
<b>Other assets excluded from both the numerator and denominator for GAR calculation</b>												
46	Sovereigns	13,353										
47	Central banks exposure	4,514										
48	Trading book	150										
<b>49</b>	<b>TOTAL ASSETS EXCLUDED FROM NUMERATOR AND DENOMINATOR</b>	<b>18.017</b>										
<b>50</b>	<b>TOTAL ASSETS</b>	<b>58.725</b>										

Source: FINREP reporting base: Templates - F 1.01 - F 1.02 - F 2.00 - F 4.01 - F 4.02 - F 4.03 - F 4.04 - F 4.05 - F 18.00 - F 6.01; Internal ESG database



**Table 112** - Template 7: Mitigation actions: assets for GAR calculation (2 of 3)

		g	h	i	j	k
		Disclosure reference date: 31/12/2023				
		Climate Change Adaptation (CCA)				
		Of which towards taxonomy relevant sectors (Taxonomy-eligible)				
		Of which environmentally sustainable (Taxonomy-aligned)				
			Of which specialised lending	Of which adaptation	Of which enabling	
<b>GAR - Covered assets in both numerator and denominator</b>						
<b>1</b>	<b>Loans and advances, debt securities and equity instruments not HFT eligible for GAR calculation</b>	-	-	-	-	-
<b>2</b>	<b>Financial corporations</b>	-	-	-	-	-
3	Credit institutions	-	-	-	-	-
4	Loans and advances	-	-	-	-	-
5	Debt securities, including UoP	-	-	-	-	-
6	Equity instruments	-	-		-	-
7	Other financial corporations	-	-	-	-	-
8	of which investment firms	-	-	-	-	-
9	Loans and advances	-	-	-	-	-
10	Debt securities, including UoP	-	-	-	-	-
11	Equity instruments	-	-		-	-
12	of which management companies	-	-	-	-	-
13	Loans and advances	-	-	-	-	-
14	Debt securities, including UoP	-	-	-	-	-
15	Equity instruments	-	-		-	-
16	of which insurance undertakings	-	-	-	-	-
17	Loans and advances	-	-	-	-	-
18	Debt securities, including UoP	-	-	-	-	-
19	Equity instruments	-	-		-	-
<b>20</b>	<b>Non-financial corporations (subject to NFRD disclosure obligations)</b>	-	-	-	-	-
21	Loans and advances	-	-	-	-	-
22	Debt securities, including UoP	-	-	-	-	-
23	Equity instruments	-	-		-	-
<b>24</b>	<b>Households</b>					
25	of which loans collateralised by residential immovable property					
26	of which building renovation loans					
27	of which motor vehicle loans					
<b>28</b>	<b>Local governments financing</b>	-	-	-	-	-
29	Housing financing	-	-	-	-	-
30	Other local governments financing	-	-	-	-	-
31	Collateral obtained by taking possession: residential and commercial immovable properties	-	-	-	-	-
<b>32</b>	<b>TOTAL GAR ASSETS</b>	-	-	-	-	-



**Table 112 - Template 7: Mitigation actions: assets for GAR calculation (2 of 3)**

		g	h	i	j	k
		<b>Disclosure reference date: 31/12/2023</b>				
		<b>Climate Change Adaptation (CCA)</b>				
		<b>Of which towards taxonomy relevant sectors (Taxonomy-eligible)</b>				
		<b>Of which environmentally sustainable (Taxonomy-aligned)</b>				
			<b>Of which specialised lending</b>	<b>Of which adaptation</b>	<b>Of which enabling</b>	
<b>Assets excluded from the numerator for GAR calculation (covered in the denominator)</b>						
<b>33</b>	<b>EU Non-financial corporations (not subject to NFRD disclosure obligations)</b>					
34	Loans and advances					
35	Debt securities					
36	Equity instruments					
<b>37</b>	<b>Non-EU Non-financial corporations (not subject to NFRD disclosure obligations)</b>					
38	Loans and advances					
39	Debt securities					
40	Equity instruments					
41	Derivatives					
42	On demand interbank loans					
43	Cash and cash-related assets					
44	Other assets (e.g. Goodwill, commodities etc.)					
<b>45</b>	<b>TOTAL ASSETS IN THE DENOMINATOR (GAR)</b>					
<b>Other assets excluded from both the numerator and denominator for GAR calculation</b>						
46	Sovereigns					
47	Central banks exposure					
48	Trading book					
<b>49</b>	<b>TOTAL ASSETS EXCLUDED FROM NUMERATOR AND DENOMINATOR</b>					
<b>50</b>	<b>TOTAL ASSETS</b>					

Source: FINREP reporting base: Templates - F 1.01 - F 1.02 - F 2.00 - F 4.01 - F 4.02 - F 4.03 - F 4.04 - F 4.05 - F 18.00 - F 6.01; Internal ESG database



**Table 113** - Template 7: Mitigation actions: assets for GAR calculation (3 of 3)

		i	m	n	o	p
		Disclosure reference date: 31/12/2023				
		TOTAL (CCM + CCA)				
		Of which towards taxonomy relevant sectors (Taxonomy-eligible)				
		Of which environmentally sustainable (Taxonomy-aligned)				
				Of which specialised lending	Of which transitional/	Of which enabling
<b>GAR - Covered assets in both numerator and denominator</b>						
<b>1</b>	<b>Loans and advances, debt securities and equity instruments not HFT eligible for GAR calculation</b>	<b>8,610</b>	<b>465</b>	<b>147</b>	<b>16</b>	<b>120</b>
<b>2</b>	<b>Financial corporations</b>	<b>401</b>	-	-	-	-
3	Credit institutions	386	-	-	-	-
4	Loans and advances	77	-	-	-	-
5	Debt securities, including UoP	309	-	-	-	-
6	Equity instruments	-	-		-	-
7	Other financial corporations	15	-	-	-	-
8	of which investment firms	-	-	-	-	-
9	Loans and advances	-	-	-	-	-
10	Debt securities, including UoP	-	-	-	-	-
11	Equity instruments	-	-		-	-
12	of which management companies	14	-	-	-	-
13	Loans and advances	-	-	-	-	-
14	Debt securities, including UoP	6	-	-	-	-
15	Equity instruments	9	-		-	-
16	of which insurance undertakings	-	-	-	-	-
17	Loans and advances	-	-	-	-	-
18	Debt securities, including UoP	-	-	-	-	-
19	Equity instruments	-	-		-	-
<b>20</b>	<b>Non-financial corporations (subject to NFRD disclosure obligations)</b>	<b>538</b>	<b>317</b>	<b>-</b>	<b>16</b>	<b>120</b>
21	Loans and advances	334	158	-	12	62
22	Debt securities, including UoP	203	159	-	4	59
23	Equity instruments	1	1		-	-
<b>24</b>	<b>Households</b>	<b>7,667</b>	<b>147</b>	<b>147</b>	<b>-</b>	<b>-</b>
25	of which loans collateralised by residential immovable property	7,475	147	147	-	-
26	of which building renovation loans	53	-	-	-	-
27	of which motor vehicle loans	38	-	-	-	-
<b>28</b>	<b>Local governments financing</b>	<b>4</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
29	Housing financing	1	-	-	-	-
30	Other local governments financing	3	-	-	-	-
31	Collateral obtained by taking possession: residential and commercial immovable properties	-	-	-	-	-
<b>32</b>	<b>TOTAL GAR ASSETS</b>	<b>8,610</b>	<b>465</b>	<b>147</b>	<b>16</b>	<b>120</b>

**Table 113** - Template 7: Mitigation actions: assets for GAR calculation (3 of 3)

		l	m	n	o	p
		Disclosure reference date: 31/12/2023				
		TOTAL (CCM + CCA)				
		Of which towards taxonomy relevant sectors (Taxonomy-eligible)				
		Of which environmentally sustainable (Taxonomy-aligned)				
			Of which specialised lending	Of which transitional/	Of which enabling	
<b>Assets excluded from the numerator for GAR calculation (covered in the denominator)</b>						
<b>33</b>	<b>EU Non-financial corporations (not subject to NFRD disclosure obligations)</b>					
34	Loans and advances					
35	Debt securities					
36	Equity instruments					
<b>37</b>	<b>Non-EU Non-financial corporations (not subject to NFRD disclosure obligations)</b>					
38	Loans and advances					
39	Debt securities					
40	Equity instruments					
41	Derivatives					
42	On demand interbank loans					
43	Cash and cash-related assets					
44	Other assets (e.g. Goodwill, commodities etc.)					
<b>45</b>	<b>TOTAL ASSETS IN THE DENOMINATOR (GAR)</b>					
<b>Other assets excluded from both the numerator and denominator for GAR calculation</b>						
46	Sovereigns					
47	Central banks exposure					
48	Trading book					
<b>49</b>	<b>TOTAL ASSETS EXCLUDED FROM NUMERATOR AND DENOMINATOR</b>					
<b>50</b>	<b>TOTAL ASSETS</b>					

Source: FINREP reporting base: Templates - F 1.01 - F 1.02 - F 2.00 - F 4.01 - F 4.02 - F 4.03 - F 4.04 - F 4.05 - F 18.00 - F 6.01; Internal ESG database

The table above provides information on the gross book value as at 31 December 2023 of loans and advances, debt securities and equity instruments in the banking book – with a breakdown of information by type of counterparty, including financial companies, non-financial companies, households, local governments – as well as real estate loans to households, together with information on eligibility for and alignment to the Taxonomy.

Such exposures may be divided into several categories, depending on the use of the proceeds of the financing activity (e.g. general or special purpose financing). The assets are further detailed as follows:

- *transition activities*, i.e. activities that cannot yet be replaced by low-carbon, technologically and economically accessible alternatives, but that contribute to climate change mitigation and can play an important role in the transition to a climate-neutral economy;
- *enabling activities*, i.e. those that directly enable other activities to make a substantial contribution to an environmental objective of the Taxonomy;
- *adaptation activities*, i.e. those activities that can substantially contribute to climate adaptation solutions, either by reducing the risks of adverse climate effects or by preventing or reducing the risk of such effects on future generations and the environment.



**Table 114** - Template 8: GAR (%) (1 of 2)

		a	b	c	d	e
		Disclosure reference date 31/12/2023: KPIs on stock				
		Proportion of eligible assets funding taxonomy relevant sectors				
		Of which environmentally sustainable				
				Of which specialised lending	Of which transitional	Of which enabling
<b>1</b>	<b>GAR</b>	<b>21.15%</b>	<b>1.14%</b>	<b>0.36%</b>	<b>0.04%</b>	<b>0.30%</b>
<b>2</b>	<b>Loans and advances, debt securities and equity instruments not HFT eligible for GAR calculation</b>	<b>21.15%</b>	<b>1.14%</b>	<b>0.36%</b>	<b>0.04%</b>	<b>0.30%</b>
<b>3</b>	<b>Financial corporations</b>	<b>0.98%</b>	-	-	-	-
4	Credit institutions	0.95%	-	-	-	-
5	Other financial corporations	0.04%	-	-	-	-
6	of which investment firms	-	-	-	-	-
7	of which management companies	0.04%	-	-	-	-
8	of which insurance undertakings	0.00%	-	-	-	-
<b>9</b>	<b>Non-financial corporations subject to NFRD disclosure obligations</b>	<b>1.32%</b>	<b>0.78%</b>	-	<b>0.04%</b>	<b>0.30%</b>
<b>10</b>	<b>Households</b>	<b>18.84%</b>	<b>0.36%</b>	<b>0.36%</b>	-	-
11	of which loans collateralised by residential immovable property	18.36%	0.36%	0.36%	-	-
12	of which building renovation loans	0.13%	-	-	-	-
13	of which motor vehicle loans	0.09%	-	-	-	-
<b>14</b>	<b>Local government financing</b>	<b>0.01%</b>	-	-	-	-
15	Housing financing	0.00%	-	-	-	-
16	Other local governments financing	0.01%	-	-	-	-
17	Collateral obtained by taking possession: residential and commercial immovable properties	-	-	-	-	-

Source: FINREP reporting base: Templates - F 1.01 - F 1.02 - F 2.00 - F 4.01 - F 4.02 - F 4.03 - F 4.04 - F 4.05 - F 18.00 - F 6.01; Internal ESG database



f	g	h	i	j	k	l	m	n	o	p
<b>Disclosure reference date 31/12/2023: KPIs on stock</b>										
<b>Proportion of eligible assets funding taxonomy relevant sectors</b>					<b>TOTAL (CCM + CCA)</b>					<b>Proportion of total assets covered</b>
<b>Of which environmentally sustainable</b>					<b>Of which environmentally sustainable</b>					
	<b>Of which specialised lending</b>	<b>Of which adaptation</b>	<b>Of which enabling</b>		<b>Of which specialised lending</b>	<b>Of which transitional/adaptation</b>	<b>Of which enabling</b>			
-	-	-	-	-	21.15%	1.14%	0.36%	0.04%	0.30%	69.32%
-	-	-	-	-	21.15%	1.14%	0.36%	0.04%	0.30%	28.47%
-	-	-	-	-	<b>0.98%</b>	-	-	-	-	<b>3.33%</b>
-	-	-	-	-	0.95%	-	-	-	-	2.60%
-	-	-	-	-	0.04%	-	-	-	-	0.73%
-	-	-	-	-	-	-	-	-	-	0.52%
-	-	-	-	-	0.04%	-	-	-	-	0.20%
-	-	-	-	-	0.00%	-	-	-	-	0.01%
-	-	-	-	-	<b>1.32%</b>	<b>0.78%</b>	-	<b>0.04%</b>	<b>0.30%</b>	<b>3.79%</b>
					<b>18.84%</b>	<b>0.36%</b>	<b>0.36%</b>	-	-	<b>21.19%</b>
					18.36%	0.36%	0.36%	-	-	14.49%
					0.13%	-	-	-	-	0.09%
					0.09%	-	-	-	-	0.06%
					<b>0.01%</b>	-	-	-	-	<b>0.16%</b>
					0.00%	-	-	-	-	0.00%
-	-	-	-	-	0.01%	-	-	-	-	0.16%
					-	-	-	-	-	-



