Pillar 3 Report 2022

RBC Investor Services Bank S.A.

RBCIS BANK BOARD APPROVAL: 29 MARCH 2023

Report date: 31 October 2022

Investor &
Treasury Services

Disclaimer

Table of Contents

List of Acronyms

AIRB	Advanced Internal Rating Based
ALCO	Assets & Liabilities Committee
ALM	Asset-Liability Management
AML	Anti-Money Laundering
BCL	Banque Centrale du Luxembourg
BoD	Board of Directors of RBC Investor Services bank S.A.
BPS	Basis points
CEO	Chief Executive Officer
CET1	Common Equity Tier 1
CFO	Chief Financial Officer
CIA	Chief Internal Auditor
CCO	Chief Compliance Officer
CRO	Chief Risk Officer
CSSF	Commission de Surveillance du Secteur Financier
CT	Corporate Treasury
CVA	Credit Valuation Adjustment
EBA	European Banking Authority
ECB	European Central Bank
ERM	Enterprise Risk Management
EORM	Enterprise Operational Risk Management
EVE	Economic Value of Equity
ExCo	Executive Committee of RBCIS Bank
FX	Foreign Exchange
GRM	Group Risk Management
HQLA	High Quality Liquid Asset
ICAAP	Internal Capital Adequacy Assessment Process
ILAAP	Internal Liquidity Adequacy Assessment Process
IRRBB	Interest Rate Risk in the Banking Book
JST	Joint Supervisory Team
KRI	Key Risk Indicator
LCR	Liquidity Coverage Ratio
Management Body	The Executive Committee and the Board of Directors
NIE	Non-Interest Expense
NII	Non-Interest Income
NSFR	Net Stable Funding Ratio
OCR	Overall Capital Ratio
OSFI	Office of the Superintendent of Financial Institutions
P2G	Pillar 2 Guidance
P2R	Pillar 2 Requirement
P&L	Profit and Loss
PA&C	Positive Advice and Counsel
PD	Probability of default
RAF	Risk Appetite Framework
RAS	Risk Appetite Statement
RemCo	Remuneration Committee

REPE	Real Estate Private Equity
REPO	Repurchase Agreement
ROE	Return on Equity
RSF	Required stable funding
RWA	Risk-Weighted Assets
SLA	Service Level Agreement
SREP	Supervisory Review and Evaluation Process
SSA	Sovereign supranational agency
SSM	Single Supervisory Mechanism
SWIFT	Society for Worldwide Interbank Financial
TMS	Treasury and Market Services
TOR	Terms of Reference
TSCR	Total SREP Capital Ratio
VaR	Value at Risk
YoY	Year over Year
YTD	Year To Date

References to applicable legislation

CRD V	Directive 2019/878/EU of the European Parliament and of the Council of 20 May 2019 amending Directive 2013/36/EU as regards exempted entities, financial holding companies, mixed financial holding companies, remuneration, supervisory measures and powers and capital conservation measures
CRR	Regulation (EU) No 575/2013 of the European Parliament and of the Council of 26 June 2013 on prudential requirements for credit institutions and investment firms
CRR II	Regulation (EU) 2019/876 of the European Parliament and of the Council of 20 May 2019 amending Regulation (EU) No 575/2013 as regards the leverage ratio, the net stable funding ratio, requirements for own funds and eligible liabilities, counterparty credit risk, market risk, exposures to central counterparties, exposures to collective investment undertakings, large exposures, reporting and disclosure requirements, and Regulation (EU) No 648/2012
CSSF Circular 12/552	CSSF circular 12/552 on Central Administration, Internal Governance and Risk Management as amended from time to time
CSSF Circular 14/583	CSSF circular 14/583 on the Entry into force of Regulation (EU) No 575/2013 of the European Parliament and of the Council of 26 June 2013 on prudential requirements for credit institutions and investment firms and amending Regulation (EU) No 648/2012
CSSF Circular 17/673	CSSF circular 17/673 on the adoption of the EBA Guidelines on disclosure requirements under Part Eight of Regulation (EU) No 575/2013 (EBA/GL/2016/11)
CSSF Regulation°18-03	the CSSF Regulation n°18-03 implementing certain discretions of Regulation (EU) No 575/2013 and implementing Guideline (EU) 2017/697 of the European Central Bank of 4 April 2017 on the exercise of options and discretions available in Union law by national competent authorities in relation to less significant institutions (ECB/2017/9)
LCR Delegated Act	Commission Delegated Regulation (EU) 2015/61 of 10 October 2014 to supplement Regulation (EU) No 575/2013 of the European Parliament and the Council with regard to liquidity coverage requirement for Credit Institutions
LFS	The Law of 5 April 1993 on the financial sector, as amended
SSM Regulation	Regulation (EU) No 1024/2013 of 15 October 2013 conferring specific tasks on the European Central Bank concerning policies relating to the prudential supervision of credit institutions
EBA/GL/2016/07	EBA guidelines 2016/07 - Guidelines on the application of the definition of default under Article 178 of Regulation (EU) No 575/2013
EBA/GL/2017/01	on LCR disclosure to complement the disclosure of liquidity risk management under Article 435 of Regulation (EU) No 575/2013

EBA/GL/2018/02	EBA Guidelines 2018/02 -GUIDELINES ON THE MANAGEMENT OF INTEREST RATE RISK ARISING FROM NON-TRADING BOOK ACTIVITIES
EBA/GL/2018/10	EBA guidelines on disclosure of non-performing and forborne exposures
EBA/RTS/2014/05	EBA final draft RTS on additional liquidity outflows corresponding to collateral needs resulting from the impact of an adverse market scenario on the institution's derivatives transactions, financing transactions and other contracts for liquidity reporting under Article 423(3) of Regulation (EU) No 575/2013 (Capital Requirements Regulation CRR)
EBA/ITS/2020/04	Final draft implementing technical standards on public disclosures by institutions of the information referred to in titles II and III of Part Eight of Regulation (EU) n°575/2013

Templates not included in the Pillar 3 disclosures

The following templates are not covered in this document on the basis they are not applicable or below materiality threshold. Further explanation may be provided in the relevant sections.

ANNEX NUMBER	NAME OF ANNEX	RELEVANT ARTICLE IN THE ITS	RELEVANT ARTICLE IN CRR	TEMPLATE
Annex I	Disclosure of key metrics and overview of risk-weighted exposure amounts	**2,4**	Point (f) of Article 438	EU INS1 - Insurance participations
Annex I	Disclosure of key metrics and overview of risk-weighted exposure amounts	**2,4**	Points (g) of Article 438	EU INS2 - Financial conglomerates information on own funds and capital adequacy ratio
Annex V	Disclosure of the scope of application	**4,4**	Points (f), (g) and (h) of Article 436	EU LIB - Other qualitative information on the scope of application
Annex XV	Disclosure of credit risk quality	**9.1(e)**	Point (f) of Article 442	EU CR2: Changes in the stock of non-performing loans and advances
Annex XV	Disclosure of credit risk quality	**9,2**	Point (c) of Article 442	EU CQ1: Credit quality of forborne exposures
Annex XV	Disclosure of credit risk quality	**9.2 (columns a, c, e, f and g of template EU CQ4)**	Points (c) and (e) of Article 442	EU CQ4: Quality of non-performing exposures by geography
Annex XV	Disclosure of credit risk quality	**9.2 (columns a, c, e and f of template EU CQ5)**	Points (c) and (e) of Article 442	EU CQ5: Credit quality of loans and advances by industry
Annex XV	Disclosure of credit risk quality	**9,2**	Point (c) of Article 442	EU CQ7: Collateral obtained by taking possession and execution processes
Annex XV	Disclosure of credit risk quality	**9,3**	Points (c) and (f) of Article 442	EU CR2a: Changes in the stock of non-performing loans and advances and related net accumulated recoveries
Annex XV	Disclosure of credit risk quality	**9,3**	Point (c) of Article 442	EU CQ2: Quality of forbearance
Annex XV	Disclosure of credit risk quality	**9.3 (columns b and d of template EU CQ4)**	Points (c) and (e) of Article 442	EU CQ4: Quality of non-performing exposures by geography
Annex XV	Disclosure of credit risk quality	**9.3 (columns b and d of template EU CQ5)**	Points (c) and (e) of Article 442	EU CQ5: Credit quality of loans and advances by industry
Annex XV	Disclosure of credit risk quality	**9,3**	Point (c) of Article 442	EU CQ6: Collateral valuation - loans and advances
Annex XV	Disclosure of credit risk quality	**9,3**	Point (c) of Article 442	EU CQ8: Collateral obtained by taking possession and execution processes – vintage breakdown
Annex XXI	Disclosure of the use of the IRB approach to credit risk	**12(a)**	Points (a) to (f) of Article 452	EU CRE – Qualitative disclosure requirements related to IRB approach
Annex XXI	Disclosure of the use of the IRB approach to credit risk	**12(a)**	Point (b) of Article 452	EU CR6-A – Scope of the use of IRB and SA approaches
Annex XXI	Disclosure of the use of the IRB approach to credit risk	**12(b)**	Point (g) of Article 452	EU CR6 – IRB approach – Credit risk exposures by exposure class and PD range
Annex XXI	Disclosure of the use of the IRB approach to credit risk	**12(c)**	Point (j) of Article 453	EU CR7 – IRB approach – Effect on the RWEAs of credit derivatives used as CRM techniques
Annex XXI	Disclosure of the use of the IRB approach to credit risk	**12(c)**	Point (g) of Article 453	EU CR7-A – IRB approach – Disclosure of the extent of the use of CRM techniques

Annex XXI	Disclosure of the use of the IRB approach to credit risk	**12(d)**	Point (h) of Article 438	EU CR8 – RWEA flow statements of credit risk exposures under the IRB approach
Annex XXI	Disclosure of the use of the IRB approach to credit risk	**12(e)**	Point (h) of Article 452	EU CR9 –IRB approach – Back-testing of PD per exposure class (fixed PD scale)
Annex XXI	Disclosure of the use of the IRB approach to credit risk	**12(e)**	Point (h) of Article 452 and point (f) of Article 180(1)	EU CR9.1 –IRB approach – Back-testing of PD per exposure class (only for PD estimates according to point (f) of Article 180(1) CRR)
Annex XXIII	Disclosure of specialised lending	**13**	Point (e) of Article 438	EU CR10 – Specialised lending and equity exposures under the simple riskweighted approach
Annex XXV	Disclosure of exposures to counterparty credit risk	**14(d)**	Point (l) of Article 439 referring to point (g) of Article 452	EU CCR4 – IRB approach – CCR exposures by exposure class and PD scale
Annex XXV	Disclosure of exposures to counterparty credit risk	**14(f)**	Point (j) of Article 439	EU CCR6 – Credit derivatives exposures
Annex XXV	Disclosure of exposures to counterparty credit risk	**14(g)**	Point (h) of Article 438	EU CCR7 – RWEA flow statements of CCR exposures under the IMM
Annex XXV	Disclosure of exposures to counterparty credit risk	**14(h)**	Point (i) of Article 439	EU CCR8 – Exposures to CCPs
Annex XXVII	Disclosure of exposures to securitisation positions	**15(a)**	Points (a) to (i) of Article 449	EU-SECA - Qualitative disclosure requirements related to securitisation exposures
Annex XXVII	Disclosure of exposures to securitisation positions	**15(b)**	Point (j) of Article 449	EU-SEC1 - Securitisation exposures in the non-trading book
Annex XXVII	Disclosure of exposures to securitisation positions	**15(b)**	Point (j) of Article 449	EU-SEC2 - Securitisation exposures in the trading book
Annex XXVII	Disclosure of exposures to securitisation positions	**15(c)**	Point (k)(i) of Article 449	EU-SEC3 - Securitisation exposures in the non-trading book and associated regulatory capital requirements - institution acting as originator or as sponsor
Annex XXVII	Disclosure of exposures to securitisation positions	**15(c)**	Point (k)(ii) of Article 449	EU-SEC4 - Securitisation exposures in the non-trading book and associated regulatory capital requirements - institution acting as investor
Annex XXVII	Disclosure of exposures to securitisation positions	**15(d)**	Point (l) of Article 449	EU-SEC5 - Exposures securitised by the institution - Exposures in default and specific credit risk adjustments
Annex XXIX	Disclosure of the use of standardised approach and internal model for market risk	**16.2(b)**	Points (a), (b), (c), (f) of Article 455	EU MRB: Qualitative disclosure requirements for institutions using the internal Market Risk Models
Annex XXIX	Disclosure of the use of standardised approach and internal model for market risk	**16.2(c)**	Point (e) of Article 455	EU MR2-A - Market risk under the internal Model Approach (IMA)
Annex XXIX	Disclosure of the use of standardised approach and internal model for market risk	**16.2(d)**	Point (h) of Article 438	EU MR2-B - RWA flow statements of market risk exposures under the IMA
Annex XXIX	Disclosure of the use of standardised approach and internal model for market risk	**16.2(e)**	Point (d) of Article 455	EU MR3 - IMA values for trading portfolios
Annex XXXV	Disclosure of encumbered and unencumbered assets	**19**	Article 443	EU AE4 - Accompanying narrative information

Note to Readers

RBC Investor Services Bank S.A., hereafter referred to as the “Bank” or “RBCIS Bank” or the “Company”, is a banking group headquartered in Luxembourg , part of the RBC Investor & Treasury Services business segment of Royal Bank of Canada.

RBC Investor Services Bank S.A. is the principal Eurozone subsidiary of Royal Bank of Canada (“RBC”). RBCIS Bank is headquartered in Luxembourg and operates through branches in Ireland,, Switzerland, United Kingdom as well as through its subsidiaries in France, Belgium, Ireland, Malaysia. RBCIS Bank is independently capitalized and is rated AA- by Standard & Poor’s.

As a European significant banking group incorporated in Luxembourg, RBCIS Bank is directly subject to the prudential supervision of the ECB.

The quantitative tables included in this document are expressed in millions of euros (EUR mm) unless otherwise stated. Also, these tables may sometimes show small differences due to the use of concealed decimals. These differences do not affect the true and fair view of this document.

Through this report, references are made to the annual financial statements which are filed with the Luxembourg Trade and Companies’ Register (*Registre du Commerce et des Sociétés*).

Introduction

The aim of the Pillar 3 Disclosure Report 2022 is to give in-depth information to the stakeholders on the RBCIS Bank's risk management.

This Pillar III Disclosure Report is organized as follows:

- The Section 1 describes the structure and functioning of RBCIS Bank group's risk organisation and governance;
- The section 2 covers mainly linkages between pillar 3 and financial statements;
- The Section 3 covers the Bank's own funds, capital adequacy and group solvency;
- The Section 4 is dedicated to the credit risk management and outlines the organisation, the methodological procedures and provides detailed breakdowns of the Bank's credit risk exposures;
- The Section 5 describes methodological procedures for the management of market risk while disclosing the Bank's corresponding risk profile;
- The Section 6 highlights the liquidity risk ;
- The Section 7 provides details on the Interest Rate Risk in the Banking Book;
- The Section 8 presents the operational risk framework and related key risk figures;
- The Section 9 pertains to asset encumbrance;
- The Section 10 relates to the remuneration policy and practices.

Key figures as of October 31, 2022

Table 0-1 – Key figures – Capital ratios

	2020	2021	2022
CET1 ratio	22.15%	18.05%	22.14%
Tier 1 ratio	22.15%	18.05%	22.14%
Total Capital Ratio	30.92%	25.71%	32.64%

Graph 0-1 - Key figures – Leverage ratio

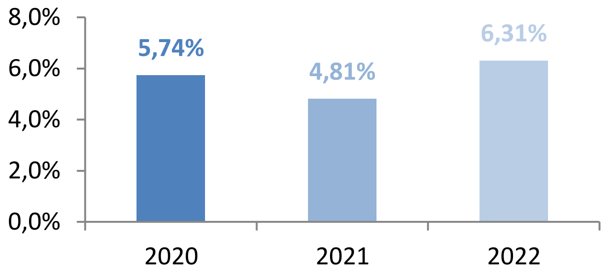


Table 0-2 – Regulatory Capital

	2020	2021	2022
CET1	1,124.1	1,055.7	1,105.1
Additional Tier 1	0.0	0.0	0.0
Tier 2	444.7	448.2	524.5
Total	**1,568.8**	**1,503.9**	**1,629.5**

Graph 0-2 – Distribution of RWA's by type

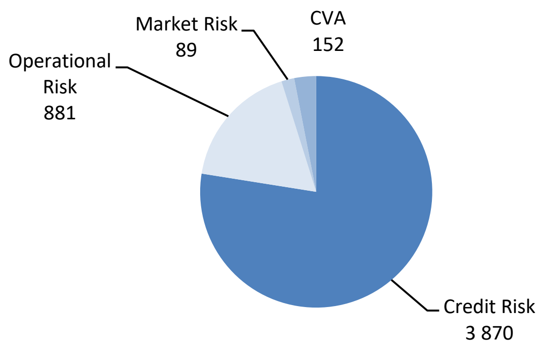
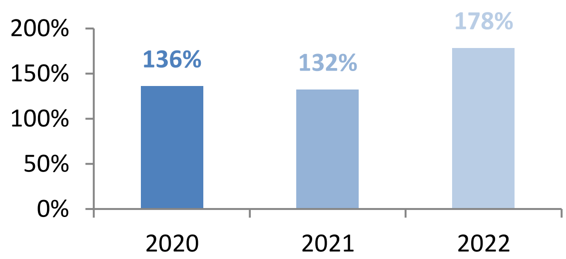


Table 0-3 – Return on assets

	2020	2021	2022
RBCIS Bank consolidated	0.29%	0.11%	0.18%

Graph 0-3 – Liquidity Coverage Ratio



The template below presents the main capital and liquidity metrics for RBCIS Bank consolidated over one year period.

Template EU KM1: Key metrics template

		31 Oct 22	31 Jul 22	30 Apr 22	31 Jan 22	31 Oct 21
	Available own funds (amounts)					
1	Common Equity Tier 1 (CET1) capital	1,105.0	1,100.8	1,099.3	1,074.8	1,055.7
2	Tier 1 capital	1,105.0	1,100.8	1,099.3	1,074.8	1,055.7
3	Total capital	1,629.5	1,608.2	1,590.5	1,535.7	1,503.9
	Risk-weighted exposure amounts					
4	Total risk-weighted exposure amount	4,992.3	6,404.3	6,903.5	6,502.6	5,849.6
	Capital ratios (as a percentage of risk-weighted exposure amount)					
5	Common Equity Tier 1 ratio (%)	22.14%	17.19%	15.92%	16.53%	18.05%
6	Tier 1 ratio (%)	22.14%	17.19%	15.92%	16.53%	18.05%
7	Total capital ratio (%)	32.64%	25.11%	23.04%	23.62%	25.71%
	Additional own funds requirements to address risks other than the risk of excessive leverage (as a percentage of risk-weighted exposure amount)					
EU 7a	Additional own funds requirements to address risks other than the risk of excessive leverage (%)	2.10%	2.10%	2.10%	2.10%	2.00%
EU 7b	of which: to be made up of CET1 capital (percentage points)	1.18%	1.18%	1.18%	1.18%	1.13%
EU 7c	of which: to be made up of Tier 1 capital (percentage points)	1.58%	1.58%	1.58%	1.58%	1.50%
EU 7d	Total SREP own funds requirements (%)	10.10%	10.10%	10.10%	10.10%	10.00%
	Combined buffer requirement (as a percentage of risk-weighted exposure amount)					
8	Capital conservation buffer (%)	2.50%	2.50%	2.50%	2.50%	2.50%
EU 8a	Conservation buffer due to macro-prudential or systemic risk identified at the level of a Member State (%)	0.00%	0.00%	0.00%	0.00%	0.00%
9	Institution specific countercyclical capital buffer (%)	0.25%	0.25%	0.25%	0.23%	0.21%
EU 9a	Systemic risk buffer (%)	0.00%	0.00%	0.00%	0.00%	0.00%
10	Global Systemically Important Institution buffer (%)	0.00%	0.00%	0.00%	0.00%	0.00%
EU 10a	Other Systemically Important Institution buffer	0.50%	0.50%	0.50%	0.50%	0.50%
11	Combined buffer requirement (%)	3.25%	3.25%	3.25%	3.23%	3.21%
EU 11a	Overall capital requirements (%)	13.35%	13.34%	13.35%	13.33%	13.21%
12	CET1 available after meeting the total SREP own funds requirements (%)	14.56%	9.62%	7.00%	8.96%	13.54%
	Leverage ratio					
13	Total exposure measure	17,502.8	20,001.5	21,431.9	20,491.4	21,939.7
14	Leverage ratio (%)	6.31%	5.50%	5.13%	5.25%	4.81%
	Additional own funds requirements to address risks of excessive leverage (as a percentage of leverage ratio total exposure amount)					
EU 14a	Additional own funds requirements to address the risk of excessive leverage (%)	-	-	-	-	-
EU 14b	of which: to be made up of CET1 capital (percentage points)	-	-	-	-	-
EU 14c	Total SREP leverage ratio requirements (%)	3.00%	3.00%	3.00%	3.00%	3.00%
	Leverage ratio buffer and overall leverage ratio requirement (as a percentage of total exposure measure)					
EU 14d	Leverage ratio buffer requirement (%)	0.00%	0.00%	0.00%	0.00%	0.00%
EU 14e	Overall leverage ratio requirements (%)	3.00%	3.00%	3.00%	3.00%	3.00%
	Liquidity Coverage Ratio					

15	Total high-quality liquid assets (HQLA) (Weighted value - average)	12,928.2	8,384.7	7,452.9	7,508.0	9,945.6
EU 16a	Cash outflows - Total weighted value	8,373.5	7,653.3	7,815.6	8,026.9	8,295.7
EU 16b	Cash inflows - Total weighted value	1,115.4	829.0	1,410.5	1,787.0	759.4
16	Total net cash outflows (adjusted value)	7,258.2	6,824.2	6,405.1	6,239.9	7,536.2
17	Liquidity coverage ratio (%)	178.12%	122.86%	116.36%	120.32%	131.97%
	Net Stable Funding Ratio					
	NSFR ratio as per regulatory reporting periods	*30 Sep 2022*	*30 Jun 2022*	*31 Mar 2022*	*31 Dec 2021*	*30 Sep 2021*
18	Total available stable funding	6,382.6	6,452.4	6,689.6	6,925.6	7,864.4
19	Total required stable funding	2,516.4	2,598.5	2,660.9	2,680.2	3,387.3
20	NSFR ratio (%)	253.64%	248.31%	251.40%	258.40%	232.17%

Other information

Complementary information on country by country data can also be found in financial statements (notably notes 11 on Staff Expenses and note 39 on profit and loss items by country).

1 General information on Risk management

1.1 Interaction between business model and risk profile

RBCIS Bank uses the concept of Risk Posture to describe how the business model interacts with the overall risk profile. Risk Posture is an aspect of the Enterprise Risk Appetite Framework used within the Enterprise and Business Segment strategic planning processes.

Risk Posture is a forward looking expression of the impact of strategic priorities on Risk Profile over a one year timeframe, using the following scale:

Contractionary Risk Posture

- Plan to reduce the level of risk being taken, and contract Risk Profile to achieve strategic priorities;
- May or may not entail a decrease in Risk Appetite.

Stable Risk Posture

- Maintain current approach to risk, and strategic priorities can be achieved; without significant impact on current Risk Profile.

Expansionary Risk Posture

- Plan to take on more risk (considering all types of risk, including strategic and operational), and plan to increase Risk Profile to achieve strategic priorities;
- May or may not entail an increase in Risk Appetite.

The Risk Posture review approved by the October 2022 BoD assessed the Risk Posture of RBCIS Bank as "Expansionary" and effectively captured by Risk Appetite Statement in place.

The overall rating for RBCIS Bank is derived from the results of underlying three primary Risk domains:

Table 1-1 – Overall rating of primary risk domains

Risk Area	2021	2022	Description / Drivers of year-over-year change (if any)?
Overall	Stable to Expansionary	Expansionary	The overall posture of the Bank is primarily deriving from the continuous degradation of Strategic and Operational Risk. The outlook of the asset servicing industry continues to be challenging with clients rationalizing service providers and leveraging their negotiation power, while RBCIS Bank competitive positioning is increasingly challenged by a lagging technology platform and lack of scale relative to top global players. Delayed major programs deliveries together with cost containment and change management environment further increase the complexity of the operating conditions in 2022.
Operational Risk	Stable to Expansionary	Stable to Expansionary	Strategic deliverables increase execution risk associated with technology, in a context of cost containment and change management environment. Risk posture is stable to expansionary in 2021 and continuing in 2022, as a continuous focus and review on the implemented control framework is recommended to mitigate the heightened risk, warranting the expansionary risk trend affecting the operational activities.
Credit Risk	Stable	Stable to Expansionary	Internal drivers and internal context remained largely same as in previous year. We note an increase in short-term cash demand through overdraft somewhat related to the RU-UA conflict, net redemptions in custodied funds and volatility on stock markets.
Market Risk	Stable	Stable	The Market Risk Posture remains stable .

1.2 Description of the risk governance structure

1.2.1 Overall internal control

RBCIS Bank has established a clear and robust risk governance framework in order to manage, control and provide assurance with respect to risk. That framework includes the following roles and responsibilities.

1.2.1.1 Board of Directors

The BoD defines the risk strategy and guiding principles of RBCIS Bank, as outlined in CSSF Circular 12/552 Chapter 4. It entrusts the authorized management with the implementation of these internal governance principles through internal written policies. The BoD monitors the implementation by the authorized management of its internal governance strategies. To this end, it approves the related policies laid down by the authorized management. Meetings of the BoD have taken place five times during the financial year 2022, in line with the governance principles of RBCIS Bank.

1.2.1.2 Risk Committee of the BoD

The Risk Committee is established under the specific authority of the BoD into which it reports after each quarterly meeting. The purpose of the Risk Committee is to assist the Company in its mission to assess the adequacy between the risks incurred, the Company's ability to manage these risks and the internal and regulatory own funds and liquidity reserves in order to increase the effectiveness of the BoD and enable its members to fulfil their supervisory mission and to take on their responsibilities pursuant to circular CSSF Circular 12/552.

The Risk Committee has not received from the BoD any delegated decision powers, which remain entirely with the BoD.

The Risk Committee will:

a) advise and support the BoD regarding the definition and monitoring of the Company's overall current and future risk appetite and strategy taking into account all types of risks;
b) confirm risk policies of the Authorized Management and oversee the implementation of the strategies for all relevant risks of the Company;
c) provide the BoD with recommendations on necessary adjustments to the risk strategy;
d) oversee the alignment between all material financial products and services offered to clients and the business model and risk strategy of the Company;
e) assess the recommendations of internal or external auditors and follow up on the appropriate implementation of measures taken;
f) assist the BoD in the establishment of sound remuneration policies and practices;
g) deliberate on a regular basis on the (i) state of risk management and compliance with the prudential rules laid down in this respect, (ii) quality of the work carried out by the risk control function.

1.2.1.3 Executive Management Committee of RBCIS Bank

The ExCo (being Authorized Management of RBCIS Bank) led by the CEO, has overall management responsibility with respect to the legal entity including risk matters. The ExCo reports to the BoD and/or the Risk Committee on all risk related matters.

RBCIS Bank has appointed one member of the ExCo as CRO responsible for the Risk Function who, on behalf of the ExCo, has established the internal governance and organizational arrangements related to risk management as required by local regulation and as deemed appropriate, taking into account the size and complexity of the Bank's activities.

The ExCo has the responsibility to assess at least annually the adequacy of the Bank's capital and liquidity versus the level of Bank's overall risks and submits the related ICAAP and ILAAP reports, together with the other reports required in the CSSF Circular 12/552, to the BoD, for its overall assessment as to capital and liquidity adequacy.

In support of risk management, additional committees have been established with the main committees being the ALCO and the Investor & Treasury Services Credit and Operational Risk Committees at the level of the Investor & Treasury Services (I&TS) business segment of which RBCIS Bank is part.

The Local Executive Committees, in each geography, apply and ensure compliancy with the Central Administration Manual, issued by the BoD of RBCIS Bank, in line with local regulations.

1.2.1.4 I&TS Operational Risk Committee (I&TS ORC) and Credit Risk Committee (I&TS CRC)

The missions of the I&TS ORC and I&TS CRC are to provide oversight of Operational Risk and Credit risk in the Investor and Treasury Services businesses globally, including RBCIS Bank legal entities. Both Committees have a delegation of authority to decide on Operational and Credit risk matters on behalf of the I&TS Operating Committee (e.g. policies, limits, mitigation actions). They provide positive advice, strategic direction and broad guidance in order to manage all material Operational and Credit risks impacting RBCIS Bank. The I&TS CRC also looks after any emerging risks and counterparties that are part of the Watch List that may negatively impact the I&TS investment portfolio, a part of which is maintained within the Bank. The I&TS ORC and I&TS CRC are composed of members from RBC and RBC Investor Services Business and Risk Management areas and include members of the authorized management of RBCIS Bank.

1.2.1.5 RBCIS Bank Assets & Liabilities Committee (ALCO)

The purpose of the ALCO is:

- To review and recommend broad policy frameworks pertaining to Bank's balance sheet and capital management, interest rate risk management, liquidity and funding, and subsidiary balance sheet management;
- To provide regular central oversight and monitoring of the Bank balance sheet-related risks, including capital adequacy, structural interest rate risk, structural foreign exchange risk, liquidity and funding risk;
- To provide direction and advice regarding the management of these areas in light of competitive and regulatory environments, and economic and business forecasts.

The ALCO reviews reports and monitors compliance on the Bank's exposure to balance sheet-related risks, including interest rate risk, liquidity and funding risk and capital adequacy. The ALCO reports to the Bank's BoD on balance sheet related new strategic initiatives. The ALCO reviews and recommends for approval to the Bank's BoD or its committees any capital transactions to be undertaken. The ALCO will be chaired by the Bank Treasurer or in his absence, the Chief Financial Officer of the Bank (Deputy Chair).

The ALCO is responsible for ensuring that the balance sheet structure and profile of the Bank is consistent with its strategic objectives and objectives of the RBC Group. All material balance sheet initiatives will be reviewed and approved by the ALCO, and recommended to the Board where necessary, with advice and counsel provided by the relevant RBC centers of expertise to the ALCO.

1.2.1.6 Deal Review Committee

The Deal Review Committees (DRCs) are established under the authority of the I&TS Operating Committee. The regional DRCs shall review and approve all Proposals in accordance with the Client Acceptance Policy.

1.2.1.7 New Business Committee (NBC)

The I&TS NBC is responsible for the risk review, and in some instances approval, of all new I&TS products / services, and requests for adjustments to I&TS products / services, in all locations. RBCIS Bank CRO is a standing member of the NBC. RBCIS NBC validated by CRO and related to IS Bank are integrated in the risk report for submission at the EXCO meeting for approval.

1.2.1.8 Data Protection Committee (DPC)

A RBCIS Bank Data Protection Committee will meet to:

- Review privacy/confidentiality incidents;
- Identify trends;
- Determine appropriate actions to be taken to prevent future occurrences;
- Determine if disciplinary measures are to be recommended;
- Discuss any other privacy/confidentiality related subject.

The RBCIS Bank DPC will take place on a quarterly basis. However, ad hoc meetings may be organized when deemed necessary (depending on the number of privacy breaches that may occur during a period). Once a year, as part of the Bank duties to supervise its branches and subsidiaries ("Bank Group"), the RBCIS Bank DPC will also review the privacy incidents that occurred in the branches and subsidiaries.

1.2.1.9 Three Lines of Defense Governance Model

RBCIS Bank promotes risk awareness and proactive management of risk. In support of sound risk management, key roles and responsibilities follow the Three Lines of Defense Governance model described below.

First Line of Defense

Employees at all levels of the organization are responsible for managing the day-to-day risks that arise in the context of their mandate. The First Line of Defense is provided by employees across the Businesses and Corporate Support Segments who are responsible for providing products and services, and for the execution of activities. The First Line has the ownership and accountability for:

- Risk identification, assessment, mitigation, monitoring and reporting of regulatory Compliance risk in accordance with established Risk Policies and Risk Appetite;
- Ensuring appropriate and adequate capabilities to manage risks relevant to the Segment;
- Alignment of business and operational strategies with strong Risk Conduct and Culture, and Risk Appetite.
- Execution of Business and Corporate Segments' Risk Governance practices.

Second Line of Defense

The Second Line of Defense is provided by areas with independent oversight accountabilities residing in Corporate Support Segments. In order to underline the independent character of Risk, Compliance and Finance, the CRO, CCO and CFO, acting in the role of authorized officers of RBCIS Bank, have independent and direct access to the BoD of RBCIS Bank. Furthermore, the Second Line:

- Establishes the enterprise-wide risk management frameworks, and provides risk guidance,
- Provides oversight for the effectiveness of First Line risk management practices,
- Monitors and independently reports on the level of risk against the established appetite measures and associated constraints.

The Second Line of Defense oversight is provided by specific areas within the following key Functional Units:

Risk Management Function

The mission of the Risk Management Unit is to oversee that identification, assessment, mitigation, monitoring and reporting of all material risks types are performed within the Group, in order to ensure at all times that the risk exposure is in compliance with regulatory constraints and aligned with the business strategy and risk appetite.

It is headed by the CRO of RBCIS Bank, with established functional roles for Credit Risk Management, Market Risk Management, Operational Risk Management, Liquidity Risk Management, Cyber and Technology Risk Management and Enterprise Risk Management. In addition to the risk roles in RBCIS Bank, risk management roles are established in Subsidiaries and Branches of RBCIS Bank where deemed appropriate in line with local regulation and internal requirements. Risk Management roles in Subsidiaries/Branches of RBCIS Bank have a reporting line into the CRO of RBCIS Bank.

Furthermore, the risk management function:

- Is adequately staffed and has adequate information systems to manage risks appropriately.
- Leverages and makes use of risk management services and expertise offered by the parent company, Royal Bank of Canada (RBC). More specifically, the Bank is integrated in the RBC credit approval process using the RBC credit analysis competence centres whilst retaining final credit decision authority.
- Provides all required information to RBC Group Risk Management allowing RBC to establish consolidated risk limit and exposure monitoring and reporting.
- Is part of the RBC Group Risk Management ("GRM") function with additional functional reporting lines established where required.

Compliance (including AML)

Compliance provides independent control and oversight of the management of RBC's regulatory compliance risk and controls, as they relate to laws, regulations and regulatory expectations relevant to the activities of RBC and subsidiaries in the jurisdictions in which we operate.

Other Functional Units

While the following Corporate Support Segments perform some First Line activities, they also have designated a role in supporting RBCIS Bank's risk management program, as follows:

- Finance has overall responsibility for ensuring RBCIS Bank's compliance with the regulatory requirements. Risk-based performance measurement and reporting is a key Finance responsibility;
- Law Group has a significant role in the management and control of legal Risk. This includes monitoring and reporting of significant legal risks facing RBC. Law Group provides legal advice and support on a wide range of risk issues;
- Human Resources is jointly responsible with Compliance for the establishment and maintenance of RBC's Code of Conduct. Human Resources establishes practices supporting a good Conduct and supports the implementation of these practices in the Business and Functional Units. Through the development of workplace policies and the delivery of programs and services, Human Resources also have a role in the reduction of operational risks related to employees.

Third Line of Defense

The Third Line of Defense is provided by Internal Audit. The Third Line provides independent assurance to senior management and the BoD on the effectiveness of risk management policies, processes and practices in all areas of RBCIS Bank.

1.2.2 The Risk Appetite Statement

1.2.2.1 Approved Limits of Risk as per the RBC Risk Appetite Statement

The RBCIS Bank Risk Appetite Framework is a key element of RBC's overall risk management program for the identification, measurement, control and reporting of the top and emerging risks faced by the organization. RBCIS Bank is in the business of taking risk and balances risk-reward trade-offs to ensure the long-term viability of the organization by remaining within established Risk Appetite. RBC's Risk Appetite Statements define clear boundaries for the organization's Risk Profile and set the overall tone for RBC's approach to risk taking in a manner that is easy to communicate, understand and embrace. Risk Appetite Statements are underpinned by Risk Appetite measures and their associated constraints, as outlined in below overview of the Risk Appetite Statement.

Table 1-2 –Risk Appetite Framework

Risk Appetite Statement
1. Manage earnings volatility and exposure to future losses under normal and stressed condition
2. Avoid excessive concentration of risk
3. Ensure capital adequacy and sound management of liquidity and funding risk
4. Ensure sound management of non-financial risk

1.2.3 Changes of the heads of internal control, risk management, compliance and internal audit.

During 2022, the following change has taken place at the level of internal control functions:

- Christopher Bright has been appointed as Chief Risk Officer.

