# **SECTION 3 – RISKS OF INSURANCE COMPANIES**

## 3.1 INSURANCE RISKS

## QUALITATIVE AND QUANTITATIVE INFORMATION

#### Life business

The typical risks of the life insurance portfolio (managed by Intesa Sanpaolo Vita, Intesa Sanpaolo Life and Fideuram Vita) may be divided into three main categories: premium risks, actuarial and demographic risks and reserve risks.

Premium risks are managed initially during definition of the technical features and product pricing, and over the life of the instrument by means of periodic checks on sustainability and profitability (both at product level and at portfolio level, including liabilities). During the definition of a product, profit testing is used, aimed at measuring profitability and identifying any weaknesses beforehand, by means of specific sensitivity analyses.

Actuarial and demographic risks arise when an unfavourable trend is recorded in the actual loss ratio compared with the trend estimated when the rate was calculated, and these risks are reflected in the level of "reserves". The loss ratio refers not only to actuarial loss, but also to financial loss (guaranteed interest rate risk). The Company guards against these risks by means of systematic statistical analysis of the evolution of liabilities in its own contract portfolio, divided by risk type, and through simulations of expected profitability of the assets hedging technical reserves.

Reserve risk is guarded against through the exact calculation of mathematical reserves, with a series of detailed checks (for example, checking that all the variables required for the calculation such as yields, quotations, technical foundations, parameters for the supplementary reserves, and recalculation of the value of single contracts are correctly saved in the system) as well as overall verifications, by comparing results with the estimates produced on a monthly basis. Specific attention is paid to checking the correct assumption of contracts, by checking the relative portfolio against the reconstruction of movements during the period, divided by purpose, and checking the consistency of the amounts settled compared with the movements of reserves.

The tables below show the structure of the mathematical reserves by expiry date, excluding reserves for amounts to be paid and before intercompany netting, and the structure of the guaranteed minimum yield as at 31 December 2022.

Breakdown of mathematical reserves of life branch:	Mathematical	(millions of euro)
maturity	reserve	70
up to 1 year	1,778	1.68
1 to 5 years	4,826	4.57
6 to 10 years	1,934	1.83
11 to 20 years	3,294	3.12
over 20 years	93,787	88.80
TOTAL	105,619	100.00
		(millions of euro)
Breakdown of risk concentration by type of guarantee	Total Reserves	%
Insurance and investment products with guaranteed		
annual yield 0% - 1%	52,437	53.86
from 1% to 3%	31,233	32.08
from 3% to 5%	6,125	6.29
Insurance products	15,824	16.25
Shadow reserve	-8,270	-8.48
TOTAL	97,349	100.00

The mathematical reserves are calculated on almost the entire portfolio, on a contract-by-contract basis, and the methodology used to determine the reserves takes account of all the future commitments of the company.

The following table shows a breakdown by maturity of financial liabilities, before intercompany netting, represented by assets covering commitments arising under unit- and index-linked policies and other insurance products (specifically, the Risparmio Insurance product) and subordinated liabilities.

Breakdown of financial liabilities by maturity	Within 12 months	Over 12 months	Total as at 31.12.2022	(millions of euro)  Total as at 31.12.2021
Unit linked	66	70,517	70,583	84,883
Index linked	=	-	-	-
Other payables to insured parties	1,562	-	1,562	-
Subordinated liabilities	-	2,222	2,222	2,220
Total	1,628	72,739	74,367	87,103

#### Non-life business

The typical risks of the non-life insurance portfolio (managed through Intesa Sanpaolo Assicura, Intesa Sanpaolo RBM Salute and Intesa Sanpaolo Vita) mainly relate to premium and reserve risks.

Premium risks are managed initially during definition of the technical features and product pricing, and over the life of the instrument by means of periodic checks on sustainability and profitability (both at product level and at portfolio level, including liabilities).

Reserve risk is monitored through the exact calculation of technical reserves. More specifically, for companies with non-life business the technical reserves may be broken down into: premium reserves, claims reserves, profit sharing and reversal reserves, other technical reserves and the equalisation reserve.

With regard to risk assumption, policies are checked when acquired through an automatic system aimed at detecting the underwriting parameters associated with the applicable tariff. The check is thus not only formal, but also substantive, and in particular allows the identification of exposures in terms of capital and limits of liability, in order to verify that the portfolio matches the technical and tariff scheme agreed upon with the sales network.