**Table 115** - Template 8: GAR (%) (2 of 2)

		a	b	c	d	e
		Disclosure reference date 31/12/2023: KPIs on flows				
		Climate Change Mitigation (CCM)				
% (compared to total covered assets in the denominator)		Proportion of eligible assets funding taxonomy relevant sectors				
		Of which environmentally sustainable				
				Of which specialised lending	Of which transitional	Of which enabling
<b>1</b>	<b>GAR</b>	<b>14.07%</b>	<b>0.75%</b>	<b>0.16%</b>	<b>0.05%</b>	<b>0.27%</b>
<b>2</b>	<b>Loans and advances, debt securities and equity instruments not HfT eligible for GAR calculation</b>	<b>14.07%</b>	<b>0.75%</b>	<b>0.16%</b>	<b>0.05%</b>	<b>0.27%</b>
<b>3</b>	<b>Financial corporations</b>	<b>0.68%</b>	-	-	-	-
4	Credit institutions	0.68%	-	-	-	-
5	Other financial corporations	0.00%	-	-	-	-
6	of which investment firms	-	-	-	-	-
7	of which management companies	0.00%	-	-	-	-
8	of which insurance undertakings	0.00%	-	-	-	-
<b>9</b>	<b>Non-financial corporations subject to NFRD disclosure obligations</b>	<b>1.04%</b>	<b>0.58%</b>	-	<b>0.05%</b>	<b>0.27%</b>
<b>10</b>	<b>Households</b>	<b>12.35%</b>	<b>0.16%</b>	<b>0.16%</b>	-	-
11	of which loans collateralised by residential immovable property	11.98%	0.16%	0.16%	-	-
12	of which building renovation loans	0.10%	-	-	-	-
13	of which motor vehicle loans	0.18%	-	-	-	-
<b>14</b>	<b>Local government financing</b>	<b>0.00%</b>	-	-	-	-
15	Housing financing	0.00%	-	-	-	-
16	Other local governments financing	0.00%	-	-	-	-
17	Collateral obtained by taking possession: residential and commercial immovable properties	-	-	-	-	-

Source: FINREP reporting base: Templates - F 1.01 - F 1.02 - F 2.00 - F 4.01 - F 4.02 - F 4.03 - F 4.04 - F 4.05 - F 18.00 - F 6.01; Internal ESG database





f	g	h	i	j	k	l	m	n	o	p
<b>Disclosure reference date 31/12/2023: KPIs on flows</b>										
<b>Climate Change Adaptation (CCA)</b>					<b>TOTALE (CCM + CCA)</b>					
<b>Proportion of eligible assets funding taxonomy relevant sectors</b>					<b>Proportion of eligible assets funding taxonomy relevant sectors</b>					<b>Proportion of total assets covered</b>
<b>Of which environmentally sustainable</b>					<b>Of which environmentally sustainable</b>					
	<b>Of which specialised lending</b>	<b>Of which adaptation</b>	<b>Of which enabling</b>		<b>Of which specialised lending</b>	<b>Of which adaptation</b>	<b>Of which enabling</b>			
-	-	-	-	-	14.07%	0.75%	0.16%	0.05%	0.27%	76.97%
-	-	-	-	-	14.07%	0.75%	0.16%	0.05%	0.27%	24.98%
-	-	-	-	-	0.68%	-	-	-	-	2.17%
-	-	-	-	-	0.68%	-	-	-	-	2.16%
-	-	-	-	-	0.00%	-	-	-	-	0.01%
-	-	-	-	-	-	-	-	-	-	0.00%
-	-	-	-	-	0.00%	-	-	-	-	0.00%
-	-	-	-	-	0.00%	-	-	-	-	0.01%
-	-	-	-	-	1.04%	0.58%	-	0.05%	0.27%	5.41%
					12.35%	0.16%	0.16%	-	-	17.15%
					11.98%	0.16%	0.16%	-	-	9.83%
					0.10%	-	-	-	-	0.08%
					0.18%	-	-	-	-	0.14%
					0.00%	-	-	-	-	0.25%
					0.00%	-	-	-	-	0.00%
-	-	-	-	-	0.00%	-	-	-	-	0.25%
					-	-	-	-	-	-





The table above shows, as a percentage of the total, the portion of assets financed by the Group as at 31 December 2023 that can be considered “environmentally sustainable” in accordance with Articles 3 and 9 of Regulation (EU) 2020/852. In particular, evidence of the following is provided for each macro-category of assets covered by the GAR and for each of the environmental objectives of the Taxonomy (climate change mitigation and adaptation):

- the share of the stock of assets that as at the reference date finance economic activities that comply with the environmental objectives of the Taxonomy (“eligible”) in relation to the total assets covered by the GAR;
- the percentage of new assets generated during the reporting period (year 2023) that finance economic activities that comply with the environmental objectives of the Taxonomy (“eligible”) in relation to the total assets covered by the GAR.

**Table 116** Template 10: Other climate change-related mitigation actions not covered by Regulation (EU) 2020/852

a	b	c	d	e	f
Type of financial instrument	Type of counterparty	Gross carrying amount (million EUR)	Type of risk mitigated (Climate change transition risk)	Type of risk mitigated (Climate change physical risk)	Qualitative information on the nature of the mitigating actions
2 3 4 5 6 7 8 9 10 11 12 13 14 Bonds (e.g. green, sustainable, sustainability-linked under standards other than the EU standards)	Financial corporations	465	Climate change transition risk		(*2)
	Non-financial corporations	152	Climate change transition risk		(*2)
	Of which Loans collateralised by commercial immovable property	-			
	Households	-			
	Of which Loans collateralised by residential immovable property	-			
	Of which building renovation loans	-			
	Other counterparties	421	Climate change transition risk		(*2)
9 10 11 12 13 14 Loans (e.g. green, sustainable, sustainability-linked under standards other than the EU standards)	Financial corporations	-			
	Non-financial corporations	529	Climate change transition risk		(*1)
	Of which Loans collateralised by commercial immovable property	330	Climate change transition risk		(*1)
	Households	152	Climate change transition risk		(*1)
	Of which Loans collateralised by residential immovable property	97	Climate change transition risk		(*1)
	Of which building renovation loans	-			
	Other counterparties	-			

Source: FINREP reporting base: Templates - F 1.01 - F 1.02 - F 2.00 - F 4.01 - F 4.02 - F 4.03 - F 4.04 - F 4.05 - F 18.00 - F 6.01; Internal ESG database



The purpose of the disclosures required by *Template 10 - Other climate change-related mitigation actions not covered by Regulation (EU) 2020/852* is to describe climate change-related mitigation actions implemented by institutions and to represent customer exposures that are intended to support counterparties in achieving their climate change mitigation and adaptation objectives but are not aligned with the “Taxonomy” standards set out in Regulation (EU) 2020/852 (and therefore not included in the calculation of the GAR and BTAR metrics to be published in the future).

(\*1) Credit products deemed eligible according to the Bank’s Green Bond framework as per specific guidelines issued by ICMA (International Capital Market Association) are counted towards the compilation of Template 10. For financial year 2023, 793 million euro of loans was eligible for recognition for environmental mitigation purposes, of which 113 million euro is aligned in accordance with Regulation (EU) 2020/852 and eliminated from this template. Overall, 681 million euro derives from non-financial companies and households whose financeable or refinanceable economic activities are covered by the above-mentioned green bond issuance programme and who meet the following eligibility criteria:

- *Green Building*: loans or assets for the purchase, construction and renovation of residential and/or commercial buildings that meet energy efficiency requirements;
- *Renewable Energy*: loans for the acquisition, development and management of infrastructure for the production of energy from renewable sources;
- *Clean Transportation*: loans for low-carbon transport activities and the acquisition, as well as construction and operation of dedicated low-carbon transport infrastructure.
- *Energy Efficiency*: loans for goods that contribute to reducing energy consumption (e.g. energy-saving lighting);
- *Environmentally sustainable management of living natural resources and land use*: loans for activities that contribute to the sustainable management of natural resources and land use (e.g. investments in protected areas such as regional nature parks);
- *Pollution prevention and control*: loans for activities that contribute to the prevention, collection, disposal and recycling of waste;
- *Sustainable Water and Wastewater Management*: loans for activities that improve the quality, efficiency, distribution and conservation of water.

(\*2) The amounts for bonds refer to those identified as green, held in the portfolio for a combined total of approximately 1.038 billion euro. In line with the objectives of Template 10, debt instruments deemed to be aligned under Regulation (EU) 2020/852, amounting to approximately 135 million euro, already accounted for in Template 7 - Mitigating actions: Assets for GAR calculation, were eliminated.

In addition to the above-mentioned loan and bond volumes, the Bank also has 900 million euro in loans for the 110% SuperBonus, currently not accounted for in this Template.



# Section 13

## Disclosure of exposures to counterparty risk (articles 438 and 439 CRR/CRR II)

Pursuant to the supervisory provisions, counterparty risk is the risk that the counterparty to a transaction involving certain financial instruments might default before making full settlement.

For the determination of the related Pillar 1 capital requirement, the regulation dictates specific rules for quantifying the value of exposures, while referring to the rules on credit risk for an indication of the weighting factors.

In accordance with the legislative provisions and for regulatory purposes, counterparty risk is measured for the following categories of transactions:

- OTC financial derivatives;
- Securities Financing Transactions (SFT), such as repurchase and reverse repurchase agreements on securities or commodities, lending or borrowing operations of securities or commodities and loans with margins;
- Long Settlement Transactions (LST), forward transactions in which a counterparty undertakes to deliver (or receive) a security, commodity or foreign currency against the receipt (or delivery) of cash, other financial instruments or goods with settlement on a defined contractual date, later than that established by market practice for transactions of the same kind.

The following characteristics are common to the three types mentioned above:

- they generate an exposure equal to their positive fair value;
- they have a market value that evolves over time according to the underlying market variables;
- they generate an exchange of payments or an exchange of financial instruments or goods against payments.

For the purpose of reducing the value of exposures, the recognition of specific types of contractual compensation is allowed, subject to compliance with the requirements established by the supervisory regulations; specifically:

- bilateral novation agreements for derivative contracts entered into with counterparties (written agreements on the basis of which the reciprocal positions are automatically offset, establishing a single net balance in just one new legally binding contract, which replaces the previous contracts);
- other bilateral netting agreements for derivative contracts (written agreements on the basis of which the reciprocal positions are automatically netted by establishing a single net balance, without any novation);
- bilateral netting agreements between different products (cross-product netting).

## Risk management and hedging policies

The Bank enters into derivative instruments with specific counterparties, governed by dedicated framework contracts, so-called "ISDA Master Agreement" (ISDA, International Swaps and Derivatives Association). The possibility of making bilateral offsets between opposite-sign derivative transactions is guaranteed by close-out netting clauses, present both in the framework contracts stipulated with customers, and in the rules governing ISDA contracts for transactions with financial counterparties.



For most of the exposures to financial counterparties, mainly banking institutions, Credit Support Annex (CSA) collateralisation agreements have also been entered into, through which the parties undertake to deliver and receive collateral (for Banca Popolare di Sondrio, they are represented by cash in euro) to cover the risk of default by the counterparty on the uncovered position, the amount of which is restated daily on the basis of the fair value trend of the underlying derivatives.

For derivative contracts transactions, as required by IFRS 13, the fair value of the instruments incorporates the effects of the credit risk of both the counterparty and the contracting Bank. To this end, a model for the valuation of a risk component has been implemented to adjust the pure market value of the instrument. With regard to derivatives with positive mark-to-market adjustment, the additional risk component is known as the Credit Value Adjustment (CVA) and represents the potential loss associated with the counterparty credit risk, while for instruments with negative mark-to-market adjustments the Debit Value Adjustment (DVA) quantifies the Bank's default risk.

In the context of derivative transactions in place at 31 December 2023, no significant impacts are estimated on the amount of collateral guarantees pertaining to the Bank should a downgrade of its credit rating occur (downgrading).

Repurchase agreements may be subject to netting agreements governed by Global Master Repurchase Agreements (GMRA).

The management system for counterparty risk foresees that the Group's operations with the issuers of financial assets held in portfolio (bonds and similar), with banking and institutional counterparties in the context of financial relationships (e.g. repurchase agreements, derivatives, interbank deposits, spot and forward foreign exchange transactions) and with customers operating in OTC derivatives, can only take place after a dedicated internal credit facility has been activated, indicating the maximum risk that can be assumed on each counterparty for specific types of transaction.

In relation to the OTC derivative transactions carried out by customers (people and legal entities), the credit limit is released following a careful assessment of the financial appropriateness of the requested transactions, as well as of any guarantees that can be acquired. The request for granting the limit made by the customer follows the procedure normally used for all technical forms of credit. The riskiness of credit lines of this type always requires an in-depth study of the type of transactions that the customer intends to initiate and their purpose.

The credit limits given to counterparties of financial contracts and to issuers of debt or similar instruments held in portfolio are included in the wider scope of the operating limits granted to these counterparties/issuers, whose analysis of creditworthiness is based primarily on the ratings (external, if any, or assigned internally), as well as on an in-depth examination of the financial and market information available.

From the management point of view, monitoring risk consists of estimating exposure metrics based on the "amount effectively granted"<sup>26</sup>, suitably weighted by risk coefficients linked to the creditworthiness class to which each counterparty/issuer is assigned.

<sup>26</sup> In operating terms, the "amount effectively granted" is the amount, measured at a specific point in time, obtained by multiplying the credit limit granted to counterparties/issuers by a corrective factor corresponding to the higher of the individual credit lines and the amount historically observed, in relation to all the credit lines granted, at a high level of statistical significance.



The exposure to counterparties/issuers must remain within predefined limits, set both on an individual basis for the Parent Company only and on a consolidated basis. At an aggregate level, the overall operations with counterparties/issuers cannot exceed a specific “general limit”, from which several granular operating limits derive, respectively expressed in terms of:

- maximum limit to the weighted exposure to the individual counterparty/issuer or group of counterparties/issuers (“Single-counterparty limit”);
- maximum limit on all weighted exposures to the top 10 counterparties/issuers, individuals or groups (“Concentration limit”);
- maximum limit on all exposures to counterparties/issuers belonging to the same nation, other than Italy, weighted according to the country’s macro-class (“Country risk limit”).

With regard to the monitoring activity carried out on the limits issued for derivative transactions, the relative use is determined as the sum of two components: the “add-on”, i.e. a given percentage of the nominal value of open positions, and the “mark to market”, i.e., the replacement value of the instrument, which is continuously updated.

For reasons of prudence, the degree of use of the limits can never be less than the percentage of “add-ons” applied to existing operations.