1.3 Risk culture at RBCIS Bank

Risk Conduct and Culture RBC's Values and risk-aware culture of "Doing What's Right" effectively support the long term success of the organization. The Values set the tone of our culture, and translate into desired behaviors as articulated in our Code of Conduct and Leadership Model. Our Risk Management Principles provide a risk lens for these desired behaviors, enabling us to focus on achieving fair outcomes for our stakeholders: clients, employees, financial markets and regulators, our communities including the impact to RBC's reputation, and shareholders (also referred to as clients and other stakeholders).

RBC defines conduct as the manifestation of culture through the behaviors, judgment, decisions and actions of the organization and its employees. For the purposes of this framework, culture refers to those factors deemed influential to managing conduct risk, namely tone from above, accountability, speaking up and openness, incentives and performance management, and risk awareness (risk culture).The following key culture and conduct-related concepts are depicted below:

The RBC Code of Conduct can be accessed as follows:

https://www.rbcits.com/en/who-we-are/governance/code-of-conduct.page

1.4 Scope and nature of risk reporting

The regular Risk Management processes in place, in application of the RBC and RBCIS Bank Risk Management Frameworks and Policies, ensure that the risks to which RBCIS Bank is exposed are identified, assessed, controlled, monitored and reported. The Risk Management governance of RBCIS Bank ensures that these processes are documented through recurrent and ad hoc Risk Reports and discussed with executive management on a regular basis (I&TS Risk Committee, BoD and/or Audit Committee, the ExCo …).

The scope and nature of primary RBCIS Bank Risk Reporting and Measurement Systems are described as follows:

- A monthly Risk Report is submitted to the ExCo of RBCIS Bank;
- A quarterly Risk Report is submitted to the ExCo and the Risk Committee of the BoD of RBCIS Bank;
- A quarterly Risk Appetite Report is also presented at the Risk Committee of the BoD of RBCIS Bank;
- A yearly Risk Report is submitted to the Risk Committee of the BoD of RBCIS Bank when the BoD critically assesses and approves the internal governance arrangement of the group, as required by CSSF Circular 12/552. At the same time, a Model Risk Report is also submitted yearly to the Risk Committee of the BoD of RBCIS Bank;
- The ICAAP and ILAAP are prepared annually and submitted to the BoD of RBCIS Bank for approval.
  The content of the quarterly Risk Reporting covers, amongst others, the following key items:

- Risk Type Summary covering all risk allocated within the RBCIS Risk Pyramid;
- Operational Risk including Financial Crime and Security Risk, Legal and Regulatory Risk and Processing and Execution Risk and the Operational Profile and Key Risk Indicators;
- Top Risk Register that flags the most prevalent risks and there related trends. These are all being addressed as part of a dedicated Top Risk Program to identify, track and mitigate risks that have the highest likelihood to materially impact the bank's performance;
- Credit Risk, including top overdrafts, authorized limits and exposures and loans;
- Capital Adequacy per legal entity, Non-Trading Market and Liquidity Risk and Market Risk in relation to FVOCI portfolio and VAR.

It should be noted that the CRO reviews and proposes annually or when deemed necessary an updated TOR of the committee to the RiskCo members for review and approval. The TOR outlines among other topics/items to be deliberated by the committee upon review of the related risk reports.

The definition of the content to be disclosed in the risk reporting to the BoD and RiskCo is regularly discussed and agreed between the CRO and the chairman of these governing bodies.

The RBCIS Bank's Recovery Plan report is submitted each year to the BoD of RBCIS Bank for update and approval.

External reports are developed and submitted to the Single Supervisory Mechanism (SSM), the Central Bank of Luxembourg (CBL) as required by regulation and other relevant laws and other relevant local regulators in which Subsidiaries and Branches operate.
Moreover, the day to day Risk monitoring involves the production of reports by sub risk type that are run intraday / daily / weekly, covering in particular market risk, credit and liquidity risk.

1.5 Policies regarding systematic and regular reviews of risk management strategies

Requirements regarding reporting and risk measurement are outlined within applicable Risk Policies. The requirements to those are defined consistently as per the RBCIS Bank Risk Policy Management Requirements Policy which sets the minimum requirements for the content, management, governance and communication of all GRM documents, including frameworks, policies, standing orders, standards and procedures (collectively referred to as policy documents) within RBCIS Bank. These requirements seek to promote a consistent RBCIS Bank approach to communication, access, governance and management of policy documents for all risk types.

This policy has been established to ensure:

- Consistent definition and standards for RBCIS Bank policy documents aligned to the 'RBC Enterprise Policy Management Requirements';
- Clear articulation of approach to local vs. enterprise-wide requirements;
- Common requirements for governance, approval and review frequency for RBCIS Bank policy documents.

Table 1-3 – RBCIS Bank Risk Management Framework

Enterprise Risk Management
RBC Enterprise Risk Management Framework
RBCIS Bank Addendum to ERM Framework
RBC Enterprise Risk Appetite Framework
RBCIS Bank Addendum to RBC Enterprise Risk Appetite Framework
Operational Risk
RBC Enterprise Operational Risk Management Framework
RBC Enterprise Risk Conduct and Culture Framework
RBC Enterprise Reputation Risk Management Framework
Credit Risk
RBC Enterprise Credit Risk Framework
RBCIS Bank Addendum to RBC Enterprise Credit Risk Framework
RBC Enterprise Liquidity Risk Management Framework
RBCIS Bank Addendum to RBC Enterprise - Liquidity Risk Management Framework
Market, Liquidity and Model Risk
RBC Enterprise Market Risk Management Framework
RBCIS Bank Addendum to RBC Enterprise Market Risk Management Framework
Information and Communication Technology Risk
RBC Enterprise Information Technology Risk Management Framework
EU & APAC IT Risk Management Framework Addendum

1.6 Management Statement regarding risk management arrangements

The ExCo and the BoD of RBCIS Bank confirm, for the purpose of Article 435 CRR, that the risk management systems are adequate with regard to the risk profile and strategy of the institution.

1.7 Stress Testing Description

Stress testing and reverse stress testing are conducted and reported, among other, within the annual Internal ICAAP.

ICAAP, as a component of the Pillar 2, supplements the Pillar 1 regulatory frameworks for minimum capital requirements and focuses on the adequacy of internal capital on a forward-looking basis.

Authorized Management assesses the adequacy of internal capital of RBCIS Bank on a consolidated basis and conducts a comprehensive assessment of internal capital requirements under the following perspectives:

- Under the Economic Internal Perspective, RBCIS Bank assesses whether all risks that may impact the economic viability of the bank are covered by capital based on i) the outcome of the assessment of the Risk and Control Framework, ii) the forecasted evolution of the bank identified in the Strategic, Financial and Capital Planning and iii) applying the approach and methodology established in RBCIS Bank ICAAP framework;
- Under the normative perspective RBCIS Bank performs a multi-year assessment of its ability to fulfil all of its capital-related quantitative regulatory and supervisory requirements and demands, and to cope with other external financial constraints, on an ongoing basis, in baseline as well as in stressed scenario.

In terms of Stress Testing, RBCIS Bank continues to use a well-established Internal Stress Testing methodology developed over the past years. It is based on multiple scenarios belonging to the following categories:

1. A macroeconomic scenario considering a worldwide pandemic affecting the Eurozone economy on the one hand, and potential impacts from the Russia/Ukraine conflict on the other;
2. An idiosyncratic crisis within RBCIS Bank's mother company RBC Group;
3. An idiosyncratic scenario considering the combined impact of a series of risk events that originate from climate change and the associated risk factors;
4. An idiosyncratic IT & Cyber Risk scenario considering a malware infection;
5. A scenario combining a macroeconomic scenario (worldwide pandemic and Russia/Ukraine conflict) affecting the Eurozone economy and an idiosyncratic crisis within RBC Group.

Scenario 5 is the worst case scenario that prompts the most punitive impacts. While some of the resulting capital ratios may breach internal limits under a stressed context deriving from the macroeconomic systemic scenario, RBCIS Bank demonstrates to be equipped with the appropriate management actions to address the breach, and recover above the internal minimum thresholds identified in the Risk Appetite in a swift manner. It should be noted that the Recovery Plan enabling Authorized Management to manage a crisis which would threatens capital or liquidity adequacy, as well as viability, has been reviewed in Q4 2022.

This Recovery Plan, which has been tested under severe stress conditions, confirmed that the recovery measures defined in the plan would allow restoring the capital and liquidity situation of RBCIS Bank, which would subsequently be able to operate sustainably and viably.

The Authorized Management is therefore satisfied that the Bank's available capital is adequate to cover its future business requirements.

1.8 Strategies and processes to manage, hedge and mitigate risks

1.8.1 General principles

The following general principles apply to the management of risk at RBCIS Bank including its Branches and Subsidiaries:

Effectively balance risk and reward to enable sustainable growth.

RBC balances risk and reward to capitalize on opportunities within our business strategy and risk appetite, avoid excessive concentrations of risk through diversification and risk transfer, manage earning volatility, and ensure the long-term viability and profitability of the organization.

Collectively share the responsibility for risk management.

Following the Three Lines of Defense risk governance model , employees at all levels of the organization, as one RBC, are responsible for managing the day-to-day risks that arise in the context of their roles.

Undertake only risks we understand and make thoughtful and future-focused risk decisions.

To create long term value for our shareholders, clients, employees and communities, we exercise rigor in our risk assessments, analyze emerging risk factors and trends, ensure transparency in risk discussions, and improve processes and tools for simpler, better, faster decision-making without exposing us to undue risks.

Always uphold our Purpose and Vision, and consistently abide by our Values and Code of Conduct to maintain our reputation and the trust of our clients, colleagues and communities.

Guided by our Collective Ambition, we champion good conduct and do business openly and fairly. We never compromise quality or integrity for growth. We adhere to the "Know Your Client" standards, and ensure transparency and suitability of the products and services offered. We comply with all laws and regulatory requirements, and support transactions and relationships with proper and complete documentation.

Maintain a healthy and robust control environment to protect our stakeholders.

To achieve our operational and financial performance goals while maintaining our reputation and integrity, and operating within the parameters of applicable laws and established risk appetite, we employ effective processes and controls and resiliency practices to minimize harm from internal and external threats, avoid business interruptions, and ensure timely resolution of control issues.

Use judgment and common sense.

Policies and procedures cannot cover all circumstances. Employees should apply judgment and common sense, and when in doubt, escalate.

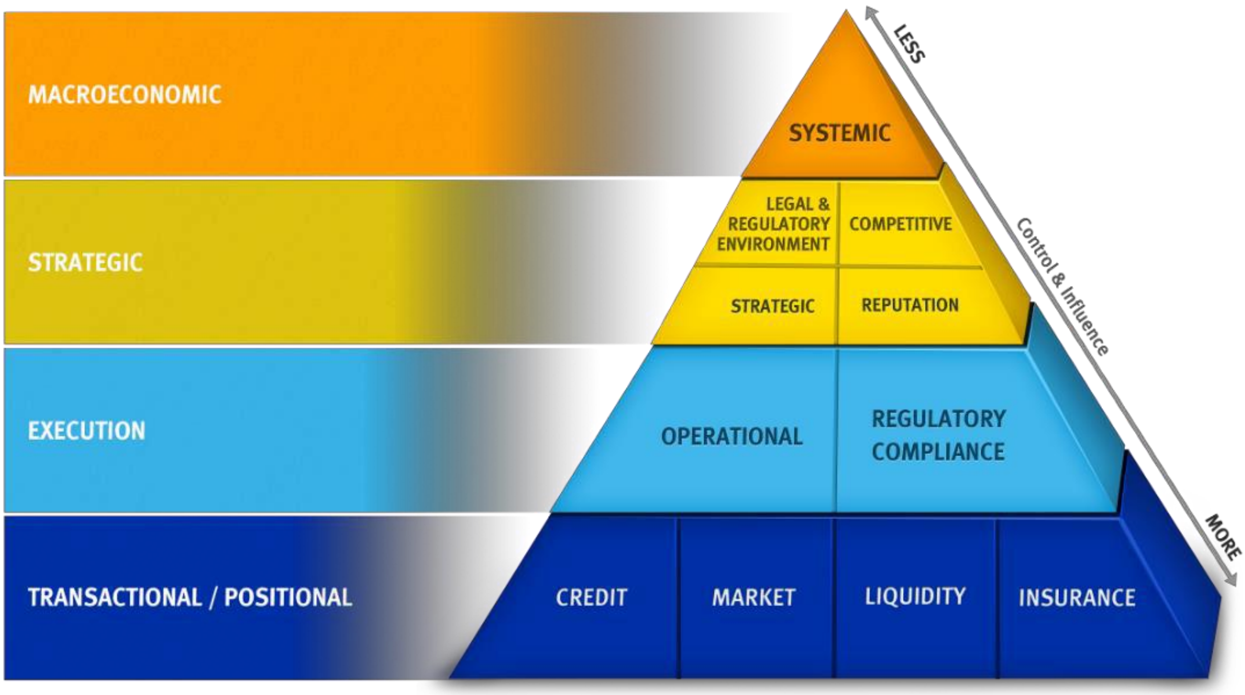
Always be operationally prepared and financially resilient for a potential crisis.

RBC strives to maintain effective protocols and escalation strategies to respond to all risks that we face, including regulatory, macroeconomic, market and other stakeholder developments. This includes maintaining operational readiness and financial resilience to effectively operate during and following a financial crisis. It is also critical to maintain agility and readiness to respond to potential disruptors to the financial industry.

1.8.2 The Risk Pyramid

RBCIS Bank's Risk Pyramid identifies the Principal Risks the organization faces. The Risk Pyramid provides a common language and discipline for the identification and assessment of risk in existing businesses, new businesses, products or initiatives, and acquisitions and alliances. It is maintained by GRM and reviewed regularly to ensure all key risks are reflected and ranked appropriately.

Figure 1-1 – Risk pyramid



The placement of the risk types within the Risk Pyramid is a function of two primary criteria:

- Risk Drivers: Key factors that would have a strong influence on whether or not one or more of our risks will materialize, and
- Control & Influence: The risk types are organized vertically from the top of the pyramid to its base according to the relative degree of control and influence RBCIS is considered to have over each Risk Driver.

1.8.3 Strategies to manage, hedge and mitigate risks

RBCIS Bank pursues the management, hedging and mitigation of risks through various measures of which Risk Review and Approval Processes and Authorities and Limits are most relevant.

1.8.4 Risk Review and Approval Processes

Risk review and approval processes provide an important control mechanism. These processes consider the nature, size and complexity of the risk involved. Requirements for the review and approval of risks are set out in enterprise level risk policies and procedures. For example:

Table 1-4 - Applicable Risk Review and Approval Procedures and Tools

Activity	Applicable Risk Review and Approval Procedures and Tools
Projects and Initiatives	• RBC maintains a number of recognized project management frameworks / methodologies to guide new projects Project Approval Requests (PAR) are executed to support the project evaluation and approval process. A PAR must be completed for any significant project or initiative. Tools such as the Integrated Risk Profile (IRP) are used in conjunction with the PAR process to assess the risks introduced by the project or initiative.
Products and Services	• New products and services are subject to initial and subsequent risk reviews per applicable approval policy. • Transactions, products, client relationships and third party products or relationships with potentially significant reputation risk further undergo a structured review and approval process.

1.8.5 Authorities and Limits

RBCIS Bank has established risk authorities and limits for those risks along the base of the Risk Pyramid (such as credit, market, and liquidity risk) which we pursue as part of our business strategy and over which we have the most control and influence. However, risk limits are not established for other risks (e.g. systemic, strategic, etc.) that RBCIS Bank faces but does not actively pursue.

In addition, with regards to credit risk, for each geographic location where RBCIS Bank has business activities creating credit risk exposure:

- Credit risk is managed by applying the principles and standards outlined in this framework. The risk function representative in the local executive committee is responsible for ensuring application of the Credit Risk Management Framework and RBCIS Bank Addendum;
- Credit risk monitoring/reporting will be included on a regular basis in the agenda of the local executive committee. Local management will report its credit risk exposure to the BoD of the entity and to the Risk Function of its mother company;
- In entities with no dedicated risk representative, Risk Function of the mother company of the entity will carry out control on credit risk on a regular basis;
- RBCIS Bank Risk function will provide a complete and consolidated overview of credit risk exposure on a regular basis to:
    - ExCo of RBCIS Bank,
    - BoD and Risk Committee of RBCIS Bank,
    - RBC Group Risk Management,
    - RBC I&TS Credit Risk Committee.

Further measures to Risk Mitigation apply at the level of Operational risk management in all of its activities by leveraging the main elements of the Operational Risk Management Framework outlined below:

- Risk and Control Self-Assessment (RCSA) – Performed both at the Bank level and at a regional business unit or process level, these assessments provide an integrated source of Operational risk and control information;
- External Operational Risk Event Review – Provides 'lessons learned' and emerging industry trends. GRM Operational Risk team performs internal analysis to investigate whether or not controls are in place to mitigate against such events and recommends additional actions, where required;
- Internal Operational Risk Event Management – Operational risk events, including those resulting in actual losses and non-monetary events are monitored by Operational Control team (with oversight from GRM Operational Risk). The focus is on a complete understanding of root cause and mitigation plans for these events with a view to mitigating repeat occurrences;
- Operational Risk Issue and Actions Tracking and Monitoring – Operational risk issues and actions identified as a result of RCSAs / risk events are entered into RBC's global Enterprise Operational Risk Management System, Archer, and tracked by Operational Control team until resolution;
- Key Risk Indicator (KRI) Program – KRIs are set and monitored for each business on a continuous basis with thresholds set annually. Risk indicators are metrics that monitor risk exposures and risk drivers, particularly changes in risk level over time:

    - Key attributes of risk indicators are appropriately documented by risk indicator owners and stored in a repository that enables ongoing monitoring. Risk indicator documentation articulates the measure (e.g., metric definition, applicable formulas, data filters, cut-off times), monitoring frequency (minimum annually), data source, and at least one clearly defined threshold,
    - Risk indicator owners ensure that thresholds are aligned to Risk Appetite (RA) and trigger management action when breached. Relevant operational risk information,
    - Segments establish escalation processes and protocols commensurate with the materiality of risk exposures. Escalation processes define actions to be taken and provide appropriate levels of management with operational risk exposure information to review and take required actions in a timely manner,
    - Risk indicator owners investigate underlying reasons for threshold breaches, notable trends, and anomalies. Investigations focus on determining what, if any, remedial actions (including escalations) are required. Where remedial actions are required, an issue and action plan is documented and tracked to closure,

- New Product/ Initiatives Risk Assessment: Every new initiative, including changed/ new product go through an assessment of potential contribution to future end state operational risk. Mitigations are identified and monitored throughout the initiative lifecycle in order to stay within risk appetite once delivered.

In addition to the above Enterprise Operational Risk Management practices, GRM Operational Risk Management team (and, where applicable, Operational Control) is informed of other risk types through Function specific programs in order to form an opinion on the complete risk profile across the RBC defined 16 operational risk types. This would be the case for the following one (non-exhaustive list):

- Business Continuity Management;
- IT Risk and Information Security;
- Regulatory Compliance;
- Anti-Money Laundering;
- Third Party risk.

1.9 Climate and Environmental Risk

Financial risks, arising from climate change, is a topic attracting increased attention from governments, regulators and financial institutions globally. The increase in the frequency of heatwaves, floods, typhoons and other climate related disasters has resulted in a substantial rise in financial losses in the last few decades.

According to the definition set by the ECB's Guide on Climate and Environmental Risk ('Guide')[1], climate change and environmental degradation are sources of structural change that affect economic activity and, in turn, the financial system.

Climate-related and environmental ('CRE') risks are commonly understood to comprise two main risk drivers:

- Physical risk refers to the financial impact of a changing climate, including more frequent extreme weather events and gradual changes in climate, as well as environmental degradation such as air, water and land pollution, water stress, loss of biodiversity and deforestation. This can directly result in, for example, damage to property, reduced productivity or indirectly lead to subsequent events such as the disruption of supply chains.
- Transition risk refers to an institution's financial loss which can result from - directly or indirectly - the process of adjustment towards a lower-carbon and more environmentally sustainable economy. This could be triggered, for example, by quite a swift adoption of climate and environmental policies, technological progress or changes in market sentiment and preferences.

In this context, RBCIS Bank categorizes CRE risks not as stand-alone risks but rather as drivers of "traditional" risk categories within the risk taxonomy (e.g., operational, credit, market, etc.). The way in which CRE risks could result in an impact to these risk categories relates to the so-called "transmission channels", which are defined as causal chains linking CRE risk drivers to the financial and non-financial risks faced by the Bank.

Tasks in relation to coordinating the assessment of CRE risks are allocated to RBCIS Bank Group Risk Management ('GRM') and overseen by the Chief Risk Officer. RBCIS Bank GRM collaborates with various internal and external stakeholders engaged with climate risk at level of RBC Group and RBCIS Bank's organization.

RBCIS Bank is monitoring physical and transition risks, in the context of RBCIS Bank's business model as follows:

Transition Risk – principal impacts to strategic, competitive, market, credit and reputational risk:

- Policy risks due to government policy and regulation aimed at constraining activities that contribute to climate change. Includes policies that promote low carbon substitutes and prohibit existing technologies for instance applications based on fossil fuels,
- Risks related to the failure to act upon climate change induced regulations at the level of custodian banking and/or insufficient disclosure or material misstatements,
- Risk due to changing customer or community perspectives of RBCIS Bank, based on the impact of our business activities and their potential contribution to climate change,

Physical Risk – principal impacts to operational, business continuity and reputational risk:

- Acute risks are event driven and include increased frequency and intensity of storms. May cause increased coastal and inland flooding and temporary disruptions to critical infrastructure in regions where RBCIS Bank operates,

- Chronic risks are due to longer-term shifts in climate patterns (e.g., higher temperatures, changes in precipitation). These may cause water stress and prolonged droughts, larger and more intense wildfires, heat waves, mass migration, security threats, and the spread of pests and infectious disease.

One component supporting the CRE monitoring relates to formulation of appropriate risk measures at level of the Risk Appetite Statement (RAS). For the purpose of CRE risk measurement focusing on transition risk, the Bank

[1] https://www.bankingsupervision.europa.eu/ecb/pub/pdf/ssm.202011finalguideonclimate-relatedandenvironmentalrisks~58213f6564.en.pdf

has implemented a sector based classification scheme to identify client assets under custody exposed CRE risks. This risk measure is in alignment with the EBA's proposal of a Green Asset Ratio (GAR) though measuring essentially client's assets GAR as the Bank itself holds no on-balance sheet positions which would yield a GAR at level of the Bank's assets meaningful.

The results of the measure for the financial year 2022 are outlined below:

Measure	Quarter 1 2022	Quarter 2 2022	Quarter 3 2022	Quarter 4 2022
Transition Risk	Within Appetite	Within Appetite	Within Appetite	Within Appetite

In addition, the Bank has conducted an assessment of its scope 1, 2 and 3 greenhouse gas (GHG) emissions - which the Bank calculates following the Partnership for Carbon Accounting Financials (PCAF) method[2]. According to the Greenhouse Gas Protocol[3], scope 1 emissions correspond to direct emissions from sources that are owned or controlled by the reporting company, scope 2 emissions are indirect emissions that result from the generation of purchased electricity, steam, heating, or cooling consumed by the company, and scope 3 emissions are all indirect emissions that occur in the value chain of the reporting company (not included in scope 2).

As components of scope 3 emissions, RBCIS Bank is currently measuring business travel (category 6) and investment emissions (Category 15).

Following PCAF's approach, the Bank calculates investment emissions for loans and investments – in the case of RCBIS, this translates mainly to fund overdrafts, Banks and Corporates, fund finance activity and covered bond positions. Emission data is sourced from issuing companies' public reports and commercial data providers.

The methodology applied by RBCIS Bank for the calculation of the financed scope 3 emissions is aligned with market practice and the PCAF standards, nonetheless, the calculation depends significantly on the information available from the Bank's counterparties.

The values obtained are presented in the following table:

Scopes and categories	Current reporting year emissions (tCO_2e)
Scope 1 emissions	
Total scope 1 emissions	**269.1**
Scope 2 emissions	
Total scope 2 emissions	**1'259.0**
Scope 3 emissions	
Total scope 3 emissions	**18'806.1**
Total emissions all scopes	
Overall total emissions	**20'334.3**
Overall quality score	**5 (Economic activity based emissions)**

In terms of climate risk stress testing, RBCIS Bank has performed analysis and identified a series of relevant

[2] https://carbonaccountingfinancials.com/
[3] https://ghgprotocol.org/

scenarios, relating to both transition and physical risks. The Bank has focused on risk categories highlighted by the ECB - namely Operational Risk, Credit Risk, Market Risk, Reputational Risk - as well as on all other risks that could be impacted by CRE risks.

The identification process has been documented and complemented with a materiality assessment providing an overall result of low risk or non-materiality of CRE risks to the Bank.

Overall, climate change presents both business risks and opportunities that impact RBC across the entire organization. RBCIS Bank is working closely together with the RBC Group's specialist departments on various aspects of CRE risks on an ongoing manner. Please refer to the RBC Group's Sustainability page to retrieve further information including the Task Force on Climate-related Financial Disclosures (TCFD) Report:
https://www.rbc.com/community-social-impact/environment/index.html

2 Linkages

The principles of consolidation for the regulatory group are identical to those applied for the financial statements.

The template EU LI1 below provides an outline of the difference in the basis of consolidation for accounting and prudential purposes and also breaks down how the amounts reported in the financial statements, once the regulatory scope of consolidation is applied, are to be allocated to the different risk frameworks laid out in Part Three of the CRR(2). Consequently there is a split of the regulatory balance sheet into the parts subject to credit risk, counterparty credit risk, securitization positions in the regulatory banking book, market risk as well as the part which is not subject to capital requirements or deduction from capital. Specific assets and liabilities may be subject to more than one regulatory risk framework, therefore the sum of values in column (c) to (g) may not equal to that in column (b).

Template- EU LI1: Differences between accounting and regulatory scopes of consolidation and mapping of financial statement categories with regulatory risk categories

	a	b	C	d	e	f	g
			Carrying values of items:				
	Carrying values as reported in published financial statements	Carrying values under scope of regulatory consolidation	Subject to credit risk framework	Subject to counterparty credit risk framework	Subject to the securitisation framework	Subject to the market risk framework	Not subject to capital requirements or subject to deduction from capital
Assets							
Cash and balances at central banks	13,320.6	13,320.6	13,320.6	-	-	-	-
Financial assets held for trading	756.9	756.9	-	756.9	-	756.9	-
Financial assets designated at fair value through profit or loss	-	-	-	-	-	-	-
Available-for-sale financial assets	625.1	625.1	625.1	-	-	-	-
Loans and receivables	1,827.1	1,827.1	1,827.1	-	-	-	-
Held-to-maturity investments	-	-	-	-	-	-	-
Derivatives – Hedge accounting	-	-	-	-	-	-	-
Fair value changes of the hedged items in portfolio hedge of interest rate risk	-	-	-	-	-	-	-
Investments in subsidiaries, joint ventures and associates	-	-	-	-	-	-	-
Assets under reinsurance and insurance contracts	-	-	-	-	-	-	-

Tangible assets	78.6	78.6	78.6	-	-	-	-
Intangible assets	151.9	151.9	41.8	-	-	-	110.0
Tax assets	12.4	12.4	12.4	-	-	-	-
Other assets	179.2	179.2	179.2	-	-	-	-
Non-current assets and disposal groups classified as held for sale	17.6	17.6	17.6	-	-	-	-
Total assets	**16,969.4**	**16,969.4**	**16,102.4**	**756.9**	**-**	**759.9**	**110.0**
Liabilities							
Financial liabilities held for trading	726.2	726.2	-	726.2	-	726.2	-
Financial liabilities designated at fair value through profit or loss	-	-	-	-	-	-	-
Financial liabilities measured at amortised cost	14,745.1	14,745.1	40.0	-	-	-	-
Derivatives – Hedge accounting	-	-	-	-	-	-	-
Fair value changes of the hedged items in portfolio hedge of interest rate risk	-	-	-	-	-	-	-
Liabilities under insurance and reinsurance contracts	-	-	-	-	-	-	-
Provisions	34.7	34.7	-	-	-	-	34.7
Tax liabilities	0.8	0.8	-	-	-	-	0.8
Share capital repayable on demand	-	-	-	-	-	-	-
Other liabilities	199.4	199.4	-	-	-	-	199.4
Liabilities included in disposal groups classified as held for sale	3.4	3.4	-	-	-	-	3.4
Subscribed Capital	554.1	554.1					554.1
Treasury shares	-	-	-	-	-	-	-
Reserves and retained earnings	663.0	663.0					663.0
Other equity instruments	42.7	42.7					42.7
Total liabilities	**16,969.4**	**16,969.4**	**40.0**	**726.2**	**-**	**726.2**	**238.4**

The template EU LI2 presents description of the difference between the financial statements' carrying value amounts under the regulatory scope of consolidation and the exposure amounts used for regulatory purposes. Off balance sheet amounts are included in the exposure amounts considered for regulatory purposes, while the items that are subject to deductions from capital are not risk weighted and are thus excluded from the table below.

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:			
		Subject to credit risk framework	Subject to the securitisation framework	Subject to counterparty credit risk framework	Subject to the market risk framework
Assets carrying value amount under the scope of regulatory consolidation (as per EU LI1)	16,859.3	16,102.4	-	756.9	756.9
Liabilities carrying value amount under the regulatory scope of consolidation (as per EU LI1)	766,2	40.0	-	726.2	726.2
Total net amount under the regulatory scope of consolidation	16,093.1	16,062.4	-	30.7	30.7
Off-balance-sheet amounts	1,857.3	1,857.3	-	-	-
Differences in valuations	-	-	-	-	-
Differences due to different netting rules, other than those already included in row 2	218.4	-	-	218.4	218.4
Differences due to consideration of provisions	-	-	-	-	-
Differences due to prudential filters	-	-	-	-	-
Differences due to Credit Conversion Factor (CCF)	1.2	1.2	-	-	-
Other differences	35.0	35.0	-	-	-
Exposure amounts considered for regulatory purposes	**18,205.0**	**17,955.9**	**-**	**249.2**	**249.2**

The template EU LI3 provides an outline of the differences in the scopes of consolidation on an entity-by-entity basis.

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

	a	b	c	d	e	f
		Method of regulatory consolidation				
Name of the entity	Method of accounting consolidation	Full consolidation	Proportional consolidation	Neither consolidated nor deducted	Deducted	Description of the entity
RBC Investor Services Belgium	IFRS	X				Financial corporations other than credit institutions
RBC Investor Services Bank France S.A.	IFRS	X				Credit institutions
RBC Investor Services France S.A.	IFRS	X				Financial corporations other than credit institutions
RBC Investor Services Holding (Hong Kong) Limited	IFRS	X				Financial corporations other than credit institutions
RBC Investor Services Trust Hong Kong Limited	IFRS	X				Financial corporations other than credit institutions
RBC Investor Services Ireland Limited	IFRS	X				Financial corporations other than credit institutions
RBC Investor Services Malaysia Sdn. Bhd	IFRS	X				Financial corporations other than credit institutions
RBC Investor Services Trust Singapore Limited	IFRS	X				Financial corporations other than credit institutions
RBC Investor Services UK LLP	IFRS	X				Financial corporations other than credit institutions

3 Own Funds, Capital Adequacy & Group Solvency

3.1 Regulatory context

Basel III Accords set the standards and provided necessary guidelines for European and national regulators to define the legislation and regulations for banking supervision and minimum regulatory capital requirements. The three-pillar based Accord renders mandatory for all banks to define, approve and implement their own approaches to measure capital requirements for credit, market and operational risk exposures under the Pillar I. Also, it induces banks to implement risk management best practices and to define complementary measures through economic capital calculation for risks not covered under the Pillar I of the accord.

RBCIS Bank is subject to the supervision of its consolidating regulator the ECB and the application of the provisions of:

- CRR II amending the CRR as regards the leverage ratio, the net stable funding ratio, requirements for own funds and eligible liabilities, counterparty credit risk, market risk, exposures to central counterparties, exposures to collective investment undertakings, large exposures, reporting and disclosure requirements;
- SSM Regulation;
- CRD V amending CRD IV as regards exempted entities, financial holding companies, mixed financials holding companies, remuneration, supervisory measures and powers and capital conservation measures , jointly known under the term “CRD V package”.

3.2 Current regulatory framework for capital adequacy

3.2.1 Regulatory minimum capital requirements

The CRR requires banks to comply with the following minimum capital requirements:

- CET1 ratio of 4.5%;
- Tier 1 ratio of 6%;
- Total capital ratio of 8%.

3.2.2 Total SREP Capital Requirement (TSCR)

RBCIS Bank is required to maintain on a consolidated basis a total SREP capital requirement (TSCR) of 10.10%, as that ratio is defined in section 1.2 of Guidelines EBA/GL/2014/13. The TSCR of 10.10% includes:

- The minimum own funds requirement of 8% to be maintained at all times in accordance with Article 92(1) of CRRII ; and
- An own funds requirement of 2.1% (Pillar 2 Requirement- P2R) required to be held in excess of the minimum own funds requirement and to be maintained at all time in accordance with Article 16(2)(a) of the SSM Regulation.

3.2.3 Overall Capital Requirement (OCR)

RBCIS Bank was also subject to the Overall Capital Requirement (OCR) as that ratio is defined in section 1.2 of Guidelines EBA/GL/2014/13, which includes, in addition to the TSCR, the combined buffer requirement as defined in point (6) of Article 128 of CRD IV as amended by CRD V, to the extent is legally applicable. As at October 31, 2022, the OCR including P2G was set to 15.6% for RBCIS Bank Consolidated.

3.2.3.1 Combined Buffer requirements

Capital buffer requirements represent additional capital to be held on top of minimum regulatory requirements. The levels and the phasing-in of the buffer requirements are subject to national discretion.

The mandatory buffers introduced are the capital conservation buffer (CCB) of 2.5%, the countercyclical capital buffer (CCyB) and the Capital buffer for globally systemically important institutions (G-SII) which could be set up to 3.5% of the total risk exposure amount..

The institution specific CCyB will under normal circumstances, be in the range 0-2%, depending on the buffer rate in the countries where the institution has it relevant exposures. In addition, CRD IV allows for a systemic risk buffer (SRB) to be added, as well as a buffer for other systematically important institutions (O- SIIs).

3.2.3.2 Other Systematically Important Institution

RBCIS Bank was notified by the CSSF that it was designated as Other Systematically Important Institution (O-SII) in application of the law of 23 July 2015 amending the LFS, complemented by the EBA Guidelines (EBA/GL/2014/10) of the 16 December 2014 on the criteria to determine the conditions of application of Article 131(3) CRD IV in relation to the assessment of other systematically important institutions.

The calibration of the O-SII buffer rate takes into account the actual distribution of scores to different buffer levels following the requirements set out in article 59-9(1) LFS prior the application of macro-prudential judgement. The threshold used to determine the buffer levels is set at 346 basis points for a buffer of 0.5%. On this basis and by application of supervisory judgment, the overall buffer for RBCIS Bank had been set at 0.5%.

3.2.4 Pillar 2 Guidance (P2G)

RBCIS Bank had to comply on a consolidated basis with Pillar 2 Capital Guidance (P2G) of 2.00%, to be made up entirely of CET1 capital and to be held over and above:

- The minimum CET1 ratio required under Article 92(1)(a) of CRR II;
- The own funds requirement of 2.10% (Pillar 2 Requirement- P2R) required to be held in excess of the minimum own funds requirement and to be maintained at all times in accordance with Article 16(2)(a) of the SSM Regulation;
- The combined buffer required as defined in point (6) of Article 128 of CRD IV, to the extent it is legally applicable.