Subsequently, statistical checks are carried out to verify potentially anomalous situations (such as concentration by area or by type of risk) and to keep under control accumulation at the level of individual persons (with particular reference to policies that provide cover in the accident and health branches). This is also carried out in order to provide the Actuarial and Reinsurance Unit with suitable indications of the portfolio characteristics in order to prepare the annual reinsurance plan.

The following table presents the development of claims by year of generation, broken down into the major business lines of operation, as at 31 December 2022.

(millions of euro)

Development of Claims Reserves	·				TOTAL	
		YEAR OF GENERATION/EVENT				TOTAL
	2018	2019	2020	2021	2022	
Reserve amount:						
as at 31/12 generation year N	543	721	588	842	696	
as at 31/12 year N+1	383	396	417	510		
as at 31/12 year N+2	261	311	219			
as at 31/12 year N+3	251	201				
as at 31/12 year N+4	147					
Total claims paid	521	623	524	862	429	2,959
Claims reserve booked as at 31.12.2022	25	37	48	123	403	636
Final claims reserve for previous years						72
Total claims reserve booked as at 31.12.2022						708

# 3.2 FINANCIAL RISKS

## QUALITATIVE AND QUANTITATIVE INFORMATION

## **Financial Risks**

These risks derive from the level or volatility of market prices of financial instruments that impact the book value of both assets and liabilities. The risk factors identified by the company are as follows:

- interest rate risk: impacts assets and liabilities whose value is sensitive to changes in the forward structure of interest rates or the volatility of interest rates;
- equity price risk: derives from the level or volatility of market prices of equities and impacts assets and liabilities whose value is sensitive to changes in equity prices;
- property risk: derives from the level or volatility of market prices of real estate property and impacts assets and liabilities sensitive to said changes;
- foreign exchange risk: derives from changes in the level or volatility of foreign exchange rates;
- spread risk; impacts assets and liabilities whose value is sensitive to adverse changes in credit spreads;
- concentration risk: reflects the risk of holding high percentages of financial assets of the same counterparty.

## Impacts from the COVID-19 pandemic

In line with 2021, the analysis of the Insurance Group's risk exposure was impacted by the economic, social and financial scenario deriving from the COVID-19 pandemic emergency. Weekly and monthly monitoring continued on the situations of solvency and liquidity of the Insurance Group, sent to the Supervisory Authority starting in March 2020. The reinforced monitoring of operational risks also continued, specifically referring to the occurrence of losses due to business continuity and/or depending on cyber risks.

#### Impacts of the Russia-Ukraine conflict

Following the escalation of the geopolitical tensions between Russia and Ukraine, the Risk Management Department has constantly monitored the evolution of the risks and their effects on the business of the Insurance Group, with a specific focus on exposures to countries directly involved in the conflict. In that area, exposure is residual (less than 0.1% of total assets).

#### **Investment portfolios**

The investments of the insurance companies of the Intesa Sanpaolo Group (Intesa Sanpaolo Vita, Intesa Sanpaolo Assicura, Intesa Sanpaolo Life, Fideuram Vita and Intesa Sanpaolo RBM Salute) are made with their shareholder fund and to cover contractual obligations with customers. These refer to traditional revaluable life insurance policies, Index- and Unit-linked policies, pension funds and non-life policies.

As at 31 December 2022, the investment portfolios of Group companies, recorded at book value, amounted to 174,035 million euro. Of these, a part amounting to 107,620 million euro relates to traditional revaluable life policies (the financial risk of which is shared with the policyholders by virtue of the mechanism whereby the returns on assets subject to segregated management are determined), non-life policies and shareholder fund. The other component, whose risk is borne solely by the policyholders, consists of investments related to Index-linked policies, Unit-linked policies and pension funds and amounted to 100,834 million euro.

Considering the various types of risks, the analysis of investment portfolios, described below, concentrates on the assets held to cover traditional revaluable life policies, non-life policies and shareholder fund.

### Financial assets under segregated funds and shareholder fund

In terms of breakdown by asset class, net of derivative financial instruments, 83.06% of assets, i.e. 72,869 million euro, were bonds, whereas assets subject to equity risk represented 2.28% of the total and amounted to 2,001 million euro. The remainder (12,865 million euro) consisted of investments relating to UCI, Private Equity and Hedge Funds (14.66%).

The carrying value of derivatives came to approximately -73 million euro, almost entirely relating to hedging derivatives, while the portion of effective management derivatives<sup>114</sup> is positive for approximately 84 million euro.

At the end of 2022, investments made with the shareholder fund of Intesa Sanpaolo Vita and Fideuram Vita amounted to around 430 million euro at market value, and presented a risk in terms of VaR (99% confidence level, 10-day holding period) of around 9 million euro.