Wrong-way risk arises when there is a positive correlation between future exposure to a counterparty and a deterioration in its creditworthiness. This risk can be generic, when the probability of counterparty default depends on market factors, or specific, where there are legal or economic links between the risk factors of the exposure and the counterparty.

With regard to OTC derivative exposures, the deterioration of the overall mark-to-market for counterparties that have not signed CSA agreements is monitored on a daily basis by the relevant trading desk through appropriate reports. If the negative mark-to-market approaches the amount of the operating line granted, the relevant branch structure is urged to consider an increase in the counterparty ceiling where the customer’s creditworthiness conditions are ascertained or upon presentation of collateral by the customer. In case of failure to apply for an increase in the ceiling, or failure to obtain the request, if the negative mark-to-market exceeds the amount of the line granted, early settlement of the outstanding derivatives with the counterparty will be carried out ex officio, as stipulated in the Framework Agreement in place.

\* \* \*

The tables below show the Group’s exposure profile to Counterparty Credit Risk (CCR) as at 31 December 2023, including:

- an overview of the approaches adopted by the Group to quantify its capital requirements for counterparty risk and the main parameters used in each method;
- all derivative transactions subject to the capital requirement on credit valuation adjustment (CVA) risk;
- a breakdown of exposures to counterparty risk by type of regulatory portfolio and risk weight;
- information on any parameters used to calculate capital requirements for counterparty risk under the IRB approach;
- the composition of collateral (cash, sovereign debt, corporate bonds, etc.) provided or received by the Group as collateral for the purpose of supporting or reducing exposures to counterparty risk arising from derivative transactions or SFT (Securities Financing Transactions), including transactions cleared through a central counterparty (CCP);

- the total exposure for any credit derivative transactions (purchased or sold);
- the dynamics of change in the risk-weighted exposure amounts to counterparty risk (RWA) determined according to the “Internal Models approach”;
- an account of exposures to central counterparties due to transactions, margins and contributions to collateral funds and the associated capital requirements.

**Table 117** - Template EU CCR1: Analysis of CCR exposure by approach (1 of 2)

		a	b	c	d
		Replacement cost (RC)	Potential future exposure (PFE)	EEPE	Alpha used for computing regulatory exposure value
EU-1	EU - Original Exposure Method (for derivatives)	-	-		1,4
EU-2	EU - Simplified SA-CCR (for derivatives)	402	24,305		1,4
1	SA-CCR (for derivatives)	22,355	24,034		1,4
2	IMM (for derivatives and SFTs)			-	-
2a	<i>Of which securities financing transactions netting sets</i>			-	
2b	<i>Of which derivatives and long settlement transactions netting sets</i>			-	
2c	<i>Of which from contractual cross-product netting sets</i>			-	
3	Financial collateral simple method (for SFTs)				
4	Financial collateral comprehensive method (for SFTs)				
5	VaR for SFTs				
<b>6</b>	<b>TOTAL</b>				

Source: COREP reporting framework - Size of the derivatives business: Template C34.02

Key:

- *SA-CCR simplified*: Simplified Standardised Approach (applicable to derivatives).
- *SA-CCR*: Standardised Approach (applicable to derivatives).
- *IMM*: Internal Model Method (applicable to derivatives and SFT).
- *Replacement Cost (RC) and Potential Future Exposure (PFE)*: amounts calculated: a) in accordance with article 282(3) and (4) of part three, title II, chapter 6, section 5 of the CRR in the case of the original exposure method; b) in accordance with article 281 of part three, title II, chapter 6, section 5 of the CRR in the case of the simplified SA-CCR method; c) in accordance with articles 275 and 278 of part three, title II, chapter 6, sections 4 and 5 of the CRR in the case of the SA-CCR Method.
- *Effective expected positive exposure (Effective EPE)*: a technique for estimating the future credit exposure of transactions exposed to counterparty risk as a weighted average - over a defined time period - of the expected values of credit exposures, where the weights are represented by the ratio of the fraction of the predefined time period relevant to the individual expected exposure with respect to the entire time period considered. Effective EPE for a set of assets subject to netting is defined in article 272(22) of the CRR and calculated in accordance with article 284(6) of the CRR. The Effective EPE shown in the table is that applied for the determination of own funds requirements in accordance with article 284(3) of the CRR, i.e. Effective EPE calculated using current market data or Effective EPE calculated using a stress calibration, whichever results in a higher own funds requirement.



**Table 118** - Template EU CCR1: Analysis of CCR exposure by approach (2 of 2)

		e	f	g	h
		Exposure value pre-CRM	Exposure value post-CRM	Exposure value	RWEA
EU-1	EU - Original Exposure Method (for derivatives)	-	-	-	-
EU-2	EU - Simplified SA-CCR (for derivatives)	34,626	34,626	34,626	7,604
1	SA-CCR (for derivatives)	64,945	64,714	65,086	25,460
2	IMM (for derivatives and SFTs)	-	-	-	-
2a	<i>Of which securities financing transactions netting sets</i>	-	-	-	-
2b	<i>Of which derivatives and long settlement transactions netting sets</i>	-	-	-	-
2c	<i>Of which from contractual cross-product netting sets</i>	-	-	-	-
3	Financial collateral simple method (for SFTs)	-	-	-	-
4	Financial collateral comprehensive method (for SFTs)	3,840,700	166,643	166,643	40,495
5	VaR for SFTs	-	-	-	-
<b>6</b>	<b>TOTAL</b>	<b>3,940,271</b>	<b>265,984</b>	<b>266,355</b>	<b>73,560</b>

Source: COREP reporting framework - Size of the derivatives business: Template C34.02

Key:

- *SA-CCR simplified*: Simplified Standardised Approach (applicable to derivatives).
- *SA-CCR*: Standardised Approach (applicable to derivatives).
- *IMM*: Internal Model Method (applicable to derivatives and SFT).
- *Pre-CRM exposure value*: the exposure value for assets subject to the CCR calculated taking into account the effect of netting, but excluding any other credit risk mitigation techniques (e.g. collateral posted as margin). In the case of SFT, the securities component is not taken into account in determining the value of the pre-CRM exposure if collateral is received and therefore does not reduce the value of the exposure. Conversely, the securities component of SFT is taken into account in determining the value of the pre-CRM exposure on a regular basis if collateral is provided. In addition, collateralised transactions are treated as unsecured, i.e. no margining effects are applied. The pre-CRM exposure value does not take into account the deduction for any CVA loss incurred.
- *Post-CRM exposure value*: the exposure value for assets subject to the CCR calculated taking into account applicable credit risk mitigation techniques in accordance with part three, title II, chapters 4 and 6 of the CRR. In accordance with article 273(6) of the CRR, any CVA loss incurred is not deducted from the value of the post-CRM exposure.
- *Exposure value*: the exposure value for assets subject to the CCR used for the purposes of calculating the related capital requirement, determined by applying the effects of credit risk mitigation techniques in accordance with part three, title II, chapters 4 and 6 of the CRR and considering the deduction of any CVA loss incurred. The exposure value for transactions for which a specific unfavourable correlation risk has been identified shall be determined in accordance with article 291 of the CRR. In cases where more than one CCR method is used for an individual counterparty, the incurred CVA loss, deducted at the counterparty level, shall be allocated to the exposure value of the different netting sets of assets in each CCR method reflecting the proportion of the post-CRM exposure value of the respective netting sets of assets to the counterparty's total post-CRM exposure value.



**Table 119** - Template EU CCR2: Transactions subject to own funds requirements for CVA risk

		31/12/2023		31/12/2022	
		a	b	a	b
		Exposure value	RWAs	Exposure value	RWAs
1	<b>TOTAL PORTFOLIOS SUBJECT TO THE ADVANCED METHOD</b>	-	-	-	-
2	(i) VaR component (including the 3x multiplier)		-		-
3	(ii) SVaR component (including the 3x multiplier)		-		-
4	<b>ALL PORTFOLIOS SUBJECT TO THE STANDARDISED METHOD</b>	<b>74,100</b>	<b>10,779</b>	<b>183,820</b>	<b>24,999</b>
EU-4	Based on the original exposure method	-	-	-	-
5	<b>TOTAL SUBJECT TO THE CVA CAPITAL CHARGE</b>	<b>74,100</b>	<b>10,779</b>	<b>183,820</b>	<b>24,999</b>

Source: COREP reporting framework - Credit assessment adjustment risk (CVA risk): Template C25.00

**Table 120** - Template EU CCR3 - Standardised approach - CCR exposures by regulatory exposure class and risk weights (1 of 2)

EXPOSURE CLASSES	Classes of credit worthiness (Weighting Factors)						
	a	b	c	d	e	f	
	0%	2%	4%	10%	20%	50%	
1	Central governments or central banks	-	-	-	-	-	-
2	Regional governments or local authorities	-	-	-	-	-	-
3	Public sector entities	-	-	-	-	-	-
4	Multilateral development banks	-	-	-	-	-	-
5	International organisations	-	-	-	-	-	-
6	Institutions	-	21,876	-	-	193,141	42,258
7	Corporates	-	-	-	-	-	-
8	Retail	-	-	-	-	-	-
9	Institutions and corporates with a short-term credit assessment	-	-	-	-	-	-
10	Other items	-	-	-	-	-	-
11	<b>TOTAL AS AT 31/12/2023</b>	-	<b>21,876</b>	-	-	<b>193,141</b>	<b>42,258</b>
	<b>TOTAL AS AT 31/12/2022</b>	-	<b>25,129</b>	-	-	<b>118,805</b>	<b>209,524</b>

Source: COREP reporting framework - Credit and counterparty risks, standardised approach to capital requirements: Template C 07.00



**Table 121** - Template EU CCR3 - Standardised approach - CCR exposures by regulatory exposure class and risk weights (2 of 2)

EXPOSURE CLASSES		Classes of credit worthiness (Weighting Factors)					
		g	h	i	j	k	l
		70%	75%	100%	150%	Altri	Valore dell'esposizione complessiva
1	Central governments or central banks	-	-	-	-	-	-
2	Regional governments or local authorities	-	-	-	-	-	-
3	Public sector entities	-	-	-	-	-	-
4	Multilateral development banks	-	-	-	-	-	-
5	International organisations	-	-	-	-	-	-
6	Institutions	-	-	712	-	-	257,987
7	Corporates	-	-	254	-	-	254
8	Retail	-	1,203	-	-	-	1,203
9	Institutions and corporates with a short-term credit assessment	-	-	-	-	-	-
10	Other items	-	-	2,798	-	-	2,798
<b>11</b>	<b>TOTAL AS AT 31/12/2023</b>	-	<b>1,203</b>	<b>3,764</b>	-	-	<b>262,242</b>
	<b>TOTAL AS AT 31/12/2022</b>	-	<b>2,395</b>	<b>22,321</b>	-	-	<b>378,175</b>

Source: COREP reporting framework - Credit and counterparty risks, standardised approach to capital requirements: Template C 07

**Table 122** - Template EU CCR4 - IRB approach: CCR exposures by exposure class and PD scale - Central governments or central banks

The template is not published due to the absence of significant exposures subject to counterparty risk in the specific segment.

**Table 123** - Template EU CCR4 - IRB approach: CCR exposures by exposure class and PD scale - Institutions

The template is not published due to the absence of significant exposures subject to counterparty risk in the specific segment.

**Table 124** - Template EU CCR4 - IRB approach: CCR exposures by exposure class and PD scale - Corporates (1 of 2)

PD SCALE	a	b	c
	Exposure value	Exposure weighted average PD (%)	Number
0.00 to <0.15	of obligors	0.1197%	18
0.15 to <0.25			
0.25 to <0.50	3,250	0.3400%	22
0.50 to <0.75	2,984	0.5200%	15
0.75 to <2.50	2,669	1.7513%	17
2.50 to <10.00	382	6.2989%	9
10.00 to <100.00	-	-	-
100.00 (Default)	-	-	-
<b>SUBTOTAL (Exposure classes CORPORATES)</b>	<b>25,611</b>	<b>0.4815%</b>	<b>100</b>

Source: COREP reporting framework - Counterparty risk, IRB approach to capital requirements - PD ranges: Template C 34.07

**Table 125** - Template EU CCR4 - IRB approach: exposures subject to CCR by exposure class and PD range - Corporates (2 of 2)

PD SCALE	d	e	f	g
	Exposure weighted average LGD (%)	Exposure weighted average maturity	RWEA	Density of risk weighted exposure amount
0.00 to <0.15				
0.15 to <0.25	26.7267%	1	3,108	24.1832%
0.25 to <0.50	27.4950%	2	1,458	44.8768%
0.50 to <0.75	26.7483%	1	1,495	50.1005%
0.75 to <2.50	22.2794%	2	1,926	72.1680%
2.50 to <10.00	25.8572%	3	477	124.8893%
10.00 to <100.00	-	-	-	-
100.00 (Default)	-	-	-	-
<b>SUBTOTAL (Exposure classes CORPORATES)</b>	<b>26.3298%</b>	<b>1</b>	<b>9,098</b>	<b>35.5255%</b>

Source: COREP reporting framework - Counterparty risk, IRB approach to capital requirements - PD ranges: Template C 34.07



**Table 126** - Template EU CCR4 - IRB approach: CCR exposures by exposure class and PD scale - Retail (1 of 2)

PD SCALE	a	b	c
	Exposure value	Exposure weighted average PD (%)	Number
0.00 to <0.15	of obligors	0.1148%	9
0.15 to <0.25			
0.25 to <0.50	223	0.4783%	3
0.50 to <0.75	6	0.5200%	1
0.75 to <2.50	19	1.8470%	2
2.50 to <10.00	29	3.1770%	4
10.00 to <100.00	-	-	-
100.00 (Default)	-	-	-
<b>SUBTOTAL (Exposure classes RETAIL)</b>	<b>379</b>	<b>0.6609%</b>	<b>22</b>
<b>TOTAL AS AT 31/12/2023</b>	<b>25,989</b>	<b>0.4840%</b>	<b>122</b>

Source: COREP reporting framework - Counterparty risk, IRB approach to capital requirements - PD ranges: Template C 34.07