3.2.5 RBCIS Bank Regulatory Capital Requirements as of October 31, 2022

Table 3-1 – RBCIS Bank Capital Requirements

	CET1	Tier 1	Total
Pillar 1 Regulation (EU) 2019/876 amending Regulation N° 575/2013 Article 92	4.50%	6.00%	8.00%
Pillar 2 Requirement (P2R) Regulation (EU) N°1024/2013 - Art. 16 (2)(a)	1.18%	1.57%	2.10%
Total SREP Capital Ratio (TSCR)	**5.68%**	**7.60%**	**10.10%**
Capital Conservation Buffer (CCB) Directive (EU) 2019/878 amending Directive 2013/36/EU - Art. 129	2.50%	2.50%	2.50%
Countercyclical Buffer (CCyB) Directive (EU) 2019/878 amending Directive 2013/36/EU - Art. 130	0.50%	0.50%	0.50%
Global Systemically Important Institutions Buffer (G-SII) Directive (EU) 2019/878 amending Directive 2013/36/EU - Art. 131	Not applicable		
Other Systemically Important Institutions Buffer (O-SII) Directive (EU) 2019/878 amending Directive 2013/36/EU - Art. 131	0.50%	0.50%	0.50%
Systemic Risk Buffer Directive (EU) 2019/878 amending Directive 2013/36/EU - Art. 133	0.00%	0.00%	0.00%
Overall Capital Ratio (OCR)	**9.18%**	**11.10%**	**13.60%**
Pillar 2 Guidance SREP Decision	2.00%	2.00%	2.00%
Overall Capital Ratio (OCR) including P2G	**11.18%**	**13.10%**	**15.60%**

3.3 Regulatory capital adequacy (Pillar I)

Capital adequacy and related capital ratios are monitored monthly against internal thresholds by the Corporate Treasury department. Any breaches would be escalated immediately. The ALCO and ExCo receive monthly reports detailing capital requirements, while the BoD is updated on a quarterly basis.

As at October 31, 2022, the CET1/T1 ratios stand at **22.14%** and the Total Capital ratio stands at **32.64%** (excluding year-end profit as stated per regulation)

Table 3-2 – RBCIS Bank Eligible Capital and Capital Ratio

	RBC IS Bank Conso Oct 31, 2022
Paid-up capital	554.1
Eligible Reserves / Retained Earnings	666.8
Deductions from capital	-113.7
Prudential valuation	-2.1
CET 1 / T1 Capital	**1,105.05**
T2 / Subordinated Debt	524.45
Total Regulatory Capital	**1,629.5**
Credit Risk	309.6
Operational Risk	70.5
Market Risk	7.1
CVA	12.2
Total Capital Requirement	**399.4**
CET1/T1 Capital ratios	**22.14%**
Total Capital ratio	**32.64%**

3.3.1 Regulatory capital

The elements that are included in the numerator of the ratio are described in the CRR II and the CRD V. The Bank's regulatory capital as of October 31st, 2022 is composed of CET1 capital, including:

- Paid-up capital;
- Share premium;
- Retained earnings (which does not include FY2022 profit);
- Accumulated other comprehensive income;
- Other reserves;
- Minority interest.

Deductions applied to determine the regulatory capital are from Intangible assets (including goodwill), irrevocable payment commitment, and prudential valuation allocations.

On top of the CET1, the Bank's regulatory capital accounts for a subordinated debt issuance of USD 518mm approved by the JST in May 2020 that is eligible as T2 capital (T2), to form the Total Regulatory Capital.

3.3.2 Transfer of own funds or repayment of liabilities

There is no known material practical or legal impediment to the prompt transfer of own funds or repayment of liabilities among parent undertakings and its subsidiaries.

The following table details the transitional own funds disclosure in accordance with the Annex VI of the Regulation (EU) No 1423/2013:

Template– EU CC1 - Composition of regulatory own funds

		(a) Amount At Disclosure Date	(b) Regulation (EU) 2019/876 amending Regulation (EU) N° 575/2013 Article Reference	(c) Amounts Subject to Regulation (EU) 2019/876 amending Regulation (EU) N° 575/2013 Treatment or Prescribed Residual Amount of Regulation
	Common Equity Tier 1 capital: instruments and reserves			
1	Capital instruments and the related share premium accounts	581.5	26 (1), 27, 28, 29, EBA list 26 (3)	N/A
	of which: Instrument type 1	N/A	EBA list 26 (3)	N/A
	of which: Instrument type 2	N/A	EBA list 26 (3)	N/A
	of which: Instrument type 3	N/A	EBA list 26 (3)	N/A
2	Retained earnings	588.9	26 (1) (c)	N/A
3	Accumulated other comprehensive income (and any other reserves)	50.5	26 (1)	N/A
3a	Funds for general banking risk	N/A	26 (1) (f)	N/A
4	Amount of qualifying items referred to in Article 484 (3) and the related share premium accounts subject to phase out from CET1	N/A	486 (2)	N/A
	Public sector capital injections grandfathered until 1 January 2018	N/A	483 (2)	N/A
5	Minority interests (amount allowed in consolidated CET1)	-	84, 479, 480	N/A
5a	Independently reviewed interim profits net of any foreseeable charge or dividend	N/A	26 (2)	N/A

6	**Common Equity Tier 1 (CET1) capital before regulatory adjustments**	**1,220.9**		**N/A**
	Common Equity Tier 1 (CET1) capital: regulatory adjustments			
7	Additional value adjustments (negative amount)	-2.1	34, 105	N/A
8	Intangible assets (net of related tax liability) (negative amount)	-108.5	36 (1) (b), 37, 472 (4)	N/A
9	Empty set in the EU	N/A		N/A
10	Deferred tax assets that rely on future profitability excluding those arising from temporary difference (net of related tax liability where the conditions in Article 38 (3) are met) (negative amount)	N/A	36 (1) (c), 38, 472 (5)	N/A
11	Fair value reserves related to gains or losses on cash flow hedges	N/A	33 (a)	N/A
12	Negative amounts resulting from the calculation of expected loss amounts	N/A	36 (1) (d), 40, 159, 472 (6)	N/A
13	Any increase in equity that results from securitized assets (negative amount)	N/A	32 (1)	N/A
14	Gains or losses on liabilities valued at fair value resulting from changes in own credit standing	N/A	33 (1) (b) (c)	N/A
15	Defined-benefit pension fund assets (negative amount)	N/A	36 (1) (e), 41, 472 (7)	N/A
16	Direct and indirect holdings by an institution of own CET1 instruments (negative amount)	N/A	36 (1) (f), 42, 472 (8)	N/A
17	Direct, indirect and synthetic holdings of the CET1 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)	N/A	36 (1) (g), 44, 472 (9)	N/A
18	Direct, indirect and synthetic holdings 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)	N/A	36 (1) (h), 43, 45, 46, 49 (2) (3), 79, 472 (10)	N/A
19	Direct, indirect and synthetic holdings 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)	N/A	36 (1) (i), 43, 45, 47, 48 (1) (b), 49 (1) to (3), 79, 470, 472 (11)	N/A
20	Empty set in the EU	N/A		N/A
20a	Exposure amount of the following items which qualify for a RW of 1250%, where the institution opts for the deduction alternative	N/A	36 (1) (k)	N/A
20b	of which: qualifying holdings outside the financial sector (negative amount)	N/A	36 (1) (k) (i), 89 to 91	N/A
20c	of which: securitization positions (negative amount)	N/A	36 (1) (k) (ii), 243 (1) (b), 244 (1) (b), 258	N/A

20d	of which: free deliveries (negative amount)	N/A	36 (1) (k) (iii), 379 (3)	N/A
21	Deferred tax assets arising from temporary difference (amount above 10% threshold, net of related tax liability where the conditions in Article 38 (3) are met) (negative amount)	N/A	36 (1) (c), 38, 48 (1) (a), 470, 472 (5)	N/A
22	Amount exceeding the 15% threshold (negative amount)	N/A	48 (1)	N/A
23	of which: 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	N/A	36 (1) (i), 48 (1) (b), 470, 472 (11)	N/A
24	Empty set in the EU	N/A		N/A
25	of which: deferred tax assets arising from temporary difference	N/A	36 (1) (c), 38, 48 (1) (a), 470, 472 (5)	N/A
25a	Losses for the current financial year (negative amount)	N/A	36 (1) (a), 472 (3)	N/A
25b	Foreseeable tax charges relating to CET1 items (negative amount)	N/A	36 (1) (l)	N/A
26	Regulatory adjustments applied to Common Equity Tier 1 in respect of amounts subject to pre-CRR treatment	N/A		N/A
26a	Regulatory adjustments relating to unrealized gains and losses pursuant to Articles 467 and 468	N/A		N/A
26b	Amount to be deducted from or added to Common Equity Tier 1 capital with regard to additional filters and deductions required pre-CRR	N/A	48100.0%	N/A
27	Qualifying AT1 deductions that exceed the AT1 capital of the institution (negative amount)	N/A	36 (1) (j)	N/A
27a	Other regulatory adjustments	-5.2		N/A
28	Total regulatory adjustments to Common Equity Tier 1 (CET1)	-115.8		N/A
29	**Common Equity Tier 1 (CET1) capital**	**1,105.1**		**N/A**
	Additional Tier 1 (AT1) capital: instruments			
30	Capital instruments and the related share premium accounts	N/A	51, 52	N/A
31	of which: classified as equity under applicable accounting standards	N/A		N/A
32	of which: classified as liabilities under applicable accounting standards	N/A		N/A
33	Amount of qualifying items referred to in Article 484 (4) and the related share premium accounts subject to phase out from AT1	N/A	486 (3)	N/A
	Public sector capital injections grandfathered until 1 January 2018	N/A	483 (3)	N/A
34	Qualifying Tier 1 capital included in consolidated AT1 capital (including minority interest not included in row 5) issued by subsidiaries and held by third parties	N/A	85, 86, 480	N/A
35	of which: instruments issued by subsidiaries subject to phase-out	N/A	486 (3)	N/A
36	**Additional Tier 1 (AT1) capital before regulatory adjustments**	**-**		**N/A**
	Additional Tier 1 (AT1) capital: regulatory adjustments			

37	Direct and indirect holdings by an institution of own AT1 instruments (negative amount)	N/A	52 (1) (b), 56 (a), 57, 475 (2)	N/A
38	Holdings of the AT1 instruments of financial sector entities where those entities have reciprocal cross holdings with the institution designed to artificially inflate the own funds of the institution (negative amount)	N/A	56 (b), 58, 475 (3)	N/A
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)	N/A	56 (c), 59, 60, 79, 475 (4)	N/A
40	Direct, indirect and synthetic holdings of the AT1 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)	N/A	56 (d), 59, 79, 475 (4)	N/A
41	Regulatory adjustments applied to Additional Tier 1 capital in respect of amounts subject to pre-CRR treatment and transitional treatments subject to phase-out as prescribed in Regulation (EU) No 585/2013 (i.e. CRR residual amounts)	N/A		N/A
41a	Residual amounts deducted from Additional Tier 1 capital with regard to deduction from Common Equity Tier 1 capital during the transitional period pursuant to article 472 of Regulation (EU) No 575/2013	N/A	472, 473(3)(a), 472 (4), 472 (6), 472 (8)(a), 472 (9), 472 (10) (a), 472 (11) (a)	N/A
41b	Residual amounts deducted from Additional Tier 1 capital with regard to deduction from Tier 2 capital during the transitional period pursuant to article 475 of Regulation (EU) No 575/2013	N/A	477, 477 (3), 477 (4)(a)	N/A
41c	Amounts to be deducted from added to Additional Tier 1 capital with regard to additional filters and deductions required pre-CRR	N/A	467, 468, 481	N/A
42	Qualifying T2 deductions that exceed the T2 capital of the institution (negative amount)	N/A	56 (e)	N/A
43	Total regulatory adjustments to Additional Tier 1 (AT1) capital	-		N/A
44	Additional Tier 1 (AT1) capital	-		N/A
45	**Tier 1 capital (T1 = CET1 + AT1)**	**1,105.1**		**N/A**
	Tier 2 (T2) capital: instruments and provisions			
46	Capital instruments and the related share premium accounts	524.4	62, 63	N/A
47	Amount of qualifying items referred to in Article 484 (5) and the related share premium accounts subject to phase out from T2	N/A	486 (4)	N/A
	Public sector capital injections grandfathered until 1 January 2018	N/A	483 (4)	N/A

48	Qualifying own funds instruments included in consolidated T2 capital (including minority interest and AT1 instruments not included in rows 5 or 34) issued by subsidiaries and held by third party	N/A	87, 88, 480	N/A
49	of which: instruments issued by subsidiaries subject to phase-out	N/A	486 (4)	N/A
50	Credit risk adjustments	N/A	62 (c) & (d)	N/A
51	**Tier 2 (T2) capital before regulatory adjustment**	**524.4**		**N/A**
	Tier 2 (T2) capital: regulatory adjustments			
52	Direct and indirect holdings by an institution of own T2 instruments and subordinated loans (negative amount)	N/A	63 (b) (i), 66 (a), 67, 477 (2)	N/A
53	Holdings of the T2 instruments and subordinated loans of financial sector entities where those entities have reciprocal cross holdings with the institutions designed to artificially inflate the own funds of the institution (negative amount)	N/A	66 (b), 68, 477 (3)	N/A
54	Direct, indirect and synthetic 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)	N/A	66 (c), 69, 70, 79, 477 (4)	N/A
54a	Of which new holdings not subject to transitional arrangements	N/A		N/A
54b	Of which holdings existing before 1 January 2013 and subject to transitional arrangements	N/A		N/A
55	Direct, indirect and synthetic holdings 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 amounts)	N/A	66 (d), 69, 79, 477 (4)	N/A
56	Regulatory adjustments applied to Tier 2 in respect of amounts subject to pre-CRR treatment and transitional treatments subject to phase out as prescribed in Regulation (EU) No 575/2013 (i.e. CRR residual amounts)	N/A		N/A
56a	Residual amounts deducted from Tier 2 capital with regard to deduction from Common Equity Tier 1 capital during the transitional period pursuant to article 472 of Regulation (EU) No 575/2013	N/A	472, 472(3)(a), 472 (4), 472 (6), 472 (8), 472 (9), 472 (10) (a), 472 (11) (a)	N/A
56b	Residual amounts deducted from Tier 2 capital with regard to deduction from Additional Tier 1 capital during the transitional period pursuant to article 475 of Regulation (EU) No 575/2013	N/A	475, 475 (2) (a), 475 (3), 475 (4) (a)	N/A
57	**Total regulatory adjustments to Tier 2 (T2) capital**	**N/A**		**N/A**
58	**Tier 2 (T2) capital**	**524.4**		**N/A**
59	**Total capital (TC = T1 + T2)**	**1,629.5**		**N/A**
60	**Total risk-weighted assets**	**4,992.3**		**N/A**
	Capital ratios and buffers			
61	Common Equity Tier 1 (as a percentage of total risk exposure amount)	22.14%	92 (2) (a), 465	N/A

62	Tier 1 (as a percentage of total risk exposure amount)	22.14%	92 (2) (b), 465	N/A
63	Total capital (as a percentage of total risk exposure amount)	32.64%	92 (2) (c)	N/A
64	Institution-specific buffer requirement (CET1 requirement in accordance with article 92(1) (a) plus capital conservation and countercyclical buffer requirements plus a systemic risk buffer, plus the systemically important institution buffer (G-SSI or O-SII buffer), expressed as a percentage of total risk exposure amount) 1)	8.93%	CRD 128, 129, 140	N/A
65	of which: capital conservation buffer requirement	2.50%		N/A
66	of which: countercyclical buffer requirement	0.25%		N/A
67	of which: systemic risk buffer requirement	-		N/A
67a	of which: Global Systemically Important Institution (G-SII) or Other Systemically Important Institution (O-SII) buffer	0.50%	CRD 131	N/A
67b	of which: additional own funds requirements to address the risks other than the risk of excessive leverage	1.18%		N/A
68	Common Equity Tier 1 available to meet buffers (as a percentage of risk exposure amount) 2)	14.56%	CRD 128	N/A
69	[non-relevant in EU regulation]	-		N/A
70	[non-relevant in EU regulation]	-		N/A
71	[non-relevant in EU regulation]			N/A
	Amounts below the thresholds for deduction (before risk-weighting)	-		
72	Direct and indirect holdings of the capital 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)	-	36 (1) (h), 45, 46, 472 (10), 56 (c), 59, 60, 475 (4), 66 (c), 69, 70, 477 (4)	N/A
73	Direct and indirect holdings of the CET1 instruments of financial sector entities where the institution has a significant investment in those entities (amount below 10% threshold and net of eligible short positions)	-	36 (1) (i), 45, 48, 470, 472 (11)	N/A
74	Empty set in the EU	-		N/A
75	Deferred tax assets arising from temporary difference (amount below 10% threshold, net of related tax liability where the conditions in Article 38 (3) are met)	4.8	36 (1) (c), 38, 48, 470, 472 (5)	N/A
	Applicable caps on the inclusion of provisions in Tier 2			
76	Credit risk adjustments included in T2 in respect of exposures subject to standardized approach (prior to the application of the cap)	-	62	N/A
77	Cap on inclusion of credit risk adjustments in T2 under standardized approach	48,374.9	62	N/A
78	Credit risk adjustments included in T2 in respect of exposures subject to internal ratings-based approach (prior to the application of the cap)	-	62	N/A

79	Cap for inclusion of credit risk adjustments in T2 under internal ratings-based approach	-	62	N/A
	Capital instruments subject to phase-out arrangements (only applicable between 1 Jan 2014 and 1 Jan 2022)			
80	- Current cap on CET1 instruments subject to phase-out arrangements	-	484 (3), 486 (2) & (5)	N/A
81	- Amount excluded from CET1 due to cap (excess over cap after redemptions and maturities)	-	484 (3), 486 (2) & (5)	N/A
82	- Current cap on AT1 instruments subject to phase-out arrangements	-	484 (4), 486 (3) & (5)	N/A
83	- Amount excluded from AT1 due to cap (excess over cap after redemptions and maturities)	-	484 (4), 486 (3) & (5)	N/A
84	- Current cap on T2 instruments subject to phase-out arrangements	-	484 (5), 486 (4) & (5)	N/A
85	- Amount excluded from T2 due to cap (excess over cap after redemptions and maturities)	-	484 (5), 486 (4) & (5)	N/A

3.3.2.1 Bridge between IFRS equity and CET1 capital

A bridge between IFRS equity and CET1 capital is provided in the table below:

Table 3-3 - Bridge between IFRS equity and CET1 capital

	RBC IS Bank Conso Oct 31, 2022
Balance sheet equity	1,260.2
- Profit non audited	36.7
Balance sheet equity without profit	**1,223.4**
- Non-controlling interests	7.7
- Other components of equity	0.2
CET1 before deductions	**1,215.7**
Goodwill	-83.1
Intangible assets	-25.3
Additional valuation adjustments	-2.1
Prudential filters	-0.1
Common Equity Tier 1 capital	**1,105.7**

Additional valuation adjustments

Additional Valuation Adjustments are calculated under the simplified approach as 0.1% of the sum of the absolute value of faire-valued assets and liabilities which are included within the threshold calculation in Article 4 of the Delegated Regulation (EU) N°101/2016 of 26 October 2015.

Other deductions

The Other deductions section is made up of an Irrevocable Payment Commitment (IPC) of EUR 0.05mm as per the Council Implementing Regulation (EU) 2015/81.

Inclusion and exclusion of specific entries of the prudential trading book

As of October 31, 2022, it is not within the Bank's policies to engage in speculative or trading transactions. In the rare cases where a transaction is categorised as trading (due to its nature), the ExCo must approve the transaction which must then be monitored by the Finance department.

3.3.3 Minimum capital requirements

Table 3-4 – Minimum Capital Requirements

	Minimum Capital requirements	Pillar 2 Requirements	CCB	CCyB	O-SII	Total Requirement* *OCR	
CET1 capital	4.5%	1.18%	2.5%	0.5%	0.5%	**9.18%**	
Tier 1 capital	6.0%	1.57%	2.5%	0.5%	0.5%	**11.10%**	
Total Capital	8.0%	2.1%	2.5%	0.5%	0.5%	**13.60%**	
							Surplus versus Total Requirement
CET 1 capital	224.7	56.2	124.8	29.2	25.0	455.5	**649.5**
Tier 1 capital	299.5	74.9	124.8	29.2	25.0	549.2	**555.9**
Total Capital	399.4	99.8	124.8	29.2	25.0	674.0	**955.5**

3.3.4 Overview of RWAs

The table below provides an overview of total risk exposure amount as of October 31st, 2022 calculated in accordance with Article 92(3) and Articles 95, 96 and 98 of CRR. The total own funds requirements have been obtained by applying 8% to the corresponding weighted risks.

Template – EU OV1 - Overview of RWAs

		Risk weighted exposure amounts (RWEAs)		Total own funds requirements
		Oct 31, 2022	July 31, 2022	Oct 31, 2022
1	**Credit risk (excluding CCR)**	**2,728.8**	**4,727.7**	**218.3**
2	Of which the standardised approach	2,728.8	4,727.7	218.3
3	Of which the foundation IRB (FIRB) approach	-	-	-
4	Of which slotting approach	-	-	-
EU 4a	Of which equities under the simple risk weighted approach	-	-	-
5	Of which the advanced IRB (AIRB) approach	-	-	-
6	**Counterparty credit risk - CCR**	**1,293.2**	**722.6**	**103.5**
7	Of which the standardised approach	1,141.2	553.6	91.3
8	Of which internal model method (IMM)	-	-	-
EU 8a	Of which exposures to a CCP	-	-	-
EU 8b	Of which credit valuation adjustment - CVA	152.0	169.0	12.2
9	Of which other CCR	-	-	-
10	Not applicable	-	-	-
11	Not applicable	-	-	-
12	Not applicable	-	-	-
13	Not applicable	-	-	-
14	Not applicable	-	-	-
15	**Settlement risk**	-	-	-
16	**Securitisation exposures in the non-trading book (after the cap)**	-	-	-
17	Of which SEC-IRBA approach	-	-	-
18	Of which SEC-ERBA (including IAA)	-	-	-
19	Of which SEC-SA approach	-	-	-
EU 19a	Of which 1250%/ deduction	-	-	-
20	**Position, foreign exchange and commodities risks (Market risk)**	**89.4**	**73.0**	**7.2**
21	Of which the standardised approach	89.4	73.0	7.2
22	Of which IMA	-	-	-
EU 22a	**Large exposures**	**-**	**-**	**-**
23	**Operational risk**	**880.8**	**880.8**	**70.5**
EU 23a	Of which basic indicator approach	-	-	-
EU 23b	Of which standardised approach	880.8	880.8	70.5
EU 23c	Of which advanced measurement approach	-	-	-
24	Amounts below the thresholds for deduction (subject to 250% risk weight) (For information)	12.0	12.9	0.9
25	Not applicable	-	-	-
26	Not applicable	-	-	-
27	Not applicable	-	-	-
28	Not applicable	-	-	-
29	**Total**	**4,992.3**	**6,404.3**	**399.4**

At the end of 2022, RBCIS Bank's total RWAs amounted to EUR 4,99bn. Credit Risk is the primary component of RWAs and the dominant source of overall variations, accounting for 81%. Operational risk (18%) and Market risk (1%) are less important sources of RWA variability.

RBCIS Bank uses the standardized approach for calculating its capital requirements with respect to credit, market and operational risk.

3.3.5 Specialized lending and equity exposures in the banking book

As of October 31st, 2022, RBCIS Bank does not have exposure to specialized lending, neither hold equity exposures in the banking book

3.3.6 Trading Book

Trading book related position risk is not disclosed as deemed not material. We also note there are no trading book large exposures exceeding limits.

3.3.7 Countercyclical capital buffer disclosure template

In accordance with Article 440 (a) and (b) in the CRR, the following tables disclose the amount of the institution's specific countercyclical buffer as well as the geographical distribution of credit exposures relevant for its calculation in the standard format as set out in the Commission Delegated Regulation (EU) 2015/1555.

Institution-specific countercyclical capital buffer

Template- EU CCyB2 - Amount of institution-specific countercyclical capital buffer

Total Risk Exposure Amount	**4,992.3**
Institution specific countercyclical buffer rate	0.25%
Institution specific countercyclical buffer requirement	12.4

Geographical distribution of credit exposures relevant for the calculation of the countercyclical capital buffer

The scope of the table below is limited to credit exposures relevant for the calculation of the Countercyclical Capital Buffer (CCyB). Only countries which credit exposures relevant for CCyB have been reported.

Template - EU CCyB1 - Geographical distribution of credit exposures relevant for the calculation of the countercyclical buffer

	General credit exposures		Relevant credit exposures – Market risk		Securitisation exposures Exposure value for non-trading book	Total exposure value	Own fund requirements				Risk-weighted exposure amounts	Own fund requirements weights (%)	Countercyclical buffer rate (%)
	Exposure value under the standardised approach	Exposure value under the IRB approach	Sum of long and short positions of trading book exposures for SA	Value of trading book exposures for internal models			Relevant credit risk exposures - Credit risk	Relevant credit exposures – Market risk	Relevant credit exposures – Securitisation positions in the non-trading book	Total			
United Arab Emirates	1.51	0.00	0.00	0.00	0.00	1.51	0.12	0.00	0.00	0.12	1.51	0.04%	0.00%
Australia	0.05	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.01	0.00%	0.00%
Belgium	2.25	0.00	0.00	0.00	0.00	2.25	0.06	0.00	0.00	0.06	0.76	0.02%	0.00%
Bermuda	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00%	0.00%
Canada	175.16	0.00	0.00	0.00	0.00	175.16	13.91	0.00	0.00	13.91	173.91	4.97%	0.00%
Switzerland	160.62	0.00	0.00	0.00	0.00	160.62	12.71	0.00	0.00	12.71	158.91	4.54%	0.00%
Chile	0.04	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.02	0.00%	0.00%
China	0.02	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00%	0.00%
Colombia	0.31	0.00	0.00	0.00	0.00	0.31	0.03	0.00	0.00	0.03	0.31	0.01%	0.00%
Germany	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00%	0.00%
Denmark	47.17	0.00	0.00	0.00	0.00	47.17	3.77	0.00	0.00	3.77	47.17	1.35%	1.00%
France	751.42	0.00	0.00	0.00	0.00	751.42	59.97	0.00	0.00	59.97	749.63	21.42%	0.00%
United Kingdom	161.20	0.00	0.00	0.00	0.00	161.20	5.55	0.00	0.00	5.55	69.41	1.98%	0.00%
Guernsey	22.97	0.00	0.00	0.00	0.00	22.97	1.84	0.00	0.00	1.84	22.97	0.66%	0.00%
Hong Kong	0.05	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.04	0.00%	1.00%
Indonesia	2.38	0.00	0.00	0.00	0.00	2.38	0.04	0.00	0.00	0.04	0.48	0.01%	0.00%
Ireland	438.12	0.00	0.00	0.00	0.00	438.12	34.73	0.00	0.00	34.73	434.13	12.41%	0.00%
Italy	6.06	0.00	0.00	0.00	0.00	6.06	0.48	0.00	0.00	0.48	5.99	0.17%	0.00%
Japan	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00%	0.00%
South Korea	5.34	0.00	0.00	0.00	0.00	5.34	0.43	0.00	0.00	0.43	5.34	0.15%	0.00%

Cayman Islands	1.74	0.00	0.00	0.00	0.00	1.74	0.14	0.00	0.00	0.14	1.74	0.05%	0.00%
Liechtenstein	1.58	0.00	0.00	0.00	0.00	1.58	0.13	0.00	0.00	0.13	1.58	0.05%	0.00%
Luxembourg	1,641.49	0.00	0.00	0.00	0.00	1,641.49	131.24	0.00	0.00	131.24	1,640.51	46.89%	0.50%
Mauritius	0.05	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.05	0.00%	0.00%
Malaysia	10.63	0.00	0.00	0.00	0.00	10.63	0.78	0.00	0.00	0.78	9.79	0.28%	0.00%
Netherlands	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00%	0.00%
Peru	0.30	0.00	0.00	0.00	0.00	0.30	0.02	0.00	0.00	0.02	0.30	0.01%	0.00%
Philippines	0.06	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.00	0.00	0.01	0.00%	0.00%
Pakistan	0.01	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.01	0.00%	0.00%
Russia	0.17	0.00	0.00	0.00	0.00	0.17	0.01	0.00	0.00	0.01	0.17	0.00%	0.00%
Singapore	7.91	0.00	0.00	0.00	0.00	7.91	0.14	0.00	0.00	0.14	1.69	0.05%	0.00%
Thailand	0.77	0.00	0.00	0.00	0.00	0.77	0.03	0.00	0.00	0.03	0.39	0.01%	0.00%
Tunisia	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00%	0.00%
Taiwan	2.82	0.00	0.00	0.00	0.00	2.82	0.05	0.00	0.00	0.05	0.56	0.02%	0.00%
United States	120.41	0.00	0.00	0.00	0.00	120.41	9.63	0.00	0.00	9.63	120.41	3.44%	0.00%
Virgin Islands	0.03	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.03	0.00%	0.00%
Vietnam	15.00	0.00	0.00	0.00	0.00	15.00	1.20	0.00	0.00	1.20	15.00	0.43%	0.00%
Stateless	51.48	0.00	0.00	0.00	0.00	51.48	2.89	0.00	0.00	2.89	36.13	1.03%	0.00%
Total	**3,629.14**	**0.00**	**0.00**	**0.00**	**0.00**	**3,629.14**	**279.92**	**0.00**	**0.00**	**279.92**	**3,498.96**	**0.00%**	**0.00%**

3.4 Leverage ratio

The leverage ratio (LR) is introduced by the Basel Committee to serve as a simple, transparent and non-risk-based ratio to complete the existing risk-based capital requirements. The Basel III leverage ratio is defined as the capital measure (the numerator) divided by the exposure measure (the denominator), with this ratio expressed as a percentage and having to exceed a minimum of 3%. RBCIS Bank internal minimum requirement is set at 3.2%.

The Bank takes into account the leverage ratio in its capital and financial planning to ensure that its forecasted strategic plan is consistent with this requirement. The leverage ratio is discussed on a regular basis at top management level and is part of the Bank's Risk Appetite framework.

As of October 31st, 2022, RBCIS Bank leverage ratio stands at 6.31%, well above the 3.0% regulatory minimum requirement.

Table 3-5 – Leverage ratio

	RBCIS Bank Conso Oct 31, 2022
Tier 1 capital	1,105.1
Leverage ratio exposure	17,502.8
Leverage ratio	**6.31%**

The following table discloses the breakdown of the total exposure measure as well as a reconciliation with the relevant information disclosed in published financial statements, as required by Article CRR 451 (1)(b).

Template EU LR1 – LRSum-: Summary reconciliation of accounting assets and leverage ratio exposures

		Applicable amount
1	Total assets as per published financial statements	16,969.4
2	Adjustment for entities which are consolidated for accounting purposes but are outside the scope of prudential consolidation	0.0
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 banks (if applicable)	-
5	(Adjustment for fiduciary assets recognised on the balance sheet pursuant to the applicable accounting framework but excluded from the-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	-
9	Adjustment for securities financing transactions (SFTs)	-
10	Adjustment for off-balance sheet items (ie conversion to credit equivalent amounts of off-balance sheet exposures)	653.6
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 total exposure measure in accordance with point (c) of Article 429a(1) CRR)	-
EU-11b	(Adjustment for exposures excluded from the total exposure measure in accordance with point (j) of Article 429a(1) CRR)	-
12	Other adjustments	- 120.2
13	**Total exposure measure**	**17,502.8**

The following table discloses the breakdown of the total exposure measure for Leverage ratio.

Template EU LR2 - LRCom: Leverage ratio common disclosure

		CRR leverage ratio exposures	
		Oct 31, 2022	July 31, 2022
On-balance sheet exposures (excluding derivatives and SFTs)			
1	On-balance sheet items (excluding derivatives, SFTs, but including collateral)	15,859.4	18,569.9
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)	-110.6	-110.9
7	**Total on-balance sheet exposures (excluding derivatives and SFTs)**	**15,748.8**	**18,458.9**
Derivative exposures			
8	Replacement cost associated with SA-CCR derivatives transactions (ie net of eligible cash variation margin)	392.1	288.9
EU-8a	Derogation for derivatives: replacement costs contribution under the simplified standardised approach	-	-
9	Add-on amounts for potential future exposure associated with SA-CCR derivatives transactions	708.3	528.3
EU-9a	Derogation for derivatives: Potential future exposure contribution under the simplified standardised approach	-	-
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)	-	-
13	**Total derivatives exposures**	**1,100.3**	**817.2**
Securities financing transaction (SFT) exposures			
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	-	-
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)	-	-
18	**Total securities financing transaction exposures**	**-**	**-**
Other off-balance sheet exposures			
19	Off-balance sheet exposures at gross notional amount	3,266.8	3,517.5
20	(Adjustments for conversion to credit equivalent amounts)	-2,613.2	-2,792.3
21	(General provisions deducted in determining Tier 1 capital and specific provisions associated with off-balance sheet exposures)	-	-
22	**Off-balance sheet exposures**	**653.6**	**725.2**
Excluded exposures			
EU-22a	(Exposures excluded from the 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): - Promotional loans granted by a public development credit institution	-	-

	- Promotional loans granted by an entity directly set up by the central government, regional governments or local authorities of a Member State - Promotional loans granted by an entity set up by the central government, regional governments or local authorities of a Member State through an intermediate credit institution)		
EU-22e	(Excluded passing-through promotional loan exposures by non-public development banks (or units)): - Promotional loans granted by a public development credit institution - Promotional loans granted by an entity directly set up by the central government, regional governments or local authorities of a Member State - Promotional loans granted by an entity set up by the central government, regional governments or local authorities of a Member State through an intermediate credit institution)	-	-
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)	-	-
EU-22k	(Total exempted exposures)	-	-
Capital and total exposure measure			
23	Tier 1 capital	1,105.1	1,100.8
24	**Total exposure measure**	17,502.8	20,001.5
Leverage ratio			
25	Leverage ratio	6.31%	5.50%
EU-25	Leverage ratio excluding the impact of the exemption of public sector investments and promotional loans) (%)	6.31%	5.50%
25a	Leverage ratio (excluding the impact of any applicable temporary exemption of central bank reserves)	6.31%	5.50%
26	Regulatory minimum leverage ratio requirement (%)	3.00%	3.00%
EU-26a	Additional own funds requirements to address the risk of excessive leverage (%)	0.00%	0.00%
EU-26b	of which: to be made up of CET1 capital (percentage points)	0.00%	0.00%
27	Leverage ratio buffer requirement (%)	0.00%	0.00%
EU-27a	Overall leverage ratio requirement (%)	3.00%	3.00%
Choice on transitional arrangements and relevant exposures			
EU-27b	Choice on transitional arrangements for the definition of the capital measure	NA	NA
Disclosure of mean values			
28	Mean value of gross SFT assets, after adjustment for sale accounting transactions and netted of amounts of associated cash payables and cash receivables	-	-
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)	17,502.8	20,001.5
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)	17,502.8	20,001.5
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)	6.31%	5.50%
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)	6.31%	5.50%

As of October 2022, the Leverage Ratio hits 6.31%. T1 capital amounts to EUR 1,105.1mm and total Leverage Ratio exposures stand at EUR 17,502.8mm.

Total on-balance sheet exposures (after deduction of assets included in the calculation of Tier 1 capital) represent EUR 15,748.8mm (90% of Total Exposures), total derivatives exposures (including add-ons for Potential Future Exposure) amount to EUR 1,100.3mm (6% of Total Exposures) and off-balance sheet exposures (converted to Credit Equivalent Amounts) reach EUR 653.6mm (4% of Total Exposures).

The following table discloses the breakdown of the on balance sheet exposure measure for Leverage ratio by exposure classes.

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

		CRR leverage ratio exposures
EU-1	**Total on-balance sheet exposures (excluding derivatives, SFTs, and exempted exposures), of which:**	**15,859.4**
EU-2	Trading book exposures	-
EU-3	Banking book exposures, of which:	15,859.4
EU-4	Covered bonds	2.3
EU-5	Exposures treated as sovereigns	12,879.2
EU-6	Exposures to regional governments, MDB, international organisations and PSE not treated as sovereigns	-
EU-7	Institutions	941.3
EU-8	Secured by mortgages of immovable properties	-
EU-9	Retail exposures	-
EU-10	Corporates	1,700.5
EU-11	Exposures in default	-
EU-12	Other exposures (eg equity, securitisations, and other non-credit obligation assets)	336.1

4 Credit Risk

4.1 Credit Risk governance

4.1.1 Definition of Credit Risk

RBC Group defines credit risk as the risk of loss associated with counterparty's potential inability or unwillingness to fulfil its on- and off-balance sheet payment obligations. Credit risk may arise directly from the risk of default of a primary obligor (e.g., issuer, debtor, borrower or policyholder), or indirectly from a secondary obligor (e.g., guarantor, reinsurance) and/or through off-balance sheet exposures, contingent credit risk and/or transactional risk. Credit risk includes both loans and counterparty credit risk from non- trading activities.

