



MANAGEMENT'S DISCUSSION AND ANALYSIS

Management's Discussion and Analysis (MD&A) should be read in conjunction with our audited consolidated financial statements and related notes for the year ended December 31, 2022.

All amounts are expressed in Canadian dollars.

CAUTION REGARDING FORWARD-LOOKING STATEMENTS

This document contains projections and other forward-looking statements regarding future events. Such statements require us to make assumptions and are subject to inherent risks and uncertainties. These may cause actual results to differ materially from expectations expressed in the forward-looking statements.

The Financial Review section of this report includes the consolidated results of EDC and our wholly owned subsidiary, FinDev Canada. Information throughout the rest of the report pertains only to EDC, unless otherwise specified.

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ECONOMIC OVERVIEW

2022 had a strong start as countries reopened and recovery from COVID-19 continued. However, Russia's invasion of Ukraine impeded progress by deepening geopolitical risks and driving prices up for key global commodities, especially crude oil and natural gas. While a shift in consumer spending away from goods eased supply chain pressures, inflation posted multi-decade highs, driven primarily by food and energy prices. Central banks responded swiftly with synchronized interest rate action, raising rates to the highest levels in over a decade. As a result, core inflation declined in most regions, though quantitative tightening programs will keep equity and bond markets volatile. Household savings absorbed some of the price increases but declined as pressure continued. Labour markets in key developed countries remained tight and unemployment levels low. Overall, the global economy shifted into a lower gear, growing by 2.5% in 2022.

The United States economy is estimated to have grown 1.8% in 2022, supported by stable consumer spending demand with ample cash-on-hand to support growth in the short term. However, the U.S. faced weaker consumer and business confidence as recession fears grew. The Federal Reserve took strong policy action, raising its target interest rate by 425 basis points to end the year with a target range of 4.25% to 4.5%. The U.S. dollar appreciated significantly in 2022 against other currencies, supported by investors' shift to quality financial assets.

Europe's economy faced many challenges in 2022, with GDP growing 3.2%. The continent was significantly impacted by the Russia-Ukraine war, with energy security concerns coming to the forefront as the vital natural gas supply was severed with the closure of the Nord Stream 1 pipeline. Additionally, structural impacts from the war have deprived the continent of resources needed to power the industrial engines, including Germany's manufacturing sector. The European Central Bank (ECB) faced conflicting policy objectives but managed to combat inflationary pressures and steer the Eurozone away from a severe recession. The Chinese economy was not immune to the global slowdown, posting a three-decade low of 3.5% GDP growth. A combination of China's troubled property sector and zero-COVID policies dragged economic growth down. The government continues to provide support with lower interest rates and liquidity to certain sectors. For developing countries, a tighter global credit environment has resulted in higher debt servicing costs.

Canada's economy grew 3.4% in 2022, mainly due to elevated energy prices supporting the Canadian dollar and improving terms of trade. However, the Canadian dollar did depreciate and averaged 77 cents per USD. Merchandise exports grew by about 23% in nominal terms, but stable demand kept volumes up about 3%. The Bank of Canada was an early mover in the global tightening cycle, raising its policy rate by 400 basis points to 4.25%. Households have less excess savings room than in the U.S., but employment remains healthy. Canada's housing market slowed materially, in line with tighter financing conditions.



FINANCIAL RESULTS OVERVIEW

Our net income for the year was \$1.2 billion compared to \$2.3 billion in 2021.

for the year ended December 31 (in millions of Canadian dollars)	2022	2021
Net financing and investment income	1,127	1,211
Net insurance premiums and guarantee fees ⁽¹⁾	333	349
Realized gains ⁽²⁾	73	315
Net revenue	1,533	1,875
Administrative expenses	659	619
Provision for (reversal of) credit losses	69	(554)
Net claims-related recovery	(33)	(51)
Income before unrealized gains	838	1,861
Unrealized gains on financial instruments ⁽²⁾	(371)	(426)
Net income	\$ 1,209	\$ 2,287

⁽¹⁾ Includes loan guarantee fees.

⁽²⁾ Included in Other (Income) Expenses on the Consolidated Statement of Comprehensive Income.

Items of note were as follows:

Net financing and investment income was \$84 million lower than the prior year primarily due to rising interest rates and the associated impact on the funding required to repurchase share capital. In addition, a smaller average loan portfolio size and lower loan fee revenue primarily due to lower loan prepayments also contributed to the decrease.

Realized gains were \$242 million lower than the prior year primarily due to a decrease in realized gains within our investments portfolio and realized losses recognized within our marketable securities portfolio.

Provision for credit losses was \$69 million in 2022 compared to a reversal of provision for credit losses of \$554 million in 2021. The provision for credit losses in 2022 was primarily due to net downward credit migration largely due to the deterioration in the macroeconomic environment. This was partially offset by portfolio composition as the new loan disbursements required less provision than the provision release as a result of loan repayments and maturities including repayments in our impaired portfolio.

Unrealized gains on financial instruments were \$371 million in 2022, a decrease of \$55 million compared to the prior year, mainly due to the volatility associated with our financial instruments carried at fair value through profit or loss.

Administrative expenses increased \$40 million from the prior year as we continued to progress on our strategic transformation, where our primary focus is to help medium sized exporters scale and grow their international activities. In addition, we continued efforts on a digitally enabled operating model for micro and small exporters that include a focus on simplification and allowing small businesses to access our solutions from their own ecosystems. This will allow us to further extend our reach and effectiveness in understanding and meeting their needs to drive better trade outcomes for Canada. These objectives require significant investment in a number of areas including the enhancement of our digital capabilities, which resulted in higher professional services and human resource costs in 2022. Additional human resource costs of \$20 million incurred during the year also include the impact of inflation.

Impact of Foreign Exchange Translation on Financial Results

The Canadian dollar relative to the U.S. dollar weakened in 2022 resulting in a rate of \$0.74 at the end of the year compared to \$0.79 at the end of 2021. The impact of the weaker dollar was an increase in our assets and liabilities which are primarily denominated in U.S. dollars and are translated to Canadian dollars at rates prevailing at the Consolidated Statement of Financial Position date. Our business facilitated and the components of net income are translated into Canadian dollars at average exchange rates. The Canadian dollar averaged \$0.77 against the U.S. dollar in 2022 compared to \$0.80 for 2021.

FINANCIAL PERFORMANCE

Net Financing and Investment Income

Loan Revenue

Loan revenue was \$1.9 billion in 2022, an increase of \$469 million from 2021 primarily due to an increase in loan yields partially offset by a decrease in the average loan portfolio carrying balance and lower loan fee revenue.

The total loan yield was 4.00%, an increase of 105 basis points compared to the previous year primarily due to the rapid and significant rise in U.S. interest rates in response to high inflation.

The average loan portfolio size decreased in 2022 compared to 2021 resulting in a decrease in loan revenue of \$68 million. Although we ended the year with a higher loan receivable balance than the prior year, the average balance during the year declined compared to 2021 due to the timing of disbursements and repayments.

Loan fee revenue decreased by \$25 million to \$140 million in 2022. In 2021, the impact of the immediate recognition of deferred revenue as a result of loan prepayments was more significant.

Components of the change in loan revenue from 2021

<i>(in millions of Canadian dollars)</i>	2022
Increase in revenue from higher yield	547
Decrease in portfolio size	(68)
Foreign exchange impact	15
Increase in performing loan interest revenue	494
Decrease in loan fee revenue	(25)
Net change in loan revenue	\$ 469

For a breakdown of loan interest yield on our fixed and floating rate portfolios, refer to Table 1 in Supplemental Information.

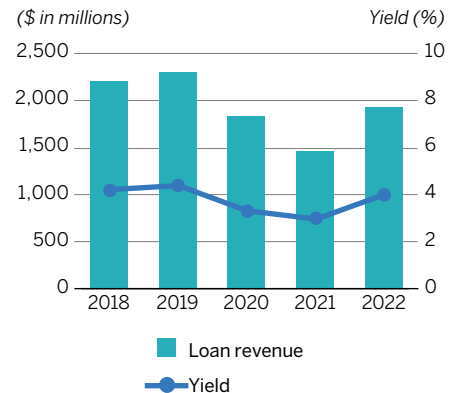
Marketable Securities Revenue

We maintain a marketable securities portfolio in order to meet our liquidity requirements.

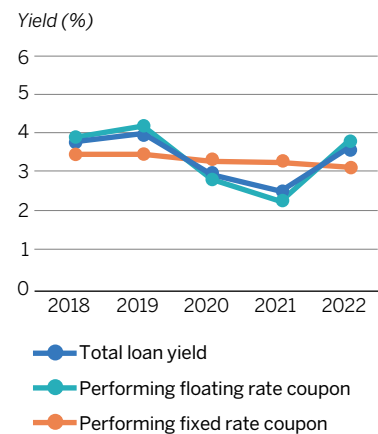
Our marketable securities revenue consists of income earned on short-term instruments, bonds and government securities held during the year.

Marketable securities revenue was \$175 million in 2022, an increase of \$93 million from the prior year largely due to an increase in yields. The portfolio is mainly sensitive to short-term U.S. Treasury rates. As these rates increased in 2022, the yield on our marketable securities portfolio increased from 0.80% in 2021 to 1.52% in 2022.

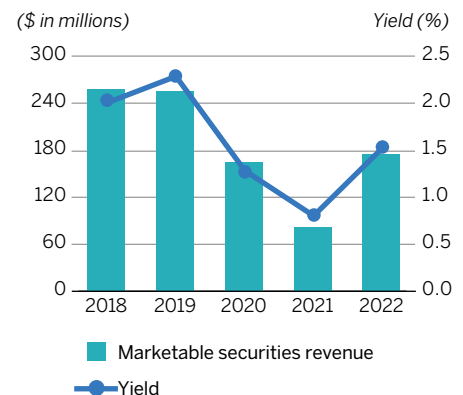
Loan Revenue



Total Performing Loan Yield



Marketable Securities Revenue





Components of the change in marketable securities revenue from 2021

<i>(in millions of Canadian dollars)</i>	2022
Increase in revenue from higher yield	74
Increase in portfolio size	12
Foreign exchange impact	7
Net change in marketable securities revenue	\$ 93

Interest Expense

Our interest expense includes the cost of our debt and related derivatives. Interest expense totalled \$973 million in 2022, an increase of \$649 million from 2021 mainly as a result of an increase in the cost of funds as well as a higher average debt portfolio size.

Our cost of funds increased from 0.73% to 2.05 % primarily due to an increase in average yields for the year as a result of interest rate increases globally in response to the current inflationary environment. Debt yields on our floating rate portfolio increased to 1.84% in 2022 from 0.40% in 2021.

The average balance of our debt and derivatives portfolio increased by \$3.4 billion in 2022 largely as a result of funding the repurchase of share capital.

Components of the change in interest expense from 2021

<i>(in millions of Canadian dollars)</i>	2022
Increase in expense from higher cost of funds	578
Increase in portfolio size	38
Foreign exchange impact	33
Net change in interest expense	\$ 649

Net Finance Margin

The net finance margin represents net financing and investment income expressed as a percentage of average income earning assets. Net financing and investment income consists of loan, marketable securities and investment revenues net of interest expense and financing related expenses.

The net finance margin for 2022 was 1.80%, a decrease of 15 basis points compared to the prior year primarily due to lower average loan portfolio and higher average debt portfolio balances. As previously noted, the average loan portfolio balance declined in 2022 which negatively impacted loan revenue. Lower loan volume is typically offset by lower debt volume, however the average debt portfolio grew in 2022 primarily to fund the repurchase of share capital. In addition, rising interest rates impacted our cost of funds more rapidly than our revenue due to timing impacts.

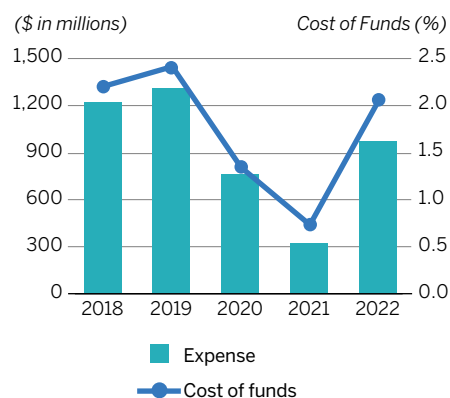
For a breakdown of net finance margin, refer to Table 2 in Supplemental Information.

Net Insurance Premiums and Guarantee Fees

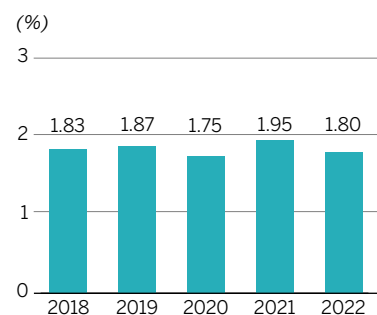
Net premium and guarantee fee revenue earned in our insurance portfolio totalled \$260 million in 2022, an increase of \$8 million compared to 2021. The increase primarily reflects increased activity and higher commodity prices under our credit insurance solution.

For the breakdown of insurance premiums and guarantee fees, refer to Table 3 in Supplemental Information.

Interest Expense



Net Finance Margin



Other (Income) Expenses

Other income in 2022 totalled \$444 million compared to \$741 million in 2021.

We use a variety of financial instruments, including derivatives, to manage our interest rate and foreign exchange risk. Our marketable securities, derivatives and the majority of our loans payable are held at fair value, whereas our loans receivable are held at amortized cost. As a result of the differing accounting treatment, fluctuations in market rates result in unrealized gains and/or losses on these three instruments carried at fair value, resulting in volatility in other (income) expenses. In 2022, we recorded net unrealized gains of \$751 million compared to \$45 million in 2021 related to these financial instruments primarily due to increases in global interest rates. Refer to [page 149](#) for further discussion on our derivatives.

<i>(in millions of Canadian dollars)</i>	2022	2021
Net realized (gains) losses		
Investments	(99)	(325)
Marketable securities	35	(27)
Sale of loan assets	13	37
Foreign exchange translation	(20)	2
Other	(2)	(2)
Total net realized (gains) losses	(73)	(315)
Net unrealized (gains) losses		
Marketable securities	396	177
Loans payable	(1,554)	(508)
Derivatives	407	286
Investments	380	(381)
Total net unrealized (gains) losses	(371)	(426)
Total	\$ (444)	\$ (741)

Within our equity investments portfolio, we recorded realized gains of \$99 million (2021 – \$325 million) and unrealized losses of \$380 million (2021 – unrealized gains of \$381 million). The realized gains recognized in 2022 were primarily related to investments within our fund portfolio that distributed gains from the sale or initial public offering of individual investments within their portfolios. Unrealized losses were mainly due to weaker market conditions that resulted in lower fair values in both our fund and direct portfolios.

Provision for (Reversal of) Credit Losses

We recorded a provision for credit losses of \$69 million related to our loan portfolio in 2022 primarily due to net downward credit migration resulting from the deterioration in the macroeconomic environment, as well as new impairments and additional allowance requirements on existing impaired obligors in the transportation and storage sector. These charges were partially offset by portfolio composition as the new loan disbursements required less provision than the provision release as a result of loan repayments and maturities including repayments in our impaired portfolio in the year. In 2021 we recorded a reversal of provision for credit losses primarily due to improving economic conditions as the economy emerged from the COVID-19 pandemic, net loan repayments and a change in the loss given default model for our aerospace portfolio.

<i>(in millions of Canadian dollars)</i>	2022	2021
Net repayments and maturities ⁽¹⁾	(496)	(494)
New originations ⁽¹⁾	328	292
Remeasurements ⁽²⁾	237	(245)
Updated loss given default models ⁽²⁾	–	(107)
Provision for (reversal of) credit losses	\$ 69	\$ (554)

⁽¹⁾ Represents provision requirement (release) as a result of repayments, performing loan sales, disbursements and new financing commitments.

⁽²⁾ Refer to Note 4 of the consolidated financial statements.



Activity by industry within the provision for (reversal of) credit losses during the year was as follows:

Provision for (reversal of) credit losses by industry

<i>(in millions of Canadian dollars)</i>	Performing	Impaired	2022 Total	Performing	Impaired	2021 Total
Information	29	(170)	(141)	(38)	(49)	(87)
Transportation and storage	45	95	140	(179)	53	(126)
Commercial properties	27	16	43	(77)	113	36
Finance and insurance	30	–	30	(21)	(26)	(47)
Wholesale and retail trade	17	11	28	(32)	3	(29)
Resources	(18)	(4)	(22)	12	(46)	(34)
Construction	17	5	22	(1)	2	1
Utilities	(43)	22	(21)	88	(7)	81
Manufacturing	14	1	15	(231)	(29)	(260)
Professional services	15	(5)	10	(35)	(9)	(44)
Other	23	6	29	(53)	10	(43)
Total Commercial	156	(23)	133	(567)	15	(552)
Sovereign	(64)	–	(64)	(2)	–	(2)
Total	\$ 92	\$ (23)	\$ 69	\$ (569)	\$ 15	\$ (554)

For a breakdown of the provision for (reversal of) credit losses, refer to Table 4 in Supplemental Information.

Net Claims-Related Expenses (Recovery)

We recorded net claims-related recoveries of \$33 million in 2022, compared to \$51 million in the prior year. The change in our net allowance for claims and change in reinsurers' share for 2022 is mainly due to the removal of the remaining COVID-19 adjustment as well as changes in portfolio composition. Claims paid in 2022 included \$73 million of claims paid to small- and medium-sized exporters (2021 – \$49 million).

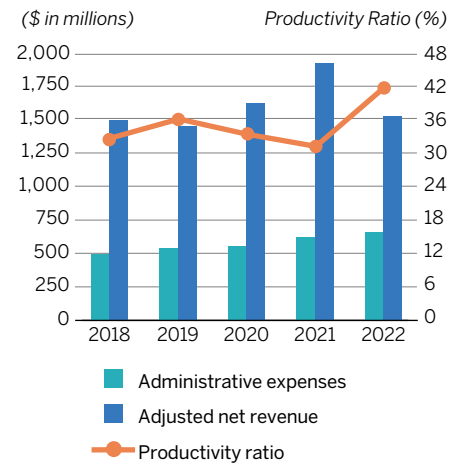
<i>(in millions of Canadian dollars)</i>	2022	2021
Claims paid	77	54
Claims recovered	(44)	(18)
Decrease in the net allowance for claims on insurance	(83)	(122)
Decrease in reinsurers' share	7	33
Decrease in recoverable insurance claims	5	1
Claims handling expenses	5	1
Total net claims-related expenses (recovery)	\$ (33)	\$ (51)

Administrative Expenses

Administrative expenses for 2022 totalled \$659 million, an increase of \$40 million from the prior year mainly as a result of increased spend on our strategic transformation as previously discussed.

The Productivity Ratio (PR) captures how well we use our resources and ultimately manage our costs. The 2022 PR increased from 31.4% in 2021 to 42.2% mainly due to a reduction in net revenue and an increase in spend in 2022. The 2022 PR was lower than the Corporate Plan PR of 43.4% mainly due to reduced spending in marketing and communications, systems costs and occupancy.

Administrative Expenses



FINANCIAL CONDITION

Statement of Financial Position Summary

Total assets were \$67.8 billion at the end of 2022, an increase of \$7.2 billion from 2021 mainly due to an increase in loans receivable, which increased by \$5.8 billion from 2021, mainly due to net loan disbursements of \$4.3 billion and foreign exchange translation of \$1.8 billion.

Loans payable increased by \$7.0 billion from the prior year primarily due to the debt required to fund the repurchases of \$3.8 billion of share capital during the year, the increase in our loans receivable balance, as our debt requirements are largely driven by our loan portfolio, and foreign exchange translation.

The repurchases of share capital also resulted in a reduction in equity when compared to 2021. Please refer to [page 141](#) for a more comprehensive discussion on our capital management.

as at December 31 (in millions of Canadian dollars)	2022	2021
Cash and marketable securities	9,814	9,289
Derivative instruments	1,654	1,139
Loans receivable	54,182	48,345
Allowance for losses on loans	(1,630)	(1,760)
Investments	2,771	2,707
Other	1,047	895
Total Assets	\$ 67,838	\$ 60,615
Loans payable	50,568	43,525
Derivative instruments	3,712	1,003
Premium and claims liabilities	640	670
Other liabilities	712	777
Equity	12,206	14,640
Total Liabilities and Equity	\$ 67,838	\$ 60,615

Net derivative instruments liabilities of \$2.1 billion (2021 – net derivative instruments asset of \$136 million) increased from the prior year mainly due to net maturities and derivatives settling in the year, foreign exchange translation, and unrealized losses.



Corporate Plan Discussion

(2023 discussion based on Corporate Plan submitted in 2022; numbers may vary from final approved Corporate Plan)

The following section discusses our 2022 results and financial position in comparison to Corporate Plan projections. We begin by looking back to our 2022 Corporate Plan and compare actual results to what was expected. Then we look forward to 2023 and provide an explanation of where we anticipate changes from our 2022 results and financial position.

Financial Performance

for the year ended December 31 (in millions of Canadian dollars)	2023 Corporate Plan	2022 Actual Results	2022 Corporate Plan
Net financing and investment income	1,084	1,127	1,168
Net insurance premiums and guarantee fees*	352	333	351
Other (income) expenses	(26)	(444)	(23)
Administrative expenses	684	659	682
Provision for (reversal of) credit losses	167	69	(166)
Net claims-related expenses (recovery)	70	(33)	175
Net income	541	1,209	851
Other comprehensive income	4	167	33
Comprehensive income	\$ 545	\$ 1,376	\$ 884

* Includes loan guarantee fees.

2022 Corporate Plan

Net income for 2022 was \$1.2 billion compared to the 2022 Corporate Plan net income of \$851 million. Items of note are as follows:

- **Other income** was \$421 million higher than the Corporate Plan primarily due to realized and unrealized gains on our financial instruments carried at fair value through profit or loss. Due to the difficulty in estimating this volatility, a forecast for unrealized gains and losses is not included in the Corporate Plan.
- **Provision for credit losses** was \$69 million compared to the reversal of \$166 million in the Corporate Plan. The Corporate Plan had anticipated a global recovery post-pandemic leading to a reversal of provisions, however, due to the deterioration in the macroeconomic environment, a charge was recorded.
- We recorded a **net claims-related recovery** of \$33 million compared to net claims-related expenses of \$175 million in the Corporate Plan mainly due to a reduction in net claims paid.
- **Net financing and investment income** was \$41 million lower than the Corporate Plan primarily due to the impact of rising interest rates and the associated impact on the funding for the repurchase of share capital.
- **Administrative expenses** were \$23 million lower than the Corporate Plan mainly due to reduced spending in marketing and communications, systems costs, salaries and benefits, and occupancy.

2023 Corporate Plan

Net income for 2023 is planned to be \$541 million, a decline of \$668 million compared to 2022. Items of note are as follows:

- **Other income** is expected to be \$26 million in 2023 compared to \$444 million in 2022 mainly due to unrealized gains on our financial instruments in 2022 as previously discussed. Due to the difficulty in estimating this volatility, a forecast for unrealized gains and losses is not included in the Corporate Plan.
- **Net claims-related expenses** are expected to increase by \$103 million primarily due to an increase in expected net claims paid.
- We are projecting a **provision for credit losses** of \$167 million in 2023 primarily due to the growth that was anticipated in the loan portfolio at the time the Corporate Plan was prepared.
- **Net financing and investment income** is expected to be \$43 million lower in 2023 mainly due to the impact of rising interest rates and the associated impact on the funding for the repurchase of share capital.