**Table 127** - Template EU CCR4 - IRB approach: CCR exposures by exposure class and PD scale - Retail (2 of 2)

PD SCALE	d	e	f	g
	Exposure weighted average LGD (%)	Exposure weighted average maturity	RWEA	Density of risk weighted exposure amount
0.00 to <0.15				
0.15 to <0.25	24.8760%	-	4	10.2203%
0.25 to <0.50	9.1942%	-	17	7.4425%
0.50 to <0.75	31.0820%	-	2	25.8366%
0.75 to <2.50	19.3850%	-	5	27.4579%
2.50 to <10.00	16.4920%	-	6	22.5099%
10.00 to <100.00	-	-	-	-
100.00 (Default)	-	-	-	-
<b>SUBTOTAL (Exposure classes RETAIL)</b>	<b>14.7222%</b>	<b>-</b>	<b>38</b>	<b>10.1008%</b>
<b>TOTAL AS AT 31/12/2023</b>	<b>26.1600%</b>	<b>1</b>	<b>9,137</b>	<b>35.1550%</b>

Source: COREP reporting framework - Counterparty risk, IRB approach to capital requirements - PD ranges: Template C 34.07

**Table 128** - Template EU CCR5: Composition of collateral for CCR exposures (1 of 2)

		a	b	c	d
		Collateral used in derivative transactions			
COLLATERAL TYPE		Fair value of collateral received		Fair value of posted collateral	
		Segregated	Unsegregated	Segregated	Unsegregated
1	Cash – domestic currency	-	-	60,251	112,326
2	Cash – other currencies	-	-	-	26,307
3	Domestic sovereign debt	-	-	-	-
4	Other sovereign debt	-	-	-	-
5	Government agency debt	-	-	-	-
6	Corporate bonds	-	-	-	-
7	Equity securities	-	-	-	-
8	Other collateral	-	-	-	-
<b>9</b>	<b>TOTAL AS AT 31/12/2023</b>	-	-	<b>60,251</b>	<b>138,633</b>

Source: COREP reporting framework - Composition of guarantees for counterparty risk: Template C 34.08

**Table 129** - Template EU CCR5: Composition of collateral for CCR exposures (2 of 2)

		e	f	g	h
		Collateral used in SFTs			
COLLATERAL TYPE		Fair value of collateral received		Fair value of posted collateral	
		Segregated	Unsegregated	Segregated	Unsegregated
1	Cash – domestic currency	-	-	-	-
2	Cash – other currencies	-	-	-	-
3	Domestic sovereign debt	-	-	-	1,693,864
4	Other sovereign debt	-	-	-	-
5	Government agency debt	-	-	-	-
6	Corporate bonds	-	-	-	732,884
7	Equity securities	-	-	-	-
8	Other collateral	-	-	-	3,107,816
<b>9</b>	<b>TOTAL AS AT 31/12/2023</b>	-	-	-	<b>5,534,564</b>

Source: COREP reporting framework - Composition of guarantees for counterparty risk: Template C 34.08

**Table 130** - Template EU CCR6: Credit derivative exposures

The template is not published due to the absence of exposures related to credit derivative transactions.



**Table 131** - Modello EU CCR7: prospetti degli RWEA delle esposizioni soggette al CCR nell'ambito dell'IMM

The template is not published due to the absence of counterparty risk exposures treated according to the "Internal Model Method" (IMM).

**Table 132** - Template EU CCR8: Exposures to CCPs

		31/12/2023	
		a	b
		Exposure value	RWEA
<b>1</b>	<b>EXPOSURES TO QCCPS (TOTAL)</b>		<b>518</b>
2	Exposures for trades at QCCPs (excluding initial margin and default fund contributions); of which	21.876	438
3	(i) OTC derivatives	-	-
4	(ii) Exchange-traded derivatives	-	-
5	(iii) SFTs	21.876	438
6	(iv) Netting sets where cross-product netting has been approved	-	-
7	Segregated initial margin	-	-
8	Non-segregated initial margin	-	-
9	Prefunded default fund contributions	4.054	80
10	Unfunded default fund contributions	-	-
<b>11</b>	<b>EXPOSURES TO NON-QCCPS (TOTAL)</b>		<b>-</b>
12	Exposures for trades at non-QCCPs (excluding initial margin and default fund contributions); of which	-	-
13	(i) OTC derivatives	-	-
14	(ii) Exchange-traded derivatives	-	-
15	(iii) SFTs	-	-
16	(iv) Netting sets where cross-product netting has been approved	-	-
17	Segregated initial margin	-	-
18	Non-segregated initial margin	-	-
19	Prefunded default fund contributions	-	-
20	Unfunded default fund contributions	-	-

Source: COREP reporting framework - Exposures to central counterparties: Template C 34.10

Key:

- QCCP: Qualifying Central Counterparty. Entity licensed to act as a central counterparty (including by way of derogation) and authorised by the relevant regulatory and/or supervisory body to act as such for the products it offers. QCCP status requires that the CCP be established and supervised in a jurisdiction where the relevant regulatory and/or supervisory body has determined and publicly notified that it will apply to the CCP, on an ongoing basis, national standards and rules that comply with the Principles for Financial Market Infrastructures jointly issued by the Committee on Payment and Settlement Systems (CPSS) and the International Organisation of Securities Commissions (IOSCO).

# Section 14

## Disclosure of exposure to securitisation positions (art. 449 CRR/CRR II)

### Own securitisations

#### Securitisations of non-performing loans

As part of a multi-year strategic programme of measures to contain impaired loans, Banca Popolare di Sondrio completed five securitisation transactions through the bulk sale of non-performing loans in the period 2020-2023.

##### DIANA SECURITISATION

In the first transaction of June 2020, named "Diana", a portfolio of non-performing loans with a gross value of 999.7 million euro (consisting of 74% secured loans) was sold in a massive manner, with economic effect from 1 April 2019, to the securitisation vehicle named "Diana S.P.V. S.r.l." established pursuant to Law 130/99, which in turn issued three tranches of ABS notes totalling 274 million euro (27.4% of the gross value of the assigned loans):

- a senior tranche, rated BBB/Baa2/BBB by the agencies DBRS Morningstar, Moody's and Scope Ratings, respectively, for 235 million euro, corresponding to 23.5% of the gross value of the loans sold. This tranche has structural characteristics of eligibility for the GACS State guarantee;
- a mezzanine tranche of 35 million euro, equal to 3.5% of the gross value of the loans disposed;
- a junior tranche of 4 million euro.

All the notes issued were underwritten by Banca Popolare di Sondrio at the closing of the transaction, and most of them were then offered for subscription on the market. The senior securities were entirely retained by the Bank; for the same, coverage by the Italian State through the GACS scheme was requested and obtained. In order to obtain the deconsolidation for accounting purposes of the loans sold in accordance with the applicable sector regulations, 95% of the mezzanine and junior tranches were placed with institutional investors.

##### LUZZATTI SECURITISATION

The second securitisation transaction, named "Luzzatti", was completed by Banca Popolare di Sondrio in December 2020 together with 14 other participating banks, as part of a multi-originator initiative coordinated by Luzzatti S.c.p.a., a company for the management of extraordinary transactions set up by a pool of participating cooperative banks. In particular, a portfolio of non-performing loans with a gross value of 371.8 million euro (71% of which are secured loans) was sold, effective from 1 January 2020 to the securitisation vehicle named "POP NPLs 2020 S.r.l.", which in turn issued three tranches of ABS for a total of 125.69 million euro (33.8% of the gross value of the loans disposed), of which:

- a senior tranche, rated BBB by the agencies DBRS Morningstar and Scope Ratings, amounting to 109.78 million euro, corresponding to 29.5% of the gross value of the loans disposed. The tranche in question, kept in the portfolio by Banca Popolare di Sondrio, has structural characteristics that make it eligible for the GACS state guarantee;
- a mezzanine tranche of 11.36 million euro, rated CCC by DBRS Morningstar and CC by Scope Ratings, corresponding to 3.1% of the gross value of the loans disposed;
- a junior tranche of 4.55 million euro, equal to 1.2% of the gross value of the loans disposed.



95% of the mezzanine and junior tranches were placed with institutional investors, while the remaining 5% was retained by the selling Bank, in line with current regulatory obligations. For the senior notes, coverage from the Italian State was requested and obtained through the GACS scheme.

### LUZZATTI II SECURITISATION

As a continuation of the de-risking and asset quality improvement strategy pursued, in December 2021, the Bank concluded, together with 11 other participating institutions, an additional securitisation transaction of non-performing loans named “Luzzatti II.”

The transaction involved the sale, with economic effect from 1 January 2021, of a portfolio of loans classified as non-performing with a gross value of 420.9 million euro (consisting of 57% secured loans) to the securitisation vehicle named “Luzzatti POP NPLs 2021 S.r.l.” established pursuant to Law No. 130/1999, an entity which, in turn, issued three tranches of ABS notes attributable to Banca Popolare di Sondrio for a total of 115.62 million euro (27.47% of the gross value of the loans transferred), of which:

- a senior tranche, which was assigned a rating of BBB by the agencies DBRS Morningstar and ARC Ratings, for an amount of 97.71 million euro, corresponding to 23.21% of the gross value of the loans disposed. The tranche in question, retained by the Bank, has structural features of GACS eligibility;
- a mezzanine tranche of 12.79 million euro, equal to 3.04% of the gross value of the loans disposed;
- a junior tranche of 5.12 million euro, equal to 1.21% of the gross value of the loans disposed.

In order to obtain the deconsolidation of the loans disposed, in accordance with the provisions of the applicable sector regulations, 95%, respectively, of the mezzanine and junior tranches were placed with institutional investors, while the remaining 5% was withheld by the selling Bank. Banca Popolare di Sondrio proceeded with derecognition of the portfolio of non-performing loans disposed. For the senior notes, coverage from the Italian State was requested and obtained through the GACS scheme.

### LUZZATTI III SECURITISATION

On 29 December 2022, Banca Popolare di Sondrio, together with 14 other participating banks, concluded a new multi-originator securitisation transaction named “Luzzatti III”, involving loans classified as non-performing loans for a total gross book value of 545 million euro, of which 242.5 million euro related to the Bank (portfolio consisting of 57% secured loans). The securitisation vehicle company named “Luzzatti POP NPLs 2022 S.r.l.” issued three tranches of ABS notes for a total of 65.71 million euro (equal to 27.09% of the value of the loans disposed), broken down as follows:

- a senior tranche amounting to 56 million euro, corresponding to 23.09% of the gross value of the loans disposed, rated Baa1 and BBB+ by the agencies Moody’s and Arc Ratings, respectively; the tranche in question, wholly retained by the Bank, presents structural characteristics of eligibility for the GACS and, should this state guarantee be reintroduced, the participating banks will assess the advisability of availing themselves of it;
- a mezzanine tranche of 8.29 million euro, equal to 3.41% of the gross value of the loans disposed;
- a junior tranche of 1.42 million euro, equal to 0.59% of the gross value of the loans disposed.

In order to obtain the deconsolidation of the loans disposed, according to the provisions of the applicable sector legislation, 95%, respectively, of the mezzanine and junior tranches, were successfully placed with institutional investors. The Bank therefore proceeded with derecognition of the portfolio of non-performing loans disposed.



## LUZZATTI IV SECURITISATION

On 28 December 2023 Banca Popolare di Sondrio, together with 11 other participants, completed the multi-originator securitisation of non-performing loans designated “Luzzatti POP NPLs 2023” for a total gross book value of 313 million euro.

The transaction entailed the sale, with economic effect from 1 January 2023, of a portfolio of non-performing loans with a gross value of 173.7 million euro to the securitisation vehicle Luzzatti POP NPLs 2023 S.r.l. The securitisation vehicle in turn issued three tranches of ABS notes for a total of 57.13 million euro (equal to 32.88% of the gross value of the loans disposed), of which:

- a senior tranche of 48 million euro, corresponding to 27.85% of the gross value of the loans disposed, which were rated BBB+ and BBB (high) by the agencies ARC Ratings and Morningstar DBRS, respectively;
- a mezzanine tranche of 6.86 million euro, equal to 3.95% of the gross value of the loans disposed;
- a junior tranche of 1.87 million euro, equal to 1.08% of the gross value of the loans disposed.

In order to obtain the deconsolidation of the loans disposed, according to the provisions of the applicable sector legislation, 95%, respectively, of the mezzanine and junior tranches, were successfully placed with institutional investors. The conditions for the derecognition of the transferred non-performing loan portfolio have therefore been met.

## Securitisations of performing loans

### CENTRO DELLE ALPI SME SELF-SECURITISATION

On 16 June 2023, Banca Popolare di Sondrio, as part of its management of medium-/long-term interbank funding, finalised a securitisation transaction of receivables arising from loans granted and yet to be granted to small and medium-sized enterprises for a total value of 3.2 billion euro. The transaction provides for the assignment without recourse, pursuant to Law 130 of 30 April 1999, of an initial portfolio of loans and additional portfolios of loans to the securitisation vehicle Centro delle Alpi SME S.r.l., which was set up for this purpose.

The transaction entailed the sale of an initial portfolio of loans – classified as “performing” in accordance with current supervisory regulations – for a gross book value of approximately 1,554 million euro, of which 40.9% were mortgages, 44.8% were unsecured loans guaranteed by the Central Guarantee Fund, and the remaining 14.3% were unsecured loans.

The SPV issued six classes of notes, all with a legal maturity of July 2060, for 1,576 million euro, divided into three tranches:

- a senior tranche, totalling 1,127 million euro, allocated as follows:
  - *Class A1*, outstanding amount 941 million euro (variable coupon);
  - *Class A2*, outstanding amount 73 million euro (fixed coupon);
  - *Class A3*, partly paid<sup>27</sup>, outstanding amount of 105 million euro (variable coupon);
  - *Class A4*, partly paid, outstanding amount of 8 million euro (fixed coupon);
- a mezzanine tranche of Class M securities, partly paid, outstanding amount 142 million euro (variable coupon);
- a junior tranche of Class J securities, partly paid, outstanding amount 307 million euro (fixed coupon).

<sup>27</sup> The partly paid notes are ABS bonds with principal not fully paid up at the time of issuance which provide for the payment of the remaining principal in one or more specified instalments. If a bearer of the notes fails to pay any instalment due by the due date, the issuing vehicle may renounce such notes without being subject to any further obligation to the bearer in respect thereof.



The senior and mezzanine notes are rated by the agencies DBRS Morningstar and Standard & Poor's. In particular:

- classes A1, A2, A3 and A4 were assigned ratings of A by both agencies;
- class M was assigned a rating of BB by the agency DBRS and a rating of BBB by the agency Standard & Poor's.