4.1.2 Business Model and Risk Profile

Below is a summary of the key activities of RBCIS Bank that generate credit and counterparty credit risk:

- Treasury Activities – RBCIS Bank's Treasury function manages balance sheet, generally through high quality sovereign debt or secured activity with global banks with high level of liquidity;
- Foreign Exchange – RBCIS Bank offers foreign exchange services (primarily FX swaps and forwards) to facilitate the hedging of clients' investment portfolio and share classes. The transactions have short term maturity (less than one year). Aggregate FX positions are offset in the market to minimize currency risk. Security package is generally taken under the form of an ISDA with a CSA providing lien on clients' assets;
- Fund Finance and Overdrafts – RBCIS Bank provides clients with secured committed or uncommitted credit facilities. The contractual settlement of securities and capital transactions may result in temporary short positions in client cash accounts, that are generally secured with a lien on clients' assets. The committed lending activity can provide bridge financing between client's capital calls. These commitments are secured with a lien over the account where capital calls are paid by underlying investors;
- Cash deposits in the different banks of our correspondents network; these cash balances represent credit risk exposures to RBCIS Bank in case of bankruptcy of the agent banks. The Bank has implemented strong requirements and processes around selection and monitoring of said agent banks.

Overall, RBCIS Bank has limited appetite for Credit Risk, which is mitigated through the nature and monitoring of risk exposures, as well as related risk ratings and concentration. The Bank's Risk Appetite, including the credit risk appetite measures, is approved by the BoD at least annually and the credit risk profile is overseen by the BoD and its Risk Committee, the RBC I&TS Credit Risk Committee and the ExCo.

4.1.3 Organization and Functions involved in Credit Risk Management

Please also refer to section 1.2 'Description of the risk governance structure' in terms of generic roles and responsibilities for Risk Management. RBCIS Bank has established a comprehensive credit risk policy framework that covers requirements in terms of Governance, Credit Risk Approval Authorities, Credit Risk Limits, Credit Risk Identification and Assessment, Credit Risk Mitigation, Credit Monitoring, Credit Deterioration, Credit Risk Measurement Methodologies and Reporting.

RBCIS Bank manages credit origination at both the individual exposure level as well as the portfolio level. Credit risk assessment and approval are managed in the internal credit approval system. The internal policy requires approvals by different authority, up to the ExCo, based upon the size of the aggregate exposure under consideration and the creditworthiness of the counterparty.

The monitoring of Credit Risk, including exposures and counterparty creditworthiness, is performed by the 1st line of defense Client Operations and Credit team, as well as the 2nd line of defense Group Risk Management function.

Other relevant information include:

RBC I&TS Credit Risk Committee

The Committee is established to enable effective oversight and management of credit risk within RBC Investor & Treasury Services. This includes monitoring the credit risk profile of RBC I&TS, assess credit risk concentrations, review credit exposures at risk (e.g. watch list, defaults, …) and provide strategic direction and guidance in order to manage all material credit risks impacting I&TS segment and RBCIS Bank, as applicable.

Implementation of the three lines of defense model

The 1st line of defense credit units prepare and submit credit requests, monitor any potential excess to approved limits and verify clients comply with all covenants defined in the credit/pledge agreements.

The 2nd line Risk Management function reviews and approves credit requests, oversee the 1st line of defense credit units' monitoring activities and evaluate credit limit excesses and credit events. Risk Management provides independent credit risk reporting to the ExCo and Risk Committee of the BoD. Risk Management is also responsible for performing regular credit risk stress test.

Other information on Counterparty Limits / Risk Assessments

The evaluation of counterparties and the credit risk classification takes place within the "credit assessment" process. The Bank assigns credit risk ratings to its borrowers to reflect its assessment of the specific credit risk of each borrower over a 3-year horizon (or full credit cycle as appropriate) starting from the time of risk assessment or revision or confirmation. The 3-year time horizon is consistent with the term of the majority of the credit risk exposures. The Bank extends the term of the rating horizon in the case of specific portfolios where the nature of the business predominantly exposes the Bank to longer term exposures. On the other hand, the ratings of very weak borrowers are assigned to primarily reflect their riskiness based on current conditions and short-term expectations. The rating is determined through an assessment of factors, specific to the industry and/or product, that differentiate the riskiness of the borrowers and reflects the probability of default of the borrower over the time horizon of the rating. The currency of the rating is maintained through a process of continuous monitoring and periodic review.

Where applicable, internal ratings are systematically compared with external ratings from Moody's, Standard & Poor's and are adjusted where applicable. Approved credit limits for funds should be revisited at least annually as part of the review of each Group of Funds single name overall limits. For non-fund counterparties limits are reviewed on annual, bi-annual or within a three-year cycle. Borrowers with material deterioration in credit quality which may breach their covenant are added to a watch list for monitoring, and action is taken as appropriate.

4.2 Credit risk exposure

4.2.1 Exposure breakdown by residual maturity

In the application of Article 442 (g) in the CRR, the table EU CR1-A displays the breakdown of loans and debt securities by residual maturity. For on-balance-sheet items, the net exposure value captures the gross carrying value of exposure less allowances/impairments. For off-balance-sheet items, the net value captures the gross carrying value of exposure less provisions. The net exposure value is split into maturity categories based on their residual contractual. When a counterparty has a choice of when an amount is repaid, the amount is allocated to column 'on demand'. It includes 'overdrafts' that are debit balances on current account balances. When an exposure has no stated maturity for reasons other than the counterparty having the choice of the repayment date, the amount of this exposure shall be disclosed in column 'no stated maturity'. When the amount is repaid in instalments, the exposure shall be allocated in the maturity bucket corresponding to the last instalment.

Template - EU CR1-A Maturity of exposures

	Net exposure value					
in EUR million	On demand	<=1 year	>1 year <= 5 years	>5 years	No stated maturity	Total
Loan and advances	519	813	495	-	-	1,827
Debt securities	-	66	559	-	-	625
Total	**519**	**879**	**1,054**	**-**	**-**	**2,452**

Credit quality of exposures

In the application of Article 442 (c) (f) in the CRR, the following tables provide a breakdown of defaulted and non-defaulted exposures by regulatory exposure classes.

Template- EU-CR1 Performing and non-performing exposures and related provisions

	(amounts in EUR million)	Gross carrying amount/nominal amount						Accumulated impairment, accumulated negative changes in fair value due to credit risk and provisions						Accumulated partial write-off	Collaterals and financial guarantees received	
		Performing exposures			Non-performing exposures			Performing exposures - Accumulated impairment and provisions			Non-performing exposures - Accumulated impairment, accumulated negative changes in fair value due to credit risk and provisions				On performing exposures	On non-performing exposures
			of which: stage 1	of which: stage 2		of which: stage 2	of which: stage 3		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**	**13,321**	**13,321**	-	-	-	-	-	-	-	-	-	-	-	-	-
010	**Loans and advances**	**1,827**	**1,827**	-	-	-	-	**- 0.3**	**- 0.3**	-	-	-	-	-	-	-
020	Central banks	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
030	General governments	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
040	Credit institutions	156	156	-	-	-	-	-0.02	- 0.02	-	-	-	-	-	-	-
050	Other financial corporations	1,671	1,671	-	-	-	-	- 0.26	- 0.26	-	-	-	-	-	-	-
060	Non-financial corporations	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
070	Of which: SMEs	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
080	Households	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
090	**Debt Securities**	**625**	**625**	-	-	-	-	-	-	-	-	-	-	-	-	-
100	Central banks	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
110	General governments	66	66	-	-	-	-	-	-	-	-	-	-	-	-	-
120	Credit institutions	559	559	-	-	-	-	-	-	-	-	-	-	-	-	-
130	Other financial corporations	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
140	Non-financial corporations	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
150	**Off-balance sheet exposures**	**1,857**	**1,857**	**-**	**-**	**-**	**-**	**0.01**	**0.01**	**-**	**-**	**-**	**-**	-	-	-
160	Central banks	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
170	General governments	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
180	Credit institutions	0.165	0.165	-	-	-	-	-	-	-	-	-	-	-	-	-
190	Other financial corporations	1,857	1,857	-	-	-	-	0.01	0.01	-	-	-	-	-	-	-
200	Non-financial corporations	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
210	Households	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

In the application of Article 442 (c) (d) in the CRR, the tables below provide a breakdown of defaulted and non-defaulted exposures by past due days.

Template-EUCQ3 –Credit quality of performing and non-performing exposures by past due days

		Gross carrying amount / Nominal amount (amounts in EUR million)											
		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 past-due < = 90 days	Past due > 90 days <= 180 days	Past due > 180 days < =1 year	Past due > 1 year <= 2 years	Past due > 2 year <= 5 years	Past due > 5 year <= 7 years	Past due > 7 years	Of which defaulted
005	Cash balances at central banks and other demand deposits	13,321	13,321	-	-	-	-	-	-	-	-	-	-
010	**Loans and advances**	**1,827**	**1,827**	-	-	-	-	-	-	-	-	-	-
020	*Central banks*	-		-	-	-	-	-	-	-	-	-	-
030	*General governments*	-		-	-	-	-	-	-	-	-	-	-
040	*Credit institutions*	156	156	-	-	-	-	-	-	-	-	-	-
050	*Other financial corporations*	1,671	1,671	-	-	-	-	-	-	-	-	-	-
060	*Non-financial corporations*	-	-	-	-	-	-	-	-	-	-	-	-
070	***Of which SMEs***	-	-	-	-	-	-	-	-	-	-	-	-
080	*Households*	-	-	-	-	-	-	-	-	-	-	-	-
090	**Debt Securities**	**625**	**625**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
100	*Central banks*	-	-	-	-	-	-	-	-	-	-	-	-
110	*General governments*	66	66	-	-	-	-	-	-	-	-	-	-
120	*Credit institutions*	559	559	-	-	-	-	-	-	-	-	-	-
130	*Other financial corporations*	-	-	-	-	-	-	-	-	-	-	-	-
140	*Non-financial corporations*	-	-	-	-	-	-	-	-	-	-	-	-
150	**Off-balance sheet exposures**	**1,857**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
160	*Central banks*	-	-	-	-	-	-	-	-	-	-	-	-
170	*General governments*	-	-	-	-	-	-	-	-	-	-	-	-
180	*Credit institutions*	-	-	-	-	-	-	-	-	-	-	-	-
190	*Other financial corporations*	1,857	-	-	-	-	-	-	-	-	-	-	-
200	*Non-financial corporations*	-	-	-	-	-	-	-	-	-	-	-	-
210	*Households*	-	-	-	-	-	-	-	-	-	-	-	-
220	***Total***	**4,310**	**2,452**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**

4.3 Non Performing Exposures

4.3.1 Definitions

RBCIS Bank Consolidated Financial Statements provide, in the "Financial Instruments / Classification of Financial instruments" sub-section, with definition, classification and valuation of Non-Performing Exposures and related notions.

4.3.2 Non Performing Exposures Policies / Strategy

RBCIS Bank leverages RBC policies for the management of delinquent and default accounts and has factored local regulatory requirements in its own credit risk policy. RBCIS Bank has defined in its credit risk policy the available options should a Non-Performing Exposures arise, including:

- materiality thresholds for the identification of non-performing exposures on the basis of the 90 days past due criterion (which is set to EUR 10,000 for the time being);
- methods used for days past due counting. The Bank considers a Credit Exposure being past due when the contractual payment of either principal of interest is not received by the Bank within agreed payment schedule. For each day after the contractual due date on which a payment is not received by RBC, the counting of days past due will increase by one.
- indicators of unlikeliness to pay, which act as a trigger to classify exposures as Non Performing (e.g. the Borrower has sought or been placed in bankruptcy administration or similar protection, decline in perceived credit quality, borrower has breached the covenants of a credit contract);
- effective average duration of the cure period and probation period (e.g. the exposure meets the exit criteria applied by the reporting institution for the discontinuation of the impairment and default classification and this has been the case for a period of not less than 3 months)
- management of Non-Performing Exposures, including the use of forbearance agreement or the exercise of legal and contractual rights.
- the impairment policy for non-performing exposures.

RBCIS Bank has no appetite to material Non Performing Exposure. RBCIS Bank has not experienced any significant impairment on Non-Performing Loans in Fiscal 2020 to 2022.

4.3.3 Forborne exposure and non-performing loans

The Bank does not have any forborne exposure nor any non-performing loans at year-end. Consequently, Templates EU CQ1 Credit quality of forborne exposure, EU CQ2 Quality of forbearance, EU CQ4 Quality of non-performing exposures by geography and EU CQ5 Credit quality of loans and advances by industry are not included in Pillar 3.

4.3.4 Changes in the stock of specific credit risk adjustments

There was no specific credit risk adjustment (i.e. no amount of specific loan loss provision for credit risks) nor any related recovery recorded directly to the income statement during the year end October 31st, 2022. Consequently, templates EU CR2a Changes in the stock of non-performing loans and advances and related net accumulated recoveries is not included in Pillar 3.

4.3.5 Changes in the stock of defaulted and impaired loans and debt securities

No default was noted and no change in related stock.

4.4 Credit risk mitigation

4.4.1 Description of the main types of credit risk mitigants (CRM)

RBCIS Bank uses the following Credit Risk Mitigants to manage its credit risk.

Collateral / guarantees

The Enterprise Policy on Collateral Management defines eligible collateral and guarantees, as well as valuation methodology, frequency of valuation, legal documentation and enforceability requirements.

The main credit mitigants used by RBCIS Bank are:

- Lien on client assets, set off, retention and power of sale. Client depositary agreements also include provisions in terms of transaction processing, subscriptions and redemptions settlement and security interests;
- International Swaps and Derivative Association master agreements ('ISDA'), Credit Support Annex ('CSA') or Credit Support Deed (CSD) to cover Forex activity;
- Priority interest over the uncalled capital of institutional investors receiving committed loans.

Some of the high-quality liquid assets of RBCIS Bank are also covered by state guarantees. RBCIS Bank does not hold pledges of real estate or commercial assets (e.g. transfer of receivables).

As at October 31st, 2022 the Bank did not hold any collateral against loans and advances made to customers. Consequently, EU CQ6: Collateral valuation - loans and advances is not included in Pillar 3.
The Bank has not taken possession of collateral or engaged in processes to execute collateral agreements in 2022. Consequently, Templates EU CQ8 and EU CQ7 Collateral obtained by taking possession and execution processes are not included in Pillar 3.

4.4.2 Basel III treatment

RBCIS Bank has adopted the Financial Collateral Comprehensive Approach to take advantage of any sort of collateralization. Collateral is eligible only if it meets the CRR conditions. RBCIS Bank considers the following four credit risk mitigation techniques: Financial collateralized transactions, on-balance sheet netting, guarantees and OTC netting.

4.4.3 Overview of credit risk mitigation techniques

In the application of Article 453 (f), the following table provides an overview of the impact of risk mitigation techniques on credit exposure amounts (refer to 4.6.2 for OTC exposures).

Template - EU CR3 – Credit risk mitigation techniques – overview: Disclosure of the use of credit risk mitigation techniques

	Unsecured carrying amount *(amounts in EUR million)*	**Secured carrying amount** *(amounts in EUR million)*			
			Of which **secured by collateral**	Of which **secured by financial guarantees**	Of which **secured by credit derivatives**
	a	b	c	d	e
Loans and advances	15,148	-	-	-	-
Debt securities	625	-	-	-	-
Total	15,773	-	-	-	-
Of which non-performing exposures					
Of which defaulted					

4.5 Standardized approach

RBCIS Bank uses the standardized approach to calculate its regulatory capital requirements

4.5.1 External credit assessment institutions

The standardized approach provides weighted risk figures based on external ratings given by External Credit Assessment Institutions (ECAI's) as indicated in the CRR. In order to apply the standardized approach for risk weighted exposure, RBCIS Bank uses external ratings assigned by the following rating agencies: Standard & Poor's and Moody's.

The "second best approach" is used for the selection of the external ratings for the regulatory capital calculation. If no external rating is available, the CRR provides specific risk weights to be applied.

Table 0-1 - Mapping of ECAIs' credit assessments to credit quality steps

Credit Quality Step	Moody's assessments	S&P's assessment
1	Aaa to Aa3	AAA to AA-
2	A1 to A3	A+ to A-
3	Baa1 to Baa3	BBB+ to BBB-
4	Ba1 to Ba3	BB+ to BB-
5	B1 to B3	B+ to B-
6	Caa1 and below	CCC+ and below

4.5.2 Standardized approach – Credit risk exposure and Credit Risk Mitigation effects

The following table shows credit risk exposure before credit conversion factor (CCF) and credit risk mitigation (CRM) and the exposure-at-default (EAD) after CCF and CRM broken down by exposure classes and a split in on- and off-balance sheet exposures, under the standardized approach. Exposures subject to the counterparty credit risk (CCR) and securitization risk framework are excluded from this template.

Template - EU CR4: Standardized approach – credit risk exposure and Credit Risk Mitigation effects

	Exposure classes *(amounts in EUR million)*	Exposures before CCF and before CRM	Exposures post CCF and post CRM	RWAs and RWAs density			
		On-balance-sheet exposures	Off-balance-sheet exposures	On-balance-sheet exposures	Off-balance-sheet exposures	RWEA	RWEA density (%)
		a	B	c	d	e	f
1	Central governments or central banks	12,816.81	4.80	12,821.98	4.80	12.30	0.10%
2	Regional government or local authorities	-	-	-	-	-	-
3	Public sector entities	-	-	-	-	-	-
4	Multilateral development banks	62.41	-	62.41	-	-	-
5	International organisations	-	-	-	-	-	-
6	Institutions	740.91	201.34	735.72	0.06	218.38	29.68%
7	Corporates	1,665.69	1,654.74	1,628.69	588.17	2.142.44	96.64%
8	Retail	-	-	-	-	-	-
9	Secured by mortgages on immovable property	-	-	-	-	-	-
10	Exposures in default	-	-	-	-	-	-
11	Exposures associated with particularly high risk	-	-	-	-	-	-
12	Covered bonds	2.26	-	2.26	-	0.45	20.00%
13	Institutions and corporates with a short-term credit assessment	235.26	-	235.26	-	47.05	20.00%
14	Collective investment undertakings	-	-	-	-	-	-
15	Equity	-	-	-	-	-	-
16	Other items	336.05	-	33.05	-	308.17	91.71%
17	**TOTAL**	**15,859.38**	**1,860.88**	**15,822.37**	**593.03**	**2,728.79**	**16.62%**

As of October 31, 2022, RBCIS Bank is exposed to well rated counterparties, incurring an average risk weight close to 0% for the “Central governments or central banks” category, 20% for the “Institutions” category (mostly including banks) and 97% for the “Corporate” asset class (mostly investment funds). A 100% risk weight is applied for all non-rated investment funds counterparties.

4.5.3 Standardized approach – exposures by asset classes and risk weights

In the application of Article 444(e), the following table shows the exposure-at-default post conversion factor and risk mitigation broken down by exposure classes and risk weights, under the standardized approach. Counterparty credit risk exposures are excluded from this table. Only risk weights with non-null amounts are showed.

Template 20- EU CR5 – Standardized approach – exposures by asset classes and risk weights

(note that risk weights with no exposure are not reported)

	Exposure classes *(amounts in EUR million)*	0%	20%	50%	100%	250%	Total	Of which unrated
		a	e	g	j	l	p	q
1	Central governments or central banks	12,821.7	-	-	0.3	4.8	12,826.8	0.3
2	Regional government or local authorities	-	-	-	-	-	-	-
3	Public sector entities	-	-	-	-	-	-	-
4	Multilateral development banks	62.4	-	-	-	-	62.4	-
5	International organisations	-	-	-	-	-	-	-
6	Institutions	-	520.2	202.5	13.1	-	735.8	12.2
7	Corporates	-	29.0	102.5	2,085.4	-	2,216.9	2.115.9
8	Retail	-	-	-		-	-	-
9	Secured by mortgages on immovable property	-	-	-		-	-	-
10	Exposures in default	-	-	-		-	-	-
11	Exposures associated with particularly high risk	-	-	-		-	-	-
12	Covered bonds	-	2.3	-		-	2.2	-
13	Institutions and corporates with a short-term credit assessment	-	235.2	-		-	235.2	-
14	Unit or shares in CIU	-	-	-		-	-	-
15	Equity	-	-	-		-	-	-
16	Other items	-	34.8	-	301.2	-	336.1	334.5
17	**TOTAL**	**12,884.1**	**821.5**	**305.0**	**2,400.0**	**4.8**	**16,415.4**	**2,462.9**

4.6 Counterparty credit risk

4.6.1 Management of counterparty risk

RBC defines Counterparty Credit risk as the risk of financial loss arising from the failure of a counterparty or client with whom RBCIS Bank has entered into derivative transactions, interbank placements, securities or FX.

We refer to section 4.1.2 for FX activities which are the only derivative transactions entered into during the year.

Wrong way Risk

RBCIS Bank has limited exposure to wrong-way risk, i.e. the risk that exposure to a counterparty or obligor is adversely correlated with the credit quality of that counterparty.

Regarding the specific Wrong-Way Risk[4], the Bank does not enter into contracts with underlying instruments linked to the counterparty (i.e. derivative contracts based on the counterparty's own securities, reverse repo transactions with counterparty's securities used as collateral).

Regarding the General (or Systemic) Wrong-Way Risk[5], it is limited given the nature of the Bank's exposures where for instance client driven FX exposures are covered in the market, with RBCIS Bank not taking any active positions.

Counterparty Credit Risk Mitigation

Master netting agreements with counterparties are used to mitigate counterparty credit risk stemming for derivative transactions by offsetting receivables and payables with each counterparty. Variation margin exchange, defined under CSA ('Credit Support Annex'), are also used by RBCIS Bank to mitigate counterparty credit risk.

[4] when an exposure to a particular counterparty is positively and highly correlated with the probability of default of the counterparty due to the nature of our transactions with them

[5] when there is a positive correlation between the probability of default of counterparties and general macroeconomic or market factors. This typically occurs with derivatives (e.g. the size of the exposure increases) or with collateralized transactions (the value of the collateral declines).

4.6.2 Analysis of CCR exposures by model approach

In the application of Article 439 (f) (g) and (k) in the CRR, the following table shows the methods used for calculating the regulatory requirements for CCR exposure. Exposures cleared through a central counterparty (CCP) are excluded.

Template - EU CCR1: Analysis of CCR exposure by approach

	(amounts in EUR million)	Replacement cost (RC)	Potential future exposure (PFE)	EEPE	Alpha used for computing regulatory exposure value	Exposure value pre-CRM	Exposure value post-CRM	Exposure value	RWEA
EU1	EU - Original Exposure Method (for derivatives)				1.4				
EU2	EU - Simplified SA-CCR (for derivatives)				1.4				
1	SA-CCR (for derivatives)	392.1	708.3		1.4	1,452.6	1,540.5	1,540.5	1,141.2
2	IMM (for derivatives and SFTs)								
2a	*Of which securities financing transactions netting sets*								
2b	*Of which derivatives and long settlement transactions netting sets*								
2c	*Of which from contractual cross-product netting sets*								
3	Financial collateral simple method (for SFTs)								
4	Financial collateral comprehensive method (for SFTs)								
5	VaR for SFTs								
6	**Total**					**1,452.6**	**1,540.5**	**1,540.5**	**1,141.2**

4.6.3 CVA capital charge

In the application of Article 439 (h) in the CRR, the following table provides the exposure value and risk exposure amount of transactions subject to capital requirements for credit valuation adjustment. RBCIS Bank's OTC derivatives exposures are subject to credit valuation adjustment. RBCIS Bank uses the standardized approach to calculate CVA capital charge.

Template - EU CCR2 – Credit valuation adjustment (CVA) capital charge

		a - Exposure	b - RWA
1	Total portfolios subject to the Advanced CVA capital charge	-	-
2	(i) VaR component (including the 3× multiplier)		-
3	(ii) Stressed VaR component (including the 3× multiplier)		-
4	All portfolios subject to the Standardized CVA capital charge	1,139.73	152.04
EU4	Based on Original Exposure Method		
5	**Total subject to the CVA capital charge**	**1,139.73**	**152.04**

4.6.4 Exposures to CCP

RBCIS Bank is not exposed to central counterparties. Hence, the template EU CCR6 under Point (j) of Article 439 is not applicable to RBCIS Bank.

4.6.5 Exposures to credit derivatives

RBCIS Bank is not exposed to credit derivatives. Hence, template EU CCR8 under Point (i) of Article 439 is not applicable to RBCIS Bank.

4.6.6 Standardized approach - CCR exposures by exposure class and risk weight

In the application of Article 444 (e) in the CRR, the following table provides a view of counterparty credit risk exposures.

Template - EU CCR3: Standardized approach – CCR exposures by regulatory portfolio and risk.

	Exposure classes	Risk weight											
		a	b	c	d	e	f	g	h	I	j	k	L
		0%	2%	4%	10%	20%	50%	70%	75%	100%	150%	Others	Total exposure value
1	Central governments or central banks	-	-	-	-	-	-	-	-	-	-	-	-
2	Regional government or local authorities	-	-	-	-	-	-	-	-	-	-	-	-
3	Public sector entities	-	-	-	-	-	-	-	-	-	-	-	-
4	Multilateral development banks	-	-	-	-	-	-	-	-	-	-	-	-
5	International organisations	-	-	-	-	-	-	-	-	-	-	-	-
6	Institutions	-	-	-	-	216.15	-	-	-	-	-	-	216.15
7	Corporates	-	-	-	-	-	-	-	-	1,041.38	-	-	1,041.38
8	Retail	-	-	-	-	-	-	-	-	-	-	-	-
9	Institutions and corporates with a short-term credit assessment	-	-	-	-	282.93	-	-	-	-	-	-	282.93
10	Other items	-	-	-	-	-	-	-	-	-	-	-	-
11	**Total exposure value**	-	-	-	-	**499.08**	-	-	-	**1,041.38**	-	-	**1,540.46**

Investments funds are reported as Corporates. Most of nominated ECAIs do not rate investments funds counterparties. Hence, they are assigned a 100% risk weight.

4.6.7 Impact of netting and collateral held on exposure value for derivatives and SFTs

In the application of Article 439 (e) in the CRR, the following tables present information on counterparty credit risk exposure and the impact of netting and collateral held as well as the composition of collateral used in both derivatives transactions and securities financing transactions (SFT).
RBCIS Bank is solely exposed to derivatives transactions and consequently does not hold securities financings transactions.

Template - EU CCR5 - Composition of collateral for CCR

		a	b	c	d	e	f	g	h
		Collateral used in derivative transactions				Collateral used in SFTs			
	Collateral type (amounts in EUR million)	Fair value of collateral received		Fair value of posted collateral		Fair value of collateral received		Fair value of posted collateral	
		Segregated	Unsegregated	Segregated	Unsegregated	Segregated	Unsegregated	Segregated	Unsegregated
1	Cash – domestic currency		69.79		137.26				
2	Cash – other currencies		183.31		101.09				
3	Domestic sovereign debt								
4	Other sovereign debt								
5	Government agency debt								
6	Corporate bonds								
7	Equity securities								
8	Other collateral								
9	**Total**		**253.10**		**238.35**				

4.6.8 Impact on collateral to be provided in case of credit rating downgrade

The Bank considers that, at this stage, there would be no additional amount of collateral to be provided by RBCIS Bank in case of downgrade in its credit rating.

5 Market Risk

5.1 Definition of Risk

Market Risk is the impact of market prices upon the financial condition of the firm. This includes potential gains or losses due to changes in market determined variables such as interest rates, credit spreads, equity prices, commodity prices, foreign exchange rates and implied volatilities.

Market risk can be exacerbated by thinly-traded or illiquid markets. For an overview of Market Risk sub-risks, please refer to the RBC Enterprise Market Risk Framework.

5.2 Risk Overview

5.2.1 Risk Profile

The different business areas within RBCIS Bank with a contribution to Market risk are:

- *Cash and Liquidity Management* - This business holds an inventory of institutional, supranational, government and financial (covered) bonds sensitive to credit spread risk and – to a lesser extent – to interest rate risk. The portfolio has a relatively short duration, high credit quality and is used to manage RBCIS Bank's liquidity. T he Investment policy allows investment of assets in a prudent manner that avoids undue risk of loss while earning a reasonable rate of return.
- *FX services* - which are incidental to supporting clients' needs. Limited intraday FX positions and very small overnight positions are authorized to allow for residual small client trades to be aggregated intraday and placed through professional market counterparties. Limits are established based on the volumes and currency volatility by trading location. These positions are monitored tightly on a daily basis by Market Risk Unit in Risk Management. No speculative trading position is allowed. RBCIS Bank's policy is to avoid market risk, and proprietary trading activities are not part of the strategy given the current risk appetite. Therefore there is no material exposure to market risk in the RBCIS Bank's Trading book.

In addition, from time to time, operational events for securities transactions may cause RBCIS to hold relatively small short-term positions; these are then typically liquidated in an orderly fashion. The inherent risk in these positions is kept to a minimum as they are liquidated or hedged at the earliest possible time. These positions are captured by the operational risk processes.

5.2.2 Risk Quantification

RBCIS Bank uses a range of risk measurement metrics and limits to understand and manage the risks that the business is exposed to such as:

- Value-at-Risk (VaR) and stress VaR (SVaR) Stress testing (historical & hypothetical stress scenarios and sensitivity stress tests);
- Sensitivity measures, including Credit Spread and Interest Sensitivities;
- Other nominal measures (i.e. the FX overnight positions).

The figures below show the Market Risk 1-day 99% VaR, SVaR and stress testing history for the year, which incorporates credit spread risk.

Table 1- RBCIS 1D 99% VaR & SVaR Exposures

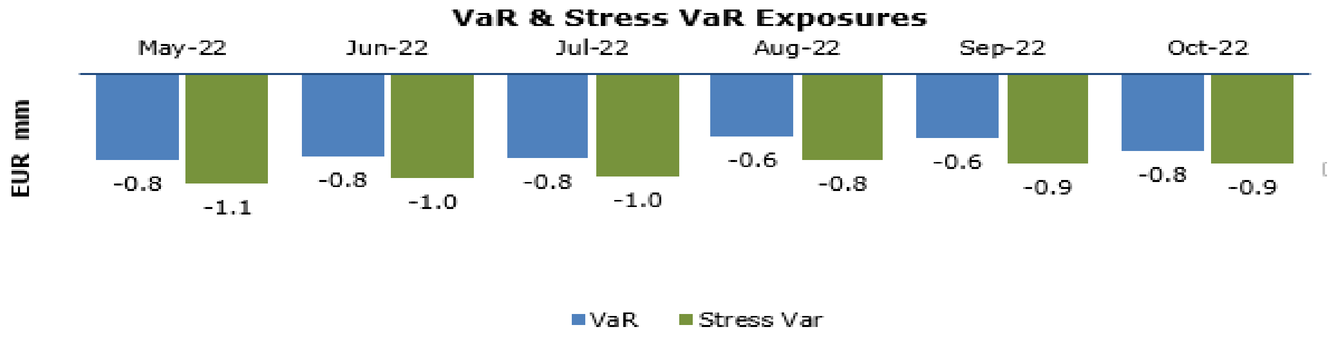
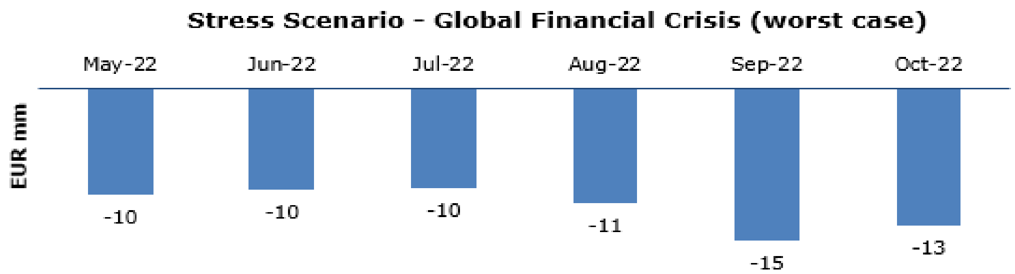


Table 2- RBCIS Stress Testing Worst Case - EUR Reformation

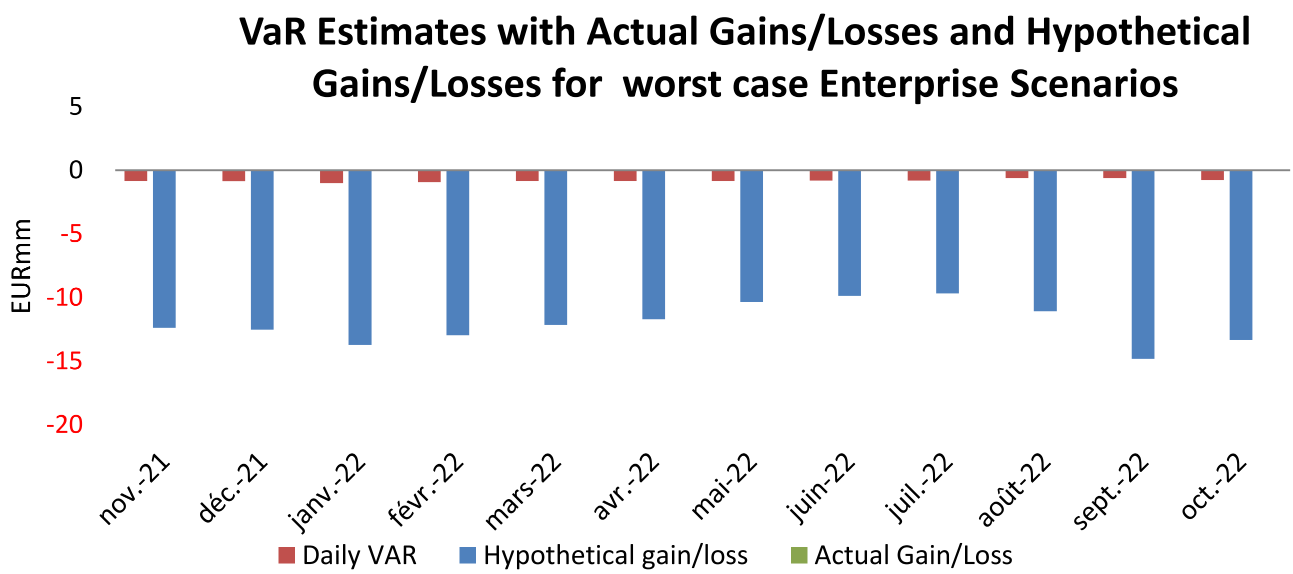


The total notional of the FVOCI portfolio decreased by EUR 129mm to EUR 624mm since November 2021 (-18% for both near) due to matured positions which have not been renewed during the year due to lack of opportunity.

The weighted average maturity of the book remained at 2 year. As a consequence, all market risk metrics have decreased during the period (CS01 decreased by -24% from 147k to EUR 112 k , the VaR decreased by 10% from EUR 0.84mm to 0.76mm and the Stress VaR decreased by 16% from EUR 1.05mm to EUR 0.87mm).

In the application of article 455(g) of the CRR, institutions should disclose VaR estimates vs. actual gains and losses specified in the format of template EU MR4. This evaluates the effectiveness of VaR estimates by comparing it to daily actual P&L.

Template: EU MR4 Comparison of VaR Estimates with Actual Gains/Losses (EUR mm)



5.3 Risk Control and Governance Structure

5.3.1 Risk Control and Reporting

RBCIS Bank's Market risk appetite is set and reviewed by the RBCIS Bank Board. RBCIS Bank has a range of limits in place covering the risk measurement metrics noted above. All limits set by RBCIS Bank are consistent with the stated risk appetite. In addition to the RBCIS Bank Board approved limits, operational limits can also be set at the RBCIS Bank CRO (Chief Risk Officer) level. Exposures are also limited by the RBC Group limit structure.

GRM - Market and Counterparty Credit Risk (MCCR) function produces daily reports for the business and senior management detailing RBCIS Bank's Market risk profile against limits, as well as monthly summary reports to the RBCIS Bank BoD (or its risk Committee) and the ExCo.

Breaches of Board limits are reported to the Risk Committee of the BoD and the ExCo at its next meeting. Excesses to Operational limits are reported to the ExCo and to the Conduct Risk Committee chaired by Senior Vice President-MCCR and assigned a Red, Amber or Green rating. The decision will then be shared with the senior business management team and HR for any remedial action.

5.3.2 Key Risk Mitigations Policies

The Investment policy limits the permissible investments as described in the table below:

Table 5-1: Metrics and Investment Policy Constraint

Metric	Investment Policy Constraint
Maximum maturity	< 7.0Y
Maximum weighed average portfolio maturity	< 4.5Y
Asset Quality	Level 1, Level 2a and Level 2b
Concentration in Level 2A (on Total HQLA)	< 40%
Concentration in Level 2B (on Total HQLA)	< 15%
Swiss Covered Bonds restricted to Credit Suisse and UBS issuers that are not eligible as EBA HQLA	< EUR 400 mm
Max. Allocation by individual issuer	< 20%

The above quantitative metrics are supplemented by qualitative metrics on the type of authorized assets (Fixed or floating rate fixed income products) and authorized countries.