Financial Position

as at December 31 (in millions of Canadian dollars)	2023 Corporate Plan	2022 Actual Results	2022 Corporate Plan
Cash and marketable securities	8,316	9,814	7,703
Derivative instruments	1,835	1,654	1,855
Loans receivable	53,727	54,182	48,484
Allowance for losses on loans	(1,572)	(1,630)	(1,458)
Investments	2,938	2,771	2,522
Other assets	1,010	1,047	867
Total Assets	\$ 66,254	\$ 67,838	\$ 59,973
Loans payable	49,260	50,568	45,106
Derivative instruments	4,050	3,712	894
Premium and claims liabilities	518	640	542
Other liabilities	675	712	765
Equity	11,751	12,206	12,666
Total Liabilities and Equity	\$ 66,254	\$ 67,838	\$ 59,973

2022 Corporate Plan

Loans receivable for 2022 were \$5.7 billion higher than projected in the Corporate Plan mainly due to higher net loan disbursements than anticipated and foreign exchange translation.

Loans payable were \$5.5 billion higher than the Corporate Plan mainly due to an increase in loans receivable, as our debt requirements are largely driven by our loan portfolio, the debt required to fund the repurchases of share capital, and foreign exchange translation.

2023 Corporate Plan

The 2023 Corporate Plan is projecting a decrease in cash and marketable securities and a decrease in loans payable from 2022 levels. The 2023 Corporate Plan is projecting a decrease in our debt requirements in line with reductions in our marketable securities and loans receivable portfolio balances. As mentioned above, our debt requirements are largely driven by our loans receivable portfolio.



Portfolio Exposures and Credit Quality

CONCENTRATION OF EXPOSURE

Our total exposure at the end of 2022 was \$120 billion, an increase of \$12 billion from 2021 primarily due to net loan disbursements of \$4.3 billion, a \$2.0 billion increase in credit insurance in force, and a \$1.7 billion increase in international trade guarantee insurance in force. The exposure within Canada (28%) and the United States (24%) remained consistent with 2021.

Exposure by Portfolio

as at December 31 (in millions of Canadian dollars)	2022	2021
Financing portfolio:		
Financing assets ⁽¹⁾	56,964	51,144
Commitments and guarantees ⁽²⁾	19,052	18,008
Total financing portfolio	76,016	69,152
Insurance portfolio:		
Credit insurance	16,261	14,213
Financial institutions insurance	2,865	2,366
International trade guarantee	13,412	11,738
Political risk insurance	359	479
Reinsurance ceded ⁽³⁾	(232)	(217)
Total insurance portfolio	32,665	28,579
Marketable securities and derivative instruments ⁽⁴⁾	11,468	10,428
Total exposure	\$ 120,149	\$ 108,159

⁽¹⁾ Includes gross loans receivable and investments.

⁽²⁾ Includes \$1.0 billion of investment commitments (2021 – \$884 million).

⁽³⁾ Represents treaty reinsurance agreements covering most bonding obligors and the short-term export credit insurance portfolio, including most foreign bank exposures.

⁽⁴⁾ Includes cash.

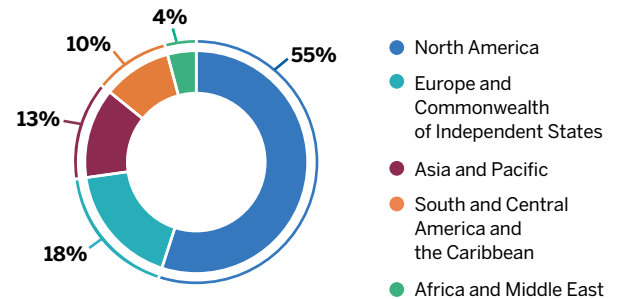
For a detailed breakdown of the major concentrations of total exposure by geographical market and industry, refer to Tables 5 and 6 in Supplemental Information.

FINANCING PORTFOLIO

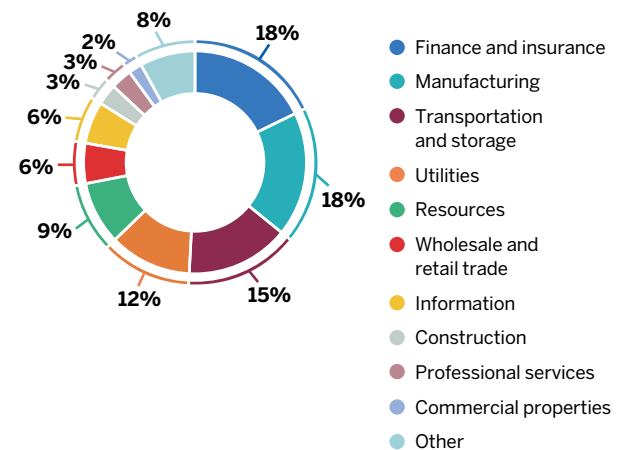
LOANS PORTFOLIO

We support Canadian exports and Canadian investments abroad by providing financing solutions to Canadian exporters and their foreign customers, to Canadian investors and to financial institutions. Not only do we provide solutions for exporters with existing contracts, we also proactively identify potential procurement needs for large foreign buyers as well as large foreign projects, match those needs to Canadian expertise and provide financing in order to develop opportunities for procurement from Canadian companies. Our financing products enable Canadian companies to provide their customers with flexible financing. To mitigate credit risk within our loan portfolio, we enter into risk transfer transactions such as unfunded loan participations and loan default insurance.

Exposure by Geographic Market



Exposure by Industry



Gross Loans Receivable

Gross loans receivable totalled \$54.2 billion at the end of 2022, an increase of \$5.8 billion or 12% from 2021. The increase was mainly due to net disbursements of \$4.3 billion and foreign exchange translation.

In assessing the credit risk profile of our loan portfolio, we rate our obligors using a system of credit ratings as established in our credit risk-rating methodology. These ratings are reviewed on a regular basis. Based on their ratings, we then categorize our loans receivable into three risk classifications: investment grade, non-investment grade and impaired.

Individually Impaired Gross Loans Receivable

Impaired loans represent loans for which we no longer have reasonable assurance that the full amount of principal and interest will be collected on a timely basis in accordance with the terms of the loan agreement. At the end of 2022, impaired gross loans receivable totalled \$1.7 billion, a decrease of \$358 million from 2021. During the year principal was recovered through repayments (\$460 million). These recoveries were partially offset by new impairments of \$253 million from three obligors in the transportation and storage industry (\$192 million), two obligors in the manufacturing industry (\$52 million) and one obligor in the wholesale and retail trade industry (\$9 million). Overall, impaired loans as a percentage of total gross loans receivable decreased to 3.09% in 2022 from 4.20% in 2021.

Note 4 in the Consolidated Financial Statements provides additional information on the activity in our impaired loans portfolio during the year.

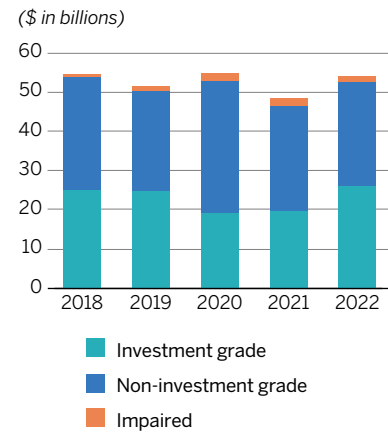
Table 7 in Supplemental Information provides industry concentration on impaired gross loans receivable.

Commercial Loans, Loan Commitments and Loan Guarantees

(in millions of Canadian dollars)	Gross loans receivable	Commitments	Loan guarantees	Risk transfer	2022 Exposure		2021 Exposure	
					\$	%	\$	%
Industry								
Transportation and storage	14,847	2,140	191	(342)	16,836	24	16,911	26
Manufacturing	6,877	3,482	1,496	–	11,855	16	10,764	17
Utilities	9,298	1,963	44	–	11,305	16	8,448	13
Resources	6,506	2,090	309	(525)	8,380	12	8,782	14
Finance and insurance	3,557	1,447	38	874	5,916	8	5,169	8
Information	4,838	691	206	–	5,735	8	4,174	6
Wholesale and retail trade	1,903	807	717	–	3,427	5	2,720	4
Commercial properties	2,347	242	83	(7)	2,665	4	3,205	5
Professional services	1,593	160	309	–	2,062	3	1,638	3
Construction	622	193	255	–	1,070	2	1,006	2
Other	856	376	757	–	1,989	2	1,609	2
Total	\$ 53,244	\$ 13,591	\$ 4,405	\$ –	\$ 71,240	100	\$ 64,426	100

In order to manage our concentration risk, we enter into unfunded loan participation and loan default insurance agreements with financial institutions, thereby transferring exposure from other industries to the financial institutions industry.

Gross Loans Receivable





In 2022, our non-investment grade exposure decreased to 53% (2021 – 61%) of total exposure. The largest concentrations of non-investment grade exposures are within the transportation and storage (24%), manufacturing (22%) and utilities industries (14%).

Our five most significant counterparty exposures representing \$6.9 billion, or 10% of the total commercial exposure at the end of 2022 were as follows:

- two resources industry obligors with total exposure of \$3.2 billion, located in Chile.
- two transportation and storage industry obligors with total exposure of \$2.3 billion, one located in the United Kingdom and one in Canada; and
- one information industry obligor with total exposure of \$1.4 billion, located in the United States.

After consideration of unfunded loan participations and loan default insurance, our exposure to these counterparties is \$5.3 billion.

Sovereign Loans, Loan Commitments and Loan Guarantees

<i>(in millions of Canadian dollars)</i> Country	Gross loans receivable	Commitments	Loan guarantees	2022 Exposure		2021 Exposure	
				\$	%	\$	%
Angola	439	–	–	439	46	458	40
Egypt	286	–	–	286	30	325	29
Pakistan	38	–	–	38	4	48	4
Cuba	36	–	–	36	4	35	3
Indonesia	29	–	–	29	3	51	5
China	28	–	–	28	3	35	3
Serbia	24	–	–	24	2	37	3
Côte d'Ivoire	21	–	–	21	2	24	2
Argentina	19	–	–	19	2	20	2
Other	29	–	13	42	4	102	9
Total	\$ 949	\$ –	\$ 13	\$ 962	100	\$ 1,135	100

Sovereign exposure includes 96% non-investment grade exposure (2021 – 92%).

Allowance for Credit Losses

The total allowance for losses on loans, loan commitments and loan guarantees was \$1.8 billion at the end of 2022, a decrease of \$70 million from 2021.

The key components impacting the allowance in 2022 were as follows:

- net repayments and maturities – reduction of \$496 million;
- loan write-offs – reduction of \$144 million;
- modifications resulting in derecognition – decrease of \$68 million; partially offset by
- new originations – increase of \$328 million;
- remeasurement, partially as a result of deterioration in the macroeconomic environment – increase of \$237 million; and
- the weakening of the Canadian dollar relative to the U.S. dollar – increase of \$73 million.

INVESTMENTS

EDC plays a role in supporting the export growth of Canadian companies by helping them to access capital and financing in order to reach global market opportunities. Our solution suite covers a broad range of solutions with a portfolio of debt, late-stage venture capital and private equity investments focused on promising Canadian exporters. Investments are normally held for periods greater than five years and divestitures are generally made through the sale of our investment interests through private sales to third parties or sales on public markets.

In response to the market uptake of our expiring Investment Matching Program, originally introduced to address COVID-19 pandemic-related liquidity gaps, we expanded to a permanent Investment Matching Program solution in January 2022. Under this program, EDC matches institutional private sector venture capital investments of up to \$5 million under the same terms as the private sector investors for companies with an internationally scalable business model and high-growth potential. In 2022, we invested \$144 million in equity capital in 51 companies, of which \$80 million of capital went to cleantech businesses or those led by people identifying as being from equity-seeking groups including women, Indigenous Peoples, Black and other racialized communities, persons with disabilities and the 2SLGBTQ+ community. Since inception, we have invested \$349 million in 112 companies through the Investment Matching Program.

Overall, our equity investments exposure increased by \$223 million to \$3.8 billion in 2022 largely as a result of new private equity investments and foreign exchange gains partly offset by unrealized losses and return of capital. During the year, we signed an additional \$770 million of new private equity investments (2021 – \$483 million) which included \$144 million (2021 – \$96 million) invested in the Investment Matching Program, as discussed above.

<i>(in millions of Canadian dollars)</i>	2022	2021
Investments	2,771	2,707
Undisbursed commitments	1,043	884
Total investments exposure	\$ 3,814	\$ 3,591

INSURANCE PORTFOLIO

Credit insurance facilitates export growth by mitigating risk, providing companies with the confidence to do business abroad knowing that their receivables will be paid should their buyer default on payment. It also enhances their cash flow as banks are generally comfortable providing additional support when their customers' foreign receivables are insured.

Financial institutions insurance supports Canadian exporters for bank and foreign buyer counterparty risk in trade transactions.

Our international trade guarantee products are delivered through partnerships with banks and surety companies. Our performance security and surety bond products are used by exporters primarily to guarantee their contract performance, which helps free up working capital. Our partnerships with banks and surety companies help them mitigate their risks and make it easier for exporters to obtain the coverage they need. We provide contract frustration insurance coverage to protect against commercial and political risks resulting from buyer non-payment associated with a specific contract.

Political risk insurance provides coverage for political events that could adversely impact a company's foreign operations and/or its financial intermediaries by protecting investments and assets in other countries, typically in emerging markets. We stopped issuing new policies within this program in 2020.

The assistance that EDC provides to our policyholders within our four primary insurance solutions is counted in various ways. Under credit insurance and financial institutions insurance, the policyholder declares their sales volume to entities covered by their policy. These declarations are counted as business facilitated. Within our international trade guarantee solution, a facility is established and the policyholder makes requests for cover to initiate specific coverage. These requests represent business facilitated by EDC. As transactions are signed within political risk insurance, they are also counted as business facilitated.

In addition to directly underwriting insurance policies, we assume exposure from other insurers to fulfill our mandate to support Canadian exporters. We also cede reinsurance to other insurance companies to mitigate our risk. The ceding arrangements provide greater diversification of the business and minimize the net loss potential arising from large exposures.



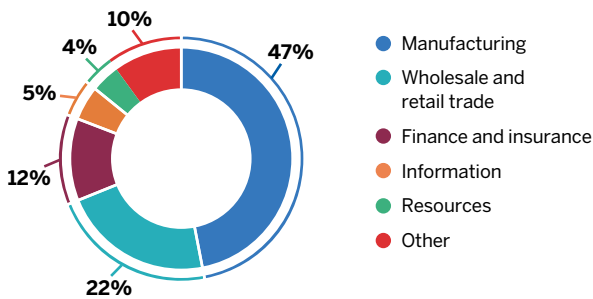
Insurance in Force

Our liability associated with outstanding insurance policies and guarantees is referred to as insurance in force and exposure throughout this annual report.

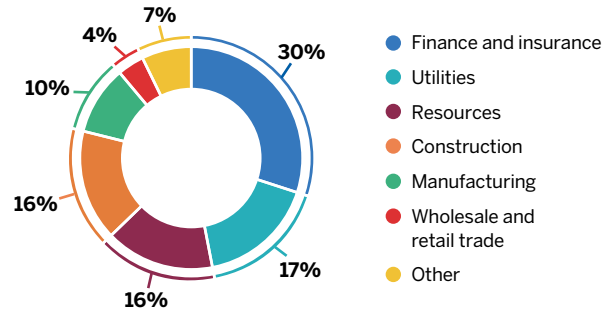
Insurance in force totalled \$32.7 billion at the end of 2022 (2021 – \$28.6 billion).

The following charts show the exposure by industry of our credit insurance and international trade guarantee solutions:

Credit Insurance Exposure by Industry

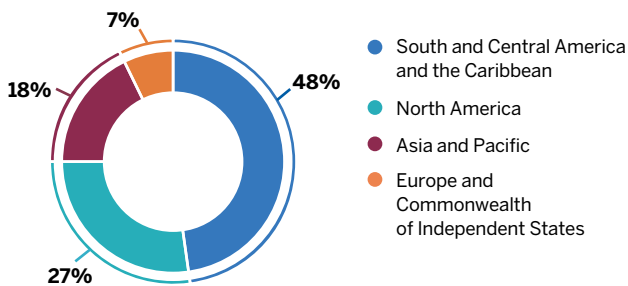


International Trade Guarantee Exposure by Industry

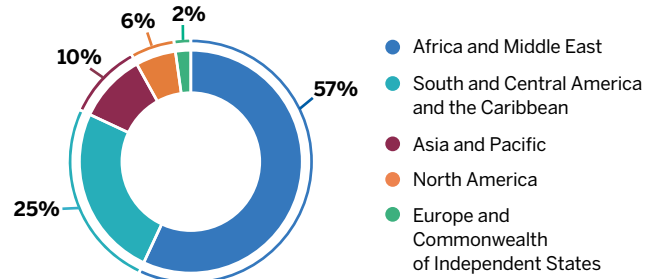


The following charts show the exposure by geographic market for our financial institutions and political risk insurance solutions:

Financial Institutions Insurance Exposure by Geographic Market



Political Risk Insurance Exposure by Geographic Market

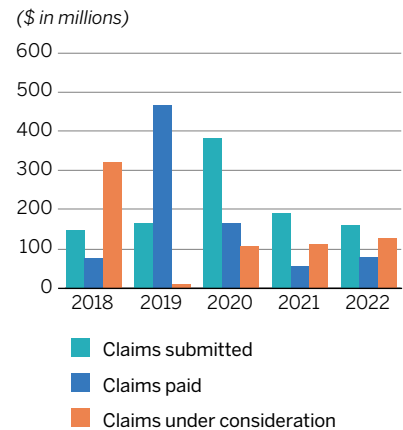


Claims

The following table provides a breakdown of claims paid by exporter's insured industry:

(in millions of Canadian dollars)	2022		2021	
	\$	%	\$	%
Manufacturing	30	39	21	39
Professional services	14	18	2	4
Wholesale and retail trade	12	15	16	29
Finance and insurance	7	9	8	15
Resources	3	4	2	4
Utilities	3	4	–	–
Construction	2	3	2	4
Transportation and storage	2	3	–	–
Information	1	1	3	5
Other	3	4	–	–
Claims paid	77	100	54	100
Claims recovered	(44)		(18)	
Net claims paid	\$ 33		\$ 36	

Claims Submitted, Paid and Under Consideration



Claim payments totalled \$77 million in 2022 and were comprised of 507 claims related to losses in 50 countries (2021 – 544 claims in 60 countries). In 2022, the largest concentration of claim payments was in our credit insurance product group relating to risks in North America.

In 2022, we recovered \$51 million in total (2021 – \$19 million) of which \$7 million was disbursed to exporters (2021 – \$1 million).

For a breakdown of claims by size concentration, refer to Table 9 in Supplemental Information.

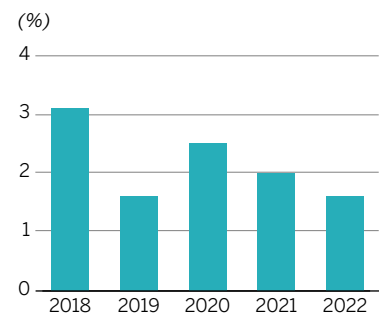
Premium and Claims Liabilities

Premium and claims liabilities represent our estimate of future claims under the terms and conditions of our insurance policies.

At the end of 2022, the premium and claims liabilities were \$640 million. The liability net of the reinsurers' share was \$530 million, a decrease of \$30 million from 2021, primarily due to the removal of the remaining COVID-19 adjustment and changes to portfolio composition.

The reinsurers' share of our premium and claims liabilities is recorded as an asset on the Consolidated Statement of Financial Position and is also included in our premium and claims liabilities. The reinsurers' share of premium and claims liabilities was \$110 million (2021 – \$110 million). If we were required to pay a claim on reinsured policies, we could recover from the reinsurer depending on the terms of the agreement.

Premium and Claims Liabilities as a % of Insurance in Force (net of reinsurance)





As permitted by International Financial Reporting Standard 7 – Financial Instruments: Disclosures, we have displayed certain parts of our Management's Discussion and Analysis which discuss the nature, extent and management of credit, liquidity and market risks in green font. These disclosures form an integral part of our audited consolidated financial statements for the year ended December 31, 2022.

MARKETABLE SECURITIES AND DERIVATIVE INSTRUMENTS

Our policies and procedures, which are reviewed periodically, are designed to limit and manage credit risk associated with marketable securities and derivative instruments. These policies and procedures define the minimum acceptable counterparty rating in alignment with the Minister of Finance Financial Risk Management Guidelines for Crown Corporations. In addition, we have policies which are reviewed periodically and procedures that establish credit limits for each counterparty, which are reviewed by management no less than annually. These policies and procedures are designed to limit and manage the credit risk associated with these financial instruments.

Our interest-bearing deposits and marketable securities portfolio expose us to the risk that the deposit-taking institutions or counterparties will not repay us in accordance with contractual terms. Our potential deposit and marketable securities credit exposure is represented by the carrying value of the financial instruments.

The following table provides a breakdown, by credit rating and term to maturity, of our deposits and marketable securities credit exposure:

(in millions of Canadian dollars)

Credit rating	Remaining term to maturity			2022 Exposure	2021 Exposure
	Under 1 year	1 to 3 years	Over 3 years		
AAA	2,478	1,684	2,479	6,641	7,490
AA+	13	7	24	44	50
AA	1	–	–	1	–
AA-	1,465	6	–	1,471	823
A+	1,088	44	–	1,132	662
A	157	–	–	157	49
A-	340	19	–	359	209
BBB	9	–	–	9	–
BBB-	–	–	–	–	6
Total	\$ 5,551	\$ 1,760	\$ 2,503	\$ 9,814	\$ 9,289

Derivatives expose us to the risk that the counterparty will not repay us in accordance with contractual terms. Our potential derivative credit exposure is represented by the replacement cost of contracts that have a positive fair value. For a more in-depth discussion on the use of derivative instruments, refer to the section on derivative instruments (see [page 149](#)).

All swaps are transacted with high credit quality financial institutions. We operate a collateral program to mitigate credit exposure related to swaps used to hedge risk within our funding program. As market rates move between the settlement date and maturity date of the swap, the financial instrument attains value such that to terminate the swap early, one counterparty would need to make a payment to the other to compensate for the movement in rates. In order to mitigate the credit risk, we enter into collateral agreements with financial institutions with whom we undertake swap transactions. Under the terms of the swap agreements, when the credit exposure surpasses an agreed upon threshold, collateral in the form of government securities is posted with an independent third party by our swap counterparty. At the end of 2022, no collateral (2021 – \$94 million) was posted by our counterparties to mitigate credit risk associated with swap agreements.