In addition, these securities were admitted to trading on the ExtraMOT PRO professional segment of the ExtraMOT market managed by Borsa Italiana. The junior class is unrated and unlisted.

All the notes were initially subscribed in full by the Bank, which can use them as collateral in its refinancing operations with the Eurosystem, thus configuring a transaction that can be defined as "self-securitisation"<sup>28</sup>. On 30 June 2023, the notes belonging to the senior tranche became ECB-eligible.

The transaction envisages, for a predefined period, the possibility for the originator bank to sell to the vehicle company further portfolios of loans with characteristics similar to the loans of the first portfolio sold up to the total value of the transaction (revolving period), in compliance with specific eligibility conditions and concentration limits, which may be financed through the collections of the loans included in the portfolios purchased, or through further drawdowns of ABS securities against the partly paid notes already issued.

Since the Bank retains all risks and rewards from the securitisation, the transaction does not qualify as a transfer of risk. Therefore, the conditions for the derecognition of the securitised receivables are not met and, as a result, the assigned assets will continue to be presented in the Parent Company and consolidated financial statements.

In addition to being the originator of the securitisation transaction, the Bank performs the role of servicer on behalf of the special purpose vehicle, entailing the performance of the administration, management, collection and recovery services of the assigned loans and, more generally, the performance of all the activities envisaged and governed in the contract originally signed with the borrowers. For these activities, the Bank collects servicing fees from the vehicle.

As at 31 December 2023, the value of the notes subscribed by the Bank decreased to 949 million euro for senior securities, but remained unchanged at 142 million euro for mezzanine securities and at 307 million euro for junior securities.

## Third-party securitisations

The Group holds, as an investor, exposures in ABS securities related to traditional (not synthetic) securitisations, all of the "Senior" type and deriving from third-party transactions. Such investments, held entirely for purposes other than trading, are classified for accounting purposes in "Financial assets mandatorily measured at fair value" and "Financial assets measured at amortised cost". No guarantees or credit lines are provided on these transactions.

As regards the methods of calculating risk-weighted exposures, note that the assets deriving from third-party securitisations are subject to a specific capital requirement in the context of credit and counterparty risk, determined by the Group in application of the SEC-SA standardised methodology (art. 261 of Regulation (EU) 2401/2017, as amended).

<sup>28</sup> Credit self-securitisations are transactions carried out with the objective of achieving an improvement in liquidity risk management by optimising the amount of assets immediately available to meet liquidity needs. The assigning Bank's direct and full underwriting of the securities issued by the vehicles, while not allowing it to obtain direct liquidity from the market, nevertheless provides securities that can be used for refinancing operations with the Central Bank and for repurchase agreements on the market, improving the safety margin against the liquidity risk of the originator. These disposals typically do not have any economic impact on the bank balance sheet: the assigned assets continue to be shown under assets, while subscribed securities are not represented.

Since, in almost all cases, the ABS securities held in portfolio do not have an external credit rating (ECAI rating) but given full knowledge of the assets underlying the related investments, the aforementioned SEC-SA methodology is applicable to them, which is largely based on the availability of information on the riskiness of the underlying assets from which the related capital requirement derives. This latter element, together with the presence of other information related to the securitisation (such as, for example, attachment/detachment points), allows the application of the calculation algorithm foreseen by the SEC-SA approach.

\* \* \*

The tables below show the Group's exposure to securities deriving from its own and third-party securitisations as at 31 December 2023.

**Table 133** - Template EU SEC1: Securitisation exposures in the non-trading book (1 of 3)

		a	b	c	d	e
		Institution acts as originator				
		Traditional				
		STS		Non-STS		Synthetic
		of which SRT		of which SRT		
<b>1</b>	<b>TOTAL EXPOSURES</b>	-	-	93,395	93,395	578,761
<b>2</b>	<b>Retail (total)</b>	-	-	49,367	49,367	-
3	residential mortgage	-	-	-	-	-
4	credit card	-	-	-	-	-
5	other retail exposures	-	-	49,367	49,367	-
6	re-securitisation	-	-	-	-	-
<b>7</b>	<b>Wholesale (total)</b>	-	-	44,028	44,028	578,761
8	loans to corporates	-	-	-	-	578,761
9	commercial mortgage	-	-	-	-	-
10	lease and receivables	-	-	-	-	-
11	other wholesale	-	-	44,028	44,028	-
12	re-securitisation	-	-	-	-	-

Source: COREP reporting framework - Detailed information on securitisation: Templates C 14.00 - C 14.01



**Table 134** - Template EU SEC1: Securitisation exposures in the non-trading book (1 of 3)

		f	g	h	i	j
		Institution acts as originator		Institution acts as sponsor		
		Sub-total	Sub-total	Traditional		Synthetic
		di cui SRT		STS	Non-STS	
1	<b>TOTAL EXPOSURES</b>	578,761	672,156	-	-	-
2	<b>Retail (total)</b>	-	49,367	-	-	-
3	residential mortgage	-	-	-	-	-
4	credit card	-	-	-	-	-
5	other retail exposures	-	49,367	-	-	-
6	re-securitisation	-	-	-	-	-
7	<b>Wholesale (total)</b>	578,761	622,789	-	-	-
8	loans to corporates	578,761	578,761	-	-	-
9	commercial mortgage	-	-	-	-	-
10	lease and receivables	-	-	-	-	-
11	other wholesale	-	44,028	-	-	-
12	re-securitisation	-	-	-	-	-

Source: COREP reporting framework - Detailed information on securitisation: Templates C 14.00 - C 14.01

**Table 135** - Template EU SEC1: Securitisation exposures in the non-trading book (2 of 3)

		k	l	m	n	o
		Institution acts as sponsor		Institution acts as investor		
		Sub-total	Traditional		Synthetic	Sub-total
			STS	Non-STS		
1	<b>TOTAL EXPOSURES</b>	-	4,664	469,779	-	474,443
2	<b>Retail (total)</b>	-	4,664	16,032	-	20,696
3	residential mortgage	-	-	-	-	-
4	credit card	-	-	-	-	-
5	other retail exposures	-	4,664	16,032	-	20,696
6	re-securitisation	-	-	-	-	-
7	<b>Wholesale (total)</b>	-	-	453,746	-	453,746
8	loans to corporates	-	-	-	-	-
9	commercial mortgage	-	-	-	-	-
10	lease and receivables	-	-	453,746	-	453,746
11	other wholesale	-	-	-	-	-
12	re-securitisation	-	-	-	-	-

Source: COREP reporting framework - Detailed information on securitisation: Templates C 14.00 - C 14.01

Investments in traditional securitisations in the portfolio do not include Asset-Backed Commercial Paper (ABCP) programs<sup>29</sup>.

<sup>29</sup> An Asset-Backed Commercial Paper (ABCP) is a short-term money market debt instrument secured by a package of loans. ABCP are issued by a vehicle (SPV) and are sold through placement agents.

**Table 136** - Template EU SEC2: Securitisation exposures in the trading book

The template is not subject to publication given the absence of exposures to securitisation included in the trading book.

**Table 137** - Template EU SEC3 - Securitisation exposures in the non-trading book and associated regulatory capital requirements - institution acting as originator or as promoter (1 of 3)

		a	b	c	d	e
		Exposure values (by RW bands/deductions)				
		RW	RW >20% to 50%	RW >50% to 100%	RW >100% to <1250%	1250% RW/ deductions
<b>1</b>	<b>TOTAL EXPOSURES</b>	<b>578,761</b>	-	<b>92,288</b>	-	<b>1,107</b>
<b>2</b>	<b>Traditional transactions</b>	-	-	<b>92,288</b>	-	<b>1,107</b>
3	Securitisation	-	-	92,288	-	1,107
4	<i>Retail underlying</i>	-	-	48,387	-	980
5	Of which STS	-	-	-	-	-
6	<i>Wholesale</i>	-	-	43,901	-	127
7	Of which STS	-	-	-	-	-
8	Re-securitisation	-	-	-	-	-
<b>9</b>	<b>Synthetic transactions</b>	<b>578,761</b>	-	-	-	-
10	Securitisation	578,761	-	-	-	-
11	<i>Retail underlying</i>	-	-	-	-	-
12	<i>Wholesale</i>	578,761	-	-	-	-
13	Re-securitisation	-	-	-	-	-

Source: COREP reporting framework - Detailed information on securitisation: Templates C 14.00 - C 14.01



**Table 138** - Template EU SEC3 - Securitisation exposures in the non-trading book and associated regulatory capital requirements - institution acting as originator or as promoter (2 of 3)

		f	g	h	i	j	k
		Exposure values (by regulatory approach)			RWEA (by regulatory approach)		
		SEC-IRBA	SEC-ERBA (including IAA)	SEC-SA	1250% RW /deductions	SEC-IRBA	SEC-ERBA (including IAA)
<b>1</b>	<b>TOTAL EXPOSURES</b>	<b>578,761</b>	<b>92,288</b>	<b>-</b>	<b>1,107</b>	<b>86,814</b>	<b>83,059</b>
<b>2</b>	<b>Traditional transactions</b>	<b>-</b>	<b>92,288</b>	<b>-</b>	<b>1,107</b>	<b>-</b>	<b>83,059</b>
3	Securitisation	-	92,288	-	1,107	-	83,059
4	<i>Retail underlying</i>	-	48,387	-	980	-	43,548
5	Of which STS	-	-	-	-	-	-
6	<i>Wholesale</i>	-	43,901	-	127	-	39,511
7	Of which STS	-	-	-	-	-	-
8	Re-securitisation	-	-	-	-	-	-
<b>9</b>	<b>Synthetic transactions</b>	<b>578,761</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>86,814</b>	<b>-</b>
10	Securitisation	578,761	-	-	-	86,814	-
11	<i>Retail underlying</i>	-	-	-	-	-	-
12	<i>Wholesale</i>	578,761	-	-	-	86,814	-
13	Re-securitisation	-	-	-	-	-	-

Source: COREP reporting framework - Detailed information on securitisation: Templates C 14.00 - C 14.01

**Table 139** - Template EU SEC3 - Securitisation exposures in the non-trading book and associated regulatory capital requirements - institution acting as originator or as promoter (3 of 3)

		l	m	n	o	EU-p	EU-q
		RWEA (by regulatory approach)		Capital charge after cap			
		SEC-SA	1250% RW	SEC-IRBA	SEC-ERBA (including IAA)	SEC-SA	1250% RW
<b>1</b>	<b>TOTAL EXPOSURES</b>	<b>-</b>	<b>13.837</b>	<b>6.945</b>	<b>6.645</b>	<b>-</b>	<b>1.107</b>
<b>2</b>	<b>Traditional transactions</b>	<b>-</b>	<b>13.837</b>	<b>-</b>	<b>6.645</b>	<b>-</b>	<b>1.107</b>
3	Securitisation	-	13.837	-	6.645	-	1.107
4	<i>Retail underlying</i>	-	12.245	-	3.484	-	980
5	Of which STS	-	-	-	-	-	-
6	<i>Wholesale</i>	-	1.593	-	3.161	-	127
7	Of which STS	-	-	-	-	-	-
8	Re-securitisation	-	-	-	-	-	-
<b>9</b>	<b>Synthetic transactions</b>	<b>-</b>	<b>-</b>	<b>6.945</b>	<b>-</b>	<b>-</b>	<b>-</b>
10	Securitisation	-	-	6.945	-	-	-
11	<i>Retail underlying</i>	-	-	-	-	-	-
12	<i>Wholesale</i>	-	-	6.945	-	-	-
13	Re-securitisation	-	-	-	-	-	-

Source: COREP reporting framework - Detailed information on securitisation: Templates C 14.00 - C 14.01

**Table 140** - Template EU SEC4 - Securitisation exposures in the non-trading book and associated regulatory capital requirements - institution acting as investor (1 of 3)

		a	b	c	d	e	f	
		Exposure values (by RW bands/deductions)					Exposure values (by regulatory approach)	
		RW ≤20%	SEC- IRBA	RW >50% to 100%	RW >100% to <1250%	1250% RW/ deductions	SEC-IRBA	
<b>1</b>	<b>TOTAL EXPOSURES</b>	<b>458,411</b>	-	-	<b>16,032</b>	-	-	
<b>2</b>	<b>Traditional transactions</b>	<b>458,411</b>	-	-	<b>16,032</b>	-	-	
3	Securitisation	458,411	-	-	16,032	-	-	
4	<i>Retail underlying</i>	4,664	-	-	16,032	-	-	
5	Of which STS	4,664	-	-	-	-	-	
6	<i>Wholesale</i>	453,746	-	-	-	-	-	
7	Of which STS	-	-	-	-	-	-	
8	Re-securitisation	-	-	-	-	-	-	
<b>9</b>	<b>Synthetic transactions</b>	-	-	-	-	-	-	
10	Securitisation	-	-	-	-	-	-	
11	<i>Retail underlying</i>	-	-	-	-	-	-	
12	<i>Wholesale</i>	-	-	-	-	-	-	
13	Re-securitisation	-	-	-	-	-	-	

Source: COREP reporting framework - Detailed information on securitisation: Templates C 14.00 - C 14.01



**Table 141** - Template EU SEC4 - Securitisation exposures in the non-trading book and associated regulatory capital requirements: institution acting as investor (2 of 3)

		g	h	i	j	k
		Exposure values (by regulatory approach)			RWEA (by regulatory approach)	
		SEC-ERBA (including IAA)	SEC-SA	1250% RW/ deductions	SEC-IRBA	SEC-ERBA (including IAA)
<b>1</b>	<b>TOTAL EXPOSURES</b>	-	474,443	-	-	-
<b>2</b>	<b>Traditional transactions</b>	-	474,443	-	-	-
3	Securitisation	-	474,443	-	-	-
4	<i>Retail underlying</i>	-	20,696	-	-	-
5	Of which STS	-	4,664	-	-	-
6	<i>Wholesale</i>	-	453,746	-	-	-
7	Of which STS	-	-	-	-	-
8	Re-securitisation	-	-	-	-	-
<b>9</b>	<b>Synthetic transactions</b>	-	-	-	-	-
10	Securitisation	-	-	-	-	-
11	<i>Retail underlying</i>	-	-	-	-	-
12	<i>Wholesale</i>	-	-	-	-	-
13	Re-securitisation	-	-	-	-	-