In addition, advanced quantitative metrics (VaR, Stress VaR and Stress scenarios) are calculated and monitored on a daily basis against RBCIS Bank operational limits.

Any breaches of the Investment Policy or of any of the operational limits will be escalated directly to the IS Bank's CRO and Treasurer and reported to the next ExCo and also to the Conduct Risk Committee.

RBC IS Bank has a defined trading Product Mandate as approved by the New Business Committee (NBC). Both Local Market Risk and Enterprise Market Risk teams are part of the NBC approval process. The Product Mandate defines the set of products that a desk is permitted to trade to ensure all trades have the appropriate level of functional support and risk capture. Any breach of the Product Mandate follows the same escalation process applicable for limits breaches.

5.3.3 Currency Risk Management

5.3.3.1 Currency Risk Control and Reporting

Currency Risk or exchange rate risk refers to the exposure faced by investors or companies that operate across different countries, in regard to unpredictable gains or losses due to changes in the value of one currency in relation to another currency. RBCIS does not hold significant spot open positions.

The Bank conducts foreign exchange intermediation activity i.e. offers execution and sales services to its clients. In addition, the Bank may be exposed to foreign exchange risk on its foreign currency commission revenues and on its long term capital investments in subsidiaries.

The Bank's trading currency position is managed on a real time basis by the Front Office dealers. Most of transactions are booked separately, without delay and daily in the Front Office system "Kondor+". "Kondor+" is interfaced in real time with the "Back Office" system and the Accounting system.

The Back Office can follow up in real time any operations being pending in the interface between both systems. GRM-MCCR produces a daily report listing the FX overnight positions and limits to the attention of the Chief Risk Officer, the Head of Market desk, and the Head of Risk. In addition, Finance reconciles the Foreign Exchange positions and Profit and Loss results between Front Office records and accounting books.

FX Overnight limits are set up by currency. Intra-day limits are set up for the desk to adhere to during the day trading activity. Any breach of currency risk limits without prior approval will follow the escalation process as defined for other operational limits.

5.3.3.2 Currency Risk Profile

RBCIS is primarily active in those currencies with deep liquid foreign exchange markets such as EUR, USD, CHF and GBP. RBCIS Bank's assets and liabilities are primarily composed of EUR,USD and CHF. The remainder of the balance sheet is denominated in GBP and other.

RBCIS Bank also undertakes FX Swap activities for cash optimization purposes. This activity is short dated by nature (average weighted maturity is 18.43 days during October 2022 compared to 11.33 days during October 2021) and is mainly done in EUR/CHF, EUR/USD, and EUR/GBP.

The currency risk is mitigated by having in place low PV01 limits across all currencies.

Table 5-2: RBCIS FX PV01 Exposures vs. Limits in EUR equivalent

PV01 All Amounts in EUR	Bucket 0 : mty<=3D	Bucket 1 : 3D<mty<=1M	Bucket 2 : 1M<mty<=2M	Bucket 3 : 2M<mty<=3M	Bucket 4 : 3M<mty<=6M	Total	Absolute Total	Limit
AED	0.0					0.0	0.0	2,000
AUD	0.1	-94.7		-502.1		-596.7	596.7	5,000
CAD	-3.6		-541.0			-544.6	544.6	50,000
CHF	6.0	12,000.4	6,357.4			18,363.8	18,363.8	100,000
CNY	-0.2					-0.2	0.2	2,000
CZK	-0.1					-0.1	0.1	2,000
DKK	-7.7	-50.9				-58.7	58.7	15,000
EUR	164.7	-7,929.8	-2,717.3	50,082.4	24,562.7	64,162.7	64,162.7	100,000
GBP	-49.3	-756.6				-806.0	806.0	40,000
HKD	-0.4	-154.7	-1,067.5	-959.0		-2,181.6	2,181.6	40,000
HUF	-0.5					-0.5	0.5	2,000
ILS	-2.9					-2.9	2.9	2,000
JPY	-4.9		-1,948.1			-1,953.0	1,953.0	20,000
MAD	0.0					0.0	0.0	2,000
MXN	-1.9					-1.9	1.9	2,000
NOK	7.0	-279.8				-272.8	272.8	15,000
NZD	-0.2					-0.2	0.2	2,000
PLN	-6.4					-6.4	6.4	2,000
QAR	0.2	0.6				0.7	0.7	2,000
SEK	18.1	-965.4				-947.4	947.4	15,000
SGD	4.0					4.0	4.0	2,000
TRY	-0.1					-0.1	0.1	2,000
USD	-126.1	-1,477.0		-48,155.5	-24,272.6	-74,031.0	74,031.0	100,000
ZAR	-0.8					-0.8	0.8	2,000
Grand Total	-5.3	292.1	83.5	465.8	290.2	1,126.2	1,126.2	526,000.0

5.3.3.3 Key Vulnerabilities

By nature the level of risk in the Trading book is low and there are no identified vulnerabilities.
The market risk in the banking book is mainly driven by the credit spread risk in the FVOCI portfolio. As the FVOCI portfolio at the end of October 2022 has decreased to EUR 0.6bn hence the inherent risks associated to the FVOCI portfolio is considered as Low.

5.4 Trading Book Procedures and Systems

The only permissible instruments are FX spots, FX Outright Forwards and FX Swaps of maximum tenor of 1 Year and on a list of selected currencies.

Operational limits are set to limit the residual FX overnight positions. The limits are set at very low levels as there is no risk appetite to keep open positions overnight.

At the end of October 2022, the VaR exposure had very low usage compared to the limit:

Table 5-3: VaR and SVaR Usage vs. Limit in 2022

	Operational Limit in EUR	Metric in EUR	Usage
VaR	50,000	38,948	78%
Stress VaR	85,000	12,894	15%

5.5 Own Funds Requirement for Market Risk under the Standardized Approach

At the end of October 2022, the Own Funds Requirement for Market Risk under the Standardized Approach remained low in line with previous year as we still have no Options and Securitization.

Template EU MR1-Own Funds Requirement for Market Risk under the Standardized Approach

In EUR mm	RWAs	Capital Requirements
Outright Products	89.2	7.1
Interest rate risk (General and Specific)	0.02	0
Equity risk (General and Specific)	0	0
Foreign exchange risk	89.2	7.1
Options	0	0
Simplified approach	0	0
Delta-plus method	0	0
Scenario approach	0	0
Securitisation (specific risk)	0	0
Total	89.2	7.1

6 Liquidity Risk

6.1 Risk management objectives and policies for liquidity risk

6.1.1 Governance and Risk Control

6.1.1.1 Governance Summary

RBCIS Bank employs a three lines of defense model with respect to liquidity risk. This provides segregation between those who take on risk, those who control risk and those who provide assurance.

The table below shows the authorities for governance of key risk control elements. The table 6-1 below provides the roles and responsibilities across 1st line, 2nd line and approval committees.

GRM, and the CRO, form key components of the overall risk framework of RBCIS Bank.

Table 6-1 – Liquidity Risk Governance summary

Key risk control element	1st Line of defense	2nd Line of defense		Committees		
	Corporate Treasury	GRM Liquidity Risk and Chief Risk Officer	Enterprise Model Risk Management	ALCO	EXCO	BoD
1. Measurement, Methodologies and Models	Propose	Approve	Model vetting	Approve	Approve	Approve
2. Parameters and Assumptions	Propose	Approve	Not applicable	Approve	Approve	Approve
3. Metrics	Propose	Approve	Not applicable	Approve	Approve	Approve
4. Limits	Propose	Approve	Not applicable	Approve	Approve	Approve

6.1.1.2 Overall Governance – Three lines of defense model

RBCIS Bank's three lines of defense model is described in detail below:

- **1st Line of Defense**

The first line of defense for risks arising from the management of liquidity is provided by the business and support functions embedded in the business and comprises Treasury and Market Services (TMS) and Corporate Treasury (CT).

Treasury & Market Services (TMS)

- TMS ensures the management of unsecured intra-group funding to tenor limits;
- Tests, at least annually, the access to central bank facilities under direction from CT (the results of these tests are reported to RBCIS Bank ALCO);
- Under the directive of CT based on the guidelines laid out in the RBCIS Bank Investment Policy, maintains a suitable diversified High Quality Liquid Assets (HQLA) buffer.

Corporate Treasury (CT)

- Provides risk identification, assessment, mitigation, control and reporting in accordance with established RBCIS Bank risk policies;
- Ensures alignment of business and operational strategies with corporate risk culture and risk appetite;
- Plays a monitoring, advisory, policy and coordinating role with respect to balance sheet, liquidity, interest rate risk in the banking book and capital matters to ensure prudent balance sheet management and compliance with the internally defined Risk Appetite Framework and regulatory requirements;

- Works in conjunction with RBC Corporate Treasury to obtain advice and counsel on the balance sheet management and its related risk and performs ongoing coordination with other functions and business segments of I&TS and RBC.

● 2nd Line of Defense

The Second Line of Defense is provided by Group Risk Management (GRM) – Liquidity Oversight and Global Compliance.

As mentioned in the section "Three Lines of Defense Governance Model":

- Establishes the enterprise level risk management frameworks, and provides risk guidance;
- Provides oversight for the effectiveness of First Line risk management practices;
- Monitors independently reporting on the level of risk against the established risk appetite limits.

Ultimate responsibility for all aspects related to the oversight of liquidity risk lies with the BoD, who has delegated day-to-day control to the CFO and the CRO. The CFO and CRO are supported by the ALCO, the Risk Committee and Heads of Risk.

● 3rd Line of Defense

See section "Three Lines of Defense Governance Model".

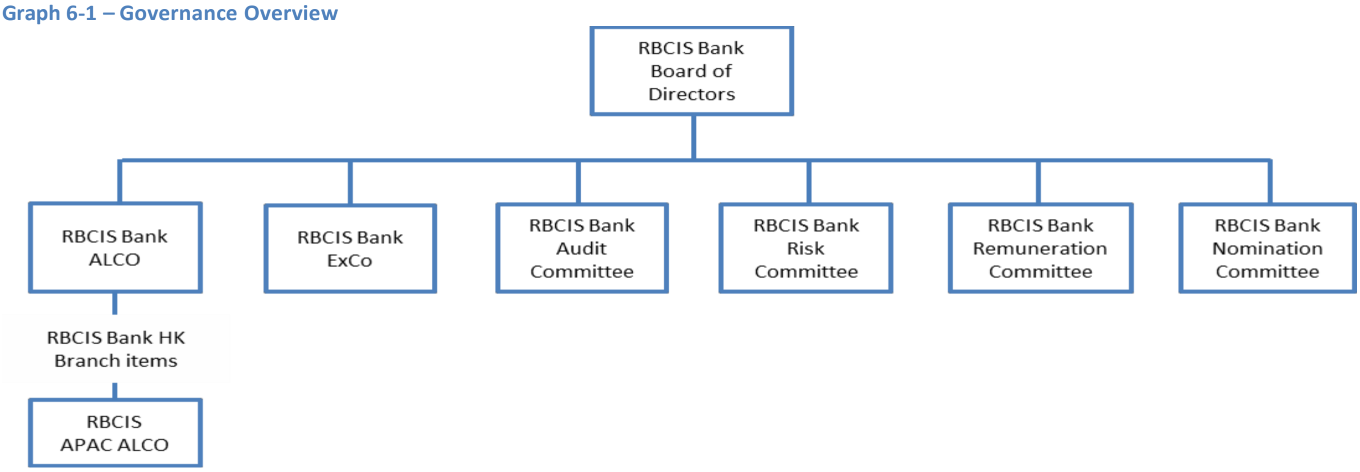
6.1.1.3 Roles and Responsibilities

6.1.1.3.1 Role of the Board

The general role of the BoD is described in the section 1.2.1.1 of the document. The BoD' responsibilities with respect to liquidity risk include:

- Approving RBCIS Bank's liquidity risk appetite and establishing mechanisms to ensure that the level of risk within the firm remains within the specified risk appetite;
- Approving the policy framework;
- Annually approving the ILAAP.

Graph 6-1 – Governance Overview



6.1.1.3.2 Delegation of Duties

For liquidity risk matters, the BoD delegates its daily management in compliance with the principles laid down in the frameworks and policies approved by the BoD or the Risk Committee, to the RBCIS Bank ALCO.

6.1.1.3.3 RBCIS Bank Risk Committee

The role of the Risk Committee is described in the section 1.2.1.2 of this document.

Regarding the liquidity risk, the Risk Committee also reviews and recommends approval to the BoD the annual ILAAP document.

6.1.1.3.4 RBCIS Bank Executive Committee

The role of the ExCo is described the section 1.2.1.3 of this document. Regarding the liquidity risk, regular monthly reports establishing the liquidity risk status and profile of the Bank are presented to the ExCo. It also reviews and approves the annual ILAAP document before submission to the Risk Committee and the BoD.

6.1.1.3.5 RBCIS Bank Asset and Liability Committee (ALCO)

The role of the ALCO is described in the section 1.2.1.5 of this document. In addition to this, ALCO reviews and recommends for approval by the BoD or their committees the risk framework and policies.

ALCO also reviews and approves the ILAAP document before submission to the ExCo and the BoD.

6.1.1.3.6 Corporate Treasury - Management

Corporate Treasury (CT) has overall responsibility for liquidity management in RBCIS Bank. Corporate Treasury has the following roles and responsibilities:

- Maintain funding and liquidity plans;
- Propose fund transfer pricing methodology;
- Propose changes to Stress Testing methodology and Liquidity Risk Model; Review Liquidity risk policies;
- Perform liquidity risk self-assessment
- Propose limits and exceptions within its authorities;
- Own and update the Liquidity Contingency Plan, the ILAAP, the Funding Plan, the Investment Policy;
- Contribute to the annual review process of the Recovery Plan and ICAAP.

Corporate Treasury delegates responsibility for day-to-day liquidity management, including the management of liquid asset buffers and short-term funding to Treasury and Market Services (TMS).

6.1.1.3.7 Corporate Treasury – Capital & Liquidity Measurement

Capital & Liquidity Measurement team has day-to-day ownership of liquidity measurement. The team has the following responsibilities:

- Manage the liquidity risk measurement and reporting processes for IS Bank and its subsidiaries;
- Produce Management Information for the ALCO;
- Establish, monitor and report adherence to RBC liquidity risk limits and standing orders, escalating limit excesses appropriately to management;
- Communicate impacts from changes in regulatory landscape;
- Implement reporting and risk measurement processes to ensure RBCIS Bank meets complex and dynamic regulatory requirements;
- Lead relationship with GRM with respect to their liquidity risk oversight function.

6.1.1.3.8 Treasury & Market Services (TMS)

In addition to ensuring compliance with all relevant local limits and regulation, TMS has the following roles and responsibilities:

- Liquidity management execution agents tasked with the responsibility for execution of short-term, operational liquidity management within limit and policy constraint;
- Identifying preferred liquidity management strategies;
- Monitoring and reporting market developments, including central bank actions, to assess the potential for changes in liquidity or funding conditions;
- Retaining primary responsibility for intraday cash and collateral management;
- Managing liquid assets and other liquid asset buffers in line with directions from Corporate Treasury; and
- Providing immediate engagement with key business partners and executing open market transactions.

6.1.1.3.9 GRM

GRM Liquidity Risk is responsible for independent global oversight of liquidity risk, with RBCIS Bank team acting as the second line of defense challenge and oversight function for RBCIS Bank on consolidated basis. The responsibilities of GRM also include but are not limited to:

- ensure adequate Liquidity Risk framework and policies are defined, leveraging on RBC requirements and factoring RBCIS Bank specifics in terms of business, products, activities, regulations adequate. This includes ownership on some of the policies, and review and approval for those owned by CT;
- Establish and monitor compliance with risk limits and policies, including reporting and escalation of breaches of risk limits;
- Review and validate of relevant liquidity risk significant models and assumption;
- Oversight and review stress tests and relevant key regulatory reporting.

6.1.1.4 ILAAP and Risk Management processes

The RBCIS Bank ILAAP is an annual process led by RBCIS Bank Corporate Treasury falling under the responsibility of RBCIS Bank ALCO and ExCo. The BoD is responsible for review, challenge and approval of the ILAAP results and document.

RBCIS Bank's ILAAP is fully embedded in the overall risk management processes. RBCIS Bank's ILAAP presents a clear and concise picture of the liquidity risks that the firm faces. The document provides the Management Body and the Joint Supervisory Team with a comprehensive overview of key constituents of liquidity risk management and measurement within the firm. The diagram below demonstrates the building blocks which form the basis of the ILAAP document.

The ILAAP document details the governance and controls related to the management and measurement of liquidity risk including the roles of the key stakeholders and the direction provided by the BoD level risk appetite statement and framework.

6.1.1.5 Interlinkage with Risk framework - Risk appetite

6.1.1.5.1 Governance Risk Appetite Liquidity Risk

The risk appetite of RBCIS Bank and its affiliates is defined within the RBCIS Bank Risk Appetite Framework, reviewed and approved at least annually by the BoD.

RBCIS's liquidity risk appetite is proposed by Corporate Treasury and recommended by GRM. It is reviewed by ALCO and ExCo and recommended to the Risk Committee for consideration and recommendation to the BoD for final approval.

6.1.1.5.2 Risk Tolerance Statement

RBCIS Bank is mandated to manage liquidity risk inherent in the markets in which it operates, and in the business activities it undertakes, in a way that ensures that all financial needs, including existing commitments and new business aligned to core activities, can be met on a commercially viable basis, while meeting regulatory and internal minimums and maintaining sufficient stock of highly liquid assets to mitigate the effects of extreme, but plausible, adverse events on RBCIS Bank's solvency, as determined by regular analysis.

6.1.1.5.3 Risk Appetite Metrics

RBCIS Bank and its affiliates will comply with any applicable limits or other requirements as defined in any RBC framework, policy or standing order.

The liquidity thresholds are integrated with RBCIS Bank strategies, policies and risk appetite. They are calculated and tracked daily by Corporate Treasury.

GRM has the authority to pre-approve extensions to internal limits as long as they are (a) temporary in duration and (b) well-defined and limited. Regulatory limits must be adhered to at all times. All internal limit extensions, including underlying business reasons and risk rationale for agreeing to the extension are reported at the next appropriate RBCIS ALCO meeting.

6.1.2 Risk Identification, Measurement, Monitoring and Reporting

6.1.2.1 Reporting Framework

RBCIS Bank follows the enterprise framework for liquidity reporting and centralizes liquidity risk measurement within Corporate Treasury. The Capital & Liquidity Measurement team in Luxembourg is responsible for all liquidity measurement and reporting for RBCIS Bank. The data for liquidity reporting is sourced from appropriate Liquidity and Financial systems.

6.1.2.1.1 IT Infrastructure

The IT infrastructure that supports RBCIS Bank's daily and monthly reporting is based on several systems and applications maintained internally.

6.1.2.1.2 Data Controls

Data for liquidity reporting are sourced automatically from strategic booking and accounting systems. The daily reports are prepared automatically and are analyzed in detail by Capital & Liquidity Measurement team.

During the reporting process, several validations are performed:

- Validation of material items in the submitted LCR returns to the balance sheet including FVOCI portfolio, Central bank deposits, intragroup funding and client deposits; and
- Analytical review to previous reports to explain the main variances and consistency checks; and
- Monitoring of limits, thresholds and ratios.

For regulatory submissions additional processes are carried out as detailed in the section

6.1.2.2 Regulatory Reporting Requirements

RBCIS Bank complies with the Liquidity reporting requirements for credit institutions, including the production of the Liquidity Coverage Ratio (LCR) and the Additional Liquidity Monitoring Metrics (ALMM) on a monthly basis.
The Net Stable Funding Ratio (NSFR) is produced on a quarterly basis, as well as the Liquidity Monitoring Tool (LMT) with Facilitation for RBCIS Bank Zurich Branch.

Table EU LIQA - Liquidity risk management

Row number	Qualitative information - Free format	
(a)	Strategies and processes in the management of the liquidity risk, including policies on diversification in the sources and tenor of planned funding,	The Board of Directors of RBCIS Bank acknowledges on an annual basis that the liquidity risk management of the Bank is adequate. The development of relevant indicators, such as liquidity position combined with a survival period, client deposits trend, value of unencumbered assets, daily LCR and NSFR prediction under stress test are monitored consistently by the Bank. The amount and composition of liquidity buffers are adequate and enable the institution to be able to continue to meet its payment obligations both under normal and stress conditions. RBCIS Bank complies structurally with internal and external requirements, including standards for maintaining healthy balance sheet. Deposits: RBCIS Bank is funded primarily through customer deposits.RBCIS Bank carries out analysis of deposits to ensure their classification as operational is appropriate. Additionally, where temporary balances are identified a specific liquidity buffer assuming a 100% outflow is applied. RBCIS Bank investments in liquid assets are included in the RBCIS Bank Investment Policy (Appendix E-3). This policy includes guidelines for the asset portfolio regarding the maturity, issuer concentration, country of domicile and LCR quality of the assets.
(b)	Structure and organisation of the liquidity risk management function (authority, statute, other arrangements).	A well-integrated, transparent and coordinated organizational structure has been established to ensure sound Pillar 3 disclosure. Board and senior management committees and various functions share the responsibility for Pillar 3 disclosure. Ultimate validation for Pillar 3 resides with the Board of Directors of RBCIS Bank. - RBCIS Bank Board of Directors: approves RBCIS Bank's liquidity risk appetite and establishing mechanisms to ensure that the level of risk within the firm remains within the specified risk appetite; approves the policy framework; and annually approves the ILAAP. - RBCIS Bank Risk Committee: assist the RBCIS Bank's Board in its mission to assess the adequacy between the risks incurred, the RBCIS Bank's ability to manage these risks and the internal and regulatory own funds and liquidity reserves. It may involve the Authorized Management as well as persons in charge of internal controls in its work. - RBCIS Bank EXCO: RBCIS Bank has appointed one member of the Executive Committee as Chief Risk Officer (CRO), responsible for the Risk Function who, on behalf of the ExCo, has established the internal governance and organizational arrangements related to risk management as required by local regulation and as deemed appropriate, taking into account the size and complexity of the Bank's activities.). - RBCIS Bank Asset and Liabilities Committee (ALCO): reviews and recommends broad policy frameworks pertaining to RBCIS Bank's balance sheet and capital management, interest rate risk management, liquidity and funding, and subsidiary balance sheet management; provides regular central oversight and monitors RBCIS Bank balance sheet-related risks, including capital adequacy, structural interest rate risk, structural foreign exchange risk, liquidity and funding risk; provides direction and reviews advice regarding the management of these areas in light of expected returns, competitive and regulatory environments, and economic and business forecasts. - RBCIS Bank CFO and CRO : review and approve annual and semi-annual disclosures. - RBCIS Bank ALCO: every two years, the Committee reviews and recommends the Pillar 3 Policy for ExCo and Risk Committee approval ; annually reviews and recommends the Pillar 3 disclosure with fiscal year end reference date - RBCIS Bank European Corporate Treasury Management: maintains funding and liquidity plans; proposes fund transfer pricing methodology; proposes changes to Stress Testing methodology and Liquidity Risk Model (NAV Ratio model); reviews Liquidity risk policies (Liquidity Management Framework, Liquidity Risk Framework and Pledging Policy); performs liquidity risk self-assessment; proposes limits and exceptions within its authorities; owns and updates the Liquidity Contingency Plan, the ILAAP, the Funding Plan, the Investment Policy; contributes to the annual review process of the Recovery Plan and ICAAP; contributes to the Single Resolution Board ad-hoc documentation. - RBCIS Bank European Corporate Treasury - Capital & Liquidity Measurement: manages the liquidity risk measurement and reporting processes for RBCIS Bank and its subsidiaries; produces Management Information for the ALCO; establishes, monitors and reports adherence to RBC liquidity risk limits and standing orders, escalating limit excesses appropriately to management; communicates impacts from changes in regulatory landscape; implements reporting and risk measurement processes to ensure RBCIS Bank meets complex and dynamic regulatory requirements; collaborates and provides appropriate documentation to GRM with respect to their liquidity risk oversight function. - RBCIS Bank Treasury & Market Services: Liquidity management execution agents tasked with the responsibility for execution of short-term, operational liquidity management within limit and policy constraint; identifies preferred liquidity management strategies; monitors and reports market developments, including central bank actions, to assess the potential for changes in liquidity or funding conditions; retains primary responsibility for intraday cash and collateral management; manages liquid assets and other liquid asset buffers in line with directions from Corporate Treasury; and provides immediate engagement with key business partners and executing open market transactions. - RBC Investor Services Bank Group Risk Management: ensures adequate Liquidity Risk framework and policies are defined, leveraging on RBC framework and factoring RBC IS Bank specifics in terms of regulations, business, products and activities. This includes GRM ownership on some of the policies and GRM review , challenge and approval of those owned by CT; establishes and monitors compliance with risk limits and policies, including reporting and escalation of breaches of risk limits; reviews and validates the local suitability of significant models and assumptions applicable to liquidity risk; oversights liquidity stress testing process and reviews relevant key regulatory reports.
(c)	A description of the degree of centralisation of liquidity management and interaction between the group's units	RBCIS Bank's geographical spread enables clients to maintain their on- and off-shore funds. RBCIS Bank's subsidiaries and branches perform fund administration, transfer agency and custody activities as well as complementary activities related to trustee services and corporate secretarial services. The Treasury function of RBCIS Bank is centralized in Luxembourg, including the management of the FVOCI portfolio and the credit facilities to RBCIS Bank' entities. The intra-group evergreen placements have dropped close to zero by 31 Oct, 2022.
(d)	Scope and nature of liquidity risk reporting and measurement systems.	Reporting process: - Validation of material items in the submitted LCR returns to the balance sheet including FVOCI portfolio, Central bank deposits, intragroup funding and client deposits; - Analytical review to previous reports to explain the main variances and consistency checks; - Monitoring of limits, thresholds and ratios. RBCIS Bank complies with the Liquidity reporting requirements for credit institutions, including the production of the Liquidity Coverage Ratio (LCR) and the Additional Liquidity Monitoring Metrics (ALMM) on monthly basis. The Net Stable Funding Ratio (NSFR) is produced on quarterly basis.
(e)	Policies for hedging and mitigating the liquidity risk and strategies and processes for monitoring the continuing effectiveness of hedges and mitigants.	The Bank maintains a robust liquidity management framework which provides an overview of the banks approach of identifying, assessing, measuring, monitoring, controlling and reporting on liquidity risk. The framework is the overarching foundation for managing liquidity risk and it is underpinned by the liquidity risk policy, pledging policy and liquidity contingency plan. The same framework includes hedging activities from a liquidity risk perspective.
(f)	An outline of the bank`s contingency funding plans.	The Bank maintains a well-developed and robust set of protocols related to liquidity contingency planning. The Liquidity Contingency Plan describes the action plan for maintaining the Bank's ability to fulfill commitments under stress conditions. The plan is developed by assessing the impact of a stress event on the bank's liquidity profile, and identifying recovery actions that could be undertaken to restore liquidity levels. It is validated on an annual basis in line with the ILAAP update and review process.

(g)	An explanation of how stress testing is used.	The liquidity stress testing process used by the bank to support daily internal liquidity measurement and stress testing contained in the annual ILAAP document. Daily liquidity stress testing plays a key role in assessing the potential impact of contingent liquidity risk on the liquidity risk profile of the Bank. A range of low probability, high impact scenarios are considered in order to quantify the means the Bank has to address incremental cash needs from on and off-balance sheet stresses.
(h)	A declaration approved by the management body on the adequacy of liquidity risk management arrangements of the institution providing assurance that the liquidity risk management systems put in place are adequate with regard to the institution's profile and strategy.	The adequacy of liquidity and funding positions assessment is based on following considerations: - The risk appetite and internal limit structure of regulatory and internal metrics; - The key liquidity metrics and the balance sheet structure as at the reference date and the projections undertaken in the Funding Plan (3 years); - The results of the stress tests (and reverse stress tests) as at the assessment date, and going forwards as part of the funding plan, as well as the description of the managements actions listed in the RBCIS Bank Liquidity Contingency Plan; - The role of the ILAAP in the overall Risk Management process. The ILAAP contains descriptions of the key changes during the year, the primary weaknesses, as well as an overall conclusion on RBCIS Bank's liquidity adequacy. The Mmanagement bBody of RBCIS Bank has determined that the Bank is managing its liquidity risk in a manner commensurate with internal and regulatory expectations, based on the review of the annual ILAAP during the Board of Directors meeting held on 2 February 2022. The management body of the Bank attests that a robust liquidity risk management framework is in place enabling to maintain a solid Liquidity Risk Profile and that the Bank complies with regulatory limits alongside internal limits and control framework. The Bank holds substantial high quality securities that are prudently valued and maintains sufficient levels of funding, with all illiquid assets funded for greater than 1yr. Funding derives primarily from stable sources in a sector that has significant barriers to facilitate withdrawals of deposits in the short term. Moreover the Bank has not received any central bank support (either directly or indirectly) and is not reliant on incremental group liquidity in the event of a liquidity crisis. The Board of Directors of RBCIS Bank acknowledges that the liquidity risk management of the Bank is adequate. The development of relevant indicators, such as liquidity position combined with a survival period, client deposits trend, value of unencumbered assets, daily LCR and NSFR prediction under stress test are monitored consistently by the Bank. The amount and composition of liquidity buffers during 2019 20202021 fiscal year are adequate and enable the institution to be able to continue to meet its payment obligations both under normal and stress conditions. RBCIS Bank complies structurally with internal and external requirements, including standards for maintaining healthy balance sheet.
(i)	A concise liquidity risk statement approved by the management body succinctly describing the institution's overall liquidity risk profile associated with the business strategy. This statement shall include key ratios and figures (other than those already covered in the EU LIQ1 template under this ITS) providing external stakeholders with a comprehensive view of the institution's management of liquidity risk, including how the liquidity risk profile of the institution interacts with the risk tolerance set by the management body. These ratios may include LCR and NSFR · Concentration limits on collateral pools and sources of funding (both products and counterparties) · Customised measurement tools or metrics that assess the structure of the bank's balance sheet or that project cash flows and future liquidity positions, taking into account off-balance sheet risks which are specific to that bank · Liquidity exposures and funding needs at the level of individual legal entities, foreign branches and subsidiaries, taking into account legal, regulatory and operational limitations on the transferability of liquidity · Balance sheet and off-balance sheet items broken down into maturity buckets and the resultant liquidity gaps	During the financial year 2022, RBCIS Bank's liquidity profile remained well above both prescribed minimum regulatory requirements and internal risk limits. At the 31th of October 2022, the LCR metric stood at 171% (LCR surplus = EUR 5.16bn) under the solo scope and at 178% (LCR surplus = EUR 5.67bn) under the consolidated scope. Throughout the year, the regulatory metrics has been maintained well above the desk limit of EUR 700mm, the operational limit of EUR 400mm and the Board limit of EUR 200mm which is the expression of the Risk Appetite. The NSFR remained well above the 110% desk limit, for the full financial year. At the end of September 2022 (the latest NSFR regulatory submission prior to the reference date) the NSFR stood at 232% and 254% for respectively the solo (including branches, excluding subsidiaries) and consolidated level. Treasury & Market Services ensures RBCIS Bank maintains an adequate and appropriately diversified buffer of HQLA. As at October 2022 RBCIS Bank's total HQLA comprised EUR 12.8bn held at the central banks and EUR 0.6 of FVOCI portfolio. The HQLA assets comprised EUR 80mm of Level 1, EUR 9mm of Level 1B and EUR 274mm of Level 2A assets. The annual ILAAP process includes assessment of the sources of funding (both for products and counterpaties). The same document includes a 3 year funding plan that assesses the Bank's balance sheet in terms of on and off balance sheet positions. The maturity and duration of the on and off balance products is taken into consideration as part of the ILAAP pack. Finally, the ILAAP is designed from a consolidated basis and it does include material subsidiaries and branches

6.2 Declaration on the adequacy of liquidity risk management and liquidity risk statement approved by the Board of Directors

The adequacy of liquidity and funding positions assessment is based on following considerations:

- The risk appetite and internal limit structure of regulatory and internal metrics;
- The key liquidity metrics and the balance sheet structure as at the reference date and the projections undertaken in the Funding Plan (3 years);
- The results of the stress tests (and reverse stress tests) as at the assessment date, and going forwards as part of the funding plan, as well as the description of the managements actions listed in the RBCIS Bank Liquidity Contingency Plan;
- The role of the ILAAP in the overall Risk Management process.

The ILAAP contains descriptions of the key changes during the year, the primary weaknesses, as well as an overall conclusion on RBCIS Bank's liquidity adequacy.

The Management Body of RBCIS Bank has determined that the Bank is managing its liquidity risk in a manner commensurate with internal and regulatory expectations, based on the review of the annual ILAAP during the BoD meeting held on 1 February, 2023.

The Management Body of the Bank attests that a robust liquidity risk management framework is in place enabling to maintain a solid Liquidity Risk Profile and that the Bank complies with regulatory limits alongside internal limits and control framework. The Bank holds substantial high quality securities that are prudently valued and maintains sufficient levels of funding, with all illiquid assets funded for greater than 1yr. Funding derives primarily from stable sources in a sector that has significant barriers to facilitate withdrawals of deposits in the short term. Moreover the Bank has not received any central bank support (either directly or indirectly) and is not reliant on incremental group liquidity in the event of a liquidity crisis.

The BoD of RBCIS Bank acknowledges that the liquidity risk management of the Bank is adequate. The development of relevant indicators, such as liquidity position combined with a survival period, client deposits trend, value of unencumbered assets, daily LCR and NSFR prediction under stress test are monitored consistently by the Bank. The amount and composition of liquidity buffers during 2022 fiscal year are adequate and enable the institution to be able to continue to meet its payment obligations both under normal and stress conditions. RBCIS Bank complies structurally with internal and external requirements, including standards for maintaining healthy balance sheet.

6.3 Liquidity Coverage Ratio (LCR) disclosure

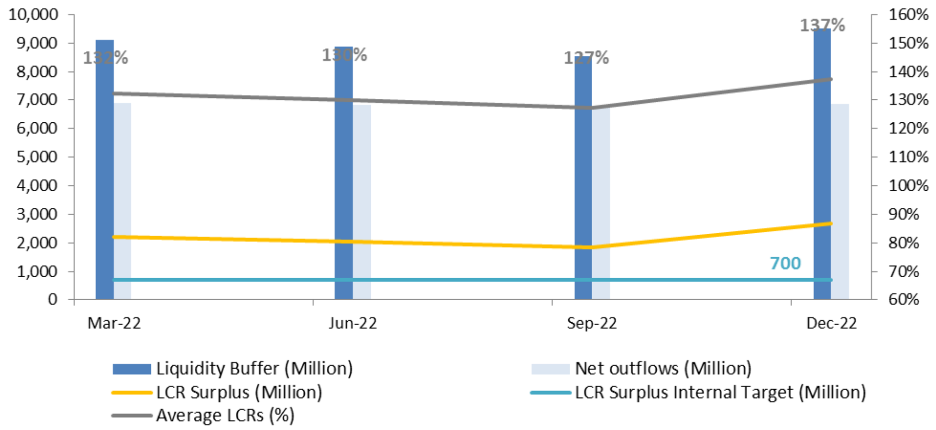
6.3.1 LCR disclosure data

LCRs disclosed in this template, as well as all other metrics, are simple average of 12 LCRs (and other metrics) monthly reporting observations in accordance with the EBA/GL/2017/01. It means that the LCR as of March 2022 is an average of monthly LCRs from April 2021 to March 2022, the LCR as of June 2022 is an average of monthly LCRs from July 2021 to June 2022, the LCR as of September 2022 is the average of monthly LCRS from October 2021 to September 2022, the LCRS as of December 2022 is the average of monthly LCRs of the year 2022. As mentioned in the guidelines, the use of averages avoids the use of isolated information relating to a specific date.

Over the observation period, we can notice that the average LCRs and other liquidity metrics are broadly stable. The liquidity profile of RBCIS Bank remained strong relative to the regulatory requirement (Minimum LCR 100%) and internal targets (100% + EUR 700mm).

6.3.2 LCR disclosure template – Scope CONSO

Table 6-4 - Quarterly LCR metrics



The average consolidated LCRs ranged between 127% and 137%. The average liquidity buffer was between EUR 8.6bn and EUR 9.5bn while the average Net cash outflows ranged between EUR 6.7bn and EUR 6.9bn over the period.

The average of LCRs decreased by 2% between March and June 2022, due to a decrease in HQLA in the 2nd quarter of 2021 caused by a decrease in cash held at central bank.