The following table provides a breakdown, by credit rating and term to maturity, of our derivative credit exposure and how it is offset against exposure netting amounts and collateral held. Exposure netting amounts represent derivative contracts where there is an agreement with the counterparty (netting agreement) that allows us to offset the counterparty's derivative credit exposure to us against our credit exposure to that same counterparty. After applying both exposure netting and collateral held, our net exposure is \$25 million (2021 – \$224 million). The net exposure decreased from the prior year primarily due to foreign exchange rate movement on long-term currency swaps, as well as unrealized losses on interest rate swaps.

(in millions of Canadian dollars)

Credit rating	Remaining term to maturity			Gross exposure	Exposure netting*	2022 Net exposure	2021 Net exposure
	Under 1 year	1 to 3 years	Over 3 years				
AA-	142	182	834	1,158	(1,155)	3	136
A+	27	46	270	343	(323)	20	31
A	29	20	93	142	(140)	2	57
A-	–	2	9	11	(11)	–	–
Total	\$ 198	\$ 250	\$ 1,206	\$ 1,654	\$ (1,629)	\$ 25	\$ 224

* As a result of netting agreements.

Credit risk for marketable securities and derivative instruments is reported on a quarterly basis to the Asset Liability Management Committee and to the Risk Management Committee of the Board.

Capital Management

Our capital management framework ensures that we are appropriately capitalized and that our capital position is identified, measured, managed and regularly reported to the Board. Our capital is first and foremost available to support Canadian exporters and investors for the benefit of Canada. Being appropriately capitalized has allowed us to fulfill our mandate and sustain continued risk capacity for Canadian exporters and investors.

We have a capital management framework in place which follows the Internal Capital Adequacy Assessment Process (ICAAP). Under ICAAP, EDC targets a level of capitalization sufficient to cover potential losses consistent with a rating standard of AA. This solvency standard aligns with that of leading financial institutions and with the key principles of financial self-sufficiency.

We assess capital adequacy by comparing the supply of capital to the demand for capital. Demand for capital, which is calculated by models or approaches that estimate the capital required to cover the potential losses consistent with an AA solvency level, includes credit, market, operational, pension plan and business/strategic risk. The supply of capital is determined by our financial statements and consists of paid-in share capital and retained earnings.

Capital Adequacy

as at December 31

(in millions of Canadian dollars)

	2022	2021
Demand for capital		
Credit risk	4,528	4,634
Market risk	1,010	1,543
Operation risk	249	244
Strategic risk	515	552
Pension plan risk	591	594
Strategic initiatives	1,050	300
Total demand for capital	\$ 7,943	\$ 7,867
Supply of capital	\$ 12,206	\$ 14,640
EDC implied solvency rating	AAA	AAA



We measure and report changes to capital supply, capital demand and its implied solvency rating to Executive Management monthly. These capital measures are reported regularly to the Board together with forward looking stress tests which model the potential impact on capital of severe but plausible risk events.

We strive to ensure that our risk and capital management policies are aligned with industry standards and are appropriately sophisticated relative to our risk profile and business operations.

In 2021, we paid a dividend of \$580 million according to our current dividend policy, as well as a special dividend of \$6.7 billion based on the capital position of the Business Credit Availability Program (BCAP) and a targeted Internal Capital Adequacy Assessment Process (ICAAP) ratio. As agreed to with our shareholder in 2022, dividends and/or special dividends will be paid by way of a share buyback until such time that our share capital returns to pre-pandemic levels. In 2022, we repurchased shares for a total of \$3.81 billion based on the capital position of our core programs, BCAP and a targeted ICAAP ratio.

Capital Adequacy – BCAP Support (included in above)

as at December 31

(in millions of Canadian dollars)

	2022	2021
Demand for capital		
Oil and gas	628	907
Other	10	5
Total demand for capital	\$ 638	\$ 912
Supply of capital	\$ 1,162	\$ 3,141
Capital surplus	\$ 524	\$ 2,229

Investor Relations

Treasury issues debt securities and manages EDC's liquidity while mitigating operational, financial and reputational risks.

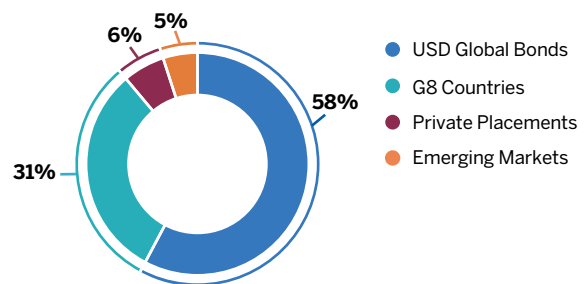
Funding

In 2022, we borrowed USD 10.34 billion in the global capital markets by issuing fixed income securities in public and private markets denominated in nine currencies.

After a two-year absence, we returned to the public markets with several successful benchmark transactions. We issued a five-year USD 2.75 billion Global benchmark bond and a three-year USD 3.25 billion Global benchmark bond in 2022. These two transactions represented the largest US dollar denominated transactions in our history. As well, we issued a five-year Euro 2.5 billion benchmark bond which is a newer strategic component of our funding program and our largest Euro denominated bond. We also returned to the Great British Pounds market with a five-year GBP 300 million fixed rate bond. The benchmark transactions were very well received, provided excellent diversification of funding and expanded our investor base.

We remained active with emerging market currency issuance and private placements tailored to meet investors' specific needs.

Fiscal 2022
Total Funding USD 10.34 billion



Off Balance Sheet Arrangements

In the normal course of business, we engage in a variety of transactions with structured entities (SEs). SEs are generally created for a single purpose, have a limited lifespan and are used for risk management, legal or taxation reasons to hold specific assets for their benefactors. These transactions are generally undertaken for risk, capital and funding management purposes that benefit our customers. In accordance with IFRS, those SEs where we are not exposed or do not have rights to variable returns from our involvement with the SE and do not have decision-making power to affect the returns of the SE, have not been consolidated on our Consolidated Statement of Financial Position.

We may also use SEs to hold assets that have been foreclosed upon and cannot be held directly for legal or taxation reasons, typically for foreclosed assets in foreign countries. Refer to Note 24 for further details.

Financial Instruments

Given the nature of our business, our assets and liabilities are substantially composed of financial instruments. Financial instrument assets include cash resources, securities, investments, loans receivable and recoverable insurance claims, while financial instrument liabilities include accounts payable, loans payable and loan guarantees.

In accordance with IFRS, the majority of our financial instruments are recognized in the Consolidated Statement of Financial Position at their fair value. These financial instruments include marketable securities, investments, derivative instruments, loans payable designated at fair value through profit or loss and recoverable insurance claims. Note 2 of the consolidated financial statements outlines the accounting treatment for our financial instruments, while Note 21 provides details of how their fair values are determined.

Derivative Instruments

We may also use a variety of derivative instruments to manage interest rate risk, foreign exchange risk and credit risk. Derivative instruments used include interest rate swaps, cross currency interest rate swaps, foreign exchange swaps and foreign exchange forwards.

We do not use derivatives for speculative purposes. These derivatives are only contracted in accordance with policies established in the Global Risk Management Group (GRM Group) and approved by our Board of Directors. Both our internal policies and guidelines and those set by the Minister of Finance limit our use of derivatives. Derivative counterparty credit risk is managed by contracting only with creditworthy counterparties, and in certain cases entering into collateral agreements with those counterparties. For further discussion on our risk management framework, refer to the Risk Management discussion on the following pages.

Risk Management Overview

As Canada's export credit agency, EDC is in the business of taking risk. It is through the assumption of risk that we deliver on our mandate and generate value. Our global business activities expose us to a wide variety of risks – financial, operational and strategic – across a diverse economic and political landscape. As we seize new business opportunities, we must be vigilant in our efforts to identify and anticipate risks and manage them in a prudent manner. By doing so, we will safeguard our ability to achieve our business objectives and remain sustainable and relevant in the years to come.

We have established a foundational Enterprise Risk Management (ERM) practice and are leveraging our investments in our risk management activities. We have matured our risk management activities to ensure comprehensive, enterprise-wide risk management. Our intended outcomes incorporate guidance provided by the Office of the Superintendent of Financial Institutions, the Office of the Auditor General and industry leaders.

At EDC, ERM is not about taking more or less risk but developing a governance system that enables us to manage the risks we do choose to take. This effort involves, among other things, elevating risk awareness, understanding and foresight throughout the organization. By better managing risk, we can serve more exporters and investors and in so doing, play a more significant role in Canada's trade ecosystem.

Our ERM emphasizes a risk culture of oversight and clear direction, ownership and accountability, and the requirement for monitoring and reporting. Key elements include: governance in accordance with a three-lines-of-defence model (3LD), a sound approach to risk governance; articulation and operationalization of our risk appetite; enhanced discipline around risk management processes; and integration of new financial and operational risk policies.

Our Board of Directors and management team are actively engaged to ensure that a risk management program is effectively implemented at all levels of the corporation.



Risk Governance, Oversight and Design

Our evolving risk governance structure balances strong central oversight and control of risk with clear accountability for and ownership of risk within the front lines. The 3LD risk governance model ensures a balance between three distinct organizational functions, or “lines of defence”:

- 1st Line of Defence: Employees on the front line who take, own and manage risk on a day-to-day basis.
- 2nd Line of Defence: The risk and compliance functions that provide independent oversight of the first-line's risk management activities by ensuring that the organization's governance structure is appropriate, the right checks and balances are in place, and the proper tools are available.
- 3rd Line of Defence: The internal audit function, which provides independent assurance on the effectiveness of risk management policies, processes and practices to senior management and the Board.

This structure supports the cascade of EDC's Risk Appetite throughout the organization and provides forums for risks to be appropriately considered, discussed, debated and factored into business decisions at all levels and across all functions.

BOARD AND ITS KEY RISK COMMITTEES

Board of Directors

The Board of Directors is ultimately responsible for Risk Governance by setting the cultural tone, approving EDC's Risk Appetite Statement and ERM Framework, and maintaining oversight as to the efficacy of the ERM program. In addition, it has responsibility to ensure that our incentive, reward and performance management and evaluation systems are aligned and in place, with due emphasis on risk, compliance and controls. The Board operates formal committees to oversee and provide guidance and direction. This committee structure helps to ensure that risks are adequately considered, discussed, debated and factored into business decisions.

Risk Management Committee of the Board

This committee assists the Board in fulfilling its oversight responsibilities with respect to the prudent management of our capital structure, including the management of the credit, market and other enterprise risks of EDC.

Audit Committee of the Board

The Audit Committee assists the Board in fulfilling its oversight responsibilities with respect to our standards of integrity and behaviour, financial reporting and internal control systems.

MANAGEMENT AND ITS KEY RISK COMMITTEES

Executive Management Team

The Executive Management team, led by the President and CEO and including the executives reporting directly to the President and CEO and those reporting to the Chief Business Officer, is ultimately accountable for managing enterprise risk within the Board-approved Risk Appetite, approving policies and procedures and overseeing execution of risk management activities. The Executive Management team has primary responsibility for the management of EDC's risks, standards of integrity and behaviour, financial reporting and internal control systems.

The Executive Management team participates in various senior management committees. Six of these are described below.

Management Risk Management Committee

This committee has responsibility to make risk decisions, provide guidance on risk issues, undertake risk governance and to ensure that appropriate capital and risk management policies are in place.

Asset Liability Management Committee

The Asset Liability Management Committee acts as authority for recommending market risk policies to the Board for approval and ensuring that policies are supported by appropriate procedures and practices for the measurement, management and reporting of market risk. In addition, the committee provides endorsement as to the acceptability of our asset/liability management strategy, ensures that market risk positions are managed within policy limits, and addresses such risk practices as diversification requirements and reporting and monitoring of compliance with guidelines.

Investment Committee

The Investment Committee reviews and endorses the acceptability of transactions to be made under our investments program, and recommends transactions to the appropriate level of authority. It also makes recommendations regarding the program's strategy to the Executive Management team and the Board of Directors and monitors program-level performance.

Executive Committee

The Executive Committee provides a forum to achieve Executive alignment on non-transactional topics of a strategic nature. Topics brought forward will likely be precedent setting and may involve innovative ideas around EDC's business direction.

Management Pension Committee

This committee oversees operations and performs high-level decision-making functions with respect to the pension plans and the related pension funds including recommendations to the Human Resources Committee of the Board.

Initiatives Oversight Committee

The Initiatives Oversight Committee (IOC) ensures EDC's transformation priorities and benefits realized are aligned with our Corporate Plan and strategy. IOC reviews, provides input to, challenges, and approves the transformation roadmap including investments and discretionary spending for the portfolio of initiatives. It also monitors and provides oversight on overall transformation progress and performance.

As we mature our risk management practices, the structure of our risk committees will evolve and be revised accordingly.

KEY RISK MANAGEMENT GROUPS

Global Risk Management Group

The Global Risk Management Group (GRM Group) provides independent oversight of and effective challenge to the management of risks inherent in our activities, including the establishment of our Enterprise Risk Management policies and framework to manage risk in alignment with our risk appetite and business strategies. The GRM Group is responsible for identifying, measuring, monitoring, assessing, and reporting on risk factors facing EDC, and ensuring that risk considerations are taken into account and align with our risk tolerance in all areas and processes at EDC. The GRM Group is headed by the SVP, Global Risk Management and Chief Risk Officer, who works closely with the President and Chief Executive Officer, the Chief Business Officer, the Board of Directors and other members of Senior Management to set the 'tone at the top' and establish a risk aware culture across EDC.

Finance

Responsible for financial planning, accounting, financial reporting and cash management, Finance ensures that appropriate controls exist for effective cash management and delivery of complete and accurate financial reporting.

Internal Audit

As the third line of defence, Internal Audit (IA) is responsible to provide independent and objective assurance and advisory services designed to add value and help us achieve our business objectives pertaining to operations, reporting, and compliance with laws and regulations. IA does this by bringing a systematic and disciplined approach to evaluating and improving internal controls, risk management, and governance processes. Although IA's mandate includes the provision of advisory services to management, these services will be ancillary to the assurance services it provides to the Audit Committee of the Board of Directors. Our Chief Internal Auditor reports to the Chair of the Audit Committee of the Board of Directors and has a dotted line reporting relationship with our President and CEO.

IA governs itself by adhering to The Institute of Internal Auditors' (IIA) mandatory guidance, including the Core Principles for the Professional Practice of Internal Auditing, the Definition of Internal Auditing, the IIA Code of Ethics and the International Standards for the Professional Practice of Internal Auditing. This guidance constitutes principles of the fundamental requirements for the professional practice of internal auditing and for evaluating the effectiveness of internal audit's performance.



Front Line Units

Front Line Units includes business units and other functions within the first line of defence who take, own and manage risk on a day-to-day basis. These functions are responsible for identifying, assessing, mitigating, assuming, controlling and reporting on risk in accordance with established enterprise risk appetite, policies, culture and strategic goals.

Risk Taxonomy

Our Enterprise Risk Management taxonomy breaks risk down into three broad areas, expressing our risk appetite and tolerance in terms of financial risk, operational risk, and strategic risk. As a financial institution, financial risk is naturally front and centre and, as a result, the majority of this report covers this area.

FINANCIAL RISK MANAGEMENT

Portfolio Risk Profile

While EDC follows leading risk management practices, we generally assume more risk than a typical financial institution due to our mandate. We take on larger single counterparty exposures and larger concentration exposures by industry than other financial institutions, most notably in the finance and insurance and manufacturing industries which lead Canadian exports.

Our non-investment grade exposure corresponds to 54% of EDC's loan portfolio however attracts 85% of capital demand.

Credit Risk Management

Credit risk is the risk of loss incurred if a counterparty fails to meet its financial commitments. We are exposed to credit risk in the delivery of our financial products and services (including insurance) as well as our treasury activities.

We manage credit risk in the organization through policy requirements, established authorities and limits, mitigation activities and reporting. Our credit risk policies set out our requirements on credit granting, concentration, counterparty and country limits, risk rating, exposure measurement, monitoring and review, portfolio management and risk transfer, as well as management and Board reporting.

Credit Granting

We deliver our financing and insurance products and services through business teams by segment. The business teams are responsible for the proper due diligence associated with each credit commitment. Every credit commitment requires recommendation and approval. Credit commitments in excess of certain thresholds require independent authorization by the Global Risk Management Group or the Board of Directors. The credit rating of a transaction and/or the dollar amount of exposure at risk determines whether approval is required by the GRM Group or the Board of Directors.

Our approval responsibilities are governed by delegated authorities. The Board delegates specific transactional approval authorities to the President and CEO. Onward delegation of authority by the President and CEO to business units is controlled to ensure decision-making authorities are restricted to those individuals with the necessary experience levels. The criteria whereby these authorities may be further delegated throughout the organization, as well as the requirements relating to documentation, communication and monitoring of delegated authorities, are set out in corporate policies and standards.

We bear additional counterparty risk through our treasury liquidity and derivative portfolios. Treasury counterparties must be recommended by the Market and Liquidity Risk team and approved by the Risk Management Office team within the GRM Group. The recommender and approver must both have the appropriate delegated authority. All treasury credit exposures are measured on a fair value basis and compliance with policy and operational limits is measured daily. In addition, we have policies and procedures in place to limit and to manage the credit risk associated with these financial instruments and to define collateral requirements for treasury counterparties.

We also bear counterparty risk through our insurance portfolio under a reinsurance structure, where we are exposed to the credit risk of the reinsurer. To help mitigate this risk, our placement of reinsurance is diversified such that it is not dependent on a single reinsurer. Reinsurance counterparty exposure is managed under our reinsurance counterparty management procedures and monitored by the GRM Group.

Concentration Limits

To ensure diversification of risks within our credit commitments, we have established risk limits in place to protect against being overly concentrated to any one country, industry or commercial obligor. Our capital base is factored into the determination of limits as well as risk factors associated with the exposure including the obligor rating, country rating, associated collateral and EDC product type. Exposures beyond the risk limits require either President and CEO approval within discretionary limits or review by the Risk Management Committee of the Board and approval of the Board.

Risk Ratings

Consistent with the Basel II Advanced Internal Rating-Based approach, credit risk is measured by assigning two distinct ratings. The first one is a risk rating to an obligor that is tied to a probability of default (PD). The PD describes the likelihood of a default of an obligor over a one-year period. The second one is a rating to a transaction in the form of a loss given default (LGD) estimate. The LGD estimates the percentage of dollar exposure which EDC reasonably expects to lose should a default occur on a specific transaction.

EDC's internal credit risk rating system measures obligor and transaction risks for the majority of our risk exposure. This risk rating system utilizes a 20 point rating scale to differentiate the PD of obligors and a 7 point rating scale to differentiate the LGD of transactions. While our obligor rating is arrived at independently of external ratings for the obligor, our risk-rating methodology includes a review of those external ratings.

Our Economics team is responsible for establishing, monitoring and approving country risk ratings. Country risk ratings are continually reviewed to take into consideration any changes in the world environment or a specific country.

For treasury related counterparties, EDC's internal credit rating is assigned as the lower of the highest two external ratings.

Exposure Measurement

To ensure that the level of credit risk is transparent to both management and the Board, our credit exposure measurement guideline requires information reporting and comparison of the aggregated exposures within a portfolio against prescribed limits such as country, industry and obligor. We also report on approved short-term buyer limits under our accounts receivable insurance program.

Monitoring and Review

Our operating practices include ongoing monitoring of credit exposures. Teams are in place to monitor and manage credit exposure within the different product lines which include monitoring of events in the country and industry of the obligor. The business teams are responsible for managing the credit quality and financial performance of our portfolio of commercial loans and guarantees both at the transaction and portfolio levels. This includes undertaking loan reviews, assessing risk ratings and regularly monitoring borrowers and the credit risk environment including research and assessment of financial, operating and industry trends. Our portfolio of credit insurance counterparties is actively monitored by our Risk Assessment and Portfolio Management team. In addition, deteriorating credits are managed by teams that specialize in restructurings, Paris Club reschedulings, claims and recoveries. Management and the Board are frequently apprised on the credit quality of the portfolio through regular reporting including detailed quarterly reporting on the breakdown of the portfolio by risk ratings, impaired obligors, loan write-offs and claims information.



Portfolio Management

The goal of portfolio management is to ensure our ability to pursue mandate related opportunities while taking into consideration the availability of financial resources and limit constraints. Management and the Board are regularly updated on our portfolio of credit exposures through quarterly compliance reporting against concentration limits. We use both primary and secondary portfolio management activities to address imbalances or excess concentrations including, but not limited to, syndication at credit origination, the sale of assets, insurance, reinsurance and hedging using credit derivatives.

We continue to make use of loan insurance for risk mitigation purposes targeting large exposures in our loan portfolio. To address credit concentration in our insurance portfolios we engage in various risk transfer activities.

Management and Board Reporting

The GRM Group provides timely and comprehensive risk reporting to management and the Board on major risks being assumed by or facing EDC, enabling appropriate management and oversight. This reporting includes, but is not limited to: a quarterly risk management report; a monthly credit risk policy compliance report; a monthly capital adequacy report; and a monthly report detailing our market risk, liquidity and funding, and counterparty credit risk policies. Ad-hoc risk reporting is provided to senior management and the Board as warranted for new or emerging risk issues or significant changes in our level of risk. Significant credit risk issues and action plans are tracked and reported to ensure management accountability and attention are maintained.

Market Risk Management

Market risk is the risk that the fair value or future cash flows of a financial instrument will fluctuate due to changes in market prices. Market risk comprises three types of risk: foreign exchange risk; interest rate risk; and other price risk. We are exposed to potential losses as a result of movements in interest and foreign exchange rates.

Through our policies and guidelines, we ensure that market risks are identified, measured, managed and regularly reported to management and the Board. Our market risk policies set out our requirements on interest rate and foreign exchange exposure limits, liquidity, investment, debt funding, management of the credit risk for treasury counterparties and management and Board reporting. The Asset Liability Management Committee, which is chaired by the Chief Financial Officer (alternate Chair is the Chief Risk Officer), oversees and directs the management of market risks inherent within our normal business activities. Risk oversight is provided by the Market and Liquidity Risk team in the GRM Group.

Interest Rate Risk

Interest rate risk is the risk that the fair value or future cash flows of a financial instrument will fluctuate due to changes in market interest rates. We are exposed to potential adverse impacts on the value of financial instruments resulting from differences in the maturities or repricing dates of assets and liabilities both on and off-balance sheet, as well as from embedded optionality in those assets and liabilities.

Our interest rate risk is managed in accordance with guidelines established by the Department of Finance as well as policies set by the Board. We report interest rate risk monthly to the Asset Liability Management Committee and quarterly to the Risk Management Committee of the Board.

Management of interest rate risk is enabled through monthly risk position monitoring against limits and reporting. Interest rate risk is measured by simulating the impact of a 100 basis point change in both our net financing and investment income and our economic value. Economic value is defined as the net present value of all future cash flows for assets and liabilities of EDC (discounted at current market swap rates for each currency).

Our policy sets limits based on the impact of an instantaneous 100 basis point change in interest rates. The limit on the sensitivity of net financing and investment income (NFII) to an instantaneous 100 basis point change in interest rates is that, for the next 12-month period, NFII should not decline by more than 7.5%, (\pm \$84 million and \$87 million as at year-end 2022 and 2021, respectively) on a consolidated Canadian dollar equivalent basis. The economic value limit is that for an instantaneous 100 basis point change in interest rates, EDC's economic value should not decline by more than 10% (\pm \$1,290 million and \$1,653 million as at year-end 2022 and 2021, respectively) of our current net present value.