Source: COREP reporting framework - Detailed information on securitisation: Templates C 14.00 - C 14.01

**Table 142** - Template EU SEC4 - Securitisation exposures in the non-trading book and associated regulatory capital requirements: institution acting as investor (3 of 3)

		l	m	n	o	EU-p	EU-q
		RWEA (by regulatory approach)		Capital charge after cap			
		SEC-SA	1250% RW	SEC-IRBA	SEC-ERBA (including IAA)	SEC-SA	1250% RW
<b>1</b>	<b>TOTAL EXPOSURES</b>	220.759	-	-	-	6.722	-
<b>2</b>	<b>Traditional transactions</b>	220.759	-	-	-	6.722	-
3	Securitisation	220.759	-	-	-	6.722	-
4	<i>Retail underlying</i>	152.697	-	-	-	1.277	-
5	Of which STS	466	-	-	-	37	-
6	<i>Wholesale</i>	68.062	-	-	-	5.445	-
7	Of which STS	-	-	-	-	-	-
8	Re-securitisation	-	-	-	-	-	-
<b>9</b>	<b>Synthetic transactions</b>	-	-	-	-	-	-
10	Securitisation	-	-	-	-	-	-
11	<i>Retail underlying</i>	-	-	-	-	-	-
12	<i>Wholesale</i>	-	-	-	-	-	-
13	Re-securitisation	-	-	-	-	-	-

Source: COREP reporting framework - Detailed information on securitisation: Templates C 14.00 - C 14.01



**Table 143** - Template EU SEC5 - Exposures securitised by the institution - Exposures in default and specific credit risk value adjustments

		a	b	c
		Exposures securitised by the institution - Institution acts as originator or as sponsor		
		Total outstanding nominal amount		Total amount of specific credit risk adjustments made during the period
			Of which exposures in default	
<b>1</b>	<b>TOTAL EXPOSURES</b>	<b>4,161,903</b>	<b>2,232,298</b>	<b>35,067</b>
<b>2</b>	<b>Retail (total)</b>	<b>3,310,284</b>	<b>1,988,532</b>	<b>25,694</b>
3	residential mortgage	-	-	-
4	credit card	-	-	-
5	other retail exposures	3,310,284	1,988,532	25,694
6	re-securitisation	-	-	-
<b>7</b>	<b>Wholesale (total)</b>	<b>851,619</b>	<b>243,766</b>	<b>9,373</b>
8	loans to corporates	609,084	1,230	9,373
9	commercial mortgage	-	-	-
10	lease and receivables	-	-	-
11	other wholesale	242,535	242,535	-
12	re-securitisation	-	-	-

Source: COREP reporting framework - Detailed information on securitisation: Template C 14.00

Key:

- *SEC-SA (Standardised Approach)*: basic approach to determining the capital requirement for credit risk on securitisation exposures under Regulation (EU) 2401/2017.
- *SEC-IRBA (Internal Rating Based Approach)*: an approach to determining the capital requirement for credit risk on securitisation exposures required by Regulation (EU) 2401/2017 based on the use of internal ratings.
- *SEC-ERBA (External Rating Based Approach)*: basic approach to determining the capital requirement for credit risk on securitisation exposures under Regulation (EU) 2401/2017.
- *IAA (Internal Assessment Approach)*: an approach used to calculate the weight of exposures arising from Asset-Backed Commercial Paper (ABCP) programs without an external rating. The weighting factors depend on the "equivalent external rating".



# Section 15

## Disclosure of operational risk management (art. 446 CRR/CRR II)

In compliance with the regulatory provisions laid down by current EU regulations, the Group determines the capital requirements against operational risk through the standardised measurement approach (TSA, Traditional Standardised Approach). In this, the capital requirement is determined as the three-year average of the sums - having zero or positive value (or equal to zero in case of a negative value) - of the last three year-end observations of the components making up the so-called "Relevant Indicator," appropriately classified into the regulatory business lines applicable to the company's operations and weighted according to specific multiplier coefficients defined in article 317 of Regulation (EU) No 575/2013 (CRR). The following principles set forth in art. 318 of Regulation (EU) No. 575/2013 are also complied with:

Line of activities	List of activities (not exhaustive)	Coefficient
Corporate finance services	<ul style="list-style-type: none"> <li>■ Underwriting of financial instruments or placement of financial instruments on the basis of irrevocable commitment</li> <li>■ Services related to retained employment</li> <li>■ Investment consulting</li> <li>■ Advice to companies on capital structure, business strategy and related matters as well as advice and services concerning mergers and purchase of companies</li> <li>■ Investment research and financial analysis and other general advice concerning financial instrument transactions</li> </ul>	18%
Trading and sales	<ul style="list-style-type: none"> <li>■ Own account trading</li> <li>■ Receiving and sending orders for one or more financial instruments</li> <li>■ Execution of orders on behalf of customers</li> <li>■ Placement of financial instruments without irrevocable commitment</li> <li>■ Management of multilateral trading systems</li> </ul>	18%
Retail brokerage	<ul style="list-style-type: none"> <li>■ Receiving and sending orders for one or more financial instruments</li> <li>■ Execution of orders on behalf of customers</li> <li>■ Placement of financial instruments without irrevocable commitment</li> </ul>	12%
Commercial banking	<ul style="list-style-type: none"> <li>■ Collection of deposits or other repayable funds</li> <li>■ Loan transactions</li> <li>■ Finance leases</li> <li>■ Issuance of guarantees and signing commitments</li> </ul>	15%
Retail banking	<ul style="list-style-type: none"> <li>■ Collection of deposits or other repayable funds</li> <li>■ Loan transactions</li> <li>■ Finance leases</li> <li>■ Issuance of guarantees and signing commitments</li> </ul>	12%
Payment and settlement	<ul style="list-style-type: none"> <li>■ Payment services</li> <li>■ Issuing and managing means of payment</li> </ul>	18%
Agency services	<ul style="list-style-type: none"> <li>■ Custody and administration of financial instruments on behalf of customers, including custody and related services such as cash/collateral management</li> </ul>	15%
Asset management	<ul style="list-style-type: none"> <li>■ Portfolio management</li> <li>■ Management of UCITS</li> <li>■ Other forms of asset management</li> </ul>	12%

The following principles set forth in art. 318 of Regulation (EU) No. 575/2013 are also complied with:

- all activities are mapped into the business lines exclusively and comprehensively, with a view to preventing the components of profitability attributable to the same business line from being attributed to more than one business line;
- any activity that cannot be readily allocated or that is ancillary to a main activity attributable to a specific business line follows the allocation criteria provided for the main activity;
- an objective criterion for classifying ancillary activities that fall under more than one line of business is used;
- where an activity cannot be mapped into a specific business line, the business line and any ancillary activities are allocated to the business line with the highest regulatory ratio, with a view to ensuring greater prudence in capital requirement calculation activities;
- internal pricing methods may be used for the purpose of attributing the Relevant Indicator to different business lines, in order to re-attribute costs produced in one business line that are attributable to a different business area and to appreciate the actual contribution of business activities;
- the allocation of assets to different business lines must be consistent with the classifications adopted for credit and market risks, with particular reference to customer segmentation criteria.

**Table 144** - Template EU OR1: Operational risk own funds requirements and risk-weighted exposure amounts

BANKING ACTIVITIES		a	b	c	d	e
		Relevant indicator			Own funds requirements	Risk exposure amount
		Year-3	Year-2	Last year		
1	Banking activities subject to basic indicator approach (BIA)	-	-	-	-	-
2	Banking activities subject to standardised (TSA) / alternative standardised (ASA) approaches	1,010,364	1,143,848	1,518,766	179,781	2,247,257
3	Subject to TSA:	1,010,364	1,143,848	1,518,766		
4	Subject to ASA:	-	-	-		
5	Banking activities subject to advanced measurement approaches AMA	-	-	-	-	-

Source: COREP reporting framework - Operational Risk: Template C 16.00

\* \* \*

For a description of the strategies, processes, and governance structure for managing operational risk, as well as the measurement systems adopted, see Section 2 above.



# Section 16

## Disclosure of the use of the standardised approach to market risk (art. 445 CRR/CRR II)

This section provides quantitative evidence on the components of the market risk capital requirement based on the use of the supervisory “Standardised Approach” to which the Group is subject as at 31 December 2023.

**Table 145** - Template EU MR1: Market risk under the standardised approach

		31/12/2023	31/12/2022
		a	b
		RWEA	RWEA
<b>Outright products</b>			
1	Interest rate risk (general and specific)	45,308	216,915
2	Equity risk (general and specific)	436,466	364,037
3	Foreign exchange risk	236,430	183,152
4	Commodity risk	3,132	4,223
<b>Options</b>			
5	Simplified approach	-	-
6	Delta-plus approach	1,169	1,555
7	Scenario approach	-	-
8	Securitisation (specific risk)	-	-
<b>9</b>	<b>TOTAL</b>	<b>722,504</b>	<b>769,882</b>

Fonte: Base segnaletica COREP - Adeguatezza patrimoniale: Modello C 02.00 e Rischio di mercato: Modelli C 18.00 - C 21.00 - C 22.00 - C 23.00

The Group does not adopt the “Internal Model Approach” (IMA) for measuring its exposures to market risk for the purposes of determining capital requirements. Therefore, the following Pillar 3 template to which the Group would be subject pursuant to article 438, letter h), of the CRR is not subject to publication:

**Template EU MR2-B: RWEA flow statements of market risk exposures under the IMA**

\* \* \*

For a description of the strategies, processes, and governance structure for managing market risk, as well as the measurement systems adopted, see Section 2 above.

## Section 17

# Disclosure of exposures to interest rate risk on positions not held in the trading book (art. 448 CRR/CRR II)

The interest rate risk originating from the banking book is given by the possibility that an unexpected change in market interest rates negatively affects the economic value of shareholders' equity ("value" approach or economic value perspective) as well as the profitability of the Group (margin approach or current earnings perspective).

The set of assets and liabilities included in the risk exposure measurements coincides with instruments generating net interest income other than debt securities belonging to the regulatory trading portfolio, foreign exchange forwards, interest rate options and interest rate swaps belonging to the regulatory trading portfolio.

A definition of interest rate risk arising from the banking book, together with a description of the associated measurement, mitigation and control processes, is provided in Section 2 of this document.

The monitoring of interest rate risk is based on a set of indicators and a dedicated system of limits and thresholds aimed at guarding against the risk both from the perspective of economic value (indicators "EVE" - Economic Value of Equity) and from the perspective of net interest income and current earnings (indicator "NII" - Net Interest Income).

In particular, the monitoring framework includes: a) two primary level (Level 1) RAF indicators, of a "regulatory" nature; b) two additional complementary level (Level 2) risk indicators, represented by measures of a "managerial" nature; c) a third group of operational level (Level 3) risk indicators of a "managerial" nature.

With reference to the "management" measures, the exposure to interest rate risk is quantified, both in terms of sensitivity of the economic value of shareholders' equity and as sensitivity of net interest income and current profit, considering the evolution scenarios envisaged by the industry guidelines, i.e the six rate scenarios (shocks) described in the Regulatory Technical Standards EBA/RTS/2022/10 published by the European Banking Authority.

Furthermore, two further hypothetical rate movement scenarios are simulated, designed by the Bank itself, aimed at respectively capturing future market expectations ("ongoing" scenario) and specific particularly adverse situations that have occurred in the past ("historical" scenario).

The quarterly analyses dedicated to the calculation of the "regulatory" metrics, the "Supervisory Outlier Test", are carried out by applying the shocks set out in the Regulatory Technical Standards EBA/RTS/2022/10. More specifically, the Economic Value of Equity (EVE) regulatory metric is calculated by applying the entire set of shocks mentioned, while for the Net Interest Income (NII) regulatory metric, only the two parallel scenarios are applied.



Additional specific prospective rate trend scenarios, contextualised to the market conditions prevailing at the time, are used in the ICAAP stress testing of the main capital, income and financial variables to determine the impacts:

- on the net economic value of assets and liabilities in the banking book;
- on the total net interest income generated by the banking book items and the trading portfolio securities.

The calculation of risk indicators and the verification of compliance with the relevant system of limits and monitoring thresholds take place on a monthly basis, with the exception of the “regulatory” metrics laid down in the sector guidelines published by the European Banking Authority (EBA), for which monitoring takes place on a quarterly basis. In the event of threshold/limit violations, there are differentiated escalation processes according to the RAF level to which the metrics belong.

The Audit function ensures the adequacy of interest rate risk management arrangements and compliance with existing internal and regulatory standards. The Validation function periodically carries out an independent assessment of the correct application of the measurement methodologies used, also verifying the validity of the assumptions in use in the so-called “behavioural models” implemented by the Bank for a more accurate quantification of interest rate risk measures (described in more detail in Section 2 above)<sup>30</sup>.

The ALM and Investment Committee establishes asset and liability balancing actions to ensure compliance with current interest rate risk targets by, among other things, matching strategies at maturity or repricing dates of assets and liabilities and possible risk hedging strategies through the use of derivative financial instruments.

The guidelines concerning the policies for the measurement, management and control of interest rate risk, as well as aspects relating to the methodology in use and governance are defined in a specific policy document approved by the Bank’s Board of Directors.

The Group, when planning its commercial strategies for the collection and deployment of funds from customers, as well as when defining its proprietary investment policies in financial assets and equity investments, pays particular attention to balancing the interest rate risk profile that can be seen across the entire financial statements. The aim of these guidelines is to limit the potential impact on economic capital and income results of any fluctuations in market rates, thereby pursuing direct hedging of interest rate risk between asset and liability transactions. When the commercial dynamics that characterise the banking business generate an exposure that is not in line with the risk propensity, the Group implements the appropriate containment measures by resorting to instruments and techniques suitable for bringing the interest rate risk profile within the desired levels. In relation to this, starting in the financial year 2022, the Bank launched specific initiatives to hedge the interest rate risk arising from the disbursement of fixed-rate mortgages (so-called “Macro Fair Value Hedging”) through the signing with market counterparties of dedicated Interest Rate Swap contracts with specific characteristics of duration, amount and rate aligned to the pools of loans being hedged.

The loan relationships in euro granted by the Bank and, consequently, their cash flow profile and average repricing maturity are modelled using a statistical approach called “Survival analysis - Full Accelerated Life Model”, aimed at predicting the impact on the amount of interest rate risk arising from the early repayment of loans (pre-payment) depending on the interest rate scenarios taken into account in the risk measures.