The average of LCRs decreased between June and September 2022, because of an decrease in HQLA during the 3rd quarter, consequence of an increase in central bank placement justified by an increase in external client deposits.

Finally, the average of LCRs increased by 10% between September and December 2022 as the central bank placement increased following the cessation of our placement with RBC Head Office during the last quarter of 2022.

In summary, the average of LCRs increased by 5% over the year mainly because of the termination of most of intragroup transactions.

Template - EU LIQ1: Quantitative information of LCR

Scope of consolidation: consolidated		Total unweighted value (average)			
Currency and units (EUR million)					
Quarter ending on (DD MMM YYYY)		31 Mar 2022	30 Jun 2022	30 Sep 2022	30 Dec 2022
Number of data points used in the calculation of averages		12	12	12	12
HIGH-QUALITY LIQUID ASSETS					
1	Total high-quality liquid assets (HQLA)				
CASH-OUTFLOWS					
2	Retail deposits and deposits from small business customers, of which:	0	0	0	0
3	*Stable deposits*	0	0	0	0
4	*Less stable deposits*	0	0	0	0
5	Unsecured wholesale funding	15,082	14,763	14,015	13,783
6	*Operational deposits (all counterparties) and deposits in networks of cooperative banks*	10,949	10,598	9,921	9,526
7	*Non-operational deposits (all counterparties)*	4,132	4,166	4,094	4,256
8	*Unsecured debt*	0	0	0	0
9	Secured wholesale funding	0	0	0	0
10	Additional requirements	1,451	1,679	1,988	2,218
11	*Outflows related to derivative exposures and other collateral requirements*	715	721	833	923
12	*Outflows related to loss of funding on debt products*	0	0	0	0
13	*Credit and liquidity facilities*	736	958	1,155	1,295
14	Other contractual funding obligations	0	0	0	0
15	Other contingent funding obligations	825	692	596	533
16	TOTAL CASH OUTFLOWS				
CASH-INFLOWS					
17	Secured lending (eg reverse repos)	0	0	0	0
18	Inflows from fully performing exposures	955	1,039	989	977
19	Other cash inflows	813	1,039	989	977
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)				
20	TOTAL CASH INFLOWS	1,768	2,078	1,978	1,955
EU-20a	***Fully exempt inflows***	0	0	0	0
EU-20b	***Inflows Subject to 90% Cap***	0	0	0	0
EU-20c	***Inflows Subject to 75% Cap***	1,217	1,351	1,444	1,523
		TOTAL ADJUSTED VALUE			
21	LIQUIDITY BUFFER				
22	TOTAL NET CASH OUTFLOWS				
23	LIQUIDITY COVERAGE RATIO (%)				

Scope of consolidation: consolidated		Total weighted value (average)			
Currency and units (EUR million)					
Quarter ending on (DD MMM YYYY)		31 Mar 2022	30 Jun 2022	30 Sep 2022	30 Dec 2022
Number of data points used in the calculation of averages		12	12	12	12
HIGH-QUALITY LIQUID ASSETS					
1	Total high-quality liquid assets (HQLA)	9,115	8,868	8,552	9,517
CASH-OUTFLOWS					
2	Retail deposits and deposits from small business customers, of which:	0	0	0	0
3	*Stable deposits*	0	0	0	0
4	*Less stable deposits*	0	0	0	0
5	Unsecured wholesale funding	6,870	6,815	6,574	6,638
6	*Operational deposits (all counterparties) and deposits in networks of cooperative banks*	2,737	2,649	2,480	2,382
7	*Non-operational deposits (all counterparties)*	4,132	4,166	4,094	4,256
8	*Unsecured debt*	0	0	0	0
9	Secured wholesale funding	0	0	0	0
10	Additional requirements	1,009	1,104	1,295	1,441
11	*Outflows related to derivative exposures and other collateral requirements*	715	721	833	923
12	*Outflows related to loss of funding on debt products*	0	0	0	0
13	*Credit and liquidity facilities*	294	383	462	518
14	Other contractual funding obligations	0	0	0	0
15	Other contingent funding obligations	43	47	55	59
16	TOTAL CASH OUTFLOWS	7,921	7,966	7,924	8,138
CASH-INFLOWS					
17	Secured lending (eg reverse repos)	0	0	0	0
18	Inflows from fully performing exposures	955	1,039	989	977
19	Other cash inflows	765	1,039	989	977
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)	0	0	0	0
EU-19b	(Excess inflows from a related specialised credit institution)	0	0	0	0
20	TOTAL CASH INFLOWS	1,720	2,078	1,978	1,955
EU-20a	***Fully exempt inflows***	0	0	0	0
EU-20b	***Inflows Subject to 90% Cap***	0	0	0	0
EU-20c	***Inflows Subject to 75% Cap***	1,031	1,147	1,210	1,287
		TOTAL ADJUSTED VALUE			
21	LIQUIDITY BUFFER	9,115	8,868	8,552	9,517
22	TOTAL NET CASH OUTFLOWS	6,891	6,820	6,714	6,851
23	LIQUIDITY COVERAGE RATIO (%)	132%	130%	127%	137%

Table EU LIQB on qualitative information on LCR

Row number	Qualitative information - Free format	
(a)	Explanations on the main drivers of LCR results and the evolution of the contribution of inputs to the LCR's calculation over time	- overnight deposits from RBC London branch - overnight intragroup deposits from RBCIS Bank France. - early termination of intragroup placement with RBC Head-office as of October, 2022
(b)	Explanations on the changes in the LCR over time	The Consolidated LCR improved from 120% in January to 162% in December because of the termination of intragroup placement with Head-office and the placement of this cash at Central bank.
(c)	Explanations on the actual concentration of funding sources	The Top 2 clients have 29% of total client deposits. 16% of deposits are intragroup deposits (RBC IS Bank France and RBC Head-office).
(d)	High-level description of the composition of the institution`s liquidity buffer.	The HQLA is composed by the placement at Central bank (€13.6bn), level 1 assets (€52mm) and level 2a assets (€268mm).
(e)	Derivative exposures and potential collateral calls	Derivative exposure: € 622mm. A total of €127mm of excess posted collateral can be recalled against €6mm of excess collateral received.
(f)	Currency mismatch in the LCR	Net outflows are negative for GBP and USD, but are within the approved limits. For CHF, the LCR (27%) is explained by currency swaps EUR/CHF to place money at SNB. Again, it is within the approved limits
(g)	Other items in the LCR calculation that are not captured in the LCR disclosure template but that the institution considers relevant for its liquidity profile	Already disclosed above

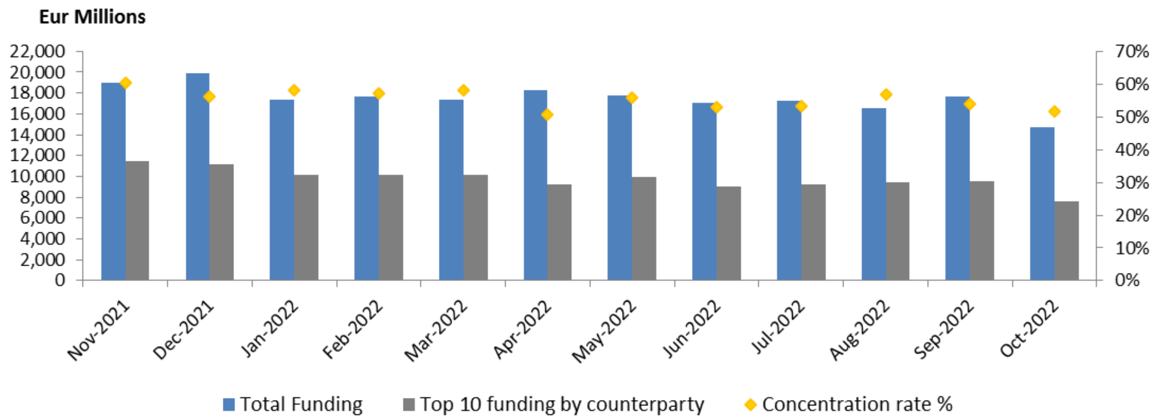
6.3.3 Additional qualitative information complementing the LCR disclosure data

6.3.1.1 Concentration of funding

Given the nature of its business profile, the funding of RBCIS Bank is exclusively composed by wholesale funding. The clients deposits represent the main component of its funding. Interbank funding may be part of its liabilities to a lesser extent.

A monitoring of the clients deposits concentration is performed on a daily basis. An analysis of the concentration by clients and by currencies as well as the deposits trend is performed daily and the information is reported in the Management dashboard on a monthly basis and in the BoD pack on a quarterly basis. The institution also reports to the regulator on a monthly basis the ALMM templates, where the information on concentration of funding by counterparty (Template C67.00) and on the concentration of funding by product (template C68.00) is required.

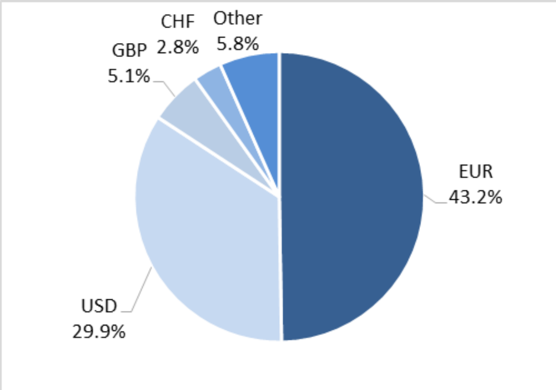
Graph 6-2 - Funding History and concentration (from Nov 2021 to Oct 2022)



6.3.1.2 Currency mismatch in the LCR

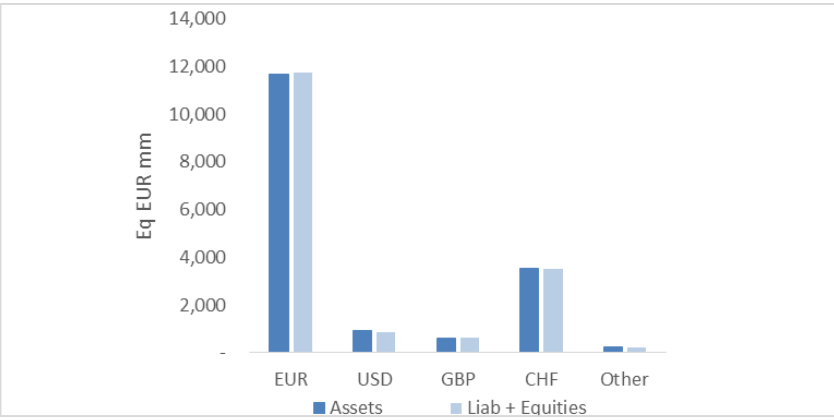
RBCIS Bank's assets and liabilities are primarily composed of EUR and USD currencies and to a lesser extent of GBP and CHF currencies. RBCIS is active in those currencies with deep liquid FX markets such as EUR, USD and GBP.
As mentioned in the previous section, a daily monitoring and analysis of clients funding is performed by currency. The graph 6 - 7 depicts the average of clients deposits balances based on daily observation over the 2022 fiscal year.

Graph 6-3 – Clients funding breakdown by currency



The graph 6-5 depicts the currency mismatch between assets and liabilities as of end of October 2022.

Graph 6-4 – Currency mismatch



To mitigate the currency risk, RBCIS Bank deals FX swaps and the vast majority are dealt with RBC group which benefits from a large network of counterparties in the swap market. FX swaps maturities are staggered over three months of which a portion is calibrated to be kept overnight in order to maintain an appropriate buffer for all currencies.

RBC considers fungible currencies to be those currencies that fulfil the following criteria:

- There is an active FX market;
- RBC, the parent, is actively dealing these currencies.

This includes EUR, USD, GBP, CHF. These currencies are assumed to be liquid, even under a liquidity stress.

The use of FX swaps for balance sheet management is reported by RBCIS Bank TMS and monitored by RBCIS Bank GRM and CT. Particular attention is given to the notional size of the FX swap book and term mismatches between the FX swap contracts and the use of converted funds.

In terms of reporting, the Bank has reported over the fiscal year 2022 monthly LCRs in EUR, USD, GBP and exceptionally in CHF in accordance with Article 415(2) of the CRR, where liabilities in those currencies exceeding 5% of the total liabilities.

Note: Although the LCR requirement imposed by the LCR Delegated Act 2015/61 does not apply individually to each of the significant currencies, a prudent risk management policy is applied by RBCIS Bank to mitigate the risk linked to the currency mismatch between the funding and the assets.

Internal limits have been set on LCR by significant currency and on Net Position by Currency (Daily Liquidity Stress Test) to reflect the bank appetite for currency mismatch. Those limits are applicable to the bank material currencies (EUR, USD, GBP and CHF)

6.3.1.3 Derivatives exposures and potential collateral calls

The derivatives treatment follows rules outlined in the LCR Delegated Act 2015/61 and the CRR regulation (575/2013). They are 2 components for the LCR EBA :

a. Calculation of net derivatives outflows and inflows :

The calculation of net inflows from derivatives and net outflows from derivatives follows the instructions outlined in Art 21 of the LCR Delegated Act.

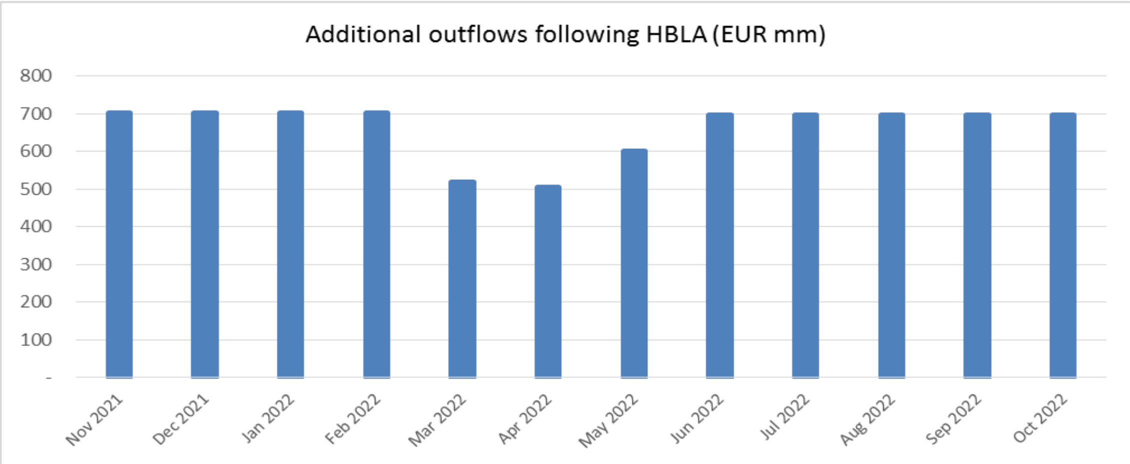
b. Additional outflows from derivatives (Rows 320 C73 Outflows)

The methodology used for the calculation of the additional outflows follows the HLBA (Historical look back approach) developed by the BCBS (Basel Committee) as required by the EBA/RTS/2014/05).

RBCIS Bank takes as additional outflows from derivatives the largest aggregated cumulative net collateral outflow and inflow realized at end of 30 day periods during the 24 months preceding the reporting date.

The graph 6.5 depicts the additional outflows from derivatives during the 2022 fiscal year.

Graph 6-5 – Additional outflows from derivatives (Nov-2021 to Oct-2022)



The amount of Additional outflows increased from EUR 600mm to EUR 700mm in June 2022 . The impact of the derivatives additional outflows on the averages LCRs was around 15% over the year.

6.3.1.4 Centralization of liquidity management and interaction between RBC group's units

The Treasury function of RBCIS Bank is centralized in Luxembourg, including the consolidated management of the balance sheet. Many subsidiaries of RBCIS Bank do not have a banking or investment license and are often supported by a local branch of RBCIS Bank apart from RBCIS Bank France S.A. which engages in treasury activities locally although these tend to operate by pooling liquidity to Luxembourg.

Any loss or liquidity shortfall will be consolidated and accounted in the RBCIS Bank Consolidated balance sheet. Any liquidity or capital management action will be operated by RBCIS Bank Luxembourg and the benefits will be adequately managed to ensure appropriate level of capital and liquidity at a consolidated level and at individual level for all affiliates.

Regarding RBCIS Bank France SA, this entity places all its cash with RBCIS Bank Luxembourg excepting the cash placement done with the French Central Bank (Banque de France) in order to maintain a buffer of liquidity for its Liquidity Coverage Ratio.

6.4 Net Stable Funding Ratio (NSFR) disclosure

The consolidated NSFRs ranged between 248% and 254%. The Available Stable Funding (ASF) was between EUR 6.4bn and EUR 6.5bn and the Required Stable Funding (RSF) ranged between EUR 2.5bn and EUR 2.6bn over the period.

The increase in NSFRs between June and September 2022 is mainly due to an increase in operational client deposits by EUR 80mm that impacted ASF.

Template - EU LIQ2: Net Stable Funding Ratio

	Scope of consolidation: consolidated	Unweighted value by residual maturity				Weighted value
	Period: T *Sep-22*	No maturity[1]	< 6 months	6 months to < 1yr	≥ 1yr	
Available stable funding (ASF) Items						
1	Capital items and instruments	**1,219,858,431**	**-**	**-**	**533,987,520**	**1,753,845,951**
2	*Own funds*	1,219,858,431	-	-	533,987,520	1,753,845,951
3	*Other capital instruments*		-	-	-	-
4	Retail deposits		-	-	-	-
5	*Stable deposits*		-	-	-	-
6	*Less stable deposits*		-	-	-	-
7	Wholesale funding:		**16,504,317,155**	**-**	**- 0**	**4,628,779,017**
8	*Operational deposits*		9,257,558,034	-	-	4,628,779,017
9	*Other wholesale funding*		7,246,759,121	-	- 0	- 0
10	Interdependent liabilities		-	-	-	-
11	Other liabilities:	**0**	**252,032,505**	**-**	**-**	**-**
12	*NSFR derivative liabilities*	0				
13	*All other liabilities and capital instruments not included in the above categories*		252,032,505	-	-	-
14	**Total available stable funding (ASF)**					**6,382,624,967**
Required stable funding (RSF) Items						
15	Total high-quality liquid assets (HQLA)					**341,023,000**
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		-	-	-	-
17	Performing loans and securities:		**6,405,867,158**	**587,980,713**	**560,562,943**	**1,495,140,016**
18	*Performing securities financing transactions with financial customerscollateralised by Level 1 HQLA subject to 0% haircut*		-	-	-	-
19	*Performing securities financing transactions with financial customer collateralised by other assets and loans and advances to financial institutions*		6,405,867,158	587,980,713	560,562,943	1,495,140,016
20	*Performing loans to non- financial corporate clients, loans to retail and small business customers, and loans to sovereigns, and PSEs, of which:*		-	-	-	-
21	*With a risk weight of less than or equal to 35% under the Basel II Standardised Approach for credit risk*		-	-	-	-
22	*Performing residential mortgages, of which:*		-	-	-	-
23	*With a risk weight of less than or equal to 35% under the Basel II Standardised Approach for credit risk*		-	-	-	-
24	*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*		-	-	-	-
25	Interdependent assets		-	-	-	-
26	Other assets:		**1,104,835,633**	**-**	**402,396,501**	**616,315,290**
27	*Physical traded commodities*				-	-
28	*Assets posted as initial margin for derivative contracts and contributions to default funds of CCPs*		-	-	-	-
29	*NSFR derivative assets*		62,452,804			62,452,804
30	*NSFR derivative liabilities before deduction of variation margin posted*		821,612,067			41,080,603
31	*All other assets not included in the above categories*		220,770,762	-	402,396,501	512,781,883
32	Off-balance sheet items		**227,872,935**	**130,017,373**	**921,728,861**	**63,980,958**
33	**Total RSF**					**2,516,459,263**
34	**Net Stable Funding Ratio (%)**					253.64%

Scope of consolidation: consolidated Period: T-1 Jun-22		Unweighted value by residual maturity				Weighted value
		No maturity[1]	< 6 months	6 months to < 1yr	≥ 1yr	
Available stable funding (ASF) Items						
1	Capital items and instruments	**1,213,412,323**	**-**	**-**	**497,854,696**	**1,711,267,019**
2	*Own funds*	1,213,412,323	-	-	497,854,696	1,711,267,019
3	*Other capital instruments*		-	-	-	-
4	Retail deposits		-	-	-	-
5	*Stable deposits*		-	-	-	-
6	*Less stable deposits*		-	-	-	-
7	Wholesale funding:		**16,285,710,174**	**-**	**0**	**4,741,195,089**
8	*Operational deposits*		9,482,390,179	-	-	4,741,195,089
9	*Other wholesale funding*		6,803,319,995	-	0	0
10	Interdependent liabilities		-	-	-	-
11	Other liabilities:	**66,431,622**	**293,333,047**	-	-	-
12	*NSFR derivative liabilities*	66,431,622				
13	*All other liabilities and capital instruments not included in the above categories*		293,333,047	-	-	-
14	**Total available stable funding (ASF)**					**6,452,462,109**
Required stable funding (RSF) Items						
15	Total high-quality liquid assets (HQLA)					**345,798,199**
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		-	-	-	-
17	Performing loans and securities:		**8,395,500,019**	**367,216,438**	**435,823,517**	**1,458,981,738**
18	*Performing securities financing transactions with financial customerscollateralised by Level 1 HQLA subject to 0% haircut*		-	-	-	-
19	*Performing securities financing transactions with financial customer collateralised by other assets and loans and advances to financial institutions*		8,395,500,019	367,216,438	435,823,517	1,458,981,738
20	*Performing loans to non- financial corporate clients, loans to retail and small business customers, and loans to sovereigns, and PSEs, of which:*		-	-	-	-
21	*With a risk weight of less than or equal to 35% under the Basel II Standardised Approach for credit risk*		-	-	-	-
22	*Performing residential mortgages, of which:*		-	-	-	-
23	*With a risk weight of less than or equal to 35% under the Basel II Standardised Approach for credit risk*		-	-	-	-
24	*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*		-	-	-	-
25	Interdependent assets		-	-	-	-
26	Other assets:		**1,136,420,517**	**-**	**540,156,251**	**709,219,950**
27	*Physical traded commodities*				-	-
28	*Assets posted as initial margin for derivative contracts and contributions to default funds of CCPs*		-	-	-	-
29	*NSFR derivative assets*		-			-
30	*NSFR derivative liabilities before deduction of variation margin posted*		**886,992,355**			44,349,618
31	*All other assets not included in the above categories*		249,428,162	-	540,156,251	664,870,332
32	Off-balance sheet items		**407,209,253**	**221,199,852**	**1,063,202,667**	**84,580,589**
33	**Total RSF**					**2,598,580,475**
34	**Net Stable Funding Ratio (%)**					248.31%

7 Interest Rate Risk in the Banking Book

7.1 IRRBB measurement and management

RBCIS Bank is exposed to market risk arising from transactions originated by its various units. Interest rate risk, a type of market risk, is the risk of loss resulting from changes in interest rates and/or in the volatility. Interest rate risk arises largely from mismatched maturity and re-pricing dates between RBCIS Bank's assets, liabilities and off-balance sheet transactions.

While these mismatches are inherent to a bank's role as a financial intermediary, RBCIS Bank seeks to limit the impact of these mismatches on its NII and EVE.

RBCIS Bank has developed an IRRBB policy that specifies RBCIS Bank's requirements for prudent asset liability management of interest rate risk to limit the exposure of RBC Investor Services Bank S.A. NII and EVE to changes in interest rates. It is developed in consideration of RBC's Market Risk Framework, the RBC's Enterprise IRRBB policy , internal requirements, accepted practices and the requirements of regulators.

As such, the purpose of the RBCIS Bank IRRBB policy is to:

- Establish objectives for managing the IRR arising from RBCIS Bank's structural (non-trading) portfolios;
- Set structural interest rate limits for RBCIS Bank's structural portfolios in accordance with RBC Board-approved enterprise structural interest rate risk limits;
- Outline the roles, responsibilities and authorities of the various risk committees, functional units and personnel with respect to this policy.

Changes and updates to the measurement and assessment of IRRBB due to, but not limited to: (i) model changes, (ii) business driven assumptions and (iii) new product or business activity are outlined in the RBCIS Bank Non-Trading Market Risk Standing Order.

The controls over allowable market activity as well as permissible hedging strategies and instruments are documented in RBCIS Bank Investment Policy, RBCIS Bank Market Risk Limits document and in the RBCIS Bank IRRBB policy.

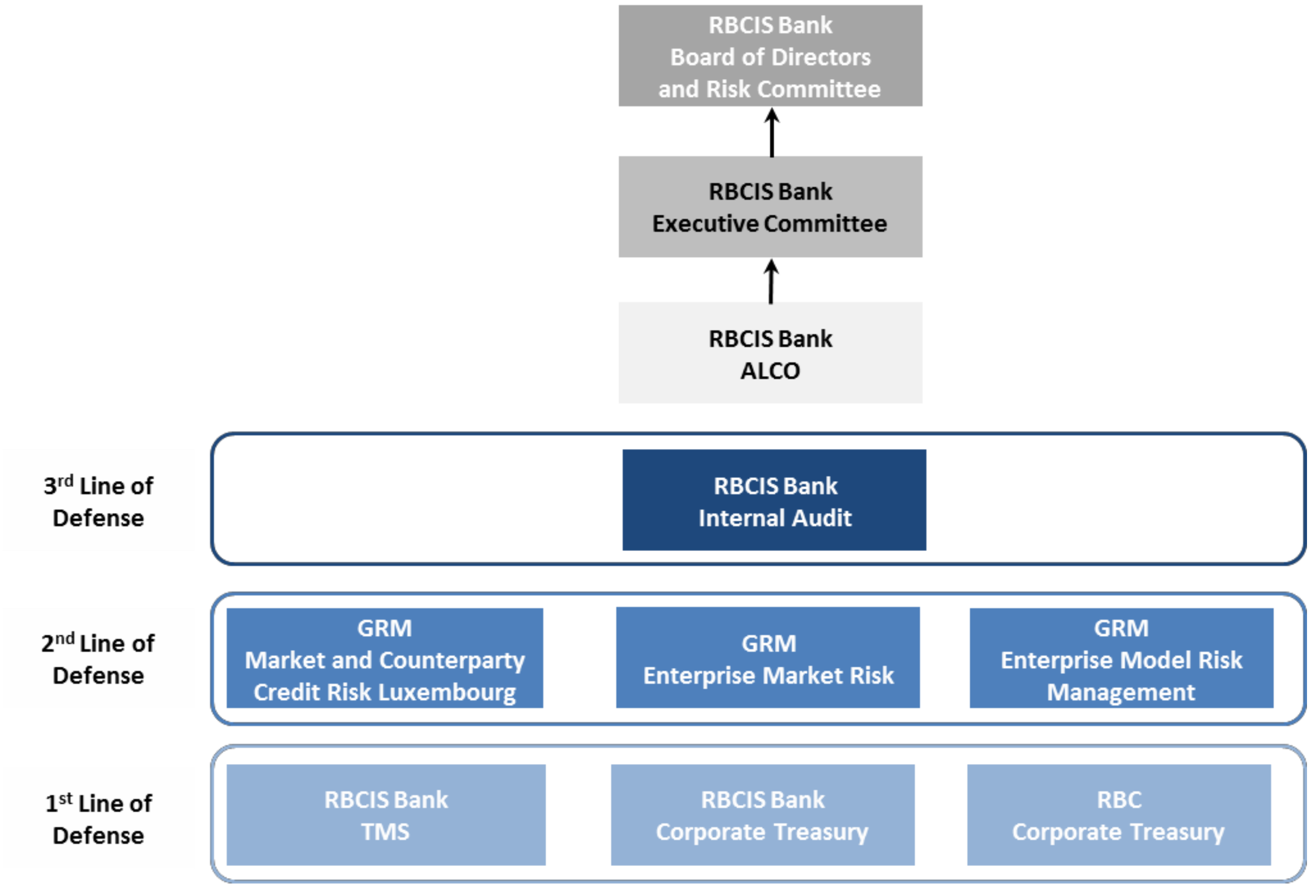
RBCIS Bank follows the regulatory requirements as set out by the ECB and the EBA/GL/2018/02.

Finally, the RBCIS Bank IRRBB Policy defines the following Interest Rate Risk objectives :

- To preserve RBCIS `safety and soundness by limiting the vulnerability of EVE and NII to adverse interest rate movements. Since some degree of IRR is inherent to the banking business, total concurrently elimination of either NII risk or Value risk is not practical;
- To protect RBCIS 'ability to pursue its core business strategies by addressing creditor concerns and regulatory requirements. This objective implies a requirement to manage IRR in a prudent and professional manner;
- To improve current and future earnings by managing IRR in a cost-effective manner within the constraints of the first two objectives;
- To favor the management of Value Risk over NII Risk, subject to the constraints of the risk limits specified in the policy and the first two objectives. EVE Risk management is favored because it is a more comprehensive, longer-term economic measure of interest rate risk, while NII Risk is an accounting-income based measure and provides no insight into IRR inherent in a balance sheet beyond a certain measurement horizon;
- To operate within the risk limits allocated to RBCIS and specified in the RBCIS Bank IRRBB policy in order to manage the day to day operations, taking into account the constraints of its processes and risk measurement capabilities, while adhering to other applicable frameworks, policies, and standing orders which cover, on a standalone basis, specific risk aspects of RBCIS' balance sheet.

Roles and responsibilities of key stakeholders in the IRRBB measurement are summarized in the picture below.

Graph 7-1 – Roles and responsibilities in the IRRBB measurement



Process owners are responsible for ensuring adherence to the RBCIS Bank IRRBB policy and for maintaining appropriate evidence of their monitoring activities.

Table 7-1 – IRRBB Roles and Responsibilities

	Responsibilities
RBCIS Bank's BoD and Risk Committee of the BoD	RBCIS Bank of Directors and Risk Committee's responsibilities include, but are not limited to: • Reviews, on a regular basis, reporting on RBCIS Bank's structural IRR position and status. • Risk Committee of the BoD reviews and recommends to the BoD for approval the IRRBB Policy and Limits at least once a year. • Defining the risk strategy and guiding principles related to IRRBB and entrusting the ExCo with the implementation of these governance principles. • Monitoring the implementation by the ExCo of its internal governance strategies related to IRRBB.
RBCIS Bank's ExCo	ExCo responsibilities includes, but are not limited to: • Implementing the Governance principles related to IRRBB as defined by the BoD and its Risk Committee. • Regularly reviewing compliance against approved limits and key developments affecting the management of IRRBB.
Asset Liability Management Committee (RBCIS Bank's ALCO) (Chaired by the RBCIS Bank's Treasurer)	• RBCIS Bank's ALCO has primary oversight responsibility and authority for ensuring that RBCIS Bank's ALM is managed prudently and professionally: - At least annually, reviews and recommends RBCIS Bank's l IRRBB Policy along with the Limits. - Provides strategic direction to the TMS Group for the management of structural IRR. - Reviews ALM strategies for RBCIS Bank including tactical risk positioning. - Regularly reviews compliance against approved limits and key developments affecting the management of structural IRR. - Responsible for ensuring that the RBCIS Bank's BoD has sufficient reports and metrics for IRR oversight. - Delegate and approve risk limits to RBCIS Bank. - Delegate and approve risk limits to the subsidiaries of RBCIS Bank. • Requests, as needed, supplementary information from the TMS Group in Luxembourg and RBC Corporate Treasury to fulfil its oversight responsibility.
RBC Corporate Treasury	• Proposes policy amendments for consideration by RBCIS Bank, and provides Advice and counsel regarding the consistency of RBCIS Bank's IRRBB policy with Enterprise IRRBB practices. • On a monthly and/or quarterly basis as required (and more frequently if required), calculates and reports Value Risk and NII Risk for RBCIS Bank. • Maintains qualified, capable staff to operate the interest rate risk models, provide the services and explain the results. • Responsible for developing, maintaining and documenting the IRRBB methodology and changes to the methodology. • Provides advice and counsel on pricing and measuring interest rate risk of existing and new products. • Be knowledgeable of the RBCIS Bank's IRRBB policy. • Submits to GRM-Enterprise Model Risk Management and GRM-Enterprise Market Risk for validation new or revised models, and model parameters and assumptions, on a timely basis. • Attends RBCIS Bank ALCO when deemed appropriate.

Committee/Group	Responsibilities
RBCIS Bank Corporate Treasury	• In collaboration with RBC Corporate Treasury, ensure the integrity of the interest rate risk management process, including data collection and transformation, assumptions, modeling, and reporting. • Develop and propose policy amendments in response to new business initiatives and identify appropriate amendments that reflect changes in regulatory requirements. • Interface for ECB/CSSF on IRRBB matters. • On a regular basis, provide status updates to RBCIS Bank's ALCO, on the measurement, monitoring and management of their interest rate risk and related initiatives and action plans. • In conjunction with RBC Corporate Treasury Toronto, documents the business assumptions used in the IRRBB models.
RBC Investor & Treasury Services Treasury & Market Services (TMS) Group in Luxembourg	• Day-to-day responsibility under the direction of the RBCIS Bank Corporate Treasury for structural IRR management, including: - Reports developments in structural IRR to RBCIS Bank's ALCO. - Ensures that the IRR is managed within allocated risk limits using permitted instruments identified in various policies and Standing Orders; and following Core Portfolio Principles. • Manages and develops risk mitigation strategies for the structural balance sheet in order to stay within approved limits. • Works with business lines to ensure understanding of linkages of interest rate risk arising from banking products.
RBCIS Bank Market and Counterparty Credit Risk (MCCR)	RBCIS Bank MCCR's responsibilities include, but are not limited to: • Reviews the market risk operational limits at least annually. • Provides independent and effective oversight on the nature and extent of material market risks including IRRBB. • Ensures the implementation of and compliance with risk management policies and procedures. • Establishes control processes by developing key market risk sensitivity metrics and RBCIS Bank risk reporting to inform and support management. • Identifies supplementary risk controls that may be required to manage the risks and exposures as necessary. • Reviews changes to risk measurement models. • Partners with GRM-Enterprise Model Risk Management and GRM-Enterprise Market Risk to review and approve model parameters and assumptions. • Produces monthly reporting for RBCIS Bank limit monitoring. • Reviews proposals for new products and for changes to existing products with market risk impacts. • Approves Operational limits and exceptions to those limits. • Represents GRM to regulators on matters related to RBCIS Bank IRRBB and other non-trading risks. • Reviews regulatory submissions. • Delivers ICAAP documentation related to IRRBB.

7.2 Description of IRRBB Measurement

The measurement of RBCIS Bank's IRRBB is centralized at RBC Corporate Treasury, Head office in Toronto. By leveraging the centralized and utilized resources and IT tools, Corporate Treasury Toronto in close collaboration with Corporate Treasury Luxembourg performs the production of periodical IRRBB measurements and ad hoc qualitative and quantitative assessments to support completion of reporting and/or analyses. A service level agreement (SLA) exists outlining the level of service and the responsibilities between IS Bank and RBC Corporate Treasury.