<sup>&</sup>lt;sup>114</sup> ISVAP Regulation 36 of 31 January 2011 on investments defines as "effective management derivatives" all derivatives aimed at achieving preestablished investment objectives in a faster, easier, more economical or more flexible manner than would have been possible acting on the underlying assets

## Interest rate risk exposure

The breakdown by maturity of bonds showed 10.76% short-term (under 1 year), 27.63% medium-term and 44.67% long-term (over 5 years).

			(millions of euro)
Financial assets	Book value	%	Duration
Fixed-rate bonds	62,464	71.20	6.11
up to 1 year	9,078	10.35	
1 to 5 years	21,656	24.68	
over 5 years	31,730	36.17	
Floating rate/indexed bonds	10,405	11.86	6.24
up to 1 year	362	0.41	
1 to 5 years	2,591	2.95	
over 5 years	7,452	8.50	
TOTAL	72,869	83.06	-
Equities or similar capital securities	2,001	2.28	
UCI, Private Equity, Hedge Fund	12,865	14.66	
TOTAL AS AT 31.12.2022	87,735	100.00	

The sensitivity of the fair value of the portfolio of financial assets to interest rate movements, summarised in the table below, highlights the exposure of the portfolio: for example, a parallel shift in the yield curve of +100 basis points leads to a negative fair value change in the bond portfolios of 4,139 million euro.

	Book value	%	Fair va d	illions of euro) alue changes ue to interest e fluctuations
			+100 bps	-100 bps
Fixed-rate bonds	62,464	85.72	-3,553	4,034
Floating rate/indexed bonds	10,405	14.28	-586	702
Interest rate risk hedging effect	-	-	-	-
TOTAL	72,869	100.00	-4,139	4,736

## Credit risk exposure

The table below sets forth the distribution of the bond portfolio by rating class: AAA/AA bonds represented 6.30% of total investments and A bonds approximately 7.68%. Low investment grade securities (BBB) were 65.89% of the total, while the portion of speculative grade or unrated was minimal (3.19%).

With regard to exposure to BBB rated securities, the majority of the exposure related to bonds issued by the Republic of Italy.

		(millions of euro)
Breakdown of financial assets by issuer rating	Book value	%
Bonds	72,869	83.06
AAA	2,343	2.67
AA	3,182	3.63
A	6,735	7.68
BBB	57,812	65.89
Speculative grade	2,526	2.88
Unrated	271	0.31
Equities or similar capital securities	2,001	2.28
UCI, Private Equity, Hedge Fund	12,865	14.66
TOTAL	87,735	100.00

The analysis of the exposure in terms of the issuers/counterparties produced the following results: securities issued by governments, central banks and other public entities made up 76.78% of the total investments, whereas the securities of corporate issuers contributed around 23.22%.

The sensitivity values of the fair value of the bonds with respect to a variation in the creditworthiness of the issuers, namely a market credit spread shock of ±100 basis points, as at end of 2022, are shown in the table below.

(millions of euro) **Book value** % Fair value changes due to credit spread fluctuations +100 bps -100 bps Government bonds 55,952 76.78 -3,651 4,216 Corporate bonds 16,917 23.22 -758 731 **TOTAL** 72,869 100.00 -4,409 4,947

## **Equity risk exposure**

The sensitivity of the equity portfolio to a hypothetical deterioration in equity prices of 10% amounts to -200 million euro, as shown in the table below.

	Book value	%	(millions of euro) Fair value changes due to stock price fluctuations
Equities - Financial institutions Equities - Non-financial companies and other counterparties	289 1,712	14.44 85.56	-29 -171
TOTAL	2,001	100.00	-200

### Foreign exchange risk exposure

Approximately 97.6% of investments is made up of assets denominated in the EU currency. The residual exposure to foreign exchange risk was hedged by positions in derivative financial instruments, particularly domestic currency swaps, in the same currency.

## **Derivative financial instruments**

Financial derivative instruments are used to hedge the financial risks of the investment portfolio or for effective management. The table below shows the book values of the financial derivative instruments as at 31 December 2022.

Type of underlying	ype of underlying DEBT SECURITIES/ INTEREST RATES					lions of euro)
	Quoted	Unquoted	Quoted	Unquoted	Quoted	Unquoted
Hedging derivatives Effective management derivatives	-	-157 -	- 49	- 35	- 49	-157 35
TOTAL	-	-157	49	35	49	-122