EDC's economic value is sensitive to interest rates; however, we hedge our interest rate risk mismatches in multiple currencies.

The table below presents the sensitivity of the net financing and investment income, net income, and economic value of EDC to a parallel 100 basis point change in interest rates given the outstanding positions as at December 31:

(in millions of Canadian dollars)	2022		2021	
	+100 Basis Points	-100 Basis Points	+100 Basis Points	-100 Basis Points
Change in net financing and investment income	(35)	35	(54)	54
Change in net income	295	(334)	109	(139)
Change in economic value of EDC*	(406)	421	(641)	672

* Economic value is the measure of EDC's market value, as measured by the present value of assets minus the present value of liabilities.

Foreign Exchange Risk

Foreign exchange risk is the potential adverse impact on the value of financial instruments resulting from exchange rate movements. We are exposed to foreign exchange rate risk when there is a mismatch between assets and liabilities in any currency.

Our foreign exchange risk is managed in accordance with guidelines established by the Department of Finance as well as policies approved by the Board. We report our foreign exchange risk monthly to the Asset Liability Management Committee and quarterly to the Risk Management Committee of the Board.

In addition to the guidelines and policies described above, we also have supplemental operational limits and reporting requirements. Management of foreign exchange risk is enabled through monthly risk position monitoring against limits and reporting.

As per our policy, the potential translation loss impact to one month's net financing and investment income (NFII) as measured by a two standard deviation change in foreign exchange rates is limited to 2.5% of projected 12 month NFII, on a consolidated Canadian dollar equivalent basis.

As the table below indicates, we were outside our policy as at December 31:

(in millions of Canadian dollars)	2022	2021
Limit	28	29
Position	21	22

The table below presents the sensitivity of net income to changes in the value of the Canadian dollar versus the other currencies to which we were exposed given the outstanding positions as at December 31:

(in millions of Canadian dollars)	2022		2021	
	Increases by 1%	Decreases by 1%	Increases by 1%	Decreases by 1%
Change in net income	(5)	5	(5)	5

Derivative Instruments

We use a variety of derivative instruments to manage costs, returns and levels of financial risk associated with funding, investment and risk management activities. The principal purpose for which we use derivative instruments is to hedge against foreign exchange and interest rate risk. Our use of derivative instruments may include, but is not restricted to, currency and interest rate swaps, foreign exchange swaps, forwards and options. We do not use derivative instruments for speculative purposes.

We do not engage in the use of derivative instruments whose value and financial risks cannot be measured, monitored and managed on a timely basis. The Market and Liquidity Risk team formally reviews our derivative instrument transactions at time of inception, and on an ongoing basis to provide an independent verification on the valuation of transaction structures and of associated financial risks.



Derivative instruments are used to hedge risks by matching various exposures. For example, we may balance the proportion of fixed to floating assets in our portfolio using interest rate swaps in order to mitigate interest rate risk.

The following table indicates the fair value of our derivative instruments based upon maturity:

as at December 31 (in millions of Canadian dollars)	Positive	Negative	2022 Net	Positive	Negative	2021 Net
Less than 1 year	198	(1,040)	(842)	419	(248)	171
1 – 3 years	250	(1,092)	(842)	464	(224)	240
3 – 5 years	198	(1,290)	(1,092)	179	(145)	34
Over 5 years	1,008	(290)	718	77	(386)	(309)
Gross fair value of contracts	\$ 1,654	\$ (3,712)	\$ (2,058)	\$ 1,139	\$ (1,003)	\$ 136

Liquidity Risk Management

Liquidity risk is the risk that we would be unable to honour daily cash outflow commitments or the risk that we would have to obtain funds rapidly, possibly at an excessively high premium during severe market conditions. Liquidity risk arises from two sources: mismatched cash flows related to assets and liabilities and liquidity risk due to the inability to sell marketable securities in a timely and cost effective manner.

Our Treasury department is responsible for our liquidity management and the Market and Liquidity Risk team is responsible for monitoring compliance with our policies and procedures. Pursuant to our risk management policies, we must maintain sufficient liquidity to meet a prescribed minimum level, based on forecasted cash requirements.

Within the overall policy framework, we manage our liquidity risk both within the overall policy limits and also within supplemental limits. The Market and Liquidity Risk team measures our position daily and provides a monthly report to senior management on our actual liquidity position against this minimum limit, as well as a quarterly report to the Risk Management Committee of the Board.

We maintain liquidity through a variety of methods:

- **Cash and Marketable Securities:** We hold cash and marketable securities to ensure that sufficient liquidity is available if required to meet forecasted cash requirements. During 2022, the average balance of cash and marketable securities was \$11,747 million (2021 – \$10,498 million).
- **Access to Commercial Paper Markets:** In the course of our normal activities, our commercial paper programs provide us with the necessary liquidity to meet our cash requirements on a daily basis. During 2022, the average balance of commercial paper was \$9,755 million (2021 – \$4,409 million).

Investment Risk

The Investment Policy defines the marketable securities investments that we may undertake in the market place by instrument type. The investment of corporate cash holdings is governed by Section 10(1.1)(h) of the *Export Development Act* (the “Act”), Section 128 of the *Financial Administration Act*, and EDC’s Investment Authorities approved by the Minister of Finance.

Debt Funding

The Act places limitations on our borrowings. It allows us to borrow and have outstanding borrowings up to a maximum of 15 times the aggregate of (a) our current paid-in capital and (b) our retained earnings determined in accordance with the previous year’s audited financial statements.

The Minister of Finance, pursuant to the requirements of the *Financial Administration Act*, annually approves the borrowings of EDC. The Treasury Policy is monitored on a monthly basis and reported to management and the Board on a quarterly basis.

OPERATIONAL RISK MANAGEMENT

Operational risk is the risk of loss or harm resulting from inadequate or failed internal processes, people and systems, or from external events. Exposure to operational risk could affect our ability to meet objectives and execute on our Corporate Plan by way of lost opportunity, business interruption and/or damage to our reputation.

We divide operational risk into four categories:

- Legal and Compliance
- Information Management and Technology
- People
- Process

The EDC Operational Risk Management Framework (ORMF) expresses our principles for managing operational risk in a coordinated manner and in compliance with the applicable regulations wherever it conducts business. It is part of the enterprise-wide policies and procedures that collectively express the governance and control structure for achieving EDC's strategy. The ORMF is the embodiment of the Board and Executive Management's recognition of operational risk as a distinct risk management discipline, requiring dedicated attention, resources and an enterprise approach to achieve the purpose described below.

The principles governing EDC Operational Risk Management include the following:

- Ensure relevant and effective Operational Risk Management by focusing on things that matter to EDC;
- Enable and advise the Lines of Business on how to operate within EDC's Risk Appetite; and
- Implement standards, guidelines, and systems adapted to EDC.

We have identified a list of key operational risks inherent to our business, including data integrity, information security, and system availability and support. We have assessed and continue to assess our exposure to these risks. On an annual basis, Executive Management identify, assess and monitor top risks, which considers these key operational risks. On a quarterly basis, Executive Management and risk owners review the status of risk mitigation response plans, reassess the risk levels, and report the risk profile to the Board.

We also maintain a practical and disciplined approach to acquiring appropriate insurance coverage. Further, we deploy certain governance frameworks and conventions such as our Business Continuity Plan.

Finally, Internal Audit's independent review provides additional assurance that operational risks are appropriately managed.

STRATEGIC RISK MANAGEMENT

We define strategic risk as the risk of loss or harm arising from pursuit of an inappropriate strategy, poor execution of strategy and/or failure to respond well to changes in the external environment.

We divide strategic risk into two categories:

- External environment: systematically identifying and assessing external risks and opportunities.
- Planning: formulating, communicating, executing and evaluating corporate direction and objectives.

EDC is diligent in attuning itself to the external environment through the work of specialized groups. As well, the annual customer survey that drives our net promoter score and our proactive business development practice afford us critical insights into customer needs. The insight gained from these surveillance activities is incorporated into our strategic and operational planning exercises.



CRITICAL ACCOUNTING POLICIES AND ESTIMATES

A summary of our significant accounting policies can be found in Note 2 of our 2022 consolidated financial statements. Judgment is required in the selection of accounting policies and their application requires the use of estimates and assumptions to arrive at the reported carrying values of our assets and liabilities. We have established procedures to ensure that accounting policies are applied consistently and that the process for making changes to methodologies and assumptions is well controlled and occurs in an appropriate and systematic manner. Areas where significant estimates are used include the allowance for credit losses, premium and claims liabilities, retirement benefit obligations, and the fair value of financial instruments. Management exercises judgment in the allowance for credit losses, premium and claims liabilities, the fair value of financial instruments, assets held for sale, structured entities and retirement benefit obligations. For details on our use of estimates and key judgments refer to [page 173](#) of this annual report.

Change in Accounting Standards

Interest Rate Benchmark Reform – Phase 2

In August 2020, the IASB issued amendments to *IFRS 9 – Financial Instruments*, *IAS 39 – Financial Instruments: Recognition and Measurement*, *IFRS 7 – Financial Instruments: Disclosures*, *IFRS 4 – Insurance Contracts* and *IFRS 16 – Leases* to address the reforms related to the interest rate benchmark.

The amendments include changing the effective interest rate of financial instruments to reflect the change to the alternative benchmark rate, as well as additional disclosures about new risks arising from the reform and how we are managing the transition to alternative benchmark rates. For financial assets and financial liabilities measured at amortized cost, the amendments introduce a practical expedient that allows the change in contractual cash flows to be accounted for as an update to the effective interest rate, as opposed to immediately recognizing a gain or loss, provided that the modification is made on an economically equivalent basis and is a direct consequence of interest rate benchmark reform.

Certain loans receivable measured at amortized cost have been transitioned to a new interest rate benchmark as disclosed in Note 4.

Further details are provided in Note 2 of the consolidated financial statements.

IFRS 17 – Insurance Contracts

In May 2017, the IASB issued IFRS 17 which replaces the guidance in IFRS 4 and establishes recognition, measurement, presentation, and disclosure requirements of insurance contracts. The standard requires entities to measure the contract liabilities using their current fulfillment cash flows and revenue to be recognized using one or more of three methods. We are planning to adopt two of these methods – the General Measurement Model and the Premium Allocation Approach to measure insurance contracts. IFRS 17 is effective for annual periods beginning on or after January 1, 2023. Based on our current estimates, we expect the adoption of IFRS 17 to result in an increase to retained earnings of approximately \$160 million.

Further details are provided in Note 2 of the consolidated financial statements.

Non-IFRS Performance Measures

We use a number of financial measures to assess our performance. Some of these measures are not calculated in accordance with IFRS, and do not have standardized meanings under IFRS that would ensure consistency and comparability between companies using these measures. The following non-IFRS performance measures are referenced in this report:

Productivity Ratio (PR)

Management uses PR as a measure of EDC's efficiency. This ratio represents administrative expenses expressed as a percentage of net revenue excluding unrealized gains and losses as well as the impact due to fluctuations in the exchange rate from the rate projected in the Corporate Plan. As pension costs can fluctuate from year to year based on assumptions used to value the pension liability, the productivity ratio is calculated based on the pension assumptions in the Corporate Plan, with the intent of absorbing any changes in the following year.

Capital Adequacy

Capital adequacy is a measurement of the amount of capital required to cover the credit, market, operational, pension and business/strategic risks we have undertaken compared to the existing capital base. See the Capital Management section on [page 141](#) for details on the definition and calculation of capital adequacy.

Claims Ratio

The claims ratio expresses net claims incurred as a percentage of net written premium. Net claims incurred include claims paid net of recoveries, estimated recoveries and changes in actuarial liabilities. This ratio, as shown below, only includes credit insurance activities.

Reinsurance ceded reflects various partnerships we have with private insurers and reinsurers in offering and managing insurance capacity.

Net claims incurred includes claims paid net of recoveries and estimated recoveries of \$40 million (2021 – \$29 million). In addition, there was a decrease in actuarial liabilities of \$30 million (2021 – \$127 million decrease).

<i>(in millions of Canadian dollars)</i>	2022	2021
Premiums earned	147	134
Reinsurance ceded	(15)	(16)
Net written premium	\$ 132	\$ 118
Net claims incurred/(recovered)	\$ 11	\$ (98)
Claims ratio	8%	-83%

In 2022, EDC updated how it manages its loss experience for our credit insurance solution by switching from a 7-year average claims ratio to a 15-year average claims ratio. The change better aligns our loss experience with the average Canadian business cycle over the last 30 years (1990-2020). In 2022, the 15-year claims ratio was 60%, a decrease of 2% from the prior year, primarily due to a reduction in the net allowance as a result of the removal of the remaining COVID-19 adjustment and changes to portfolio composition.



SUPPLEMENTAL INFORMATION

Table 1: Loan Interest Yield

<i>(in millions of Canadian dollars)</i>	2022	2021	2020	2019	2018
Gross loans receivable:					
Average performing floating rate	34,932	35,740	40,025	38,179	38,679
Average performing fixed rate	12,276	12,775	14,557	13,872	13,492
Total average performing gross loans receivable	47,208	48,515	54,582	52,051	52,171
Average carrying value on impaired loans	1,060	1,034	823	498	425
Total average income earning loan assets	\$ 48,268	\$ 49,549	\$ 55,405	\$ 52,549	\$ 52,596
Loan revenue:					
Performing floating rate interest	1,351	826	1,147	1,614	1,524
Performing fixed rate interest	390	421	485	487	473
Other loan revenue	190	215	198	194	210
Loan revenue	\$ 1,931	\$ 1,462	\$ 1,830	\$ 2,295	\$ 2,207
Yields – performing loans:					
Performing floating rate coupon ⁽¹⁾	3.87%	2.31%	2.87%	4.23%	3.94%
Performing fixed rate coupon ⁽¹⁾	3.18%	3.30%	3.33%	3.51%	3.51%
Total performing loan coupon yield ⁽¹⁾	3.69%	2.57%	2.99%	4.04%	3.83%
Total loan effective yield ⁽²⁾	4.00%	2.95%	3.30%	4.37%	4.20%

⁽¹⁾ Excludes fee increments.

⁽²⁾ Includes fee increments.

Table 2: Net Finance Margin

<i>(in millions of Canadian dollars)</i>	2022	2021	2020	2019	2018
Average performing loans receivable	47,208	48,515	54,582	52,051	52,171
Average carrying value on impaired loans	1,060	1,034	823	498	425
Average finance lease assets – aircraft	–	–	–	2	3
Average marketable securities balance	11,518	10,277	12,837	11,230	12,857
Average investment portfolio balance	2,659	2,341	1,750	1,450	1,259
Total average income earning assets	\$ 62,445	\$ 62,167	\$ 69,992	\$ 65,231	\$ 66,715
Financing and investment revenue:					
Loan	1,931	1,462	1,830	2,295	2,207
Marketable securities	175	82	165	255	257
Investments	26	16	14	7	9
Total financing and investment revenue	2,132	1,560	2,009	2,557	2,473
Interest expense	973	324	760	1,307	1,219
Leasing and financing related expenses	32	25	26	31	33
Net financing and investment income	\$ 1,127	\$ 1,211	\$ 1,223	\$ 1,219	\$ 1,221
Net finance margin	1.80%	1.95%	1.75%	1.87%	1.83%

Table 3: Insurance Premiums and Guarantee Fees

<i>(in millions of Canadian dollars)</i>	2022	2021	2020	2019	2018
Credit insurance:					
Credit insurance business facilitated	86,620	71,030	58,201	57,569	58,555
Premiums and fees earned prior to ceding reinsurance	147	139	126	115	114
Average credit insurance premium rate	0.16%	0.20%	0.22%	0.20%	0.19%
Financial institutions insurance:					
Financial institutions insurance business facilitated	6,573	6,733	9,189	6,915	4,259
Premiums and fees earned prior to ceding reinsurance	9	9	13	11	14
Average financial institutions insurance premium rate	0.14%	0.13%	0.14%	0.16%	0.33%
International trade guarantee:					
International trade guarantee average exposure	12,021	11,443	10,448	9,300	8,900
Premiums and fees earned	114	115	99	82	76
Average international trade guarantee premium rate	0.95%	1.00%	0.95%	0.88%	0.86%
Political risk insurance:					
Political risk insurance average exposure	391	564	830	869	897
Premiums and fees earned	5	6	7	10	10
Average political risk insurance premium rate	1.27%	1.08%	0.90%	1.13%	1.08%
Loan guarantees:					
Loan guarantees average exposure	4,361	4,328	4,047	3,543	2,832
Loan guarantee fees earned	73	97	55	55	48
Average loan guarantee fee rate	1.67%	2.24%	1.36%	1.55%	1.69%

Table 4: Provision for (Reversal of) Credit Losses

<i>(in millions of Canadian dollars)</i>	2022	2021	2020	2019	2018
Provision for (reversal of) credit losses on:					
Loans	11	(435)	1,897	247	(18)
Loan commitments	(10)	(30)	42	(9)	10
Loan guarantees	68	(89)	144	2	(3)
Total provision for (reversal of) credit losses	\$ 69	\$ (554)	\$ 2,083	\$ 240	\$ (11)

Table 5: Concentration of Exposure by Geographical Market

(in millions of Canadian dollars)	Financing portfolio			Insurance portfolio				Marketable securities and derivative instruments ⁽⁴⁾	2022 Exposure	
	Financing assets ⁽¹⁾	Commitments and guarantees ⁽²⁾	Credit insurance	Financial institutions insurance	International trade guarantee	Political risk insurance ⁽³⁾	Reinsurance ceded		\$	%
Country										
Canada	8,497	6,943	1,185	468	13,284 ⁽⁵⁾⁽⁶⁾	–	–	3,073	33,450	28
United States	8,477	4,139	8,979	308	9	–	–	6,469	28,381	24
United Kingdom	7,292	957	410	–	1	–	–	96	8,756	7
Chile	5,961	1,162	116	233	–	–	–	–	7,472	6
Australia	4,319	911	246	–	1	–	–	437	5,914	5
Mexico	1,813	1,362	544	12	–	29	–	9	3,769	3
India	2,222	651	206	1	1	4	–	–	3,085	3
Germany	2,606	134	247	–	1	–	–	74	3,062	3
China	1,549	433	444	172	8	29	–	–	2,635	2
Spain	1,789	58	86	–	–	–	–	–	1,933	2
Other ⁽⁷⁾	12,439	2,302	3,798	1,671	107	432	–	1,310	22,059	17
	56,964	19,052	16,261	2,865	13,412	494	–	11,468	120,516	100
Country limits in excess of policy limits ⁽³⁾	–	–	–	–	–	(135)	–	–	(135)	–
Reinsurance ceded ⁽⁸⁾	–	–	–	–	–	–	(232)	–	(232)	–
Total	\$ 56,964	\$ 19,052	\$ 16,261	\$ 2,865	\$ 13,412	\$ 359	\$ (232)	\$ 11,468	\$ 120,149	100

(in millions of Canadian dollars)	Financing portfolio			Insurance portfolio				Marketable securities and derivative instruments ⁽⁴⁾	2021 Exposure	
	Financing assets ⁽¹⁾	Commitments and guarantees ⁽²⁾	Credit insurance	Financial institutions insurance	International trade guarantee	Political risk insurance ⁽³⁾	Reinsurance ceded		\$	%
Country										
Canada	8,441	7,596	1,070	431	11,576 ⁽⁵⁾⁽⁶⁾	–	–	1,674	30,788	28
United States	6,523	3,883	7,756	239	23	–	–	7,258	25,682	24
United Kingdom	6,461	1,292	349	–	1	–	–	56	8,159	8
Chile	4,180	689	62	220	–	–	–	–	5,151	5
Australia	3,189	279	179	–	1	–	–	504	4,152	4
Mexico	1,803	471	429	10	–	28	–	6	2,747	3
India	2,271	123	176	3	1	4	–	–	2,578	2
China	1,427	399	416	222	13	78	–	–	2,555	2
Germany	2,035	110	211	–	4	–	–	40	2,400	2
Spain	1,631	167	98	–	–	–	–	–	1,896	2
Other ⁽⁷⁾	13,183	2,999	3,467	1,241	119	507	–	890	22,406	20
	51,144	18,008	14,213	2,366	11,738	617	–	10,428	108,514	100
Country limits in excess of policy limits ⁽³⁾	–	–	–	–	–	(138)	–	–	(138)	–
Reinsurance ceded ⁽⁸⁾	–	–	–	–	–	–	(217)	–	(217)	–
Total	\$ 51,144	\$ 18,008	\$ 14,213	\$ 2,366	\$ 11,738	\$ 479	\$ (217)	\$ 10,428	\$ 108,159	100

⁽¹⁾ Includes gross loans receivable, investments and the impact of risk transfer transactions.

⁽²⁾ Includes undisbursed loan commitments, accepted and outstanding letters of offer, loan guarantees, investment commitments, unallocated confirmed lines of credit and the impact of risk transfer transactions.

⁽³⁾ Includes the sum of individual country exposures and thus exceeds the maximum liability of \$359 million (2021 – \$479 million) for all the policies in political risk insurance.

⁽⁴⁾ Includes cash. Exposure does not take into consideration any collateral or the effect of any master netting agreements with derivative counterparties.

⁽⁵⁾ Includes \$143 million of surety bond insurance, where the risk rests with the Canadian exporter (2021 – \$224 million). A total of 23% of the exports insured under surety bond products are to the United States and 69% are to Brazil (2021 – United States: 39%, Brazil: 50%). The balance represents exports to other countries.

⁽⁶⁾ Includes \$12.5 billion in performance security guarantees, where the risk rests with the Canadian exporter (2021 – \$10.8 billion). A total of 56% of the exports insured under performance security products are to the United States (2021 – 56%). The balance represents exports to other countries.

⁽⁷⁾ Includes 171 countries (2021 – 170) with total exposure ranging from \$0.001 million to \$1.6 billion (2021 – \$0.001 million to \$1.8 billion).

⁽⁸⁾ Represents treaty reinsurance agreements covering most bonding obligors and the short-term export credit insurance portfolio, including most foreign bank exposures.

Table 6: Concentration of Exposure by Industry

(in millions of Canadian dollars)	Financing portfolio			Insurance portfolio				Marketable securities and derivative instruments ⁽³⁾	2022 Exposure	
	Financing assets ⁽¹⁾	Commitments and guarantees ⁽²⁾	Credit insurance	Financial institutions insurance	International trade guarantee	Political risk insurance	Reinsurance ceded		\$	%
Industry										
Commercial:										
Finance and insurance	5,931	2,382	1,889	2,865	4,087	–	–	4,597	21,751	18
Manufacturing	7,301	4,985	7,684	–	1,336	79	–	–	21,385	18
Transportation and storage	14,525	2,313	554	–	191	–	–	–	17,583	15
Utilities	9,343	2,023	510	–	2,294	–	–	–	14,170	12
Resources	6,036	2,419	591	–	2,116	–	–	–	11,162	9
Wholesale and retail trade	1,963	1,524	3,545	–	569	1	–	–	7,602	6
Information	5,020	920	885	–	133	–	–	–	6,958	6
Professional services	1,923	541	375	–	335	160	–	–	3,334	3
Construction	627	449	65	–	2,084	105	–	–	3,330	3
Commercial properties	2,340	324	80	–	52	–	–	–	2,796	2
Other	1,006	1,159	83	–	215	14	–	–	2,477	2
Total commercial	56,015	19,039	16,261	2,865	13,412	359	–	4,597	112,548	94
Sovereign	949	13	–	–	–	–	–	6,871	7,833	6
	56,964	19,052	16,261	2,865	13,412	359	–	11,468	120,381	100
Reinsurance ceded ⁽⁴⁾	–	–	–	–	–	–	(232)	–	(232)	–
Total	\$56,964	\$19,052	\$16,261	\$2,865	\$13,412	\$359	\$(232)	\$11,468	\$120,149	100

⁽¹⁾ Includes gross loans receivable, investments and the impact of risk transfer transactions.