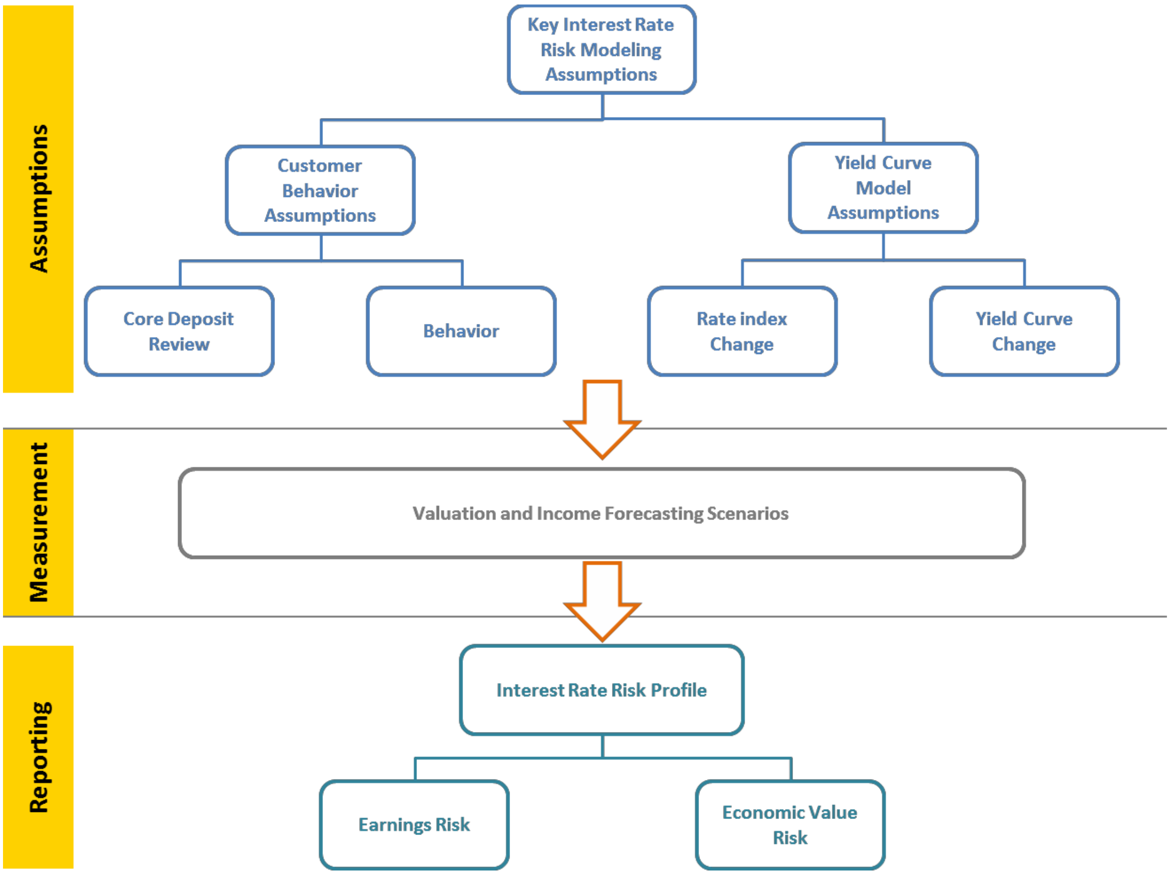
7.2.1 Process overview

The process starts with research aimed at identifying the customer behavior/yield curve assumptions then building/setting up a set of models, which incorporates those assumptions into the RBCIS Bank IRR profile. This task is performed by the Applied Research and Analytics department, Interest Rate Risk Measurement and Risk Infrastructure teams of RBC. The next step is generating the actual risk profile using the most current set of position data. The reporting function is performed by the Corporate Treasury Toronto IRR Measurement department.

Model design and maintenance must comply with applicable requirements as set out in GRM's policies and standing orders, including those outlined in the RBC Enterprise Model Risk Policy. Appropriate approvals must be obtained from GRM prior to use of any new or changed model.

The following picture illustrates main steps involved in measuring and reporting the Interest Rate Risk exposure of RBCIS.

Graph 7-2 – IRRBB measurement: process overview



7.2.2 Assumptions

Yield Curve Model Assumptions

RBCIS Bank's IRRBB Model is capable of modelling a wide range of rate scenarios. For NII risk metrics, RBCIS relies on deterministic rate scenarios that are based on prevailing market yield curves in EUR, USD, CAD, CHF, JPY and GPB. For EVE risk measurement, RBCIS uses closed form valuation models

Customer Behavior and Rate Assumptions

Customer Behavior and Rate Assumptions are intended to simulate customer reaction to changes in the interest rate environment and product pricing response to underlying wholesale market rate changes. For RBCIS, the main focus of review and assumptions relate to administration of deposit rates. Rates are generally administered (consistent with custodial bank competitive practices) to ensure a high degree of balance stability.

Modeling of Product Price Sensitivity

Contractual features of RBCIS Bank's products relevant to the measurement of interest rate risk are mapped into the IRRBB Model to accurately model their cash flows for the purpose of measuring interest rate earnings and value risk.

For products with no contractual maturity and administrated rates (e.g. deposits), historical balances and product rate information is analyzed by currency, along with a product review to establish interest rate risk characteristics. Historic balances are reviewed quantitatively to assess stability and possible relationship to rate levels and changes. Capital and reserves included in the IRRBB sensitivity analysis are modeled separately from liabilities.

7.2.3 Key Model Specifications

EVE risk represents the sensitivity of balance sheet's value, as measured by the net present value of assets minus liabilities plus the net value of off-balance sheet items, to fluctuations in interest rates.

Valuation of securities and term deposits are based on discounting contractual/projected cash flows. Discount factors are generated from market swap curves.

Shocked valuations are generated by full re-valuation of the relevant instruments with scenario shocks applied directly to input curves.

Table 7-2 – Average and longest repricing maturity

Repricing maturity assigned to NMDs
Average repricing maturity assigned to NMDs.
Longest repricing maturity assigned to NMDs.

NII risk is the change in 1-year projected balance sheet accrued interest income from change in client interest and market interest rates from a base projection based on projected forward rates.

7.2.4 Periodicity of reporting

Table 7-3 – IRRBB reporting

Frequency	Type of Measurement	Monitoring/Control
Reporting to • ALCO (Monthly) • EXCO (Monthly) • Risk Committee (Quarterly) • BoD (Quarterly)	On a monthly basis and more frequently if required, measurement and report of Value Risk and NII Risk for RBCIS Bank including: • Value Risk and NII Risk exposures under an instantaneous up or down 100 basis point rate change as outlined in the EBA/GL/2018/02 ; • The change in economic value that results from calculating the outcome of the standard shock, as referred to in Article 98(5) of CRD IV and in the EBA EBA/GL/2018/02. • Measurement of the EVE and NII/earnings sensitivity under different stress test scenarios for potential changes in the level and shape of the interest rate yield curve as outlined in the EBA/GL/2018/02. • Measurement of the risk subcomponents of IRRBB, including: gap risk, option risk and basis risk as outlined in EBA GL/2018/02.	*First line of defense* • Corporate Treasury Luxembourg • TMS Luxembourg *Second line of defense* • GRM Market and Counterparty Credit Risk Luxembourg
Quarterly Reporting to • ECB	• On a quarterly basis update of the Quantitative and qualitative sections of the IRRBB template as part of the supervisory STE.	*First line of defense* • *Corporate Treasury Luxembourg* *Second line of defense* • GRM Market and Counterparty Credit Risk Luxembourg Review by CFO/CRO
Annual Reporting • CSSF	• On an annual basis, update of the quantitative and qualitative sections of the IRRBB CSSF regulatory reporting.	*First line of defense* • Corporate Treasury Luxembourg *Second line of defense* • GRM Market and Counterparty Credit Risk Luxembourg

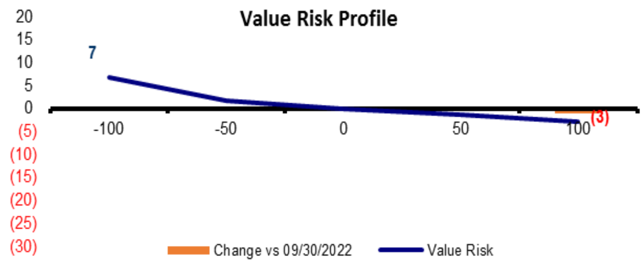
7.2.5 IRRBB Measures

7.2.5.1 Δ EVE under 100 upward / downward shock

Table 7-4 – value risk by major currency

	100_DN	100_UP
EUR	(0.2)	1
USD	3	(4)
GBP	2	(2)
CHF	3	1
Other	0	(0)
Total	**7**	**(3)**

Graph 7-3 – value risk profile



7.2.5.2 Δ EVE under 200 upward / downward shock (outlier test)

Table 7-5 – outlier test

	200_DN	200_UP
15% of Available Capital	(244)	(244)
Value Risk RBCIS Bank	5	(9)
Value risk utilization	**0.0%**	**3.7%**

7.2.5.3 Δ NII under 100 upward / downward shock

Table 7-6 – Earning risk by major currencies

EUR mm	100_DN	100_UP
EUR	(13)	13
USD	4	(4)
GBP	1	(1)
Other	(1)	4
Total	(3.2)	12

7.3 Interest rate shocks and stress scenarios

The key model outputs, EVE and NII risks, are calculated over a wide range of interest rate scenarios in order to comply with regulatory requirements and to capture the various hypothetical movements of the interest rate term structure.

There are 10 historical, 5 hypothetical and 11 Single Risk Factor stress scenarios considered for the calculation of RBCIS Bank portfolio's IRRBB to stressed market conditions.

RBCIS also applies the 6 prescribed Standardized interest rate shock scenarios according to the EBA/GL/2018/02.

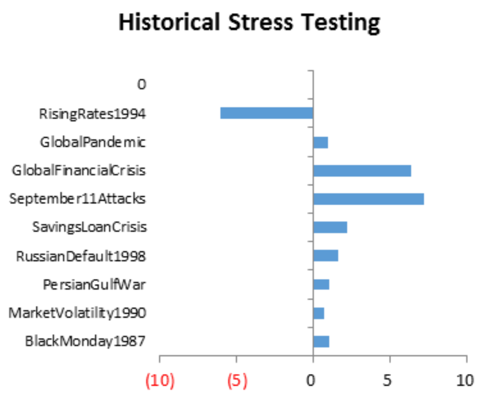
7.3.1 Historical stress tests

Historical stress tests are designed to recreate market shocks that occurred during a period of significant market turbulence such as the Global Financial Crisis of 2008 or Black Monday in 1987. By recreating these shocks the Bank can assess what would happen to the banking book if this type of events were to reoccur.

Table 7-7 – Historical Stress Test summary

Shock Type	Start Date	End date
Savings and Loan Crisis	5-Mar-1986	27-May-1986
Market Volatility 1987	13-Apr-1987	3-Jul-1987
Black Monday	29-Sep-1987	26-Oct-1987
Market Volatility 1990	20-Apr-1990	28-Jun-1990
Persian Gulf War	23-Aug-1990	14-Nov-1990
Russian Default	10-Sep-1998	21-Oct-1998
September 11	30-Aug-2001	07-Nov-2001
Market Volatility 2002	4-Sep-2002	15-Oct-2002
Global Financial Crisis	1-Sep-2008	21-Nov-2008
Euro Crisis / US Downgrade	4-Aug-2011	12-Oct-2011

Graph 7-8 –Historical stress tests – Summary results (∆ EVE)



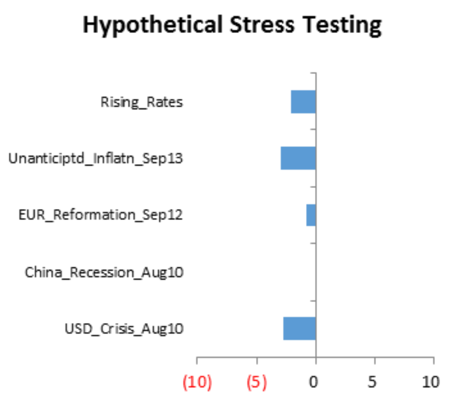
7.3.2 Hypothetical Stress tests

Historical scenarios capture exposures to stress situations similar to past experiences but are not able to capture the potential market changes that could occur under a different type of economic situation. Hypothetical scenarios fill in this gap by developing a series of market shocks that would likely occur if a particular economic event were to unfold.

Scenarios include:

a) A possible recession in China
b) A reformation of the Eurozone
c) A period of unanticipated inflation
d) Expectation of significant rising bond yields
e) A USD crisis due to growing public debt, unfunded liabilities and risk of default in major municipalities

Graph 7-9 – Hypothetical stress tests – Summary results (Δ EVE)



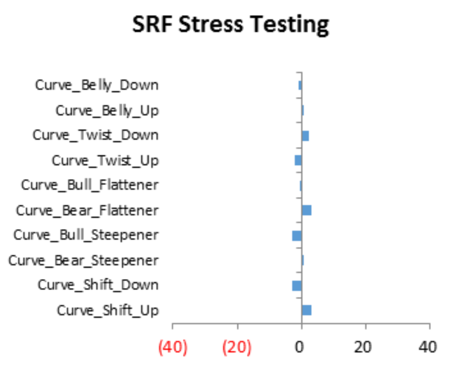
7.3.3 Single Risk Factor Stress

Single Risk Factor (SRF) stress scenarios are simplified stress scenarios that apply shocks to a limited number of risk factors within broad asset classes.

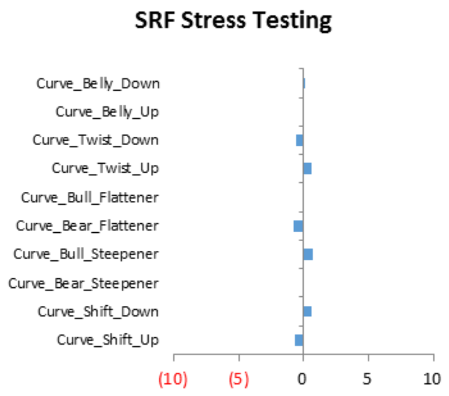
SRF stresses can allow management to better identify what element within a broader stress test is driving exposures, and can help limit concentrations within the portfolio.

The shape and magnitude of shocks are tied to actual movements in history over a 20-day horizon. A statistical analysis was used to identify the types of curve shocks that can be used to explain most of the historical data.

Graph 7-10– Single risk factors – Summary results (Δ EVE)



Graph 7-11 – Single risk factors – Summary results (Δ NII)



7.3.4 EBA Standardized interest rate shock scenarios

Banks are required to the six prescribed interest rate shock scenarios to capture parallel and non-parallel gap risks for EVE and two prescribed interest rate shock scenarios for NII. These scenarios are applied to IRRBB exposures in each currency for which the bank has material positions.

The template EU IRRBB1 provides with an overview of the 6 stress tests impact on ΔEVE and ΔNII (Parallel up and down only) along with the Tier 1 Capital.

Template – EU IRRBB1 – Interest rate risks of non-trading book activities

		a	b	c	d
Supervisory shock scenarios		Changes of the economic value of equity		Changes of the net interest income	
		Current period	Last period	Current period	Last period
1	Parallel up	-10	-11.5	24.8	35.4
2	Parallel down	3.6	3	7.2	-4.2
3	Steepener	3.8	3.7		
4	Flattener	-10.8	-11.7		
5	Short rates up	-13.4	-12.1		
6	Short rates down	6.8	3.4		

8 Operational risk

Operational risk is defined as the risk of loss or harm resulting from people, inadequate or failed internal processes and systems, or from external events. At RBC, the scope of operational risk is further defined by Operational Risk Categories. Proactive management of operational risks and controls is a key element of the RBC Enterprise Operational Risk Management Framework (ORM Framework), which establishes the principles of how RBC manages effectively its operational risk exposures.

8.1 Strategies and processes

The overall Operational Risk is assessed through a combination of qualitative and quantitative methods. A variety of risk and control criteria are used to generate the risk profiles for each legal entity part of the group and for the material products part of client service offering. These risk profiles are analysed at an aggregate level to provide a view of the risk profile of the business and the local platform as a whole. These profiles are reported to various committees for discussion and action. Specific risks and issues as well as overall themes are discussed.

RBCIS has embedded Operational risk management in all of its activities by leveraging the main elements of the Operational Risk Management Framework outlined below:

- Risk and Control Self-Assessment (RCSA): Performed both at an Enterprise level and at a regional business unit or process level, these assessments provide an integrated source of Operational risk and control information.
- External Operational Risk Event Review: Provides 'lessons learned' and emerging industry trends. GRM
- Operational Risk team performs internal analysis to investigate whether or not controls are in place to mitigate against such events and recommends additional actions, where required.
- Internal Operational Risk Event Management: Operational risk events, including those resulting in actual losses and non-monetary events are monitored by Operational Control team (with oversight from GRM Operational Risk). The focus is on a complete understanding of root cause and mitigation plans for these events with a view to mitigating repeat occurrences.
- Operational Risk Scenarios: A number of Scenario analyses is undertaken on an annual basis to proactively identify plausible events with a potentially high impact but low probability of occurrence. The primary scenario topics are provided by Enterprise Operational Risk Management (EORM) and are further supplemented at a Business level via Business platform specific key identified risks.
- Operational Risk Issue and Actions Tracking and Monitoring – Operational risk issues and actions identified as a result of RCAs / risk events are entered into RBC's global Enterprise Operational Risk Management database, Archer, and tracked by Operational Control team until resolution.
- New product/ Initiatives Risk Assessment: Every new initiative, including changed/ new product go
- through an assessment of potential contribution to future end state operational risk. Mitigants are identified and monitored throughout the initiative lifecycle in order to stay within risk appetite once delivered.
- Key Risk Indicator (KRI): KRIs are set and monitored for each business on a continuous basis with thresholds set annually. Quarterly Risk Appetite indicators – as defined by the RBCIS Bank 's BoD – complement the monthly KRI's.

Where a risk is assessed as "not adequately mitigated", an issue must be identified and documented, unless the risk owner chooses to accept the risk. Management risk acceptance decisions need to be documented and approved by an appropriate approval authority. All issues need to have formally documented action plans with completion dates to mitigate the associated risk. Action plans must be reasonably expected to function as designed once implemented. Issue closure criteria, including any required supporting material or evidence to be provided, are documented.

Action plans must clearly articulate:

I. the steps to be taken to mitigate the risk associated with the issue; and

II. completion dates.

To ensure effective and efficient resolution of issues, agreement is obtained on proposed action plans and closure criteria from relevant stakeholders (e.g., 2nd Line responsible for performing independent issue closure verification) prior to finalization. Where required, an issue may be documented with an interim action to scope appropriate mitigation plans in lieu of a formal action plan. Interim actions to scope long -term mitigation solution must not exceed six months, after which it must be replaced by a formal action plan articulating the actual solution to mitigate the identified risk.

8.2 Organization of the Risk management Function

RBC uses the Three Lines of Defense Governance Model to ensure that risks to achieving strategic objectives are appropriately managed. Escalation processes are in place such that relevant ORM information (e.g., material risk exposures, items requiring decisions or actions) is escalated to appropriate levels within the organization (e.g., Business management, Segment operating committees, BoD) in a timely manner and commensurate with the urgency and materiality of the matter. Defined governance and escalation structures ensure that senior management has clear visibility of the risk profile to support risk-informed decisions and to ensure holistic risk management.

The following table illustrates the Three Lines of Defense Governance Model with respect to operational risk management.

Table 8-1 – Three Lines of Defense Model

Business and Corporate Support Segments	Centres of Governance / GRM Operational Risk	Internal Audit
1st Line of Defence Risk owners Manage operational risk in its activities	**2nd Line of Defence** Design and implement operational risk management requirements Objective oversight, challenge and assessment	**3rd Line of Defence** Independent assurance
Provided by Segments who are responsible for providing products and services, and for the execution of activities. Employees at all levels of the organization are responsible for managing the day-to-day risks that arise in the context of their roles. Accountabilities include identifying, managing and supervising risks within approved enterprise policies and appetite; and establishing the capabilities for operational risk management, including the execution of ORM Programs.	Provided by the Centres of Governance (CoG) and Group Risk Management Operational Risk (GRM OR) Accountabilities include defining RBC's approach to managing operational risk and the Operational Risk Categories, as well as providing objective and risk-based oversight, challenge and reasonable assurance of their respective areas of risk.	Provided by the internal audit function Accountabilities include conducting independent review and testing of 1st and 2nd Lines; and proving independent assurance to senior management and the Board of Directors on the effectiveness of RBC's risk management practices.

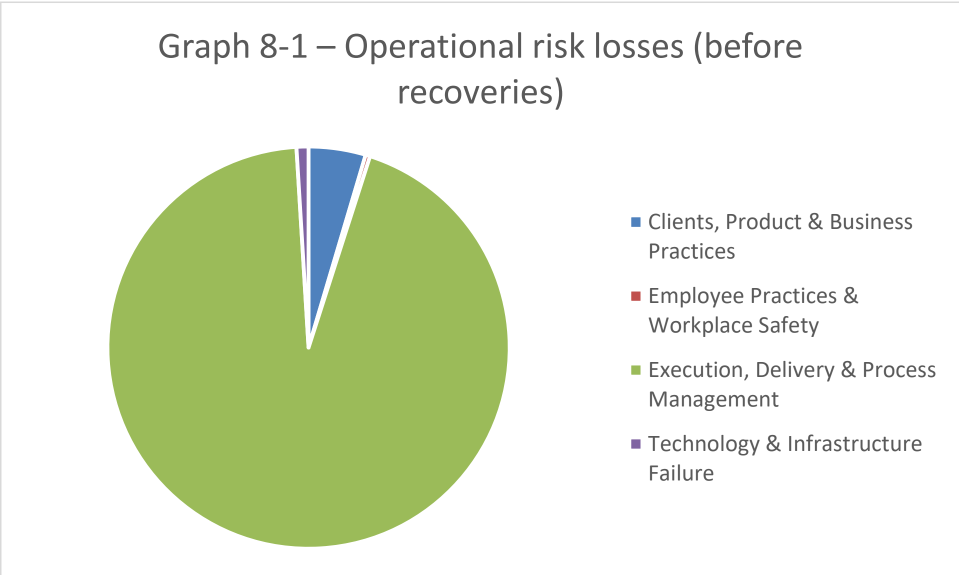
RBCIS Bank's operational risk management framework relies on strong governance, with clear defined roles and responsibilities.

8.3 Risk Reporting and measurement systems

Specific incident where operational risk leads to, or could have led to, an unintended, identifiable risk impact. An internal operational risk event is an operational risk event that affected at least one of RBC's subsidiaries or business units.

A structured, effective, and consistent approach to the collection and analysis of internal operational risk events is necessary to provide meaningful information on the level of operational risk exposure, as well as the appropriateness and effectiveness of the control environment, risk management practices, and the overall Operational Risk Profile. Timely, complete, and accurate capture and recording of internal operational risk events support adherence to Basel Committee on Banking Supervision's Principles for Effective Risk Data Aggregation and Risk Reporting (RDARR). Archer is the tool used to record and track all operational risk events and action plans, with the exception of issues already tracked by Internal Audit or Regulatory Compliance.

Graph 8-1 – Operational risk losses (before recoveries) – EUR mm



Risk Management presents an operational risk report – including earnings impacting events - to the Risk Committee of the RBCIS Bank BoD on a quarterly basis.

8.4 Policies for hedging and mitigating Risk

RBCIS Bank's operational risk management framework relies on strong governance, with clear defined roles and responsibilities.

Key Operational Risk Management Policy Documents (ORM Policy Documents) are illustrated in the following diagram. While this Policy articulates high-level requirements relating to ORM Tools, detailed execution requirements are provided in the RBC Enterprise Standard for Operational Risk Management (ORM Standard).The Operational Risk Management Policy Architecture is depicted in the diagram below.

Table 8-2 – Operational risk management policy architecture

RBC Enterprise Operational Risk Management Framework	
RBC Enterprise Operational Risk Management Policy	RBC Internal Controls Management Policy
RBC Enterprise Standard for Operational Risk Management	

The key ORM Policy Documents are supplemented by guidelines and supporting documents (e.g., methodologies) which provide additional guidance, commentary, and illustrative examples to enhance understanding. Additionally, other Risk Policy Documents address the management of various Operational Risk Categories.

8.5 Calculation of the regulatory capital requirement

Operational risk capital is a mathematical representation of RBCIS Bank's operational risk exposure and supports effective operational risk management by providing credible estimates of operational risk exposures that could potentially impact the achievement of strategic objectives. In addition, operational risk measurement enables RBC to satisfy regulatory requirements to measure minimum required operational risk capital.

RBCIS Bank applies the standardized Basel approach to calculate the regulatory capital requirements for operational risk. This approach consists in applying a percentage (the Beta factor) to an appropriate activity indicator, based on the business lines defined by the Basel Committee.

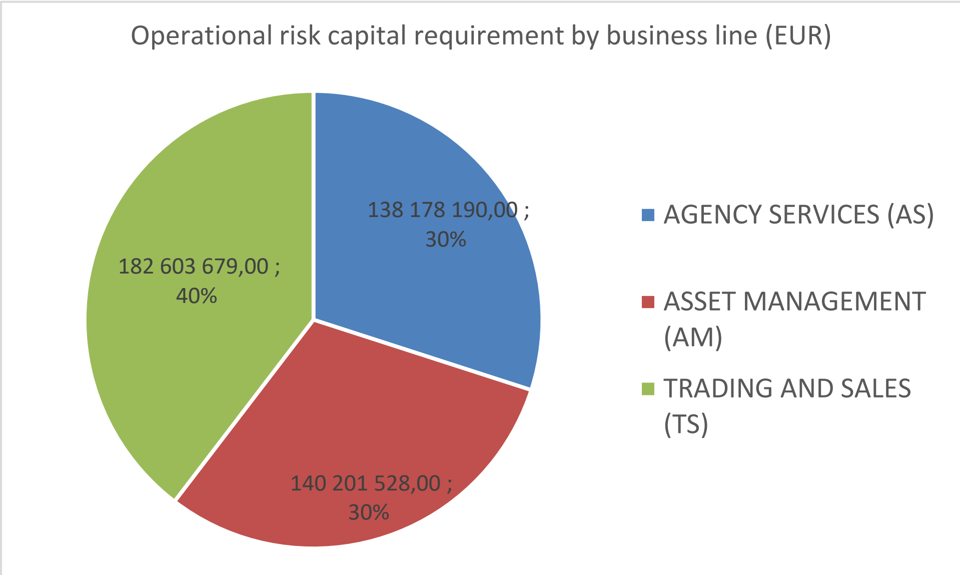
The relevant indicator is defined by the regulator and is based on the operational results of the underlying business lines, using an average over the past three years. The calculation is updated at the end of each year. The global capital requirement for operational risk used during 2022 (which is based on the 2019-2020 and 2021 results) is EUR 70,46 and is based on the following operational results:

Template– EU OR1: Operational risk own funds requirements and risk-weighted exposure amounts

		a	b	c	d	e
		Relevant indicator			Own funds requirements	Risk weighted 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	465	461	461	70	881
3	*Subject to TSA:*	465	461	461		
4	*Subject to ASA:*	-	-	-		
5	Banking activities subject to advanced measurement approaches AMA					

The graph below presents the breakdown by business lines (according to Basel definitions) of the capital requirement for operational risk used in 2022.

Graph 8-2 – Operational risk capital requirement by business line (EUR mm)



9 Asset Encumbrance

RBCIS Bank report on a quarterly basis to the CSSF, asset encumbrance on a consolidated basis. This report includes the whole balance sheet split into encumbered and non-encumbered assets, collateral received and sources of encumbrance.

In accordance with the CRR, the following information have been selected to provide key information:

- Encumbered and unencumbered assets;
- Collateral received and own debt securities issued;
- Sources of encumbrance.

Template– EUAE1 – Encumbered and unencumbered assets

		Carrying amount of encumbered assets		Fair value of encumbered assets		Carrying amount of unencumbered assets		Fair value of unencumbered assets	
			of which notionally eligible EHQLA and HQLA		of which notionally eligible EHQLA and HQLA		of which EHQLA and HQLA		of which EHQLA and HQLA
		010	030	040	050	060	080	090	100
010	**Assets of the reporting institution**	**675,0**				**16294,4**			
030	Equity instruments								
040	Debt securities	299,1		299,1		325,9		325,9	
050	*of which: covered bonds*	120,1		120,1		205,0		205,0	
060	*of which: securitizations*								
070	*of which: issued by general governments*	29,1		29,1		37,0		37,0	
080	*of which: issued by financial corporations*	270,1		270,1		288,9		288,9	
090	*of which: issued by non-financial corporations*								
120	Other assets	375,8				15968,5			

Encumbered assets are mainly explained by:

- Balance with Central banks (Mandatory reserve deposit);
- Securities given as guarantee;
- Cash collateral/Paid to credit institutions (Derivatives);
- Cash collateral/Paid to customers (Derivatives).

Template – EU AE2 - Collateral received and own debt securities issued

		Fair value of encumbered collateral received or own debt securities issued		Unencumbered: Fair value of collateral received or own debt securities issued available for encumbrance	
			of which notionally eligible EHQLA and HQLA		of which notionally eligible EHQLA and HQLA
		010	030	040	050
130	**Collateral received by the reporting institution**				
140	Loans on demand				
150	Equity instruments				
160	Debt securities				
170	of which: covered bonds				
180	of which: issued by general governments				
190	of which: securitizations				
200	of which: issued by financial corporations				
210	of which: issued by non-financial corporations				
220	Loans and advances other than loans on demand				
230	Other collateral received				
240	***Own debt securities issued other than own covered bonds or securitisations***				
241	***Own covered bonds and asset-backed securities issued and not yet pledged***				
250	**TOTAL ASSETS, COLLATERAL RECEIVED AND OWN DEBT SECURITIES ISSUED**	**675,0**			

Template – EU AE3 - Sources of encumbrance

		Matching liabilities, contingent liabilities or securities lent	Assets, collateral received and own debt securities issued other than covered bonds and securitisations encumbered
		010	030
010	**Carrying amount of selected financial liabilities**	**242,6**	**242,6**

10 Remuneration Policy

10.1 Remuneration

Remuneration disclosures are made aligned with RBCIS Bank's application of the requirements of the qualitative and quantitative remuneration disclosures under the Pillar 3 framework and Article 450 of the CRR 2. For enhanced disclosure on RBC's enterprise-wide remuneration practices, please refer to RBC's proxy circular (last published on April 7, 2022).

10.1.1 Remuneration

Committee Scope of activities

The constitution, role and responsibilities of the RBCIS Bank Remuneration Committee ("RemCo") are described in the Remuneration Committee mandate.

The RemCo is appointed by the BoD of RBCIS Bank to act on behalf of, and as a committee of, the BoD of RBCIS Bank.

The RemCo is responsible for the oversight, design and the application of the remuneration principles, practices and processes within RBCIS Bank to ensure that they support the business objectives determined by the RBCIS Bank BoD and/or senior management, take into account sound risk management practices, including long-term and short-term risk and do not encourage risk-taking in excess of the risk appetite of RBC and RBCIS Bank – subject to the approval of the BoD.

The RemCo is responsible for the preparation of recommendations to the BoD regarding the remuneration of senior executives, material risk takers, and other employees and directors identified as Regulated Employees across IS Bank. The RemCo is responsible for the supervision of the remuneration of the Chief Risk Officer, Chief Compliance Officer, and Chief Internal Auditor of RBC IS Bank.
On an annual basis, the RemCo reviews the Remuneration Policy – RBCIS Bank S.A. (IS Remuneration Policy) and recommends the IS Remuneration Policy for approval to the BoD. In doing so, the RemCo takes into account the pay and benefits across RBCIS Bank. This includes the terms of bonus plans and other incentive plans. The RemCo has a specific responsibility to ensure RBCIS Bank-wide policies are compliant with the residing regulations.

The RemCo collaborates and exchanges information with other Committees of the RBCIS BoD, including the Audit, Risk and Nomination Committees with regards to remuneration matters.

RemCo meetings are normally be held at least twice a year. For fiscal year 2022, two meetings were held in line with the RemCo mandate: December 2021 and March 2022.

Constitution

Table 10-1 – Constitution of the remuneration committee

Members of the Remuneration Committee	Meeting Attendance
- Gennaro Casale	- 2 of 2 meetings
- David Morgan (Chair)	- 2 of 2 meetings
- Frederic Mouchel	- 2 of 2 meetings

According to the RemCo mandate, the RemCo is composed of at least three directors of the BoD of RBC IS Bank.

All of the members of the RemCo are independent of day to day management under the standards set out by the BoD of RBCIS Bank. One member of the RemCo, G. Casale, is an employee representative. The RBCIS Bank BoD appointed D. Morgan as Chair from among the members of the RemCo.

David Morgan (Chair of the RemCo effective April 2020 and based in London) is a Non-Executive Director and is not an employee of RBCIS Bank.

Frederic Mouchel is a Member as from the RemCo of April 2020 (based in Luxembourg). He is an independent Non-Executive Director and is not an employee of RBCIS Bank. No individual is involved in decisions relating to his or her own remuneration.

According to the RemCo mandate, other individuals who are not Committee members may attend from time to time at the invitation of the RemCo but will not have the authority to vote. Any member of the RemCo shall abstain from making recommendations and voting on his own remuneration or on remuneration for Regulated Employees who report directly or indirectly to that Committee member.

The quorum consist of a majority of RemCo members at all times.

All RemCo meetings are minuted and circulated to all RemCo members following each meeting.

Support

During the year, the RemCo received advice from RBC Compensation Centre of Expertise (COE) and IS Bank CRO, who provided advice to the RemCo on the implications of the RBCIS Bank Remuneration Policy on risk and risk management, and on the adjustments that should be made to levels of variable remuneration payable to staff, taking into account all relevant current and future risks.

External Consultants

The HR management team of RBCIS Bank received independent advice from Linklaters on changes to the RBCIS Bank Remuneration Policy, prior to presentation to the RemCo. The RemCo itself did not appoint advisers during the year.

The HR management team of RBCIS Bank received in 2021 independent information from KPMG by means of a report and a digital platform regarding benchmarking of compensation, benefits policies, and HR practices in financial services in Luxembourg.

Role of the Relevant Stakeholders

The RemCo takes full account of the Company's strategic goals in setting RBCIS Bank Remuneration Policy and is mindful of its duties to shareholders and other stakeholders. The RemCo seeks to preserve shareholder value by ensuring alignment of variable compensation payouts with risk and economic performance, as well as the successful retention, recruitment and motivation of employees.

10.1.2 Criteria for the Identification of Regulated Employees

The following groups of employees have been identified as meeting the criteria for Regulated Employees:

Employees captured by qualitative criteria include but are not limited to:

- Members of the Management Body in its Supervisory Function (i.e. Board of Directors), Members of the Management Body in its Management Function and Senior Management.
- Employees with managerial responsibility over the institution's Control Functions (i.e. Risk, Compliance, Internal Audit).
- Employees with managerial responsibility over the institution's Material Business Units.

Employees captured by quantitative criteria

- Employees entitled to significant remuneration in the preceding financial year, provided that the following conditions are met:
    a) awarded total compensation of 500,000 EUR or more and was equal to or greater than the average total compensation awarded to those meeting specific qualitative criteria.
    b) performs the professional activity within a Material Business Unit and the activity is of a kind that has a significant impact on the relevant business unit's risk profile.

- Employees that have been awarded in the preceding financial year a total remuneration equal or greater than 750,000 EUR.
- Where the Bank has over 1,000 employees, those employees who are within the 0,3 % of employees or have been awarded the highest total remuneration in or for the preceding financial year.

10.1.3 Design and Structure of Remuneration for Regulated Employees

Remuneration programs are designed to:

- Attract and retain the talent we need to compete and succeed; and
- Align the interests of our employees with the achievement of performance objectives and strategic goals within our risk appetite to drive superior financial performance and generate sustainable shareholder returns.

Guided by RBC's vision of being among the world's most trusted and successful financial institutions and RBC's purpose of helping clients thrive and communities prosper, RBC's approach to remuneration is based on the five guiding principles set out below. The RemCo continually evaluates the policies and procedures applicable to RBCIS Bank with a view to upholding these principles:

Remuneration aligns with long-term shareholder interests

Awards vary based on absolute and relative performance of RBC and RBCIS Bank.

Mid and long-term incentives vest and pay out over time, encouraging a longer-term view of increasing shareholder value.

Remuneration aligns with sound risk management principles

Our risk management culture is reflected in our approach to remuneration. Our remuneration practices appropriately balance risk and reward, and align with shareholder interests.

Performance of individuals, business segments and RBC overall is assessed on a number of measures, including adherence to risk management policies and guidelines.

Remuneration rewards performance

Our pay-for-performance approach rewards employees for their contributions to individual, business segment and enterprise results relative to objectives that support our business strategies for sustainable growth over short, medium and long-term horizons, which are aligned with the risk appetite of RBCIS Bank and RBC.

Remuneration enables the Company to attract, engage and retain talent

Talented and engaged employees are essential in creating value for our clients and to building a sustainable future for RBC. We offer remuneration that is competitive within the markets where we operate and compete for talent.

Remuneration programs reward employees for high performance and their potential for future contribution.

Remuneration rewards behaviors that are consistent with the core values of RBCIS Bank and RBC

Core values, embedded in our Code of Conduct, form the foundation of our culture and underpin our ongoing commitment to putting our clients' needs first, and delivering value for all our stakeholders.

We consider risk conduct and compliance with policies and procedures in determining performance-based remuneration with an emphasis on non-financial criteria when assessing individual performance.

IS Remuneration Policy aligns with global enterprise-wide policies and procedures and applies to RBCIS Bank entities (subsidiaries and branches) under the scope of the CSSF, the EBA and other local regulators of the subsidiaries and branches. Subsidiaries and branches of RBCIS Bank will implement these policies at a minimum (any local regulatory requirements that are above and beyond these policies will be implemented as required). All the RBCIS Bank's remuneration-related policies and plans align with the five guiding principles described above and these policies are approved by the RemCo and the BoD.