<sup>30</sup> The assumptions and parameters of the “behavioural models” used for the internal measurement systems are the same as those used to generate the regulatory exposures published in the EU IRRBB1 table below.



The survival analysis of active mortgages makes use of a specific behavioural model for different “replication portfolios”, i.e. identified clusters of assets differentiated by rate type, loan type and outstanding debt amount. The model assumes that the effect of a key variable can accelerate or decelerate the financial duration of a loan; the variables considered in the modelling are of the following types:

- qualitative (macro-area and sector of economic activity of the borrower, geographical area of the borrower, residual life of the loan, amount of loan debt, age of the borrower, plus an additional variable aimed at capturing, for each loan, the presence of at least one partial early repayment event in the time series);
- macroeconomic (domestic product growth rate, unemployment rate, house price growth rate, inflation rate);
- quantitative (coupon incentive).

The financial profile and average repricing maturity of the so-called “on-demand items” assets (Non-Maturing Assets - NMA) and liabilities (Non-Maturing Deposits - NMD) denominated in euro of the Parent Company and those denominated in euro and Swiss franc of the subsidiary Banca Popolare di Sondrio (SUISSE) are in turn treated using two different behavioural statistical models. The first, called “Minimum Probable Amount”, models the expected persistence of asset and liability volumes with no contractual maturity. The second, on the other hand, provides probabilistic estimates of the evolution of the rate conditions applied to “on-demand items”.

The combination of the two models makes it possible to determine the average repricing duration of the balance sheet liabilities subject to behavioural modelling.

At 31 December 2023, this maturity for “on-demand items” payable, in euro, was 3.05 years, net of the volatile component, and 2.43 years if overnight transactions are also taken into account (maximum permissible maturity: 20 years). For Swiss franc-denominated “on-demand items” payable, on the other hand, the average repricing term is equivalent to 5.54 years, net of the volatile component; however, if the overnight portion is also taken into account, the average repricing term is reduced to 4.74 years (maximum permissible term: 18 years).

\* \* \*

The table below shows the expected quantitative effects of a change in rates on the future net interest income<sup>31</sup> over a twelve-month period and on the value of the shareholders’ equity<sup>32</sup>, expressed in thousands of euro and obtained with reference to 31 December 2023 on the basis of rate scenarios defined in Regulatory Technical Standards EBA/RTS/2022/10.

The measures set out in the table are in line with those reported by Banca Popolare di Sondrio for the purposes of the periodic supervisory reporting called Short-Term Exercise (STE).

The change in the economic value of total equity is calculated as the sum of the changes obtained in each currency identified as material (Euro and Swiss Franc) by weighting at 50% any “positive contributions” as prescribed in the Regulatory Technical Standards.

<sup>31</sup> The “future net interest income” is understood as being the difference between the future interest revenues and the future interest expense, calculated on an annual analysis horizon, maintaining the same volumes.

<sup>32</sup> “Equity” is defined as the difference between the present value of total assets and liabilities, computed on the reference date, assuming inertial volumes.



The change in future net interest income is calculated on each currency identified as material (Euro and Swiss franc) weighting any “positive contributions” at 50% and using two parallel upwards and downwards scenarios differentiated by currency as defined in the Regulatory Technical Standards.

**Table 146** - Template EU IRRBB1: Interest rate risk of non-trading book activities

Supervisory shock scenarios	a	b	c	d
	Changes of the economic value of equity		Changes of the net interest income	
	Current period (2023)	Last period (2022)	Current period (2023)	Last period (2022)
1. Parallel up	51,935	(109,712)	50,070	45,610
2. Parallel down	(142,825)	69,006	(76,480)	(21,682)
3. Steepener	73,983	61,359		
4. Flattener	(62,780)	(110,855)		
5. Short rates up	(23,917)	(135,687)		
6. Short rates down	48,620	81,487		

Source: internal information

The change in the economic value of equity at 31 December 2023 differs significantly from the figures recorded at the end of the previous year as a result of a combination of two main factors.

The first contributing cause relates to the modelling of the “on-demand items” and, specifically, to the findings of a special re-estimation that took place during the year. In addition, a new framework of managerial initiatives was applied downstream of the estimation process to give a more consistent representation of the current interest rate environment as well as more prudential modelling of volumes in order to take into account the repercussions that the stability of the rates applied by the Bank may have on the stability of funding volumes.

A second influencing factor concerns the risk-free interest rate curves by maturity, in particular those in the material currencies euro and Swiss franc, for which a change in shape and level was observed in 2023. Specifically, an increase in the level of the curves on short maturities was noted, as the main consequence of the Central Banks’ monetary policy decisions, along with a decrease, especially in the last months of 2023, in the level of rates on medium-to-long maturities.

With regard to the estimates of the change in net interest income as at 31 December 2023 in relation to those drawn up as at the end of 2022, they are not directly comparable, as the measures referring to 31 December 2023 take into account the 50% weighting of the aforementioned “positive contributions” in the calculation of the risk exposure volumes, which was not previously applied, as well as parallel upward and downward scenarios differentiated by currency (at the end of 2022, the scenarios applied involved a parallel rise and fall of 200 basis points not differentiated by currency) based on the aforementioned weighting.

In the “Parallel Down” scenario, an increase in the exposure measure is observed, mainly attributable to the lower sensitivity of the on-demand funding items to changes in market rates, which therefore limits the benefit brought by liabilities in a scenario involving a reduction in the level of rates. In the “Parallel Up” scenario, the same transactions would lead to a higher gain than at the end of 2022, which is however lower and in line with the previous recording following the aforementioned weighting of “positive contributions”.



## Section 18

# Disclosure of encumbered and unencumbered assets (art. 443 CRR/CRR II)

At 31 December 2023, the transactions for which the Group encumbers a part of its financial assets or assets received as collateral on the reference date mainly refer to the following cases:

- “ABACO” mortgage loans pledged to guarantee refinancing operations with the European Central Bank (38.1% of the total);
- securities pledged for repurchase agreements (33.6% of the total);
- mortgage loans pledged to obtain advances (11.4% of the total);
- residential mortgage loans included in cover pools to guarantee outstanding covered bond issues (10.8% of the total);
- securities pledged to guarantee refinancing operations with the European Central Bank (2.5% of the total);
- securities pledged to the retirement and pension/assistance fund (0.7% of the total);
- securities pledged to obtain mortgage loans from the European Investment Bank (EIB) (0.7% of the total);
- securities pledged to associated/subsidiary companies (0.6% of the total);
- own securities pledged for the issue of cashier’s cheques (0.4% of the total);
- securities pledged for trading in derivatives on regulated markets (0.4% of the total);
- other securities and assets pledged (0.9% of the total).

At 31 December 2023, sources of liabilities obtained by the Group for the assets subject to encumbrance are mainly composed of:

- funding from repurchase agreements (47.5% of the total);
- advanced obtained from the European Central Bank (40.2% of the total);
- other advances payable (6.5% of the total);
- covered bond issues (4.3% of the total);
- cashier’s cheques in circulation (0.8% of the total);
- mortgage loans from the European Investment Bank (EIB) (0.7% of the total).

The use of guarantees in the context of collateralised financing transactions normally requires that the value of the pledged assets is at all times higher than the amount of the funds raised. In particular, also as part of the Covered Bond Issuance Programme implemented by the Group, it is expected that an additional portion of the pledged portfolio will be kept to cover the bonds issued in order to preserve a stated level of over-collateralisation. At 31 December 2023, the amount of the “cover pool” (residential mortgages) bound to guarantee the outstanding issues exceeds by 1,447.7 million euro (equal to 76.5% of the value of the cover pool at 31 December 2023) the minimum coverage requirement of the regulatory regime for maintaining the current rating by the appointed agency, and by 1,013.7 million euro (equal to 53.5% of the value of the cover pool as at 31 December 2023) the highest minimum amount to maintain the rating established on a voluntary basis under the Programme.



The Group monitors with specific management indicators the share of financial assets committed under its contingency and recovery plans. Appropriate attention and early warning thresholds are established in order to promote timely action in the event of an excessive increase in the risk associated with the proportion of captive assets, i.e. resulting from the unavailability of assets that can be readily liquidated through sale, repurchase, disposal under guarantee or securitisation. The performance of these asset encumbrance indicators is reported to the Management and Governing Bodies through production of regular disclosures.

Operations that originate encumbered assets are mainly placed by the Parent Company (about 89%). The subsidiary BPS (SUISSE) contributes to the Group's total encumbered assets to a secondary extent (about 11%). Encumbered assets pertaining to the Swiss investee are denominated in a currency other than the euro (mainly CHF); however, there is no material exposure to exchange rate risk, since the liabilities deriving from the assets subject to encumbrance are denominated in the same currency.

At the intragroup level, we note the establishment by Banca Popolare di Sondrio in favour of its Swiss subsidiary of a security deposit in securities with the Swiss Clearing House aimed at ensuring the adequate development of the subsidiary's operations, in adherence to the prudential orientation of the local Financial Markets Supervisory Authority (FINMA) aimed at protecting Swiss institutions from any negative performance of the parent companies.

The quantitative information shown in the tables below is based on the median values of the quarterly records for 2023. The exposure values considered in the statements are in accordance with the recognition criteria for assets and liabilities disclosed in the financial statements.

It is also specified that the scope of consolidation considered for the purposes of this disclosure on encumbered assets and that used for the application of liquidity requirements on a consolidated basis in accordance with Part Two, Title I, Chapter 2, of the CRR with reference to the definition of the eligibility of EHQLA and HQLA assets are given, for both disclosures, by the entire perimeter of companies belonging to the Banking Group.

**Table 147** - Template EU AE1: Encumbered and unencumbered assets (1 of 2)

		Carrying amount of encumbered assets		Fair value of encumbered assets	
		of which notionally eligible EHQLA and HQLA		of which notionally eligible EHQLA and HQLA	
		010	030	040	050
010	ASSETS OF THE REPORTING INSTITUTION	16,594,027	5,141,736	-	-
030	Equity instruments	16,169	-	16,169	-
040	Debt securities	6,033,896	5,141,736	5,988,531	5,103,878
050	<i>of which: covered bonds</i>	61,155	59,163	54,121	52,130
060	<i>of which: asset-backed securities</i>	-	-	-	-
070	<i>of which: issued by general governments</i>	5,029,435	4,977,746	4,995,241	4,947,493
080	<i>of which: issued by financial corporations</i>	1,335,606	160,827	1,309,743	147,444
090	<i>of which: issued by non-financial corporations</i>	29,213	9,185	29,004	9,154
120	Other assets	10,488,410	-	-	-

**Table 148** - Template EU AE1: Encumbered and unencumbered assets (2 of 2)

		Carrying amount of unencumbered assets		Fair value of unencumbered assets	
		of which EHQLA and HQLA		of which EHQLA and HQLA	
		060	080	090	100
<b>010</b>	<b>ASSETS OF THE REPORTING INSTITUTION</b>	<b>38,812,389</b>	<b>7,115,530</b>	-	-
030	Equity instruments	439,133	6,245	765,052	6,245
040	Debt securities	8,040,826	6,616,138	7,826,009	6,457,486
050	<i>of which: covered bonds</i>	<i>159,914</i>	<i>152,409</i>	<i>153,840</i>	<i>146,581</i>
060	<i>of which: asset-backed securities</i>	<i>300,724</i>	-	<i>307,592</i>	-
070	<i>of which: issued by general governments</i>	<i>5,932,592</i>	<i>5,748,289</i>	<i>5,800,393</i>	<i>5,646,906</i>
080	<i>of which: issued by financial corporations</i>	<i>1,432,495</i>	<i>496,020</i>	<i>1,368,629</i>	<i>458,261</i>
090	<i>of which: issued by non-financial corporations</i>	<i>368,693</i>	<i>306,808</i>	<i>341,084</i>	<i>280,873</i>
120	Other assets	30,708,134	480,116		

Source: FINREP - Asset Encumbrance: Template F 32.01 Assets of the reporting entity - liquid assets

The amounts of encumbered assets shown in column 010 of the above table consist mainly of debt securities, particularly issued by government (5.9 billion euro as at 31 December 2023), and loans included in “Other assets” (10.9 billion euro as at 31 December 2023), of which they are the predominant component.

The amounts of unencumbered assets shown in column 060 of the table above consist mainly of loans (23.6 billion euro as at 31 December 2023 included under “Other assets,” of which they are the largest component), debt securities (7.8 billion euro as at 31 December 2023) and equity securities (0.4 billion euro as at 31 December 2023). These types of assets appear to be potentially usable within the main areas of operation listed above. The other unencumbered assets, amounting to approximately 3.8 billion euro at 31 December 2023, are considered unencumbered in the normal course of business; they are mainly attributable to the following balance sheet items: current and deferred tax assets, intangible and tangible assets, derivative operations, cash, regulatory investments and other residual assets.

Unencumbered assets also include assets (notes) issued as part of the securitisation of non-performing loans promoted by Banca Popolare di Sondrio, corresponding to the retained portion of the junior and mezzanine tranches of ABS securities issued against these transactions. The book value of ABS instruments amounted to 0.8 billion euro as at 31 December 2023; the underlying credit ratios, commensurate with the percentage of junior and mezzanine securities retained by the Bank (5%), are not subject to derecognition.