⁽²⁾ Includes undisbursed loan commitments, accepted and outstanding letters of offer, loan guarantees, investment commitments, unallocated confirmed lines of credit and the impact of risk transfer transactions.

⁽³⁾ Includes cash. Exposure does not take into consideration any collateral or the effect of any master netting agreements with derivative counterparties.

⁽⁴⁾ Represents treaty reinsurance agreements covering most bonding obligors and the short-term export credit insurance portfolio, including most foreign bank exposures.



(in millions of Canadian dollars)	Financing portfolio			Insurance portfolio				Marketable securities and derivative instruments ⁽³⁾	2021 Exposure	
	Financing assets ⁽¹⁾	Commitments and guarantees ⁽²⁾	Credit insurance	Financial institutions insurance	International trade guarantee	Political risk insurance	Reinsurance ceded		\$	%
Industry										
Commercial:										
Manufacturing	6,831	4,099	6,627	–	1,453	98	–	–	19,108	18
Finance and insurance	5,851	1,766	1,407	2,366	3,430	13	–	2,849	17,682	16
Transportation and storage	14,602	2,333	355	–	156	5	–	–	17,451	16
Resources	5,828	3,012	457	–	1,984	–	–	–	11,281	10
Utilities	6,339	2,161	485	–	1,799	–	–	–	10,784	10
Wholesale and retail trade	1,524	1,276	3,361	–	468	3	–	–	6,632	6
Information	3,435	883	719	–	100	–	–	–	5,137	5
Commercial properties	2,703	501	70	–	41	38	–	–	3,353	3
Construction	590	429	116	–	1,749	210	–	–	3,094	3
Professional services	1,665	428	487	–	348	112	–	–	3,040	3
Other	695	1,066	129	–	210	–	–	–	2,100	2
Total commercial	50,063	17,954	14,213	2,366	11,738	479	–	2,849	99,662	92
Sovereign	1,081	54	–	–	–	–	–	7,579	8,714	8
	51,144	18,008	14,213	2,366	11,738	479	–	10,428	108,376	100
Reinsurance ceded ⁽⁴⁾	–	–	–	–	–	–	(217)	–	(217)	–
Total	\$ 51,144	\$ 18,008	\$ 14,213	\$ 2,366	\$ 11,738	\$ 479	\$ (217)	\$ 10,428	\$ 108,159	100

⁽¹⁾ Includes gross loans receivable, investments and the impact of risk transfer transactions.

⁽²⁾ Includes undisbursed loan commitments, accepted and outstanding letters of offer, loan guarantees, investment commitments, unallocated confirmed lines of credit and the impact of risk transfer transactions.

⁽³⁾ Includes cash. Exposure does not take into consideration any collateral or the effect of any master netting agreements with derivative counterparties.

⁽⁴⁾ Represents treaty reinsurance agreements covering most bonding obligors and the short-term export credit insurance portfolio, including most foreign bank exposures.

Table 7: Individually Impaired Gross Loans Receivable

(in millions of Canadian dollars)	2022	2021
Commercial:		
Transportation and storage	719	594
Commercial properties	202	436
Manufacturing	158	103
Utilities	123	116
Resources	101	146
Wholesale and retail trade	70	108
Construction	59	74
Information	14	206
Finance and insurance	8	29
Professional services	6	23
Other	208	191
Total commercial	1,668	2,026
Sovereign:		
Iran	8	8
Venezuela	1	1
Total sovereign	9	9
Total impaired gross loans receivable	\$ 1,677	\$ 2,035

Table 8: Performing Loans, Loan Guarantees and Loan Commitments – Allowance for Credit Losses

Industry of risk	2022			2021		
	Exposure	Allowance	Allowance as a percentage of exposure	Exposure	Allowance	Allowance as a percentage of exposure
Commercial:						
Transportation and storage*	16,083	288	1.8	16,327	226	1.4
Manufacturing	11,661	108	0.9	10,627	89	0.8
Utilities	11,182	94	0.8	8,332	135	1.6
Information	5,718	47	0.8	3,961	26	0.7
Professional services	2,044	41	2.0	1,607	19	1.2
Commercial properties	2,469	40	1.6	2,777	13	0.5
Resources	8,272	39	0.5	8,622	51	0.6
Finance and insurance	5,928	38	0.6	5,142	9	0.2
Wholesale and retail trade	3,328	26	0.8	2,565	15	0.6
Construction	1,004	19	1.9	926	7	0.8
Other	1,774	45	2.5	1,403	18	1.3
Total commercial	69,463	785	1.1	62,289	608	1.0
Sovereign	953	275	28.9	1,126	330	29.3
Total	\$ 70,416	\$ 1,060	1.5	\$ 63,415	\$ 938	1.5

* 2021 includes other assets exposure of \$10 million and allowance on other assets of \$1 million.

Table 9: Claims – Size Concentration

	2022				2021			
	\$ of claims paid	Number of claims paid	\$ of claims recoveries	Number of claims with recoveries	\$ of claims paid	Number of claims paid	\$ of claims recoveries	Number of claims with recoveries
\$0 – \$100,000	9	363	2	145	10	446	4	376
\$100,001 – \$1 million	38	133	13	29	23	88	9	33
Over \$1 million	30	11	29	11	21	10	5	3
Total	\$ 77	507	\$ 44	185	\$ 54	544	\$ 18	412



CONSOLIDATED FINANCIAL STATEMENTS

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Financial Reporting Responsibility

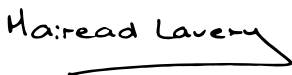
The Consolidated Financial Statements contained in this Integrated Annual Report have been prepared by management in accordance with International Financial Reporting Standards appropriate in the circumstances. The integrity and objectivity of the data in these Consolidated Financial Statements are management's responsibility. It is necessary for management to make assumptions, estimates and judgments based on information available as at the date of the financial statements. Areas where management has made significant estimates, assumptions and judgments include the allowance for losses on loans, loan commitments and loan guarantees, premium and claims liabilities, financial instruments measured at fair value, assets held for sale, retirement benefit obligations and the determination of the control of structured entities. Management is also responsible for all other information in the Integrated Annual Report and for ensuring that this information is consistent, where appropriate, with the information and data contained in the Consolidated Financial Statements.

In support of its responsibility, management maintains financial, management control and information systems and management practices to provide reasonable assurance that the financial information is reliable, that the assets are safeguarded, that the transactions are properly authorized and are in accordance with the relevant legislation, by-laws of the Corporation and Government directives, and that the operations are carried out effectively. We have an internal audit department whose functions include reviewing internal controls and their application, on an ongoing basis.

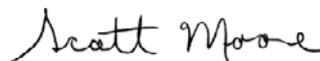
The Board of Directors is responsible for the management of our business and activities. In particular, it is responsible for ensuring that management fulfills its responsibilities for financial reporting and internal control and exercises this responsibility through the Audit Committee of the Board, which is composed of Directors who are not employees of EDC. The Audit Committee meets with management, the internal auditors and with representatives of the Office of the Auditor General of Canada on a regular basis.

Contracts which, in our opinion, involve risks in excess of that which we would normally undertake, may be entered into under the authority of the Minister of International Trade, Export Promotion, Small Business and Economic Development and the Minister of Finance where the Minister of International Trade, Export Promotion, Small Business and Economic Development considers them to be in the national interest. Funds required for such contracts are paid to EDC by the Minister of Finance out of the Consolidated Revenue Fund, and funds recovered are remitted to the Consolidated Revenue Fund, net of amounts withheld to cover related administrative expenses. These transactions, which are known as Canada Account transactions, are shown in Note 33 to our Consolidated Financial Statements, and the responsibility of the Board of Directors for these transactions is limited to the management of the administration thereof by EDC.

The Auditor General of Canada conducts an independent audit, in accordance with Canadian generally accepted auditing standards, and expresses her opinion on the consolidated financial statements. Her report is presented on the following page.



Mairead Lavery
President and Chief Executive Officer



Scott Moore
Senior Vice-President and Chief Financial Officer

February 27, 2023



Independent Auditor's Report



Office of the
Auditor General
of Canada

Bureau du
vérificateur général
du Canada

To the Minister of International Trade, Export Promotion, Small Business and Economic Development

Report on the Audit of the Consolidated Financial Statements

OPINION

We have audited the consolidated financial statements of Export Development Canada and its subsidiaries (the Group), which comprise the consolidated statement of financial position as at 31 December 2022, and the consolidated statement of comprehensive income, consolidated statement of changes in equity and consolidated statement of cash flows for the year then ended, and notes to the consolidated financial statements, including a summary of significant accounting policies.

In our opinion, the accompanying consolidated financial statements present fairly, in all material respects, the consolidated financial position of the Group as at 31 December 2022, and its consolidated financial performance and its consolidated cash flows for the year then ended in accordance with International Financial Reporting Standards (IFRSs).

BASIS FOR OPINION

We conducted our audit in accordance with Canadian generally accepted auditing standards. Our responsibilities under those standards are further described in the *Auditor's Responsibilities for the Audit of the Consolidated Financial Statements* section of our report. We are independent of the Group in accordance with the ethical requirements that are relevant to our audit of the consolidated financial statements in Canada, and we have fulfilled our other ethical responsibilities in accordance with these requirements. We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our opinion.

OTHER INFORMATION

Management is responsible for the other information. The other information obtained at the date of this auditor's report is the information included in the Financial Review section in the annual report, but does not include the consolidated financial statements and our auditor's report thereon.

Our opinion on the consolidated financial statements does not cover the other information and we do not express any form of assurance conclusion thereon.

In connection with our audit of the consolidated financial statements, our responsibility is to read the other information and, in doing so, consider whether the other information is materially inconsistent with the consolidated financial statements or our knowledge obtained in the audit, or otherwise appears to be materially misstated.

If, based on the work we have performed on the other information obtained prior to the date of this auditor's report, we conclude that there is a material misstatement of this other information, we are required to report that fact. We have nothing to report in this regard.

RESPONSIBILITIES OF MANAGEMENT AND THOSE CHARGED WITH GOVERNANCE FOR THE CONSOLIDATED FINANCIAL STATEMENTS

Management is responsible for the preparation and fair presentation of the consolidated financial statements in accordance with IFRSs, and for such internal control as management determines is necessary to enable the preparation of consolidated financial statements that are free from material misstatement, whether due to fraud or error.

In preparing the consolidated financial statements, management is responsible for assessing the Group's ability to continue as a going concern, disclosing, as applicable, matters related to going concern and using the going concern basis of accounting unless management either intends to liquidate the Group or to cease operations, or has no realistic alternative but to do so.

Those charged with governance are responsible for overseeing the Group's financial reporting process.

AUDITOR'S RESPONSIBILITIES FOR THE AUDIT OF THE CONSOLIDATED FINANCIAL STATEMENTS

Our objectives are to obtain reasonable assurance about whether the consolidated financial statements as a whole are free from material misstatement, whether due to fraud or error, and to issue an auditor's report that includes our opinion. Reasonable assurance is a high level of assurance, but is not a guarantee that an audit conducted in accordance with Canadian generally accepted auditing standards will always detect a material misstatement when it exists. Misstatements can arise from fraud or error and are considered material if, individually or in the aggregate, they could reasonably be expected to influence the economic decisions of users taken on the basis of these consolidated financial statements.

As part of an audit in accordance with Canadian generally accepted auditing standards, we exercise professional judgment and maintain professional skepticism throughout the audit. We also:

- Identify and assess the risks of material misstatement of the consolidated financial statements, whether due to fraud or error, design and perform audit procedures responsive to those risks, and obtain audit evidence that is sufficient and appropriate to provide a basis for our opinion. The risk of not detecting a material misstatement resulting from fraud is higher than for one resulting from error, as fraud may involve collusion, forgery, intentional omissions, misrepresentations, or the override of internal control.
- Obtain an understanding of internal control relevant to the audit in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the Group's internal control.
- Evaluate the appropriateness of accounting policies used and the reasonableness of accounting estimates and related disclosures made by management.
- Conclude on the appropriateness of management's use of the going concern basis of accounting and, based on the audit evidence obtained, whether a material uncertainty exists related to events or conditions that may cast significant doubt on the Group's ability to continue as a going concern. If we conclude that a material uncertainty exists, we are required to draw attention in our auditor's report to the related disclosures in the consolidated financial statements or, if such disclosures are inadequate, to modify our opinion. Our conclusions are based on the audit evidence obtained up to the date of our auditor's report. However, future events or conditions may cause the Group to cease to continue as a going concern.
- Evaluate the overall presentation, structure and content of the consolidated financial statements, including the disclosures, and whether the consolidated financial statements represent the underlying transactions and events in a manner that achieves fair presentation.
- Obtain sufficient appropriate audit evidence regarding the financial information of the entities or business activities within the Group to express an opinion on the consolidated financial statements. We are responsible for the direction, supervision, and performance of the group audit. We remain solely responsible for our audit opinion.

We communicate with those charged with governance regarding, among other matters, the planned scope and timing of the audit and significant audit findings, including any significant deficiencies in internal control that we identify during our audit.



Report on Compliance with Specified Authorities

OPINION

In conjunction with the audit of the consolidated financial statements, we have audited transactions of Export Development Canada and its wholly-owned subsidiaries coming to our notice for compliance with specified authorities. The specified authorities against which compliance was audited are Part X of the *Financial Administration Act* and regulations, the *Export Development Act* and regulations, the by-laws of Export Development Canada, the charters and by-laws of its wholly-owned subsidiaries, and the directives issued pursuant to Section 89 of the *Financial Administration Act* described in Note 1 to the consolidated financial statements.

In our opinion, the transactions of Export Development Canada and its wholly-owned subsidiaries that came to our notice during the audit of the consolidated financial statements have complied, in all material respects, with the specified authorities referred to above. Further, as required by the *Financial Administration Act*, we report that, in our opinion, the accounting principles in IFRSs have been applied on a basis consistent with that of the preceding year.

RESPONSIBILITIES OF MANAGEMENT FOR COMPLIANCE WITH SPECIFIED AUTHORITIES

Management is responsible for Export Development Canada and its wholly-owned subsidiaries' compliance with the specified authorities named above, and for such internal control as management determines is necessary to enable Export Development Canada and its wholly-owned subsidiaries to comply with the specified authorities.

AUDITOR'S RESPONSIBILITIES FOR THE AUDIT OF COMPLIANCE WITH SPECIFIED AUTHORITIES

Our audit responsibilities include planning and performing procedures to provide an audit opinion and reporting on whether the transactions coming to our notice during the audit of the consolidated financial statements are in compliance with the specified authorities referred to above.

Normand Lanthier, CPA, CA

Principal
for the Auditor General of Canada

Ottawa, Canada
27 February 2023


Export Development Canada**CONSOLIDATED STATEMENT OF FINANCIAL POSITION**

as at December 31

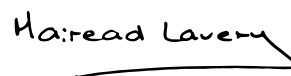
<i>(in millions of Canadian dollars)</i>	Notes	2022	2021
Assets			
Cash		275	207
Marketable securities	3	9,539	9,082
Derivative instruments	13	1,654	1,139
Assets held for sale	6	80	1
Loans receivable	4	54,182	48,345
Allowance for losses on loans	4	(1,630)	(1,760)
Investments	5	2,771	2,707
Reinsurers' share of premium and claims liabilities	15	110	110
Property, plant and equipment	8	40	44
Intangible assets	9	46	63
Right-of-use assets	10	118	127
Retirement benefit assets	31	453	346
Other assets	7	200	204
Total Assets		\$ 67,838	\$ 60,615
Liabilities and Equity			
Accounts payable and other credits	11	154	185
Loan guarantees	4, 17	234	188
Loans payable	12	50,568	43,525
Derivative instruments	13	3,712	1,003
Lease liabilities	10	152	158
Allowance for losses on loan commitments	4	10	20
Premium and claims liabilities	15	640	670
Retirement benefit liabilities	31	162	226
Total Liabilities		55,632	45,975
<i>Financing commitments (Note 16) and contingent liabilities (Note 17)</i>			
Share capital	19	8,490	12,300
Retained earnings		3,716	2,340
Total Equity		12,206	14,640
Total Liabilities and Equity		\$ 67,838	\$ 60,615

The accompanying notes are an integral part of these consolidated financial statements.

These consolidated financial statements were approved for issuance by the Board of Directors on February 27, 2023.



Manjit Sharma
Director



Mairead Lavery
Director



Export Development Canada

CONSOLIDATED STATEMENT OF COMPREHENSIVE INCOME

for the year ended December 31

<i>(in millions of Canadian dollars)</i>	Notes	2022	2021
Financing and Investment Revenue:			
Loans	25	1,931	1,462
Marketable securities		175	82
Investments		26	16
Total financing and investment revenue		2,132	1,560
Interest expense	26	973	324
Financing-related expenses		32	25
Net Financing and Investment Income		1,127	1,211
Loan Guarantee Fees		73	97
Insurance premiums and guarantee fees		290	285
Reinsurance ceded		(30)	(33)
Net Insurance Premiums and Guarantee Fees	27	260	252
Other (Income) Expense	29	(444)	(741)
Administrative Expenses	30	659	619
Income before Credit Losses and Claims-Related Expenses		1,245	1,682
Provision for (Reversal of) Credit Losses	4	69	(554)
Claims-related expenses (recovery)		(40)	(84)
Reinsurers' share of claims-related expenses		7	33
Net Claims-Related Recovery	28	(33)	(51)
Net Income		1,209	2,287
Other comprehensive income:			
Retirement benefit plans remeasurement	31	167	343
Comprehensive Income		\$ 1,376	\$ 2,630

The accompanying notes are an integral part of these consolidated financial statements.

All items presented in other comprehensive income will not be reclassified to net income in subsequent periods.

Export Development Canada**CONSOLIDATED STATEMENT OF CHANGES IN EQUITY**

for the year ended December 31

(in millions of Canadian dollars)

	Notes	2022	2021
Share Capital			
Balance beginning of year		12,300	12,300
Shares repurchased	19	3,810	-
Balance end of year		8,490	12,300
Retained Earnings			
Balance beginning of year		2,340	6,990
Net income		1,209	2,287
Other comprehensive income:			
Retirement benefit plans remeasurement		167	343
Dividends	19	-	(7,280)
Balance end of year		3,716	2,340
Total Equity End of Year		\$ 12,206	\$ 14,640

The accompanying notes are an integral part of these consolidated financial statements.



Export Development Canada

CONSOLIDATED STATEMENT OF CASH FLOWS

for the year ended December 31

<i>(in millions of Canadian dollars)</i>	2022	2021
Cash Flows from (used in) Operating Activities		
Net income	1,209	2,287
Adjustments to determine net cash from (used in) operating activities		
Provision for (reversal of) credit losses	69	(554)
Change in the net allowance for claims on insurance	(76)	(89)
Depreciation and amortization	34	32
Realized (gains) and losses	(51)	(315)
Changes in operating assets and liabilities		
Change in accrued interest on loans receivable	(145)	(13)
Change in fair value of investments	375	(381)
Change in accrued interest and fair value of marketable securities	377	185
Change in accrued interest and fair value of loans payable	(1,405)	(473)
Change in derivative instruments	1,791	552
Other	118	41
Loan disbursements	(20,227)	(16,196)
Loan repayments and principal recoveries from loan asset sales	15,953	20,982
Net cash from (used in) operating activities	(1,978)	6,058
Cash Flows from (used in) Investing Activities		
Disbursements for investments	(736)	(413)
Receipts from investments	450	440
Purchases of marketable securities	(8,398)	(7,706)
Sales/maturities of marketable securities	9,295	7,775
Purchases of property, plant and equipment	(3)	(7)
Purchases of intangible assets	–	(1)
Net cash from (used in) investing activities	608	88
Cash Flows from (used in) Financing Activities		
Issue of long-term loans payable	13,207	7,205
Repayment of long-term loans payable	(13,263)	(10,807)
Issue of short-term loans payable	51,551	25,216
Repayment of short-term loans payable	(44,854)	(21,719)
Disbursements from sale/maturity of derivative instruments	(285)	(34)
Receipts from sale/maturity of derivative instruments	87	114
Repurchase of share capital	(3,810)	–
Dividend paid	–	(7,280)
Net cash from (used in) financing activities	2,633	(7,305)
Effect of exchange rate changes on cash and cash equivalents	99	(24)
Net increase (decrease) in cash and cash equivalents	1,362	(1,183)
Cash and cash equivalents		
Beginning of year	1,693	2,876
End of year	\$ 3,055	\$ 1,693
Cash and cash equivalents are comprised of:		
Cash	275	207
Cash equivalents included within marketable securities	2,780	1,486
	\$ 3,055	\$ 1,693
Operating Cash Flows from Interest		
Cash paid for interest	\$ 623	\$ 435
Cash received for interest	\$ 1,738	\$ 1,461

The accompanying notes are an integral part of these consolidated financial statements.

Notes to the Consolidated Financial Statements

1. Corporate Mandate

Export Development Canada (“EDC”, “we” or “our”) was created in 1944 as Canada’s export credit agency (ECA). On October 1, 1969, EDC was established as a Crown corporation by a statute of the Parliament of Canada, the *Export Development Act* (the “Act”). EDC’s mandate is to support and develop, directly or indirectly, Canada’s export trade, and Canadian capacity to engage in that trade and respond to international business opportunities, as well as to provide development financing and other forms of development support in a manner consistent with Canada’s international development priorities. In March of 2020, to respond to the economic impacts of COVID-19, the Government of Canada temporarily expanded EDC’s mandate from March 26, 2020 to December 31, 2021 to include supporting and developing, directly or indirectly, domestic business at the request of the Minister of International Trade, Export Promotion, Small Business and Economic Development and the Minister of Finance. On December 1, 2021, the Ministers extended these domestic powers until December 31, 2022, with guidance as to their application provided by the Ministers to EDC.

EDC is named in Part I of Schedule III to the *Financial Administration Act* (the “FA Act”) and is accountable for its affairs to Parliament through the Minister of International Trade, Export Promotion, Small Business and Economic Development (the “Minister”).

In 2008, EDC was given and implemented a directive (PC 2008-1598) pursuant to Section 89 of the FA Act, directing parent Crown corporations involved in commercial lending to give due consideration to the personal integrity of those they lend to or provide benefits to, in accordance with the Federal Government’s policy to improve the accountability and integrity of federal institutions.