Elements of Remuneration

Remuneration includes, but is not limited to, base salary, performance-based incentive awards, pension and benefits. For 2022, there were no non-cash benefits (such as discretionary fringe benefits) offered. All benefits are non-discretionary and are considered to be part of fixed remuneration. All fringe benefits offered by RBCIS Bank are considered components of the fixed remuneration of employees as they are transparent, predetermined and do not depend on performance, form part of the terms of employment and are compliant with article 38-5 g) i) of the LFS and §131 of the EBA Guidelines on Sound Remuneration Policies.

RBC uses a standard framework to assess employee performance in all entities and jurisdictions. A common definition of the different ratings applies. Employees are assessed against goals related to their job mandate, and Leadership model behaviors.

For employees having a dual reporting line (functional and local), the rating related to the performance of the assessed employee is the combination of the input of the two reporting managers.

For Regulated Employees, a mandatory risk objective is included in their annual performance document. The IS Bank CRO reviews the completion of this objective for any Regulated Employee.

Fixed Remuneration

All Regulated Employees receive fixed remuneration that reflects market value, responsibility and contribution to the Company.

Base salary is considered fixed remuneration as it provides a predictable base level of income reflecting an employee's level of responsibility, capabilities, skills and experience.

All benefits received in kind by an employee are non-discretionary and do not foster under any circumstances excessive risk-taking. None of the benefits are linked to performance. Fringe Benefits depend on each entity's Remuneration Structure.

Variable Remuneration

All Regulated Employees, other than the Independent Non-Executive Directors are eligible to participate in discretionary performance based incentive schemes. The purpose of variable remuneration plans are to retain and motivate employees, rewarding individual performance and their contribution to longer-term growth at RBC. Variable remuneration may be allocated in the form of cash and/or equity-linked instruments depending on the amount of variable compensation and employee level.

RBCIS Bank business unit employees participate in the RBC Investor & Treasury Services (I&TS) Incentive Plan, which consists of an annual cash component and, depending on the amount of incentive (which includes a review of financial and non-financial performance), a medium-term equity-based component. Employees in Functions and Technology & Operations (Functions) participate in variable remuneration incentive programs which consist of a short-term cash-based program, as well as a medium-term equity- based program that applies to senior employees.

The allocation of variable remuneration mix for Regulated Employees is based on the minimum remuneration deferral requirements aligned with regulatory requirements.

Compensation risk and performance adjustment

RBC Level: In addition to the Compensation Risk and Performance Adjustment Process – RBCIS Bank S.A., there is an RBC enterprise-level process (Compensation Risk and Performance Adjustment Process) to assist the Human Resources Committee (HRC) (a Committee of the RBC BoD) in determining whether remuneration awards require a risk or performance adjustment. The Compensation Risk Management Oversight Committee (CRMOC), consists of senior enterprise executive members including the CRO, CHRO, and CFO of RBC. The CRMOC is responsible for reviewing enterprise remuneration frameworks and policies to ensure effective governance and oversight, and major remuneration program pool calculations to ensure significant items impacting the results for the period are identified and appropriately captured. The process includes a review of key financial measures, including net income (on both an after-tax and before bonus and tax basis), return on equity, and capital ratio that takes into account the cost and quantity of capital.

The RBC CRO conducts a review of key risk factors to identify significant quantitative and qualitative risks that should be taken into account in determining variable remuneration awards. The CRMOC also reviews these factors. If required, adjustments for risk will be recommended by the RBC CRO to the HRC for review and approval. The RBC CRO's assessment includes the risk profile for RBC and the individual business segments compared to their risk appetite, the risk exposure by risk type compared to established limits and appetite, the strength of the control environment and the potential impacts of emerging risks. The effectiveness of our culture and conduct risk practices are assessed through internal conduct monitoring, employee opinion surveys, external benchmarking against peer practices and regulatory guidance.

Deferred remuneration awards granted to employees whose professional activities may have a material impact on RBC's risk profile, including Regulated Employees, can be adjusted downward at vesting and payout if (i) there has been a material downturn in financial performance or a material failure of managing risk, and (ii) actual risk and performance outcomes are materially different from the assessments made at the time of grant.

RBCIS Bank Level: The RBCIS Bank CRO considers key financial and qualitative measures when evaluating whether any adjustments will be recommended to the overall variable compensation pools beyond what is captured in the formulas. The RBCIS Bank CRO also considers key risk factors and the opinion of the RBCIS Bank CCO when evaluating whether any adjustments will be recommended to variable compensation awards for Regulated Employees.

Business Unit Levels: "RBCIS Bank Level" includes RBCIS Bank entities (branches and subsidiaries).

Individual Level: The RBCIS Bank CRO will review and assess the underlying risks associated with the Regulated Employees' roles and review the recommended variable compensation for the current fiscal year.

As required, the RBCIS Bank CRO will dialogue with the business leaders, the RBCIS Bank CCO and Human Resources on compensation payouts or adjustments. Upon request, the RBCIS Bank CCO will provide effective input into the setting of compensation by taking into account staff compliance-related behavior, riskiness of business undertaken and results of Internal Audit Reports. The Head of Human Resources, Luxembourg will also review variable compensation awards for Regulated Employees.

Details of the review will be presented to the RemCo for review and, in turn, the RemCo will then prepare a recommendation on the variable compensation of the Regulated Employees, for approval by the RBCIS Bank BoD.

The RBCIS Bank CCO conducts a review of compensation for the RBCIS Bank CRO to ensure variable compensation payouts adequately reflect risk and performance, and avoid any conflict of interest.

The RBCIS Bank CCO assesses on an annual basis if misconduct of employees identified (by the Compliance and Human Resources functions) throughout the fiscal year should be considered when setting incentive pools, performance criteria and remuneration awards. The RBCIS Bank CCO formalizes the assessment in a written report which is presented to the RemCo.

The RemCo prepares a recommendation on the variable compensation of the Regulated Employees for approval by the BoD.

Ratio between fixed and variable remuneration

RBCIS Bank has obtained the necessary approvals to operate a maximum level of the ratio between the fixed and variable components of remuneration that does not exceed 200% of the fixed component of the total remuneration for each individual as required under Article 94(1)(g) of CRD V. 100% shareholder approval was obtained on February 21, 2022 for RBCIS Bank and RBCIS Bank subsidiaries and branches for the 2022 fiscal year.

Variable remuneration represents a higher proportion of total remuneration for senior employees to ensure alignment with longer-term shareholder value creation. When determining the pay mix between fixed and variable remuneration, consideration is given to evolving market practice, balance between remuneration elements and maintaining flexibility through volatile markets, recognizing the possibility of paying a zero bonus.

Deferral, vesting requirements and proportionality

All remuneration plans contain minimum remuneration deferral requirements for Regulated Employees in line with regulatory requirements.

RBCIS Bank benefits from a derogation laid down in Article 94(3) of the CRD V, on the basis of point (b) of Article 94(3) aforementioned. Derogation applies to requirements of point l), m) and o) of the Article 94(1) when total remuneration of the Regulated Employees is below the defined thresholds.

Regulated Employees (regardless of variable compensation plan) whose variable remuneration is greater than EUR 50,000 or that represents more than one third of the Regulated Employee's total annual remuneration must defer a minimum of 40% of their total variable remuneration over four years, vesting at the rate of 25% each year. In certain cases, where variable remuneration is equal to or greater than EUR 1,000,000, 60% of the award will be deferred over four years. Vesting will be the same.

Effective fiscal 2021, members of the RBCIS Bank management body (in its Management Function) and Senior Management (including Authorized Management) who are awarded annual total variable compensation greater than EUR 50,000 or that represents more than one third of the Regulated Employee's total annual remuneration must defer at least 60% of their variable compensation over a period of five years, vesting at the rate of 20% per annum over the five year period.

Regulated Employees who may be awarded variable remuneration greater than EUR 50,000 or that represents more than one third of the Regulated Employee's total annual remuneration are subject to 50% of variable remuneration being paid in the form of equity-linked awards which are subject to the retention periods of 12 months post vesting. The remaining 50% of variable compensation is payable in cash.

Regulated Employees, irrespective of the amount of variable remuneration awarded are:

- Not eligible for reinvested dividends;
- Not eligible for pay-out dividends awarded during the deferral period; and
- Not eligible for interest accrues on cash awards.

Deferred remuneration awards granted to Regulated Employees can be adjusted downward at vesting and payout if there has been a material downturn in financial performance or a material failure of managing risk, and actual risk and performance outcomes are materially different from the assessments made at the time of grant.

For Fiscal year 2022, 24 Regulated Employees benefit from the derogation, i.e. not within the scope of the deferral requirements outlined above.

The total remuneration for these 24 Regulated Employees amount to EUR 3.955 mm, split between fixed remuneration EUR 3.369 mm and variable remuneration EUR 0.586 mm.

RBCIS Bank business unit employees that benefit from derogation are subject to certain deferral arrangements based on if their total bonus allocation meets certain thresholds.

For employees in Functions who support RBCIS Bank that benefit from derogation can receive Performance Deferred Share Unit (PDSUP) Program depending on their performance and levels, where 100% of deferred compensation is vests at the end of the year 3. These practices align with our remuneration principles, whereby ensuring an appropriate balance between risk and reward.

Variable remuneration for Control Functions

Performance measures for employees responsible for financial and risk control activities are based on the achievements and objectives of the functions, and their remuneration is determined independently from the performance of the specific business areas they support, therefore eliminating any potential conflicts of interest. Remuneration for employees engaged in Functions are reviewed regularly for market alignment to ensure competitive remuneration levels.

At RBCIS Bank, employees who fall under this arrangement include employees in Compliance, Global Risk Management (GRM), Internal Audit, Human Resources, Legal and Finance.

Variable remuneration for Functions employees who support RBCIS Bank, including all Regulated Employees in Control Functions, is based on individual, RBCIS Bank and overall RBC performance and not the performance directly linked to the business they support. Individual employee performance goals are determined separately from the business units supported, including results from business decisions where the Control Function may be involved. The criteria used for assessing the performance and risk is predominantly based on the internal Control Functions' objectives. The RBCIS Bank CRO, the RBCIS Bank CCO and the RBCIS Bank CIA have a People Management objective and a Risk & Compliance objective. In addition, to those objectives, the RBCIS Bank CRO, the RBCIS Bank CCO and the RBCIS Bank CIA have objectives related to all their control areas related to Risk Management, Compliance, and Internal Audit. The fixed and variable remuneration for these Control Functions employees are reviewed and reported to the RemCo to verify the rating through Audit or Compliance, the reception of level 1 rated issue, the Material Issue slippage rate compared to risk appetite of RBCIS Bank. The ratio between the variable and fixed remuneration for Control Functions employees is capped at 1:1 (or 100%). Employees in a Control Functions are excluded in any request made by RBCIS Bank to Royal Bank Holding Inc. to set, where appropriate, the maximum variable remuneration at 2:1 (or 200%) of fixed remuneration.

Share Ownership requirements

To reinforce the focus on generating long-term value for shareholders, RBC I&TS senior leaders (inclusive of RBCIS Bank) have minimum share ownership requirements. Based on the level of responsibility and role, the share ownership requirements may vary from 1x (for Control Functions Vice Presidents and I&TS Managing Directors (inclusive of RBCIS Bank) to 2x (I&TS Operating Committee members) of the average base salary of the most recent three years.

Guaranteed variable remuneration and severance payments

RBCIS Bank will only in exceptional circumstances make a cash payment commitment to an employee for a specific payment amount, to be paid at a future date not exceeding 12 months following hire, where such future payment amount is guaranteed. In case such award is being made to a Regulated Employee and if applicable, the award shall be subject to deferral. Any payment commitment will be consistent with delegated approval authorities. All severance payments must align with regulatory requirements, local market practices and shareholder interests. Payments related to the termination of employment will reflect performance achieved over time and do not reward failure or misconduct. Managers are required to undertake an assessment of the employee's performance on a multi-year basis and confirm that the proposed severance payment reflects performance achieved over the assessment period and that there has been no failure or misconduct on the part of the employee.

10.1.4 The Link between Pay and Performance for Regulated Employees

Variable remuneration plans reward employees on the basis of several factors, including individual, business segment and enterprise results relative to established performance objectives that are aligned with the risk appetite of RBC. Depending of the level of performance- based pay, a portion of it is allocated in the form of equity incentive awards (linked to RBC's share price performance) in order to align remuneration with the risk time horizon, motivate employees to generate longer-term value for shareholders and remain accountable for decisions with longer risk-tails.

To create a clear relationship between pay and performance, incentive awards are directly linked to performance and employees have an opportunity to earn higher remuneration for outstanding performance, and conversely, earn less remuneration when RBC, a business segment and/or individual results fall below expectations.

Variable remuneration awards take into account firm-wide, business unit level and individual performance metrics. Firm-wide metrics include the financial performance of RBC; business unit level metrics include the financial performance of individual business units (with the exception of Control Functions); individual performance metrics include (but are not limited to) the employee's contribution to overall performance, and the achievement of individual performance objectives. In order to protect the sound capital base of the bank, in cases where firm-wide performance is weak, or in a net-loss position, then the incentive pool would be impacted and this could result in a zero payout.

All employees are assessed as part of a performance management process. This involves the assessment of performance relative to objectives set. Objectives are set and performance is assessed on a multi-year basis. The performance management process is reviewed by the RBC I&TS HR function. At the individual level, there are a number of factors that are considered in determining the extent to which an employee participates in a discretionary variable compensation plan distribution. Typically, these include, but are not limited to, some or all of the following factors:

- reward for personal performance (both results and behaviors);
- RBC I&TS Net Income after Tax;
- adherence to all internal policies and procedures;
- performance relative to risk and capital usage.

Individual performance is evaluated using both financial and non-financial measures.

Select financial measures are applied at the individual level that demonstrates a contribution to overall business results based on financial and risk goals and objectives. These metrics include financial targets (related to income, revenue and cost savings), growth metrics, compliance with risk policies and limits and performance relative to risk and capital usage. For employees in non-revenue generating areas, the measures may include, but are limited to, completion of key tasks, process improvements/efficiencies and the achievement of other goals as agreed.

Non-financial measures considered in the discretionary bonus evaluation process include the following:

- Adherence to our Code of Conduct. RBC's Code of Conduct (Code) promotes standards of ethical behavior that apply to directors, senior management and all employees. Our Code fosters an open environment in which questions and concerns may be brought forward. It creates a frame of reference for dealing with sensitive and complex issues, and provides for accountability if standards of conduct are not upheld. All employees are expected to adhere to our Code, and failure to adhere through unethical or non-compliant behaviors results in disciplinary or corrective action, which may include immediate or eventual dismissal. All employees receive Code of Conduct training and testing on joining RBC and every year thereafter;
- Compliance with a full range of risk management policies specific to individual job requirements as outlined in employee Performance Management Documents;
- Assessment of key behaviors, which are part of the RBC Global Performance Management process;
- Reports from Control Functions, including those from Internal Audit, Compliance, and GRM regarding

operational, market and credit risks, among others;

- Assessment of accountabilities and detailed action plans to implement and monitor changes required to close the gaps identified during risk management or internal audit reviews; and
- For employees who manage people, an assessment of metrics related to driving best in people management practices.

Employees that are not meeting the above mentioned non-financial performance standards for their role are subject to our corrective action process, which can include either a significant reduction in incentive remuneration or dismissal.

Regulated Employees have an additional mandatory Risk Conduct & Culture objective. Achievement of this Risk Conduct & Culture objective is reviewed by the RBCIS Bank CRO annually.

Ex-ante and ex-post adjustment

Prior to vesting, Regulated Employees deferred remuneration is subject to review under the firm's Compensation Risk and Performance Adjustment Process whereby actual risk and performance outcomes are reviewed and if materially different from assessments made when deferred remuneration was granted, or if misconduct has occurred, then deferred remuneration may be reduced or forfeited in full. Adjustments may be applied to remuneration programs, certain business units within a remuneration program, or to specific employees, depending on the underlying nature of the assessed risks, actual performance and risk outcomes.

Adjustments for risk and performance under this process may be applied to variable remuneration at time of award (ex-ante) and/or at or before time of vesting of deferred remuneration (ex-post).

Ex-ante adjustments are applied at the time variable remuneration is awarded, based on forward looking quantitative and qualitative measures. For Regulated Employees, the RBCIS Bank CRO conducts a review of their remuneration to ensure variable remuneration payouts adequately reflect risk and performance. The RBCIS Bank CRO reviews and assesses the underlying risks associated with the Regulated Employees' roles and reviews the recommended variable remuneration for the current fiscal year, and if required, determines adjustments.

Ex-post adjustments are applied to deferred, unvested variable remuneration at or before the time of award maturity and payout. Adjustments may be made if actual performance and risk outcomes are significantly different than assessments made when deferred remuneration was initially granted. At the end of each fiscal year, and before the vesting date of deferred remuneration, the RemCo will consider whether there has been a material downturn in financial performance or a material failure of managing risk. If actual risk and performance outcomes are materially different from assessments made when deferred remuneration was granted, and that information would have negatively impacted the amount of deferred remuneration awards when initially granted, the RemCo will determine the following: if downward ex-post adjustments should be applied to unvested deferred remuneration, the employees impacted, the portion of unvested deferred remuneration to which the adjustment applies; and the value of the adjustment to be applied. The RBCIS Bank CRO leads the process of determining whether there has been a material downturn in financial performance, or a material failure in managing risk based on certain ex-post adjustment review process triggers; and provides to the RemCo any risk-related recommendations with respect to deferred remuneration awards vesting.

All variable remuneration made to Regulated Employees under the RBCIS Bank's variable remuneration schemes are subject to malus and clawback under the Forfeiture and Clawback for Regulated Employees Policy – RBCIS Bank. This Policy enables RBC to recoup variable remuneration awards that have been paid and cancels unvested variable remuneration awards in certain situations including, but not limited to, misconduct as defined in the Policy.

10.2 Disclosures on Remuneration

During the year ended 31st October 2022, remuneration for staff whose professional activities have a material impact on the risk profile of the business (Regulated Employees) was as follows.

Template EU REM1 - Remuneration awarded for the financial year

			a	b	c	d
			MB Supervisory function	MB Management function	Other senior management	Other identified staff
1	Fixed remuneration	Number of identified staff	6	6	19	22
2		Total fixed remuneration	0.3	1.5	3.0	3.9
3		Of which: cash-based	0.3	1.4	3.0	3.8
4		(Not applicable in the EU)				
EU-4a		Of which: shares or equivalent ownership interests				
5		Of which: share-linked instruments or equivalent non-cash instruments				
EU-5x		Of which: other instruments				
6		(Not applicable in the EU)				
7		Of which: other forms		0.1	-	0.2
8		(Not applicable in the EU)				
9	Variable remuneration	Number of identified staff	6	6	19	22
10		Total variable remuneration		1.1	1.6	2.2
11		Of which: cash-based		0.5	1.0	1.2
12		Of which: deferred		0.3	0.2	0.4
EU-13a		Of which: shares or equivalent ownership interests				
EU-14a		Of which: deferred				
EU-13b		Of which: share-linked instruments or equivalent non-cash instruments		0.5	0.6	1.0
EU-14b		Of which: deferred		0.3	0.3	0.5
EU-14x		Of which: other instruments				
EU-14y		Of which: deferred				
15		Of which: other forms				
16		Of which: deferred				
17	Total remuneration (2 + 10)		0.3	2.6	4.6	6.1

Template EU REM2 - Special payments to staff whose professional activities have a material impact on institutions' risk profile (identified staff)

		a	b	c	d
		MB Supervisory function	MB Management function	Other senior management	Other identified staff
	Guaranteed variable remuneration awards				
1	Guaranteed variable remuneration awards - Number of identified staff				
2	Guaranteed variable remuneration awards -Total amount				
3	Of which guaranteed variable remuneration awards paid during the financial year, that are not taken into account in the bonus cap				
	Severance payments awarded in previous periods, that have been paid out during the financial year				
4	Severance payments awarded in previous periods, that have been paid out during the financial year - Number of identified staff				
5	Severance payments awarded in previous periods, that have been paid out during the financial year - Total amount				
	Severance payments awarded during the financial year				
6	Severance payments awarded during the financial year - Number of			4	1
7	Severance payments awarded during the financial year - Total amount			0.6	0.3
8	Of which paid during the financial year			0.6	0.3
9	Of which deferred				
10	Of which severance payments paid during the financial year, that are				
11	Of which highest payment that has been awarded to a single person			0.3	0.3

Template EU REM3 - Deferred remuneration

		a	b	c	d	e	f	EU - g	EU - h
	Deferred and retained remuneration	Total amount of deferred remuneration awarded for previous performance periods	Of which due to vest in the financial year	Of which vesting in subsequent financial years	Amount of performance adjustment made in the financial year to deferred remuneration that was due to vest in the financial year	Amount of performance adjustment made in the financial year to deferred remuneration that was due to vest in future performance years	Total amount of adjustment during the financial year due to ex post implicit adjustments (i.e.changes of value of deferred remuneration due to the changes of prices of instruments)	Total amount of deferred remuneration awarded before the financial year actually paid out in the financial year	Total of amount of deferred remuneration awarded for previous performance period that has vested but is subject to retention periods
1	MB Supervisory function	6							
2	Cash-based								
3	Shares or equivalent ownership interests								
4	Share-linked instruments or equivalent non-cash instruments								
5	Other instruments								
6	Other forms								
7	MB Management function	6							
8	Cash-based	0.2	0.0	0.2			-	0.0	0.0
9	Shares or equivalent ownership interests								
10	Share-linked instruments or equivalent non-cash instruments	0.5	0.2	0.3			(0.2)	0.2	0.0
11	Other instruments								
12	Other forms								
13	Other senior management	19							
14	Cash-based	0.4	0.1	0.3			0.0	0.1	0.0
15	Shares or equivalent ownership interests								
16	Share-linked instruments or equivalent non-cash instruments	1.0	0.5	0.5			(0.5)	0.4	0.0
17	Other instruments								
18	Other forms								
19	Other identified staff	22							
20	Cash-based	0.6	0.2	0.4			0.0	0.2	0.0
21	Shares or equivalent ownership interests								
22	Share-linked instruments or equivalent non-cash instruments	1.1	0.5	0.5			(0.6)	0.5	0.0
23	Other instruments								
24	Other forms								
25	Total amount	3.8	1.5	2.2			(1.4)	1.4	0.1

Template EU REM4 - Remuneration of 1 million EUR or more per year

	EUR	a Identified staff that are high earners as set out in Article 450(i) CRR
1	1 000 000 to below 1 500 000	
2	1 500 000 to below 2 000 000	
3	2 000 000 to below 2 500 000	
4	2 500 000 to below 3 000 000	
5	3 000 000 to below 3 500 000	
6	3 500 000 to below 4 000 000	
7	4 000 000 to below 4 500 000	
8	4 500 000 to below 5 000 000	
9	5 000 000 to below 6 000 000	
10	6 000 000 to below 7 000 000	
11	7 000 000 to below 8 000 000	
x	To be extended as appropriate, if further payment bands are needed.	

Template EU REM5 - Information on remuneration of staff whose professional activities have a material impact on institutions' risk profile (identified staff)

		a	b	c	d	e	f	g	h	i	j
		Management body remuneration			Business areas						
		MB Supervisory function	MB Management function	Total MB	Investment banking	Retail banking	Asset management	Corporate functions	Independent internal control functions	All other	Total
1	Total number of identified staff										53
2	Of which: members of the MB	6	6	12							
3	Of which: other senior management							3	3	10	
4	Of which: other identified staff							4	13	8	
5	Total remuneration of identified staff	0.3	2.6	2.8				1.0	3.2	6.5	
6	Of which: variable remuneration	0.0	1.1	1.1				0.2	0.7	2.9	
7	Of which: fixed remuneration	0.3	1.5	1.8				0.8	2.5	3.6	

10.3 The Role of the Board of Directors in the remunerations

The BoD appoints the members of the RemCo and approves its mandate. The BoD appoints a Chair from among the members of the RemCo.

Based on recommendations from the RemCo, the BoD approves:

- the design and operation of remuneration policies and practices across RBCIS Bank and its branches and subsidiaries.
- the criteria for the identification of Regulated Employees.
- the remuneration of senior executives, material risk takers, and other employees and Regulated Employees across RBCIS Bank including the CRO, the CCO and the CIA of RBCIS Bank.

- On an annual basis, the remuneration policy and practices for RBCIS Bank and its branches and subsidiaries.
- the Compensation Risk and Performance Adjustment process for Regulated Employees and any substantive changes.

For Fiscal year 2022, the total remuneration of the Management Body in its Supervisory function was EUR 0.26 mm for non-executive members. The executive members do not receive remuneration for their mandate as members of the Management Body in its Supervisory function .

10.4 Nomination Committee

The Nomination Committee established under the specific authority of the BoD into which it reports after each meeting. The purpose of the Nomination Committee is to assist the BoD in overseeing nominations to the BoD, Authorized Management and Key Function Holders. The Committee is a specialized sub-committee of the BoD, as defined by CSSF Circular 12/552.

Duties of the Nomination Committee will:

- monitor the composition of the BoD, Authorized and Key Function Holders for compliance with legal requirements and the Bank's policies.
- develop and maintain a matrix that specifies the existing experience and strengths of BoD members and Authorized Management, as well as the areas of expertise and experience that should be represented on the BoD and within Authorized Management. The Committee will monitor the current and future profile of the BoD and Authorized Management and determine the competencies, skills and personal qualities it should seek in new members.
- review annually the continuing eligibility of the directors, Authorized Management and Key Function Holders considering:
    - qualifications under the applicable laws and regulations;
    - compliance with eligibility rules under the conflict of interest requirements in respect to the law on commercial companies dated 10 August 1915 and amended from time to time and the CSSF Circular 12/552 point 25; and
    - the competences, skills, personal qualities and other characteristics of the individual.
- receive an annual report from Human Resources with respect to succession planning for Authorized Management and Key Function Holders.
- recommend suitable candidates to nominate for election or appointment as directors, members of Authorized Management and Key Function Holders, based on criteria established by the Committee. The Committee will focus on diversity, including gender diversity, when considering candidates and will ensure that the Bank complies with Article 435(2)(c) of the CRR 2.

10.5 Recruitment policy for the selection of the members of the management body

The assignment and nomination for Directors, Authorized Management and Key Function Holders of the Company Policy establishes the terms of reference for the appointment, succession and renewal of Key Function Holder mandates of the Company in accordance with the LFS, the CSSF circular 12/552 and the CRD V.

The Nomination Committee retains responsibility for the implementation of the relevant requirements related to this Policy within the Company's branches and subsidiaries, subject to local laws and regulations and taking into account the principle of proportionality and simple requirements for smaller institutions.

The Nomination Committee must identify, monitor, report and recommend candidates as Director, Authorized Manager or Key Function Holder of the Company.

Key tasks:

- Identify all Management Body roles and Key Functions Holders (annually).
- Identify and recommend to the BoD for appointment individuals that fall within the scope of this Policy and who comply with the requirements for fitness and propriety ("suitability") and for advising the BoD of the status of potential nominees.
- Acknowledge each suggestion and proposal in writing.
- Keep update on new nominees and resignations and oversee the administrative appointment process (i.e.: Pre-Membership screening, DA form, Shareholder resolution, Appointment confirmation letter) which is defined in the SGO Policy.
- Have primary responsibility for ensuring escalation of resignations and open positions to the appropriate approving bodies and regulator where applicable.
- Maintain a central matrix identifying areas of experience and expertise contributed by each nominee and determine the competences, experience and skills it should seek in new nominees.
- Review annually the qualifications and suitability of nominees for election taking their background, diversity (gender and geography), qualities, skills and experience into consideration.
- Assist the BoD of the Company in responding to shareholder proposals.
- Distinguish the different governing bodies and ensuring that assignments and nominations as well as resignations are correctly logged and classified through local internal and legal ruling and recommending processes (i.e.: LFS / CSSF Circular 12/552 / the Company's Articles of Association / RBC Corporate Governance Framework / SGO Policy / Appointment and Removal of Directors, ExCo Members and Chief Internal Auditor Process, February 2018).
- Ensure all nominations, assignments and resignations for the respective jurisdiction are acknowledged and reported.
- Monitor ongoing assignments to ensure fulfillment of responsibilities.
- Acknowledge the direction taken by the business as to effectively determine the persons with most adequate professional experience able to act with a high level of responsibility and autonomy.
- Define criteria under which the potential nominees may be assessed (i.e.: good repute, knowledge, skills, experience and time commitment) as required to fulfil their duties.
- Define criteria under which the "Management Body" may be assessed as required to fulfil collectively its duties.(i.e.: Structure, size, composition, performance, balance of knowledge, skills, diversity and experience).
- Notify the CSSF of all information which casts doubts on the qualification or professional standing of a nominated active member of the Key Function Holders.
- Ensure different mandates are and remain compatible with any other positions held as to avoid of conflicts of interest and time commitment issues.
- Oversee performance evaluations and professional training.
- Review regularly reports from Human Resources with respect to succession planning for Authorised Management and Key Function Holders.
- Coordinate with L&D to ensure adequate education and training for Directors.

10.6 Diversity

Diversity & Inclusion ("D&I") is one of RBC's core values and part of our business strategy. We know that understanding and drawing on the strength of diversity means fully engaging the talents of our people in order to create value, develop innovative solutions and deliver superior client service. RBC is committed to diversity and inclusion and discloses details of our D&I policies, programs and performance in our annual Environmental, Social & Governance ("ESG") Report and other disclosures vehicles. Please refer to:

2021 D&I Report (*https://www.rbc.com/diversity-inclusion/_assets-custom/includes/pdf/2021_Enterprise_DI_Report_English.pdf)*

2021 ESG Report:(*https://www.rbc.com/community-social-impact/_assets-custom/pdf/2021-ESG-Report.PDF)*

RBC's strong commitment to diversity and inclusion is evidenced through its culture, values, the Code of Conduct as well as its policies, practices and strategies. This commitment is further reinforced by RBC's Diversity & Inclusion Vision which is "to be among the most inclusive and successful companies, putting diversity into action to help employees, clients and communities thrive". Embedding these beliefs about diversity and inclusion through various means provides continuous reinforcement of a principle that is at the core of RBC's business.

RBC's values *(https://www.rbc.com/our-company/purpose-vision-and-values.html)* provide the foundation for what the enterprise stands for everywhere it does business. It guides day-to-day actions and decision making within the organization. One of RBC's five core values is "Diversity & Inclusion: We embrace diversity for innovation and growth".

The RBC Code of Conduct *(https://www.rbc.com/our-company/_assets-custom/pdf/Code-Of-Conduct.pdf)* governs all RBC employees irrespective of position or geographic location. The Code applies to Royal Bank of Canada and all its subsidiaries and affiliates. Under the pillar of "Integrity in Working Together at RBC", the Code deals with equal opportunity, fair workplace and human rights.

This Environmental, Social and Governance Performance Report 2021 *(https://www.rbc.com/community-social-impact/_assets-custom/pdf/2021-ESG-Report.PDF)* includes information about RBC and its subsidiaries. This Report provides an overview of priorities, key performance indicators and highlights from 2020 on ESG factors relevant to financial services companies in general, and to RBC in particular.

RBC receives Diversity & Inclusion awards from external observers, for example, for the sixth year (2017-2022), RBC has been named to the Bloomberg Gender-Equality Index (GEI), which distinguishes companies committed to transparency in gender reporting and advancing women's equality. This annual review measures gender equality across internal company statistics, employee policies, external community support and engagement and gender-conscious product offerings.

RBC is pleased to be ranked for the 4th consecutive year in in the Refinitiv Top 100 Diversity & Inclusion Index for 2022. The D&I Index ranks over 12,000 companies globally and identifies the top 100 publicly traded companies with the most diverse and inclusive workplaces, as measured by 24 separate metrics across 4 key pillars.

In 2020, RBC was the first Canadian bank to make public commitments to address systemic racism. Our commitments were designed to foster social and economic mobility for members of the Black, Indigenous and People of Colour (BIPOC) community through $100 million in small business loans over five years to Black entrepreneurs, $50 million over the next five years via RBC Future Launch® for skills development and mentoring programs for BIPOC youth, and increasing RBC's goal for BIPOC executives from 20% to 30%.

A balanced and diverse board is critical to successful board oversight. We firmly believe that the board should reflect the diversity of our clients, employees, shareholders and communities. We're proud of the leadership role we play in promoting board gender diversity in corporate Canada and the progress we have made toward achieving a diverse board that today has over 40% women. In Canada, RBC was an early signatory of the Catalyst Accord, a call to increase overall proportion of board seats held by women to 30% plus by 2022, and the 30% Club, a corporate consortium targeting at least 30% gender representation. In particular, the governance committee considers the level of representation of women, BIPOC and other diverse groups on the board in identifying and nominating candidates for election. The Board Diversity Policy also requires that men and women each comprise at least 35% to 45% of directors (up from 30%). We do not establish diversity objectives at the board level for BIPOC or other diverse groups due to the small size of the board and the need to carefully consider a broad range of criteria when appointing directors, including skills and residency regulatory requirements applicable to directors of Canadian financial institutions. 43% of RBC's Board director nominees are women, and 21% are BIPOC.

This diversity principle is expressly mentioned in the Policy on the Legal Governance of Subsidiaries. RBCIS believes that "A Subsidiary board derives its strength from the background, diversity, qualities, skills, competencies and experience of its members. Directors are selected in accordance with applicable laws, and rules, taking into consideration the skills, diversity, geographies and areas of expertise already regulations represented on the board." We continue to accelerate gender and non-gender diversity on our subsidiary boards aligned to enterprise diversity and inclusion strategies and to leverage the subsidiary board experience to build talent for growth across the organization.

Consistent with RBC's Values, including "embracing diversity for innovation", gender and non-gender diversity is considered when identifying candidates for nomination to Subsidiary boards. The interlocking directorship guideline and director tenure guideline are mechanisms to assist in driving increased diversity on Subsidiary boards by providing opportunities for ongoing board renewal. The Nomination Committee when identifying and nominating candidates for election or re-election considers the level of representation of women on the IS Bank Board in light of a target for the underrepresented gender of 20% of Board Members, excluding director-employee representatives.

During the fiscal year 2022, the proportion of women in the BoD of RBC IS Bank, remained stable at 30 % with 2 female Directors out of a total of 7 Directors (excluding 3 staff representatives elected by the employees).

At the level of the ExCo of RBC IS Bank, the proportion of women decreased remained stable at 15 % following the appointment and the resignation of the same female member in 2022. The succession planning of the ExCo of RBC IS Bank is regularly updated and presented to the Nomination Committee and to the BoD, considering the increase of gender diversity as one of the priorities. The profile of each potential successor is regularly provided to the Nomination Committee.

The assignment and nomination for Directors, Authorized Management and Key Function Holders Policy of RBCIS Bank., enhances the importance and shows willingness to have a gender balanced composition of the Management Body in its Supervisory and Management function.

The Luxembourg Citizenship and Diversity Committee of RBC IS Bank supports diversity and inclusion by creating opportunities to educate, inspire and empower employees and provide valuable gateways for professional development.

RBC IS Bank is also member of the IMS (« Inspiring More Sustainability ») Luxembourg non-profit organization and signatory of the Luxembourg Diversity Charter (https://chartediversite.lu/fr). The Diversity Charter Lëtzebuerg is a national commitment text proposed for signature to any organisation in Luxembourg wishing to commit to diversity promotion and management through concrete actions that go beyond legal obligations.

10.7 CRD V mandates limitation

As at 31 October 2022, the BoD consisted of the persons displayed in below table, which also discloses the number of directorships held by each member as required by article 435 (2) of CRR, if the case may be.

Name / Position	Number of external directorships
Frederic Mouchel	3
Philippe Renard	0
Francis Jackson	0
David Morgan	2
Julian Presber	3
Claude Villance	0
Blaise Nkaba	0
Gennaro Casale	0
Malena Ljungkvist	0
Donna Meyers	2

As at 31 October 2022, the ExCo consisted of the persons displayed in below table, which also discloses the number of directorships held by each member, as required by article 435 (2) of CRR, if the case may be.

Name / Position	Number of external directorships
Katty Conrard	0
Philippe Renard	0
Fernando Valenzuela	0
Alvaro Laorden	0
Dunja Schumacher	0
Patrick Diasolua	0
Christopher Bright	0

11 Annex 1: Pillar III Attestation Letter

Investor & Treasury Services

June 26, 2023

To whom it may concern

ATTESTATION

We hereby declare, on behalf of the authorized management of RBCIS Bank S.A. ("the Bank"), that the risk management arrangements and systems put in place within the Bank are adequate with regard to the Bank's profile and strategy.

Philippe Renard
Chief Executive Officer
RBC Investor Services Bank S.A.

Chris Bright
Chief Risk Officer
RBC Investor Services Bank S.A.