**Table 149 - Template EU AE2: Collateral received and own debt securities issued**

		<b>Fair value of encumbered collateral received or own debt securities issued</b>		<b>Unencumbered</b>	
				<b>Fair value of collateral received or own debt securities issued available for encumbrance</b>	
				<b>of which</b>	
				<b>of which notionally eligible EHQLA and HQLA</b>	<b>of which EHQLA and HQLA</b>
		<b>010</b>	<b>030</b>	<b>040</b>	<b>060</b>
<b>130</b>	<b>Collateral received by the disclosing institution</b>	-	-	-	-
140	Loans on demand	-	-	-	-
150	Equity instruments	-	-	-	-
160	Debt securities	-	-	-	-
170	<i>of which: covered bonds</i>	-	-	-	-
180	<i>of which: asset-backed securities</i>	-	-	-	-
190	<i>of which: issued by general governments</i>	-	-	-	-
200	<i>of which: issued by financial corporations</i>	-	-	-	-
210	<i>of which: issued by non-financial corporations</i>	-	-	-	-
220	Loans and advances other than loans on demand	-	-	-	-
230	Other collateral received	-	-	-	-
<b>240</b>	<b>Own debt securities issued other than own covered bonds or asset-backed securities</b>	-	-	7,129	-
<b>241</b>	<b>Own covered bonds and securitization issued and not yet pledged</b>			-	-
<b>250</b>	<b>TOTAL COLLATERAL RECEIVED AND OWN DEBT SECURITIES ISSUED 31/12/2023</b>	<b>16,594,027</b>	<b>5,141,736</b>		
	<b>TOTAL COLLATERAL RECEIVED AND OWN DEBT SECURITIES ISSUED 31/12/2022</b>	<b>4,560,043</b>	<b>2,715,130</b>		

Source: FINREP - Asset Encumbrance: Template F 32.02 Guarantees received

**Table 150** - Template EU AE3: Sources of encumbran

		31/12/2023		31/12/2022	
		Matching liabilities, contingent liabilities or securities lent	Assets, collateral received and own debt securities issued other than covered bonds and ABSs encumbered	Matching liabilities, contingent liabilities or securities lent	Assets, collateral received and own debt securities issued other than covered bonds and ABSs encumbered
		010	030	010	030
010	Carrying amount of selected financial liabilities	10.662.061	15.598.320	10.914.728	15.361.792

Source: FINREP - Asset Encumbrance: Template F 32.04 Source of encumbrance

Liabilities associated with encumbered assets and collateral received correspond, as at 31 December 2023, to deposits of approximately 11 billion euro (including 4.6 billion euro with Central Banks) and debt securities of 0.5 billion euro.

\* \* \*

NOTE:

*Assets with a very high liquidity and credit quality (EHQLA) are the “Level 1 assets” referred to in Art. 416 (Reporting on liquid assets), paragraph 1, second paragraph, of Regulation (EU) No 575/2013 (“CRR”). The assets with high liquidity and credit quality (HQLA) are the “level 2 assets” referred to in art. 416, paragraph 1, second sub-paragraph, of Regulation (EU) No 575/2013 (“CRR”); the “level 2 assets” are further divided into “level 2A assets” and “level 2B assets” in accordance with Title II, Chapter 2 of the Commission Delegated Regulation (EU) of 10 October 2014.*



## Section 19

# Disclosure of remuneration policy (art. 450 CRR/CRR II)

The qualitative and quantitative information required by art. 450 of Regulation (EU) No 575/2013 on remuneration and incentive policies and practices, to be published in accordance with the technical standards set forth in Implementing Regulation (EU) 2021/637, are fulfilled in the annex to the “*Annual report on the 2024 remuneration policy and compensation paid in 2023*”. This document, which fulfils the disclosure requirements under the “Pillar 3” regulatory provisions for the financial year 2023, is available on the Bank’s institutional website at <https://istituzionale.popso.it/it/investor-relations/assemblea-dei-soci> (Shareholders’ Meeting 2024 - Meeting Documents).

Specific reference is therefore made to this documentation.

# Certification of the Manager responsible for preparing the Company's accounting documents

The undersigned Maurizio Bertoletti, as Manager responsible for preparing the Company's accounting documents of Banca Popolare di Sondrio Società per azioni, taking account of the provisions of article 154-bis, paragraph 2, of Legislative Decree No. 58 of 24 February 1998, certifies that the accounting information contained in this document agrees with the underlying accounting entries, records and documentation.

Sondrio, 2 April 2024

Signed Maurizio Bertoletti  
Manager responsible for preparing  
the Company's accounting documents



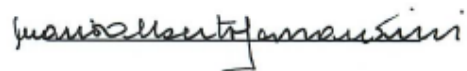
# Declaration pursuant to art. 435, paragraph 1, letters e) and f) of Regulation (EU) No 575/2013

Managing Director Mario Alberto Pedranzini, under a mandate granted by the Board of Directors by resolution dated 6 February 2024, declares pursuant to article 435(1) e) and f) of Regulation (EU) No 575/2013 ("CRR") that:

- a.** the risk management systems put in place by the Group and described in the document "*Pillar 3 Report - Public Disclosures as at 31 December 2023*" are in line with the profile and strategy of Banca Popolare di Sondrio Group;
- b.** section 2, paragraph "*Consistency between the overall risk profile and the Group's strategies*", of the aforementioned document briefly describes the Banca Popolare di Sondrio Group's overall risk profile in relation to the adopted business strategy.

Sondrio, 11 April 2024

Signed Mario Alberto Pedranzini  
Managing Director





# Annexes

## 1. Annex 1: List of Top 20 most polluting companies in the world

### Top 20 Carbon Majors emissions of CO<sub>2</sub>

1	China (Coal)
2	Saudi Aramco, Saudi Arabia
3	Gazprom, Russia
4	Chevron, USA
5	ExxonMobil, USA
6	National Iranian Oil Co.
7	BP, UK
8	2Royal Dutch Shell, The Netherlands
9	Coal India, India
10	Pemex, Mexico
11	Russia (Coal)
12	PetroChina / China Natl Petroleum
13	Petroleos de Venezuela (PDVSA)
14	Peabody Energy, USA
15	ConocoPhillips, USA
16	Abu Dhabi, United Arab Emirates
17	Kuwait Petroleum Corp., Kuwait
18	Iraq National Oil Co., Iraq
19	Total SA, France
20	Sonatrach, Algeria



### ***ABS – Asset Backed Securities***

Debt securities generally issued in securitisation transactions by a Special Purpose Vehicle (SPV) guaranteed by portfolios of various types of assets (mortgage loans, consumer loans, receivables from credit card transactions, etc.) and intended solely to satisfy the rights incorporated in the financial instruments. The repayment of principal and the payment of interest are conditioned by the performance of the assets subject to securitisation and by any additional guarantees backing the transaction. ABS securities are divided into different tranches (senior, mezzanine, junior) based on the priority attributed to them in the repayment of principal and interest.

### ***Asset encumbrance***

It represents a legal right in rem in favour of a creditor over a property owned by another party (debtor), typically an asset securing a credit relationship. A typical example of this legal relationship is the creation of collateral in repo transactions and for Central Bank financing.

### ***Securitisation***

Transaction involving the transfer of asset portfolios to a special purpose vehicle and the issue by the latter of securities with varying degrees of subordination in bearing any losses incurred on the underlying assets.

### ***Common Equity Tier 1 (CET1) Ratio***

Prudential capital adequacy coefficient expressed by the ratio between Common Equity Tier 1 capital (CET1) and total risk exposure amount represented by risk-weighted assets (RWAs).

### ***EAD – Exposure At Default***

Expected exposure at the time of insolvency of the counterparty of a risk position.

### ***EBA – European Banking Authority***

European Banking Authority. Regulatory body of the European Union, based in London, established by Regulation 1093/2010/EU to replace the Committee of European Banking Supervisors (in abbreviated form, “CEBS”).

### ***ECAI – External Credit Assessment Institutions***

External agencies for the assessment of creditworthiness recognised by the Supervisory Authorities, specialised in providing rating service to banks that adopt the Standardised Approach for measuring the capital requirement against credit risk.

### ***Fair value***

Fair value. Value for which an asset could be exchanged or a liability settled in an orderly market transaction between knowledgeable and independent parties.

### ***GACS***

Securitisation guarantee on non-performing loans. Italian State guarantee scheme aimed at facilitating the mobilisation of non-performing bank loans through securitisation transactions pursuant to Decree 18 of 14 February 2016 converted into Law No. 49 of 8 April 2016 and subsequent MEF decree of 3 August 2016. Admission to the GACS, granted by decree of the Ministry of Economy and Finance, is envisaged only for tranches of senior ABS (securities with the lowest degree of subordination) issued as part of the securitisation.

## **IAS/IFRS**

International Accounting Standards (IAS) issued by the International Accounting Standard Board (IASB), a body in which the accounting professionals of the major countries worldwide are represented, with the European Union, the IOSCO (International Organisation of Securities Commissions) and the Basel Committee on Banking Supervision taking part as observers. This body, which inherited the legacy of the International Accounting Standards Committee (IASC), aims to promote the harmonisation of the accounting rules for the preparation of company financial statements. With the transformation of the IASC into IASB, it was decided, among other things, to call the new accounting standards “International Financial Reporting Standards” (IFRS).

## **IFRS 9 (Financial instruments)**

International accounting standard which, from 1 January 2018, replaced IAS 39 “Financial Instruments: Recognition and Measurement”. It applies to all financial instruments that can be classified as assets and liabilities in the balance sheet, having regard to the classification and measurement criteria and the methods for determining impairment adjustments.

## **ICAAP – Internal Capital Adequacy Assessment Process**

Internal process to evaluate capital adequacy, as provided for by the “Pillar 2” rules of prudential supervisory regulations, which financial institutions are required to implement to determine an adequate level of internal capital to cope with all relevant risks; these may differ from those covered by the total regulatory capital requirements (“Pillar 1”), as they are part of an individual assessment - both current and prospective - that takes into account the business strategies and the evolution of the macro-economic context, also under stress conditions.

## **ILAAP – Internal Liquidity Adequacy Assessment Process**

Internal process for evaluating the adequacy of the governance and management mechanisms in place to face current and prospective liquidity risks, consisting in the processes for the identification, measurement, management and monitoring of liquidity implemented by the financial institutions.

## **IRB - Internal Rating Based Approach**

Methods Based on Internal Ratings. They can be distinguished between a “basic” (F-IRB, Foundation Internal Rating-Based Approach) and an “advanced” approach (A-IRB, Advanced Internal Rating-Based Approach) in relation to the credit risk parameters that the banks are allowed to estimate internally. In particular, the Advanced IRB method involves internal estimation of all the main risk parameters (PD, LGD, EAD, CCF and, where required, actual maturity) used in the weighting formulas for calculating the capital requirement for credit risk. Adoption of IRB methods for the purpose of calculating capital requirements is subject to authorisation from the Supervisory Authority, after verification of compliance with a set of organisational and quantitative requirements.

## **LCR – Liquidity Coverage Ratio**

Short-term liquidity coverage indicator determined according to Part 6 of Regulation (EU) No. 575/2013 of 26 June 2013 (“CRR”). The coefficient aims to ensure that intermediaries hold an amount of high-quality liquid reserves, readily convertible into cash, sufficient to cover liquidity outflows for a period of at least 30 days, even in a scenario of particularly severe liquidity stress. The indicator is calculated as the ratio between the stock of high-quality liquid assets (HQLA) and total net cash outflows scheduled in the 30 calendar days following the observation date, determined under particularly acute stress assumptions. The parameter must always remain at or above the minimum level of 100%.

## **Leverage Ratio**

Prudential ratio introduced by the Basel 3 framework with the aim of containing the degree of financial leverage in the banking sector, which complements the traditional risk-based capital requirements with a metric based on financial aggregates not



weighted for risk. It is obtained as the ratio between Tier 1 Capital and Total Exposure, the latter being the sum of on-balance and off-balance sheet exposures.

#### ***LGD – Loss Given Default***

Loss rate in the event of insolvency of a borrower, determined as the ratio between the expected loss on a credit exposure due to the default of the counterparty and the estimated residual exposure at the time of default.

#### ***NSFR – Net Stable Funding Ratio***

Regulatory long-term liquidity indicator envisaged by the Basel 3 frameworks. It is intended as a mechanism aimed at complementing the LCR index with a view to favouring more stable and longer-term financing of assets, offsetting the incentives that banking and financial institutions would have to finance their stock of liquid assets with short-term funds that expire immediately after the 30-day horizon. The index is calculated as the ratio between the available amount of stable funding (ASF) and the required amount of stable funding (RSF). This parameter, which should always be kept equal to or greater than 100%, is structured in such a way as to ensure that long-term assets are financed with at least a minimum amount of stable liabilities in relation to the respective liquidity risk profiles.

#### ***OTC – Over The Counter***

Specific attribute of transactions in derivative instruments traded “over the counter”, i.e. concluded directly between parties without recourse to an organised market.

#### ***PD – Probability of Default***

Probability that a counterparty becomes insolvent within a given time horizon.

#### ***ECL – Expected Credit Loss***

Losses that on average are expected to be incurred on a financial instrument, a loan or a portfolio; it represents the average value of the statistical distribution of losses, resulting from the product of three elements: the Exposure At Default (EAD), the Probability of Default (PD) and the Loss Given Default (LGD). As required by accounting principles set by IFRS 9, it is calculated over a time horizon of 12 months for positions classified in Stage 1 and over the entire residual life of the instrument for positions classified in Stage 2 and Stage 3.

#### ***Subordinated loan***

An unsecured bond/loan characterised by a subordination clause which, in the event of liquidation of the issuer, gives the subscribers a right to repayment, but only once any privileged and general creditors have been satisfied in full.

#### ***Rating***

Synthetic estimate of a debtor’s ability to fulfil its credit commitments issued by specialised agencies (external rating) or by the bank itself (internal rating) on the basis of aspects such as financial solvency and growth prospects.

#### ***RWA – Risk-Weighted Assets***

#### ***RWEA – Risk-Weighted Exposure Amounts***

#### ***TREA – Total Risk Exposure Amount***

Risk-Weighted Assets (RWA) On-balance sheet and off-balance sheet assets classified and weighted for their associated risks, established in accordance with the regulations issued by supervisory authorities in relation to calculation of capital ratios of banks.

### ***SPV***

A Special Purpose Vehicle is a company specifically set up by one or more entities to carry out a specific transaction (in particular a securitisation transaction).

### ***SREP – Supervisory Review and Evaluation Process***

Prudential review and assessment process with which the Supervisory Authorities periodically assess the ICAAP of financial institutions and its results. Through the SREP the Authority: a) analyses the risk profiles of a supervised entity, individually and in an aggregate perspective, also under stress conditions, and the related contribution to systemic risk; b) evaluates its corporate governance system, the functionality of its internal bodies, its organisational structure and the internal control system; c) verifies compliance of the institution with the set of prudential rules applicable.

### ***Tier 1 Ratio***

Prudential capital adequacy coefficient expressed by the ratio between Tier 1 Capital and total risk exposure amount represented by risk-weighted assets (RWA).

### ***Total Capital Ratio***

Prudential capital adequacy coefficient expressed by the ratio between Total Capital and total risk exposure amount represented by Risk-Weighted Assets (RWA).