In July 2015, EDC, together with other federal Crown corporations, was issued a directive (PC 2015-1110) pursuant to Section 89 of the FA Act to align our travel, hospitality, conference and event expenditure policies, guidelines and practices with Treasury Board policies, directives and related instruments on travel, hospitality, conference and event expenditures in a manner that is consistent with our legal obligations. We have complied with the directive in a way that does not hinder our ability to deliver on our mandate for Canadian companies.

In 2017, EDC completed its compliance with the directive PC 2017-127. This directive intended to ensure equitable and balanced cost-sharing between employee and employer for pension contributions, and set the normal retirement age at 65.

In June 2018, EDC was issued a directive (PC 2018-683) pursuant to Section 89 of the FA Act to perform any activity consistent with any authorization obtained from the Minister pursuant to Section 23 of the Act (Canada Account) in respect of the project known as the Trans Mountain Pipeline Expansion (the “Project”), and to do all such ancillary or other things as may be advisable or required to give effect to the provisions contained therein. We have complied with the directive by performing all required activities described in the six Ministerial authorization letters provided to EDC except for the indemnity to facilitate in the case of a sale of the assets or shares contemplated in paragraph 3 of the June 5, 2018 Ministerial authorization letter. As at December 31, 2022, the service related to the indemnity clause has not yet been required.

In August 2019, EDC was issued a directive (PC 2019-1190) pursuant to Section 89 of the FA Act to lend monies to General Dynamics Land Systems – Canada Corporation in accordance with any authorization obtained from the Minister pursuant to Section 23 of the Act (Canada Account). We have complied with this directive by performing required activities consistent with the authorization obtained and the monies were fully repaid by General Dynamics Land Systems – Canada Corporation in 2021.



In March 2020, EDC was issued a directive (PC 2020-206) pursuant to Section 89 of the FA Act to perform any activity consistent with any authorization obtained from the Minister pursuant to Section 23 of the Act (Canada Account) as part of the response to COVID-19; to support and develop domestic business in accordance with paragraph 10(1)(a) of the Act as part of that response; and to take any ancillary or other measures that may be advisable or necessary to give effect to the directive. We have complied with the directive by performing and continuing to perform all required activities described in the Ministerial authorization letter provided to EDC in respect of the Canada Emergency Business Account (CEBA) on April 5, 2020, as well as all six amendments thereto which have been subsequently received.

In August 2021, EDC was issued a directive (PC 2021-850) pursuant to Section 89 of the FA Act to perform any activity in accordance with any authorization obtained from the Minister pursuant to Section 23 of the Act (Canada Account) in respect of the Telesat program known as Telesat Lightspeed and to do any other thing that may be required or advisable to give effect to the directive. The transaction described in the Ministerial authorization letter provided to EDC is active and we are complying with this directive by performing required activities consistent with the authorization.

In August 2021, EDC was issued a directive (PC 2021-891) pursuant to Section 89 of the FA Act to perform any activity in accordance with any authorization obtained from the Minister pursuant to Section 23 of the Act (Canada Account) in respect of Lower Churchill Projects in Newfoundland and Labrador and to do any other thing that may be required or advisable to give effect to the directive. The transaction described in the Ministerial authorization letter provided to EDC is active and we are complying with this directive by performing required activities consistent therewith.

In February 2022, EDC was issued a directive (PC 2022-179) pursuant to Section 89 of the FA Act to perform any activity in accordance with a letter of arrangement entered into by EDC and the Minister of Finance in respect of a loan to Ukraine by EDC in its capacity as agent of the Minister of Finance pursuant to subsection 8.3(7) of the Bretton Woods and Related Agreements Act and to carry out related activities or any other thing that may be required or advisable to give effect to the directive. The loan contemplated in the directive has been implemented and EDC will continue to comply with this directive.

The Government of Canada is the sole shareholder of EDC.

We incorporated Exinvest Inc. as a wholly-owned subsidiary under the *Canada Business Corporations Act* in 1995.

In May 2017, for the purposes of creating a Canadian Development Finance Institution, the Government of Canada broadened EDC's mandate and scope of activity to include providing, directly or indirectly, development financing and other forms of development support in a manner that is consistent with Canada's international development priorities. Development Finance Institute Canada (DFIC) Inc. was incorporated under the *Canada Business Corporations Act* in September 2017 as a wholly-owned subsidiary of EDC, and began operations under the trade name FinDev Canada in January 2018.

Our earnings and those of our subsidiaries are not subject to the requirements of the *Income Tax Act*.

We are subject to a limit imposed by the Act on our contingent liability arrangements. The Act specifies that the limit applies to the principal amount owing under all outstanding arrangements which have the effect of providing, to any person, any insurance, reinsurance, indemnity or guarantee. This limit is currently \$90.0 billion. At the end of December 2022, the amount of these contingent liabilities was \$37.1 billion (2021 – \$33.0 billion).

We are for all purposes an agent of His Majesty in right of Canada. As a result, all obligations under debt instruments we issue are obligations of Canada. The Act grants us the power and authority to borrow and have outstanding borrowings up to a maximum of 15 times the aggregate of (a) our current paid-in capital and (b) our retained earnings determined in accordance with the most recent audited financial statements. The maximum applicable to December 31, 2022 is \$162.5 billion (2021 – \$289.4 billion), against which borrowings amounted to \$50.6 billion (2021 – \$43.5 billion).

2. Summary of Significant Accounting Policies

BASIS OF PRESENTATION

Our consolidated financial statements have been prepared in accordance with International Financial Reporting Standards (IFRS). The significant accounting policies used in the preparation of these consolidated financial statements are summarized on the following pages and conform in all material respects to IFRS.

BASIS OF CONSOLIDATION

Our consolidated financial statements include the assets, liabilities, results of operations and cash flows of our wholly-owned subsidiaries and those structured entities consolidated under *IFRS 10 – Consolidated Financial Statements*. Intercompany transactions and balances have been eliminated.

APPLICATION OF NEW AND REVISED INTERNATIONAL FINANCIAL REPORTING STANDARDS

New Standards, Amendments and Interpretations

The following amendments were issued by the IASB and have been assessed as being relevant to EDC. The changes were adopted for the annual period beginning on January 1, 2022.

Fees in the “10 per cent” Test for Derecognition

In May 2020, the IASB issued an amendment to *IFRS 9 – Financial Instruments: Fees in the “10 per cent” test for derecognition* clarifying which fees to include when applying the “10 per cent” test in assessing whether to derecognize a financial liability. An entity includes only fees paid or received between the entity (the borrower) and the lender, including fees paid or received by either the entity or the lender on the other’s behalf. The amendment was adopted on January 1, 2022 with no material impact to the consolidated financial statements.

Onerous Contracts

In May 2020 the IASB issued an amendment to *IAS 37 – Provisions, Contingent Liabilities and Contingent Assets: Onerous Contracts* regarding costs a company should include as the cost of fulfilling a contract when assessing whether a contract is onerous. The amendment was adopted on January 1, 2022 with no changes to the consolidated financial statements.

Interest Rate Benchmark Reform – Phase 2

In August 2020, the IASB issued amendments to *IFRS 9 – Financial Instruments*, *IAS 39 – Financial Instruments: Recognition and Measurement*, *IFRS 7 – Financial Instruments: Disclosures*, *IFRS 4 – Insurance Contracts* and *IFRS 16 – Leases* to address the reforms related to the interest rate benchmark.

The amendments include changing the effective interest rate of financial instruments to reflect the change to the alternative benchmark rate, as well as additional disclosures about new risks arising from the reform and how we are managing the transition to alternative benchmark rates. For financial assets and financial liabilities measured at amortized cost, the amendments introduce a practical expedient that allows the change in contractual cash flows to be accounted for as an update to the effective interest rate, as opposed to immediately recognizing a gain or loss, provided that the modification is made on an economically equivalent basis and is a direct consequence of interest rate benchmark reform.

Certain loans receivable measured at amortized cost have been transitioned to a new interest rate benchmark as disclosed in Note 4.



Transition to Alternative Benchmark Rates

We are focused on key activities including enhancing existing systems and processes as well as converting our existing loan and debt agreements using the new relevant alternative benchmark rates. The transition has been broken down into two stages – Stage 1 was focused on the LIBOR currencies and settings with a cessation date of December 31, 2021 (all Sterling, Euro, Swiss Franc and Japanese Yen settings), while Stage 2 focuses on the USD LIBOR currency and settings with a cessation date of June 30, 2023. The project was expanded this year to include the transition of the Canadian Dollar Offered Rate (CDOR), with a cessation date of June 28, 2024.

Stage 1 was completed in 2021. The key outcome was the amendment of existing impacted products and new products to the new risk-free rates. This included system, process and operational readiness, training, and ensuring appropriate support for our customers and customer-facing teams.

As at December 31, 2022, Stage 2 is in progress. We have begun the transition of impacted USD derivatives and lending assets to alternative benchmark rates and are on track to convert the remaining deals to risk-free rates in the first half of 2023. All new products use risk-free rates. A transition plan for CDOR is being developed.

The interest rate benchmark reform has not resulted in changes to our risk management strategy and we have assessed the overall risk arising from the transition to be low.

The following table shows our exposures to financial instruments that continue to reference interest rate benchmarks that are subject to the reform and are yet to transition:

(in millions of Canadian dollars)

				Dec. 31, 2022
	Non-derivative financial assets	Derivatives (receive leg) – notional amount	Derivatives (pay leg) – notional amount	Authorized and committed loan commitments
CDOR	3,065	–	7,250	1,102
USD Libor	14,555	2,345	5,601	5,334
	17,620	2,345	12,851	6,436
Cross currency swaps				
Cross currency swaps – CDOR	–	4,397	–	–
Cross currency swaps – USD Libor	–	71	8,404	–
	–	4,468	8,404	–
Total	\$ 17,620	\$ 6,813	\$ 21,255	\$ 6,436

Standards, Amendments and Interpretations not yet in effect

The following standards and amendments issued by the IASB have been assessed as having a possible effect on EDC in the future. We are currently assessing the impact of these standards and amendments on our consolidated financial statements:

IFRS 17 – Insurance Contracts – In May 2017, the IASB issued IFRS 17 which establishes recognition, measurement, presentation, and disclosure requirements of insurance contracts. The standard requires entities to measure the contract liabilities using their current fulfillment cash flows and revenue to be recognized using one or more of three methods. We are planning to adopt two of these methods – the General Measurement Model and the Premium Allocation Approach – to measure insurance contracts. IFRS 17 is effective for annual periods beginning on or after January 1, 2023, with retroactive application to periods beginning on or after January 1, 2022.

The General Measurement Model requires an entity to measure groups of contracts based on estimates of the present value of future cash flows under the contracts, as well as an explicit risk adjustment for non-financial risk. For profitable groups of contracts, the contractual service margin, which represents unearned profit, is recognized and revenue recorded as services are provided over the coverage period. Losses on onerous contract groups are recognized immediately. We have determined that this measurement model is applicable to our political risk insurance portfolio and related reinsurance contracts, as well as certain long-term contracts within our international trade guarantee portfolio.

The Premium Allocation Approach is a simplified version of the General Measurement Model which we have determined is applicable to all other insurance contracts, as it has been determined that using this simplified method would produce a measurement that would not materially differ from the results under the General Measurement Model. The Premium Allocation Approach is comparable to our current reporting under IFRS 4, but differs in the following key areas:

- the liability for remaining coverage will reflect premiums received and will include deferred acquisition costs for the majority of our insurance contract groups;
- insurance contracts will be assessed for profitability and onerous groups of contracts will be disclosed separately from profitable groups; and
- measurement of the liability for remaining coverage for onerous groups of contracts and the liability for incurred claims will reflect the time value of money as well as the effect of non-financial risk.

IFRS 17 will be initially applied for our reporting period beginning January 1, 2023. As required by the standard, we will adopt IFRS 17 retrospectively and apply the full retrospective approach to all insurance contracts in force at the transition date of January 1, 2022. In 2023, we will recognize an opening adjustment to retained earnings as at January 1, 2022 to reflect the impact of the transition to IFRS 17 and will restate comparative figures for the 2022 reporting year. Based on our current estimates, we expect the adoption of IFRS 17 to result in an increase to retained earnings of approximately \$160 million.

IAS 1 – Presentation of Financial Statements and IFRS Practice Statement 2 – In February 2021, the IASB issued *Disclosure of Accounting Policies (Amendments to IAS 1 and IFRS Practice Statement 2)* with amendments that are intended to help preparers in deciding which accounting policies to disclose in their financial statements. The amendments are effective for annual periods beginning on or after January 1, 2023. We do not anticipate the adoption of these amendments to significantly impact our consolidated financial statements.

IAS 8 – Accounting Policies, Changes in Accounting Estimates and Errors – In February 2021, the IASB issued *Definition of Accounting Estimates*, amendments to IAS 8. The amendments help entities to distinguish between accounting policies and accounting estimates. The amendments are effective for annual periods beginning on or after January 1, 2023. We do not anticipate the adoption of these amendments to significantly impact our consolidated financial statements.

USE OF ESTIMATES AND KEY JUDGMENTS

To prepare our consolidated financial statements in accordance with IFRS, it is necessary for management to exercise judgment and make use of estimates and assumptions in applying certain accounting policies. We utilize current market data, our own historical experience and other information available to us as at the date of the financial statements in arriving at our decisions. We have established procedures to ensure that the process for determining our estimates and assumptions is well controlled and occurs in an appropriate and systematic manner.

Uncertainty is inherent in the use of estimates and assumptions and, as a result, actual results may vary significantly from management's estimates. Uncertainty arises, in part, from the use of historical experience and data at a point in time to establish our assumptions. While this data may be the most reliable basis available on which to base our assumptions, economic events may occur subsequently that render previous assumptions invalid and cause a material change to actual results.



Areas where management has made significant use of estimates and exercised judgment are discussed below.

Estimates

Note 4 – Loans and Allowance for Credit Losses

The allowance for losses on loans, loan commitments and loan guarantees represents management's best estimate of expected credit losses (ECL). These estimates are reviewed periodically during the year and in detail as at the date of the financial statements.

The purpose of the allowance is to provide an estimate of expected credit losses inherent in the loan portfolio. Estimation is inherent in the assessment of forward-looking probabilities of default, loss severity in the event of default (also referred to as loss given default), review of credit quality and the value of any collateral. Management also considers the impact of forward-looking macroeconomic factors including current and future economic events, industry trends and risk concentrations on the portfolio and the required allowance.

Allowances are established on an individual basis for loans, loan commitments and loan guarantees that management has determined to be impaired and/or for which losses have been incurred. When an obligor is considered impaired, we reduce the carrying value of the loan to its net realizable value. Management is required to make a number of estimates including the timing and amount of future cash flows and the residual values of the underlying collateral.

Note 6 – Assets Held for Sale

When assets are returned to us as a result of default under the related obligors' loan agreements, they are measured at the lower of their carrying amount and fair value less costs to sell. At each reporting period, we estimate the recoverable amount of these assets by obtaining market values from an independent appraiser supplemented by additional current market data and other information available to us. Any difference between the carrying value and fair value less cost to sell is recorded as an impairment in other (income) expenses.

Note 15 – Premium and Claims Liabilities

The premium and claims liabilities are based on our estimate of future claims under the terms and conditions of our insurance policies. The actuarial valuation uses simulation techniques and is based on assumptions relevant to the insurance products and is derived in conjunction with our own experience. The actuarial calculation of the premium and claims liabilities uses key management assumptions for frequency of claims, severity of loss, future claim development, administrative expenses, relevant discount rates and margins for adverse deviations.

Note 21 – Fair Value of Financial Instruments

The majority of financial instruments are recognized on our Consolidated Statement of Financial Position at their fair value. These financial instruments include marketable securities, recoverable insurance claims, derivative instruments, investments and loans payable designated at fair value through profit or loss. Fair value is defined as the price that would be received to sell an asset or paid to transfer a liability in an orderly transaction between market participants at the measurement date.

Our financial instruments are categorized into one of three levels based on whether the techniques employed to value the instruments use observable or unobservable market inputs. Financial instruments categorized as Level 1 are valued using quoted market prices, thus minimal estimation is required. Those instruments categorized as Level 2 and 3 require the use of greater estimation and judgment, and level 3 instruments include inputs that are not based on observable market data.

Note 31 – Retirement Benefit Plans

We maintain two pension plans with defined benefit and defined contribution components, and other post-retirement benefit plans including a retiring allowance plan and life insurance, health and dental care benefits. IFRS requires that management measure the plans' defined benefit obligations and annual costs using assumptions that are long-term in nature and reflect our best estimates. We review key assumptions on an annual basis with our actuaries using relevant experience, in conjunction with market related data. The key assumptions include expected rates of compensation increase, discount rates, inflation rate, longevity of plan members, and health care costs.

Judgments

Note 4 – Loans and Allowance for Credit Losses

Management judgment is used in the ECL calculation as it pertains to the application of forward-looking information to support future events and historical behaviour patterns in determining the expected life of a financial instrument. Judgment is also used in assessing significant increase in credit risk.

Note 15 – Premium and Claims Liabilities

Judgment is used in selecting the severity of loss, future claim development, frequency of claim, discount rate and the confidence level for adverse deviation in the calculation of our insurance premium and claims liabilities.

Note 21 – Fair Value of Financial Instruments

The categorization of our financial instruments into three fair value hierarchy levels requires judgment. Our policy is to recognize transfers into and out of these levels at the date of the event or change in circumstances that caused the transfer. Quantitative disclosure is provided for all transfers among all levels regardless of their significance.

Financial instruments categorized as Level 2 and 3 require significant judgment in the selection of appropriate discount rates, yield curves and other inputs into our models which may not be based on observable market data.

Note 24 – Structured Entities

A structured entity (SE) is defined as an entity that has been designed so that voting or similar rights are not the dominant factor in deciding who controls the entity, such as when any voting rights relate to administrative tasks only and the relevant activities are directed by means of contractual arrangements. Management exercises judgment in determining whether EDC has control of structured entities. When we have power over an SE and are exposed, or have rights to variable returns from our involvement with an SE and have the ability to affect those returns through our power over the SE, we are considered to control the SE and the SE is consolidated within our financial statements. When the criteria for control are not met, SEs are not consolidated.

Note 31 – Retirement Benefit Plans

The management assumption with the greatest potential impact on our defined benefit obligations is the discount rate. Management judgment is used in the determination of the discount rate, which is set by reference to the yield of a portfolio of high-quality fixed income instruments (rated AA or higher), that match the timing of the expected benefit payments.

CASH AND CASH EQUIVALENTS

Cash and cash equivalents are comprised of cash and short-term highly liquid marketable securities with a term to maturity of 90 days or less from the date of their acquisition, are considered highly liquid, readily convertible to known amounts of cash and are subject to an insignificant risk of change in value. Cash equivalents are included within marketable securities on the Consolidated Statement of Financial Position.

MARKETABLE SECURITIES

We hold marketable securities for liquidity purposes. Our marketable securities are held with creditworthy counterparties that must have a minimum credit rating from an external credit rating agency of A- for all transactions.

Marketable securities held directly by EDC are recorded at fair value through profit or loss to reflect our business model for managing these instruments. Purchases and sales of marketable securities are recorded on the trade date and the transaction costs are expensed as incurred. Interest revenue is recorded in marketable securities revenue in the Consolidated Statement of Comprehensive Income. Realized and unrealized gains and losses on these securities are included in other (income) expenses in the Consolidated Statement of Comprehensive Income.



LOANS RECEIVABLE

Loans receivable are recorded at fair value upon initial recognition and subsequently measured at amortized cost using the effective interest method. Our loans receivable are held in order to collect contractual cash flows which represent payments of principal, interest and fees. They are derecognized when the rights to receive cash flows have expired or we have transferred substantially all the risks and rewards of ownership. A loan payment is considered past due when the obligor has failed to make the payment by the contractual due date.

The effective interest method is a method of calculating the amortized cost of a financial asset and of allocating the interest income over the relevant period in financing and investment revenue in the Consolidated Statement of Comprehensive Income. The effective interest rate is the rate that exactly discounts estimated future cash payments or receipts through the expected life of the financial instrument or, when appropriate, a shorter period, to the net carrying amount of the financial asset. When calculating the effective interest rate, we estimate cash flows considering all contractual terms of the financial instrument (for example, prepayment options) but do not consider future credit losses. The calculation includes all fees paid or received that are an integral part of the effective interest rate, transaction costs and all other premiums or discounts. Deferred loan revenue, which consists of exposure, administration and other upfront fees, is considered an integral part of the effective interest rate and is amortized over the term of the related loan.

While it is generally our intention to hold performing loan assets until maturity, in some cases the loans are sold prior to maturity for risk mitigation purposes. Gains and losses on the sale of performing loans are included in other (income) expenses. Losses on sales of impaired loans are reported in the provision for (reversal of) credit losses.

LOAN GUARANTEES

In the ordinary course of business we issue loan guarantees to cover non-payment of principal, interest and fees due to financial institutions providing loans to Canadian companies or buyers of Canadian goods and services. Loan guarantees are initially recognized in the financial statements at fair value in the liability for loan guarantees. Fair value is determined to be the guarantee fee received. Subsequent to initial recognition, our liability is measured at the higher of the unamortized guarantee fees and the allowance calculated that estimates the loss anticipated to be incurred as a result of satisfying our obligation under that guarantee.

Any change in liability relating to the allowance on loan guarantees is recorded in the Consolidated Statement of Comprehensive Income in the provision for (reversal of) credit losses. Guarantee fees, including deferred guarantee fees, are recognized in the Consolidated Statement of Comprehensive Income on a straight-line basis over the life of the guarantee, as performance obligations are satisfied.

ALLOWANCE FOR CREDIT LOSSES

The allowance for credit losses represents management's best estimate of expected credit losses and is based on the expected credit loss model.

Financial instruments subject to an impairment assessment include loans held at amortized cost. The allowance for credit losses related to loans receivable is presented in the allowance for losses on loans in the Consolidated Statement of Financial Position.

Off-balance sheet items subject to an impairment assessment include loan commitments and loan guarantees. The allowance for credit losses related to loan commitments is presented in the allowance for losses on loan commitments and the allowance for credit losses related to loan guarantees is included in the liability for loan guarantees in the Consolidated Statement of Financial Position.

Changes in the allowance for credit losses as a result of originations, repayments and maturities, changes in risk parameters, remeasurements and modifications are recorded in the provision for (reversal of) credit losses in our Consolidated Statement of Comprehensive Income.

Expected Credit Loss (ECL) Impairment Model

The ECL model applies a three-stage approach to measure the allowance for credit losses. At initial recognition financial instruments are placed in Stage 1. ECLs are measured based on the stage assignment of the financial instrument:

- *Stage 1* – Where there has not been a significant increase in credit risk since origination, the allowance recorded is based on the expected credit losses resulting from defaults over the next 12-months;
- *Stage 2* – Where there has been a significant increase in credit risk since origination, the allowance recorded is based on the ECLs over the remaining lifetime of the financial instrument; and
- *Stage 3* – Where a financial instrument is considered impaired, the allowance recorded is based on the ECLs over the remaining lifetime of the instrument and interest revenue is calculated based on the carrying amount of the instrument, net of the loss allowance, rather than on its gross carrying amount.

Impairment and Write-off of Financial Instruments

Under our definition of default on loans receivable and loan commitments, financial instruments are considered to be in default and placed in Stage 3 when they meet one or both of the following criteria which represent objective evidence of impairment:

- there has been a deterioration in credit quality to the extent that we consider that the obligor is unlikely to pay its credit obligations to us in full; or
- the obligor is past due more than 90 days on any credit obligation to us, as required under IFRS 9.

If there is objective evidence that an impairment loss has occurred on an individual loan or loan commitment, the amount of the loss is measured as the difference between the loan's carrying amount and the present value of any estimated future cash flows discounted at the loan's original effective interest rate. The carrying value of the loan is reduced through the use of an individual allowance.

Thereafter, interest income on individually impaired loans is recognized based on the reduced carrying value of the loan using the original effective interest rate of the loan.

Impaired loan guarantees are identified by applying the same criteria to the underlying loan that is used to assess the impairment of direct loans carried at amortized cost. When the underlying loan is individually assessed to be impaired, it is probable that a call on the guarantee will be made representing an outflow of economic benefits that would be required to settle our obligation under the guarantee. Should there be a cash outflow related to a call on an impaired guarantee, in most cases we would not consider the associated newly originated loan to be a purchase or origination of a credit impaired asset.

Loans and the related allowance for credit losses are written off, either partially or in full, when all collection methods, including the realization of collateral, have been exhausted and no further prospect of recovery is likely.

Loans are returned to performing status when it is likely that contractual payments will continue pursuant to the terms of the loan.

Measurement of ECLs

The ECL calculation along with the stage assignment considers reasonable and supportable information about past events, current conditions and forecasts of future economic events. The estimation and application of forward-looking information, using both internal and external sources of information, requires significant judgment.

The ECL model is a function of the probability of default (PD), loss given default (LGD), and exposure at default (EAD) of a specific obligor or group of obligors with like characteristics such as industry and country classification as well as credit risk rating, discounted to the reporting date using the effective interest rate, or an approximation thereof. PD is modelled based on current and historic data along with relevant forward-looking macroeconomic factors to estimate the likelihood of default over a given time horizon. LGD is an estimate of the percentage of exposure that will be lost if there is a default on a specific obligor. EAD is modelled based on cash flow expectations which include contractual terms as well as forward-looking repayment and draw patterns and represents the outstanding exposure at the time of default.



Forward-Looking Information

ECLs are calculated using forward-looking information determined from reasonable and supportable forecasts of future economic conditions as at the reporting date. The ECL model does not consider every possible scenario but reflects a representative sample of three possible outcomes. The scenarios used are not biased towards extremes, reflect consistency among variables and are probability-weighted.

In addition to a baseline macroeconomic outlook, we also produce two alternative outlooks. These alternative forecasts leverage our country risk and industry analysts in our Economics team to identify and vet key upside and downside scenario possibilities, considering their impacts and probability of occurrence. The scenarios are reviewed quarterly for ongoing relevance.

The macroeconomic variables considered in the determination of the scenarios have been established to be key drivers of a global macroeconomic outlook and influential to EDC's loan portfolio and include, but are not limited to, gross domestic product, commodity prices, equity indices, bond yields and unemployment rates. The macroeconomic variables are applied in the ECL model based on the industry classification for the corporate portfolio, and based on the country for sovereign loans. We also assess the extent to which these variables may not reflect recent economic events that may result in credit deterioration. In these cases we will estimate the potential impact on our allowances and apply market overlays to specific industries or other exposure categories that we deem appropriate.

Significant Increase in Credit Risk

At each reporting date, an assessment of whether a significant increase in credit risk has taken place since the initial recognition of the financial instrument is performed. The assessment, which does not use the low credit risk exemption allowed under IFRS 9, requires significant judgment and considers the following factors:

- a threshold based on a relative change in the probability of default for the remaining expected life of the instrument relative to the corresponding probability of default at origination;
- qualitative information available as at the reporting date; and
- days past due.

Any exposure that is 30 days past due is placed in Stage 2. Any exposure that is 90 days past due is considered impaired and placed in Stage 3.

Assets can move in both directions through the stages of the impairment model. If, in a subsequent period, the credit quality improves for an instrument in Stage 2 such that the increase in credit risk since initial recognition is no longer considered significant, the instrument will move to Stage 1 and the loss allowance shall revert to being recognized based on the 12-month expected credit losses.

Modifications

In situations where a borrower experiences financial difficulty, we may grant certain modifications to the terms and conditions of a loan. An assessment is done to determine if the loan should be derecognized. If the modification does not result in derecognition, the date of origination continues to be used to assess significant increase in credit risk. If the modification results in derecognition, a new loan is recognized based on the new contractual terms and is placed in Stage 1. Loans that are credit-impaired upon origination are placed in Stage 3, and the lifetime ECLs are reflected in the initial fair value. In subsequent reporting periods, we recognize only the cumulative changes in the lifetime ECLs since initial recognition as an allowance for credit losses. Changes in ECLs are recognized in the provision for (reversal of) credit losses on the Consolidated Statement of Comprehensive Income.

The Paris Club is an international forum of sovereign creditors, including Canada, who agree to formally reschedule sovereign borrowers' debt when they are experiencing financial difficulties and are unable to meet their obligations. Sovereign loans that are considered in default by the Paris Club are classified as individually impaired. Consistent with the terms of Paris Club rescheduling agreements, contractual interest maturities for individually impaired sovereign loans are included in gross loans receivable.

FORECLOSED ASSETS

Assets that are returned to us⁽¹⁾ because of default under loan agreements are classified as held for use or held for sale according to management's intention. The assets are recorded initially at fair value less costs to sell, when applicable, and are included in assets held for sale on the Consolidated Statement of Financial Position. Any write-downs at recognition are reported in the provision for (reversal of) credit losses and any gains are recorded in other (income) expenses. Subsequent impairment losses or reversals of impairment losses are determined as the difference between the carrying amount and the recoverable amount and are recorded in other (income) expenses for the held-for-sale portfolio and in leasing and financing-related expenses for the held-for-use portfolio. We determine fair value based on market prices obtained from an independent appraiser along with current market data and other information available to us.

INVESTMENTS

Investments are comprised of direct investments that we hold in private and public companies and investments in private equity funds. Purchases and sales of these investments are recorded on a trade-date basis and are measured at fair value. Subsequent changes in fair value and any realized gains and losses are recorded in other (income) expenses. Transaction costs are expensed as incurred and included within leasing and financing-related expenses.

LEASES

At the inception of a contract, as lessee, we assess whether the contract is, or contains, a lease. A lease is defined as a contract, or part of a contract, that conveys the right to use an asset for a period of time in exchange for consideration. In our assessment of whether a contract conveys the right to use an asset, we consider whether EDC has:

- access to a physically identifiable asset either explicitly or implicitly within the contract;
- the right to obtain substantially all of the economic benefits from use of the identified asset; and
- the right to direct the use of the identified asset.

We recognize right-of-use assets and lease liabilities at the lease commencement date. At initial recognition, right-of-use assets are measured at cost and are subsequently depreciated using the straight-line method from the commencement date to the end of the lease term. In addition, right-of-use assets are reviewed annually for indications of impairment. If indications exist, the carrying value is analyzed to determine whether it is fully recoverable. An impairment loss is recognized when an asset's carrying amount exceeds its recoverable amount. An impairment loss is recorded in administrative expenses to write down the carrying value to recoverable amount.

Our right-of-use assets have three classes of underlying assets: head office building, other office space and computer hardware. We account for lease components and non-lease components separately for each of our asset classes. We do not recognize right-of-use assets and lease liabilities for short-term leases that have a lease term of 12 months or less or are of a low value. Lease payments associated with these leases are recognized as an expense as they are incurred.

Lease liabilities are initially measured at the present value of lease payments and discounted using the interest rate implicit in the lease or, if not available, EDC's incremental borrowing rate. Subsequently, the lease liability is measured at amortized cost using the effective interest rate method. It is remeasured when there is a change in future lease payments arising from a change to the term of the lease. When a lease is remeasured, a corresponding adjustment is also made to the carrying amount of the right-of-use asset or is recognized as a gain or loss in other (income) expense if the carrying amount of the right-of-use asset is nil.

⁽¹⁾ All aircraft returned to us for which the equity interest in the leveraged lease structure has been foreclosed have been registered with a number of trusts of which we are exposed, or have rights to variable returns from our involvement with a structured entity and have the ability to affect those returns through our decision-making power over the structured entity.



PROPERTY, PLANT AND EQUIPMENT

Property, plant and equipment are carried at cost less accumulated depreciation and impairment losses. Depreciation is charged on a straight-line basis over the estimated useful lives of the assets or the term of the relevant lease. The estimated useful lives and depreciation methods are reviewed at the end of each year, with the effect of any changes in estimate being accounted for on a prospective basis. The useful life used in the calculation of depreciation for furniture and equipment is five years and varies from three to five years for computer hardware. Leasehold improvements are depreciated over the shorter of the term of the respective lease or the useful economic life of the leasehold improvement. Depreciation is recorded in administrative expenses.

The gain or loss arising from the disposal or retirement of an item of property, plant and equipment is determined as the difference between the sale proceeds and the carrying amount of the asset and is recognized in other (income) expenses.

INTANGIBLE ASSETS

Intangible assets represent internally developed and purchased computer software. They are carried at cost less accumulated amortization and impairment losses. Amortization is charged on a straight-line basis over the estimated useful lives of the intangible assets, which currently vary from five to ten years. The estimated useful lives and amortization methods are reviewed at the end of each year, with the effect of any changes in estimate being accounted for on a prospective basis. Amortization is recorded in administrative expenses.

Intangible assets are reviewed annually for indications of impairment. If indications exist, the carrying value is analyzed to determine whether it is fully recoverable. An impairment loss is recorded in administrative expenses to write down the carrying value to recoverable amount.

INSURANCE PREMIUMS

Insurance contracts are those contracts where we have accepted significant insurance risk by agreeing to compensate the policyholders if they are adversely affected by a specified uncertain future event.

Premiums on insurance policies are deferred and recognized in income over the term of the policy on a straight-line basis.

PREMIUM AND CLAIMS LIABILITIES

Premium and claims liabilities represent our estimate of future claims under the terms and conditions of our insurance policies. An actuarial valuation, which conforms to the recommendations of the Canadian Institute of Actuaries, is performed to establish our liability. The valuation uses simulation techniques and assumptions derived from our own experience (frequency of claims, severity of losses, future claim development, administrative expenses, relevant discount rates and margins for adverse deviations) relevant to our insurance products. The liability is comprised of reported claims, incurred but not reported claims (IBNR), and management's best estimate of the net present value of net future claims under existing policies.

Deferred insurance premiums are the portion of premiums received on policies written that relate to risk periods after the current fiscal year and are amortized over the remaining term of the related policies. To the extent that our deferred premiums are not sufficient to cover our liability, an allowance is established. Adjustments to the liability are reflected in claims-related expenses. Future developments may result in claims which are materially different than the allowance provided.

Premium and claims liabilities on our Consolidated Statement of Financial Position include both the deferred premiums and the allowance for claims on insurance.

Other claims related expenses are charged to profit or loss as they are incurred. These costs arise from events that have occurred up to the balance sheet date.

REINSURANCE

In the ordinary course of business, we assume and cede reinsurance with other insurance companies. We cede reinsurance to mitigate our risk. The ceding arrangements provide greater diversification of the business and minimize the net loss potential arising from large risks. Ceded reinsurance contracts do not relieve us of our obligations to the insured but they do provide for the recovery of claims arising from the liabilities ceded. We also assume reinsurance and thereby take on risk. Ceded reinsurance premiums, unearned premiums ceded to reinsurers and recoveries and estimates of recoveries on claims are recorded in the same manner as if the reinsurance were considered direct business. Amounts recoverable from the reinsurers are estimated in a manner consistent with the claims liability associated with the reinsured policy and are recorded within reinsurers' share of premium and claims liabilities. Reinsurance assets or liabilities are derecognized when the contractual rights are extinguished or expire.

Reinsurance assets are reviewed for impairment at each reporting date or more frequently when an indication of impairment arises during the reporting year. Impairment occurs when there is objective evidence as a result of an event that occurred after initial recognition of the reinsurance asset that we may not receive all outstanding amounts due under the terms of the contract and the event has a reliably measurable impact on the amounts that we will receive from the reinsurer.

DERIVATIVE INSTRUMENTS

Derivative instruments (derivatives) are financial contracts that derive their value from underlying changes in interest rates, foreign exchange rates, equities, credit spreads or other financial measures. Derivatives that we may use to manage interest rate risk, foreign exchange risk and credit risk include interest rate swaps, cross currency interest rate swaps, foreign exchange swaps, foreign exchange forwards and credit default swaps. We hold a portfolio of derivatives which we use to manage the foreign exchange risk associated with using our capital to fund our largely U.S. dollar-denominated operations. Derivatives are only contracted with creditworthy counterparties in accordance with policies established by our Global Risk Management Group and approved by our Board of Directors.

We do not apply hedge accounting to our derivatives. Derivatives are accounted for at fair value and are recognized on the Consolidated Statement of Financial Position upon the trade date and are removed from the Consolidated Statement of Financial Position when they expire or are terminated. Derivatives with a positive fair value are reported as derivative instruments within assets, while derivatives with a negative fair value are reported as derivative instruments within liabilities. All interest income and expenses associated with our derivatives are included in interest expense or marketable securities revenue, while realized and unrealized gains and losses are recorded in other (income) expenses.

Long-term currency swaps are considered part of the financing cash flows on the Consolidated Statement of Cash Flows because these swaps are used to manage our funding. We issue debt in a number of currencies for diversification purposes. We then use currency swaps to bring those funds into the currency required to disburse on our loans. All other swaps are included in operating cash flows as they are used to alter the interest rate risk profile of the portfolio.

LOANS PAYABLE

We have designated the majority of our debt, including structured debt, at fair value through profit or loss in order to obtain the same accounting treatment as the related derivatives. In general, these derivatives are transacted to manage interest and foreign exchange rate risk on the related debt. Contractual interest on our debt is recorded in interest expense. Any change in fair value on these instruments is recorded in other (income) expenses.

Our fixed rate bonds which do not have derivatives associated with them are carried at amortized cost with interest recorded in interest expense using the effective interest rate method.

The transaction costs related to our loans payable at amortized cost are capitalized and amortized in interest expense using the effective interest rate method over the life of the instrument.

ACCOUNTS PAYABLE AND OTHER CREDITS

Accounts payable and other credits are carried at amortized cost.



TRANSLATION OF FOREIGN CURRENCY

All monetary assets and liabilities denominated in foreign currencies are translated into Canadian dollars, our functional and presentation currency, at exchange rates prevailing at the end of the year. Income and expenses are translated at either daily or monthly average exchange rates in effect during the year. Exchange gains and losses resulting from the translation of foreign currency balances and transactions are included in other (income) expenses.

Foreign currency non-monetary items that are measured at historical cost are translated at historical rates. Foreign currency non-monetary items measured at fair value are translated using the rate of exchange at the date the fair value was determined.

RETIREMENT BENEFIT PLANS

We maintain two pension plans with defined benefit and defined contribution components, and other post-retirement benefit plans including a retiring allowance plan and life insurance, health and dental care benefits. Defined benefit pensions are only available for employees hired prior to January 1, 2012.

Accrued benefit obligations are actuarially determined using the projected unit credit method, which incorporates management's best estimate of future salary levels, retirement ages of employees and other actuarial factors.

The defined benefit expense is included in administrative expenses and consists of the actuarially determined retirement benefits for the current year's service and imputed interest on projected benefit obligations net of interest earned on any plan assets over the average remaining working lives of employees expected to receive benefits under the plans.

Remeasurement gains and losses arise from the difference between the actual rate of return and the discount rate on plan assets for that period and from changes in actuarial assumptions used to determine the accrued benefit obligation. These gains or losses are recognized in other comprehensive income and are transferred to retained earnings.

The defined contribution expense consists of contributions paid in the period for service rendered and an accrual of unpaid but earned contributions and is included in administrative expenses on the Consolidated Statement of Comprehensive Income.

3. Marketable Securities

We maintain liquidity sufficient to meet general operating requirements, to maintain stability in our short-term borrowing program and to provide flexibility in achieving corporate objectives. Consistent with our business model for managing these instruments, they are carried at fair value through profit or loss.

The following table provides a breakdown of our marketable securities issued or guaranteed by:

<i>(in millions of Canadian dollars)</i>	Dec. 31, 2022	Dec. 31, 2021
U.S. government	6,008	6,748
Financial institutions	2,672	1,508
Other governments	724	826
Canadian governments	135	–
Total marketable securities	\$ 9,539	\$ 9,082

The following table provides a breakdown of our marketable securities by remaining term to maturity:

<i>(in millions of Canadian dollars)</i>	Dec. 31, 2022				Dec. 31, 2021			
	Remaining term to maturity				Remaining term to maturity			
	Under 1 year	1 to 3 years	Over 3 years	Total	Under 1 year	1 to 3 years	Over 3 years	Total
Short-term instruments*	5,075	–	–	5,075	4,170	–	–	4,170
Long-term fixed rate securities	201	1,760	2,503	4,464	111	2,166	2,635	4,912
Total marketable securities	\$ 5,276	\$ 1,760	\$ 2,503	\$ 9,539	\$ 4,281	\$ 2,166	\$ 2,635	\$ 9,082

* Includes securities considered cash equivalents for the Consolidated Statement of Cash Flows of \$2,780 million (2021 – \$1,486 million).

4. Loans and Allowance for Credit Losses

LOANS RECEIVABLE

The following table presents the various components of loans receivable and the contractual maturity and related contractual effective yields for gross loans receivable. The yields are computed on a weighted average basis by amount and term. Floating rate yields are expressed as spreads over base rates which consist mainly of LIBOR and risk-free rates (RFR) for U.S. dollars and the Canadian Dollar Offered Rate (CDOR) for Canadian dollars.

(in millions of Canadian dollars)		Dec. 31, 2022					Dec. 31, 2021				
		Floating \$	Spread to maturity %	Fixed \$	Yield to maturity %	Total \$	Floating \$	Spread to maturity %	Fixed \$	Yield to maturity %	Total \$
Performing:											
	Past due	92	1.87	77	4.71	169 ⁽¹⁾	43	2.68	91	4.44	134 ⁽¹⁾
	2022	–	–	–	–	–	4,926	2.20	1,165	4.28	6,091
	2023	5,701	2.61	1,715	4.24	7,416	6,533	2.26	1,343	3.78	7,876
	2024	5,438	2.85	1,324	4.10	6,762	5,453	2.30	1,125	3.47	6,578
	2025	5,222	2.44	1,513	3.83	6,735	4,062	2.21	1,336	3.44	5,398
	2026	5,690	2.66	799	3.92	6,489	3,956	2.27	759	3.46	4,715
	2027	6,814	2.17	1,052	3.62	7,866	2,916	2.05	839	3.20	3,755
	2028 – 2032	9,178	2.44	4,458	3.57	13,636	5,526	2.05	3,346	2.61	8,872
	2033 and beyond	1,233	1.42	2,210	3.23	3,443	1,029	1.66	1,954	3.07	2,983
Performing gross loans receivable		39,368	2.35	13,148	3.51	52,516	34,444	2.10	11,958	3.07	46,402
Impaired		770	4.01	907	2.77	1,677 ⁽²⁾	888	3.99	1,147	5.31	2,035 ⁽²⁾
Gross loans receivable		\$ 40,138		\$ 14,055		\$ 54,193	\$ 35,332		\$ 13,105		\$ 48,437
Accrued interest and fees receivable						312					156
Deferred loan revenue and other						(323)					(248)
Loans receivable						\$ 54,182					\$ 48,345

⁽¹⁾ \$99 million of receivables (2021 – \$63 million) were less than one month past due.

⁽²⁾ Includes one originated credit-impaired loan of \$188 million (2021 – two loans of \$230 million).

At the end of 2022, the floating rate performing gross loans receivable yield was 6.18% (2021 – 2.46%) with an average term to reset of 96 days (2021 – 98 days).

Sovereign loans represented 1.8% of total performing gross loans receivable (2021 – 2.3%).

During the year, \$10.8 billion (2021 – \$1.5 billion) of loans receivable represented loans that used a risk-free rate. For any loans that were transitioned from the LIBOR benchmark to a new interest rate benchmark, we exercised the practical expedient that allows the change in contractual cash flows to be accounted for as an update to the effective interest rate as the modifications were made on an economically equivalent basis and were a direct consequence of interest rate benchmark reform.



We had country risk concentrations as outlined below:

<i>(in millions of Canadian dollars)</i>		Dec. 31, 2022		Dec. 31, 2021	
Country	Performing gross loans receivable	%	Country	Performing gross loans receivable	%
United States	8,217	16	Canada	6,299	13
United Kingdom	6,628	13	United States	6,228	13
Canada	6,540	12	United Kingdom	5,943	13
Chile	6,094	12	Chile	4,305	9
Australia	4,319	8	Australia	3,189	7
Germany	2,594	5	Germany	2,022	4
India	1,865	4	Mexico	2,009	4
Spain	1,789	3	India	1,715	4
Mexico	1,774	3	Spain	1,631	4
China	1,295	2	China	1,178	3
Other	11,401	22	Other	11,883	26
Total	\$ 52,516	100	Total	\$ 46,402	100

Our most significant single counterparty performing gross loans receivable at the end of 2022 were as follows:

- four resources industry obligors totalling \$4,179 million (2021 – four obligors totalling \$3,697 million), three located in Chile and one located in Mongolia;
- three transportation and storage industry obligors totalling \$2,998 million (2021 – five obligors totalling \$4,579 million), one located in the United Kingdom, one located in Canada and one located in Malta;
- two information industry obligors located in the United States totalling \$2,156 million (2021 – none); and
- one finance and insurance industry obligor located in Chile for \$879 million (2021 – one obligor totalling \$759 million).

The following reflects the movement in gross loans receivable during the year:

<i>(in millions of Canadian dollars)</i>	2022	2021
Balance beginning of year	48,437	54,772
Disbursements	20,227	16,196
Principal repayments	(15,409)	(19,832)
New origination due to modification	188	230
Capitalized interest	21	69
Transferred to held for sale	(130)	–
Loans written off	(183)	(93)
Derecognition due to modification	(239)	(571)
Principal recoveries from loan asset sales	(544)	(1,150)
Foreign exchange translation	1,825	(1,184)
Balance end of year	\$ 54,193	\$ 48,437

In 2022, we sold \$553 million (2021 – \$1,163 million) in performing loans to various counterparties for which we recovered \$540 million (2021 – \$1,126 million) and the remaining \$13 million (2021 – \$37 million) was written off. We also sold \$12 million (2021 – \$43 million) in impaired loans for which the recoveries were \$4 million (2021 – \$24 million).

During the year, due to modifications of the contractual terms of loans, we derecognized \$239 million (2021 – \$571 million) of impaired gross loans receivable as well as the specific allowance of \$68 million (2021 – \$344 million). At the time of the originations, the new loans were considered credit-impaired and we recognized the new loans at their credit impaired carrying values of \$188 million (2021 – \$230 million).

INDIVIDUALLY IMPAIRED LOANS RECEIVABLE

The following table shows the carrying amount of loans specifically identified as impaired:

<i>(in millions of Canadian dollars)</i>	Dec. 31, 2022	Dec. 31, 2021
Gross loans receivable		
Commercial	1,668	2,026
Sovereign	9	9
	1,677	2,035
Less: Deferred loan revenue and other	29	14
Individual allowance	701	885
Carrying amount of individually impaired loans	\$ 947	\$ 1,136

The following reflects the movement in individually impaired gross loans receivable during the year:

<i>(in millions of Canadian dollars)</i>	2022	2021
Balance beginning of year	2,035	1,964
Loans classified as impaired	253	619
New origination due to modification	188	230
Disbursements on loans	100	114
Capitalized interest	16	27
Principal repayments	(460)	(216)
Derecognition due to modification	(239)	(571)
Loans written off	(170)	(55)
Transfer to assets held for sale ⁽¹⁾	(130)	-
Loans reinstated to performing ⁽²⁾	(18)	(31)
Principal recoveries from loan sales	(4)	(24)
Foreign exchange translation	106	(22)
Balance end of year	\$ 1,677	\$ 2,035

⁽¹⁾ Refer to Note 6.

⁽²⁾ Includes loans that were made performing following the restructuring of credit agreements.

In 2022, we had \$253 million of loans made impaired (2021 – \$619 million) from six commercial borrowers (2021 – 14 commercial borrowers).

During the year, impaired loans to 44 commercial borrowers totalling \$170 million of principal (2021 – 38 commercial borrowers totalling \$55 million) were written off. These loans were written off after all collection methods had been exhausted and no further prospect of recovery was likely. Control of 15 aircraft held as security on loan agreements was relinquished to us and shares and notes were acquired as a result of several impaired loan settlements. As a result, \$227 million of related loans were removed from our books and replaced with aircraft assets, shares and notes totaling \$130 million which have been or will be sold, loan repayments of \$4 million were recorded, and the remaining loan principal balance of \$93 million was included in loan write-offs.

In 2022, we had \$18 million of loans return to performing status which related to two obligors (2021 – \$31 million of loans related to one obligor).

Interest income recognized on impaired loans was \$50 million in 2022 (2021 – \$50 million).

EXPOSURE BY CREDIT GRADE

The breakdown of our gross loans receivable, loan commitments and loan guarantees by credit grade was as follows:

(in millions of Canadian dollars)	Dec. 31, 2022					Dec. 31, 2021	
	Non-credit-impaired		Credit-impaired	\$	% of total	\$	% of total
	Stage 1	Stage 2	Stage 3				
Gross loans receivable							
Investment grade*	24,097	2,067	–	26,164	48%	19,765	41%
Non-investment grade	18,264	8,088	–	26,352	49%	26,637	55%
Individually impaired	–	–	1,253	1,253	2%	1,805	4%
Originated credit-impaired	–	–	424	424	1%	230	–
Total gross loans receivable	\$ 42,361	\$ 10,155	\$ 1,677	\$ 54,193	100%	\$ 48,437	100%
Loan commitments							
Investment grade*	5,437	145	–	5,582	49%	4,205	40%
Non-investment grade	4,877	886	–	5,763	51%	6,306	60%
Individually impaired	–	–	–	–	–	15	–
Total loan commitments	\$ 10,314	\$ 1,031	\$ –	\$ 11,345	100%	\$ 10,526	100%
Loan guarantees							
Investment grade*	257	55	–	312	7%	307	7%
Non-investment grade	3,143	849	–	3,992	90%	3,976	90%
Individually impaired	–	–	114	114	3%	116	3%
Total loan guarantees	\$ 3,400	\$ 904	\$ 114	\$ 4,418	100%	\$ 4,399	100%

* Investment grade exposure represents obligors with credit ratings of BBB- and above as determined based on our internal credit risk-rating methodology.

We employ a range of policies to mitigate credit risk on our commercial loans which includes obtaining certain forms of security interest. The principal types of security interest are mortgages on equipment (mainly aircraft and rolling stock) and real estate, assignments or pledges on various business assets such as trade receivables, inventory, property, plant and equipment, equity shares and bank accounts. Other principal forms of credit enhancement include guarantees from counterparties with higher credit ratings that may be related to the borrower, such as a parent company.

As at the end of 2022, 15% of our loans receivable exposure was collateralized mainly by aircraft and rolling stock (2021 – 19%). For our aerospace portfolio, we obtain third party assessments of each aircraft's value, when available. The estimated value of our aircraft collateral at the end of 2022 was \$8,693 million (2021 – \$8,807 million) of which \$436 million (2021 – \$663 million) was for our impaired portfolio. For the remainder of our secured portfolio, we rely on the latest available financial statements of the obligor and/or guarantor to estimate the collateral.

Our concentrations of risk are managed by obligor, country and industry. The maximum gross loans receivable exposure to any one obligor at the end of 2022 was \$1,353 million (2021 – \$1,284 million). After consideration of unfunded loan participations and loan default insurance, the maximum net exposure to any one obligor was \$1,353 million (2021 – \$1,284 million).

ALLOWANCE FOR CREDIT LOSSES

The following table shows the gross and net carrying amount of our loans receivable, loan commitments and loan guarantees:

	Dec. 31, 2022			Dec. 31, 2021		
	Gross carrying amount	Allowance for losses	Net carrying amount	Gross carrying amount	Allowance for losses	Net carrying amount
Loans receivable	54,193	1,630	52,563	48,437	1,760	46,677
Loan commitments	11,345	10	11,335	10,526	20	10,506
Loan guarantees	4,418	200	4,218	4,399	130	4,269
Total	\$ 69,956	\$ 1,840	\$ 68,116	\$ 63,362	\$ 1,910	\$ 61,452

The following tables reconcile the opening and closing allowance for credit losses for the year ended December 31, 2022. Reconciling items include the allowance impact due to the following:

- The impact of transfers between stages before any corresponding remeasurement of allowance;
- Remeasurement of allowance as a result of transfers between stages and the impact of any credit risk rating changes, implementation of new models, and changes in model inputs, collateral values and assumptions that did not result in a transfer between stages;
- New originations during the period, which include newly disbursed loans, signed loan commitments, and signed loan guarantees and also include loan assets that were originated due to recognition following a modification. New loan originations in Stage 3 include new loans which result from cash outflows on impaired guarantees or loan commitments. We do not consider these assets to be originated credit impaired assets;
- Net disbursements or repayments and maturities, which include loan disbursements and repayments on existing loans receivable, loan commitments and loan guarantees;
- Write-off of assets deemed uncollectible;
- Loan assets that were derecognized due to a modification; and
- Effect of changes in foreign exchange rates.

Changes to the allowance for losses on loans receivable, loan commitments and loan guarantees for the year ended December 31, 2022 were as follows:

<i>(in millions of Canadian dollars)</i>	Stage 1	Stage 2	Stage 3	2022 Total
Allowance for losses on loans receivable				
Balance beginning of year	54	821	885	1,760
Provision for (reversal of) credit losses				
Transfer to stage 1	317	(317)	-	-
Transfer to stage 2	(51)	60	(9)	-
Transfer to stage 3	-	(25)	25	-
Remeasurements	(131)	218	138	225
New originations	86	78	35	199
Net repayments and maturities	(36)	(173)	(204)	(413)
Total provision for (reversal of) credit losses	185	(159)	(15)	11
Write-offs	-	(1)	(143)	(144)
Modification resulting in derecognition	-	-	(68)	(68)
Foreign exchange translation	7	22	42	71
Balance end of year	246	683	701	1,630
Stage 3 allowance consists of:				
Impairment loss on originated credit-impaired loan			16	
Individual allowance			685	
Total stage 3 allowance			701	
Allowance for losses on loan commitments				
Balance beginning of year	2	12	6	20
Provision for (reversal of) credit losses				
Transfer to stage 1	8	(8)	-	-
Transfer to stage 2	(4)	4	-	-
Remeasurements	(6)	(6)	6	(6)
New originations	11	3	-	14
Net repayments and maturities	(1)	(5)	(12)	(18)
Total provision for (reversal of) credit losses	8	(12)	(6)	(10)
Balance end of year	10	-	-	10
Allowance for losses on loan guarantees				
Balance beginning of year	30	19	81	130
Provision for (reversal of) credit losses				
Transfer to stage 1	61	(61)	-	-
Transfer to stage 2	(50)	53	(3)	-
Transfer to stage 3	(1)	(2)	3	-
Remeasurements	(55)	30	43	18
New originations	115	-	-	115
Net repayments and maturities	(19)	(1)	(45)	(65)
Total provision for (reversal of) credit losses	51	19	(2)	68
Foreign exchange translation	1	1	-	2
Balance end of year	82	39	79	200
Total allowance for losses on loans receivable, loan commitments and loan guarantees	\$ 338	\$ 722	\$ 780	\$ 1,840

Changes to the allowance for losses on loans receivable, loan commitments and loan guarantees for the year ended December 31, 2021 were as follows:

<i>(in millions of Canadian dollars)</i>	Stage 1	Stage 2	Stage 3	2021 Total
Allowance for losses on loans receivable				
Balance beginning of year	132	1,244	1,254	2,630
Provision for (reversal of) credit losses				
Transfer to stage 1	115	(115)	–	–
Transfer to stage 2	(44)	47	(3)	–
Transfer to stage 3	–	(40)	40	–
Remeasurements*	(149)	(99)	74	(174)
New originations	30	117	48	195
Net repayments and maturities	(25)	(297)	(134)	(456)
Total provision for (reversal of) credit losses	(73)	(387)	25	(435)
Write-offs	(1)	(1)	(42)	(44)
Modification resulting in derecognition	–	–	(344)	(344)
Foreign exchange translation	(4)	(35)	(8)	(47)
Balance end of year	54	821	885	1,760
Allowance for losses on loan commitments				
Balance beginning of year	–	32	18	50
Provision for (reversal of) credit losses				
Transfer to stage 1	4	(4)	–	–
Transfer to stage 2	(1)	1	–	–
Remeasurements*	(6)	(18)	(3)	(27)
New originations	6	2	–	8
Net repayments and maturities	(1)	(1)	(9)	(11)
Total provision for (reversal of) credit losses	2	(20)	(12)	(30)
Balance end of year	2	12	6	20
Allowance for losses on loan guarantees				
Balance beginning of year	59	82	79	220
Provision for (reversal of) credit losses				
Transfer to stage 1	58	(58)	–	–
Transfer to stage 2	(47)	47	–	–
Transfer to stage 3	–	(2)	2	–
Remeasurements*	(137)	(45)	31	(151)
New originations	89	–	–	89
Net repayments and maturities	8	(4)	(31)	(27)
Total provision for (reversal of) credit losses	(29)	(62)	2	(89)
Foreign exchange translation	–	(1)	–	(1)
Balance end of year	30	19	81	130
Total allowance for losses on loans receivable, loan commitments and loan guarantees	\$ 86	\$ 852	\$ 972	\$ 1,910

* Remeasurements includes the impact of the implementation of new and updates to LGD models, as well as the impact of the removal of the 2020 COVID-19 adjustments to model produced risk ratings.



5. Investments

(in millions of Canadian dollars)	Dec. 31, 2022		Dec. 31, 2021	
	Cost	Fair value	Cost	Fair value
Direct investments				
Equity interests	895	887	577	751
Loans and debt securities	210	202	134	140
	1,105	1,089	711	891
Fund investments	1,101	1,682	1,078	1,816
Total	\$ 2,206	\$ 2,771	\$ 1,789	\$ 2,707

6. Assets Held for Sale

Assets in our held-for-sale portfolio represent assets returned to us as a result of default under loan agreements.

(in millions of Canadian dollars)	Dec. 31, 2022	Dec. 31, 2021
	Carrying amount	Carrying amount
Airplanes	41	–
Engines	20	–
Shares and notes	19	–
Helicopter	–	1
Total assets held for sale	\$ 80	\$ 1

Refer to note 4 for additional details.

At the beginning of 2022, the portfolio consisted of one Sikorsky S76C++ helicopter with a carrying value of \$1 million. During the year, we repossessed one Global 6000 aircraft valued at \$32 million, 12 CRJ1000 aircraft valued at \$65 million and two Q400 aircraft valued at \$14 million. We subsequently sold the Sikorsky S76C++, the Global 6000 and two CRJ1000s at their respective carrying values. We also sold components from five CRJ1000 aircraft which consisted of two engines and five airframes. No gains or losses resulted from these component sales. There were two Q400s, five CRJ1000s and eight CRJ1000 engines remaining in the portfolio at the end of the year. We expect to sell all remaining aircraft and engines in the portfolio in 2023.

At each reporting period and upon reclassification to a new portfolio, we assess whether there is any indication of impairment of our aircraft given current market conditions such as recent aircraft sales, leasing rates and other market conditions. In 2022, the values of the aircraft were assessed for impairment and no adjustments were required (2021 – nil).

In addition to repossessing aircraft, we also acquired rights to shares and notes valued at \$19 million as a result of a restructuring agreement on impaired loans. We entered into third-party agreements to sell the shares and notes in 2022 and completed the sales in early 2023.

7. Other Assets

(in millions of Canadian dollars)	Dec. 31, 2022	Dec. 31, 2021
Insurance premiums receivable	35	37
Recoverable insurance claims	23	27
Prepaid expenses	18	15
Recoverable expenses related to impaired obligors	15	5
Canada Account receivable	10	–
Other	99	120
Total	\$ 200	\$ 204

Canada Account receivable primarily represents costs incurred by EDC for the CEBA program that are recoverable from the Government of Canada. Refer to Note 11 for prior year payable balance due to timing of remittances and repayments.

8. Property, Plant and Equipment

During the year, changes to property, plant and equipment were as follows:

(in millions of Canadian dollars)	2022				2021			
	Computer hardware	Furniture and equipment	Leasehold improvements	Total	Computer hardware	Furniture and equipment	Leasehold improvements	Total
Cost:								
Balance beginning of year	33	21	60	114	27	21	59	107
Additions	2	–	1	3	6	–	1	7
Balance end of year	35	21	61	117	33	21	60	114
Accumulated depreciation:								
Balance beginning of year	(26)	(20)	(24)	(70)	(26)	(20)	(21)	(67)
Depreciation expense	(3)	(1)	(3)	(7)	–	–	(3)	(3)
Balance end of year	(29)	(21)	(27)	(77)	(26)	(20)	(24)	(70)
Carrying amount	\$ 6	\$ –	\$ 34	\$ 40	\$ 7	\$ 1	\$ 36	\$ 44

9. Intangible Assets

During the year, changes to intangible assets were as follows:

(in millions of Canadian dollars)	2022			2021		
	Internally developed software	Acquired computer software	Total	Internally developed software	Acquired computer software	Total
Cost:						
Balance beginning of year	177	129	306	177	131	308
Additions	–	–	–	–	1	1
Disposals	–	(2)	(2)	–	(3)	(3)
Balance end of year	177	127	304	177	129	306
Accumulated amortization:						
Balance beginning of year	(131)	(112)	(243)	(123)	(101)	(224)
Amortization expense	(8)	(9)	(17)	(8)	(12)	(20)
Disposals	–	2	2	–	1	1
Balance end of year	(139)	(119)	(258)	(131)	(112)	(243)
Carrying amount	\$ 38	\$ 8	\$ 46	\$ 46	\$ 17	\$ 63



10. Right-of-Use Assets and Lease Liabilities

RIGHT-OF-USE ASSETS

We have leases for our head office building, other office space and computer hardware. We have included extension options in the measurement of our lease liabilities when it is reasonably certain we will exercise the extension option. During the year, changes to our right-of-use assets were as follows:

(in millions of Canadian dollars)	2022				2021			
	Head office building	Office space	Computer hardware	Total	Head office building	Office space	Computer hardware	Total
Balance beginning of year	105	21	1	127	112	10	1	123
Additions	–	1	–	1	–	14	–	14
Depreciation	(7)	(3)	–	(10)	(7)	(3)	–	(10)
Balance end of year	\$ 98	\$ 19	\$ 1	\$ 118	\$ 105	\$ 21	\$ 1	\$ 127

LEASE LIABILITIES

The following table presents the maturity analysis of the contractual undiscounted cash flows for lease liabilities as at December 31, 2022:

(in millions of Canadian dollars)	2022	2021
Under 1 year	14	14
1 to 5 years	68	69
Over 5 years	119	131
Total undiscounted lease liabilities	201	214
Total lease liabilities end of year	\$ 152	\$ 158

Future contractual commitments related to non-lease components, low value and short-term leases at the end of 2022 were \$207 million (2021 – \$225 million).

11. Accounts Payable and Other Credits

(in millions of Canadian dollars)	Dec. 31, 2022	Dec. 31, 2021
Employee benefit accruals	66	64
Trade payables and accruals	48	48
Loan security deposits	15	7
Deferred revenue	11	13
Reinsurance premiums payable	2	5
Canada Account payable	–	32
Other payables and other credits	12	16
Total	\$ 154	\$ 185

Deferred revenue represents the unrecognized portion of donor contributions received by EDC's subsidiary FinDev Canada to cover the administration costs of a program on behalf of a related party. Refer to Note 32 for further details about the deferred revenue.

Canada Account payable primarily represents the amount of cash repayments (principal and interest) received by EDC from borrowers on Canada Account loans which were not yet remitted at year-end to the Consolidated Revenue Fund. The costs incurred related to the program are recoverable from Canada Account. Refer to Note 7 for current year receivable balance due to timing of remittances and recoveries.

12. Debt Instruments

We issue debt instruments in global capital markets. Short-term payables consist of commercial paper and other short-term debt related instruments that we issue with maturities under one year. Long-term payables represent bonds and other long-term instruments which we issue in U.S. dollars and other currencies with maturities exceeding one year. We use derivative instruments to manage interest rate risk and foreign exchange risk, and also for asset liability management purposes. Refer to Note 13 for further details on our derivative instruments.

EDC is wholly owned by the Government of Canada and our obligations are backed by the full faith and credit of the Government of Canada which holds a AAA credit rating. Therefore, there is no significant change in the value of our debt instruments that can be attributed to changes in our own credit risk.

LOANS PAYABLE

The components of loans payable (excluding derivatives) were as follows:

(in millions of Canadian dollars)	Dec. 31, 2022			Dec. 31, 2021		
	Designated at fair value through profit or loss	At amortized cost	Total	Designated at fair value through profit or loss	At amortized cost	Total
Short-term payables	13,753	–	13,753	6,265	–	6,265
Long-term payables						
due within current year*	12,716	306	13,022	9,231	4,167	13,398
over one year	23,793	–	23,793	23,736	126	23,862
Total long-term payables	36,509	306	36,815	32,967	4,293	37,260
Total	\$ 50,262	\$ 306	\$ 50,568	\$ 39,232	\$ 4,293	\$ 43,525

* Includes accrued interest of \$2 million (2021 – \$22 million).

The amount to be paid at maturity on the debt designated at fair value through profit or loss was \$51,273 million (2021 – \$38,804 million), \$1,011 million more than the December 2022 fair value (2021 – \$428 million).

In 2022, there were foreign exchange translation losses of \$134 million (2021 – gains of \$76 million) on our loans payable designated at amortized cost. The foreign exchange exposure of these loans payable is managed as part of our foreign currency risk management together with all other assets and liabilities. Refer to Note 29 for our consolidated foreign exchange translation (gain) loss.

The following table notes the changes in loans payable arising from financing activities:

(in millions of Canadian dollars)	2022			2021		
	Short-term loans payable	Long-term loans payable	Total	Short-term loans payable	Long-term loans payable	Total
Balance beginning of year	6,265	37,260	43,525	2,781	42,239	45,020
Net cash flows	6,697	(56)	6,641	3,497	(3,602)	(105)
Non-cash changes						
Foreign exchange translation	702	1,105	1,807	(12)	(906)	(918)
Fair value changes	3	(1,561)	(1,558)	–	(509)	(509)
Change in accrued interest	86	67	153	(1)	38	37
Balance end of year	\$ 13,753	\$ 36,815	\$ 50,568	\$ 6,265	\$ 37,260	\$ 43,525



STRUCTURED NOTES

We hold structured notes as part of our funding program. Structured notes are hybrid securities that combine debt instruments with derivative components. Internal guidelines limit the authorized instruments that may be used in our funding. Currently authorized and held structured notes are limited to callable/extendible notes with a carrying value of \$1,681 million (2021 – \$1,710 million).

We have executed swap contracts to mitigate interest rate risk and foreign exchange risk on these structured borrowings. These contracts ensure that we will receive proceeds from the swap to meet the requirements of settling and servicing the debt obligation. In swapping out of the underlying bond issue, the potential interest rate risk has been converted to credit risk. Credit exposure on derivative instruments is further discussed in Note 13.

13. Derivative Instruments

We use a variety of derivative instruments to manage costs, returns and levels of financial risk associated with our funding, investment and risk management activities.

We currently use, but are not limited to, the following types of instruments:

Interest rate swaps – transactions in which two parties exchange interest flows on a specified notional amount on predetermined dates for a specified period of time using agreed-upon fixed or floating rates of interest. Notional amounts upon which interest payments/receipts are based are not exchanged.

Cross currency interest rate swaps – transactions in which two parties exchange currencies at inception and at maturity, as well as interest flows on the exchanged amounts on predetermined dates for a specified period of time using agreed-upon fixed or floating rates of interest.

Foreign exchange swaps – commitments to exchange cash flows in different currencies where there are two exchanges; the first is made at the spot rate at inception and the second at a predetermined rate on a specified date in the future.

Foreign exchange forwards – commitments to exchange cash flows in different currencies, for which the foreign exchange rate is predetermined, at a specified date in the future.

In any transaction there is a potential for loss. This loss potential is represented by (1) credit risk, wherein a counterparty fails to perform an obligation as agreed upon, causing the other party to incur a financial loss, and (2) interest rate risk and foreign exchange risk, where an exposure exists as a result of changes in interest rates or foreign exchange rates.

We manage our exposure to interest rate risk and foreign exchange risk using limits developed in consultation with the Department of Finance and approved by our Board of Directors. Both our internal policies and guidelines (established in our Global Risk Management Group and approved by our Board of Directors) and those set by the Minister of Finance limit our use of derivatives. We do not use derivative instruments for speculative purposes.

We manage our exposure to derivative counterparty credit risk by contracting only with creditworthy counterparties, establishing International Swaps and Derivatives Association (ISDA) master netting agreements, and in certain cases entering into collateral agreements, via Credit Support Annex with those counterparties. Internal policies and procedures establish credit approvals, controls and monitoring.

Under ISDA master netting agreements, the amounts owing by each counterparty on a single day may be netted into a single payment by currency. We do not use these agreements for daily netting, and accordingly, the ISDA agreements do not meet the criteria for offsetting in the Consolidated Statement of Financial Position. We retain the use of these agreements to allow the right to offset all outstanding derivative instruments upon specific credit events such as the default of one of the parties to the agreement. Upon such events, all transactions under the agreement are terminated, a net termination value is assessed which determines the final amount payable to settle all outstanding transactions.

Collateral agreements provide for the posting of collateral by the counterparty when our exposure to that entity exceeds a certain threshold. Collateral is held by a third party custodian. At the end of 2022, no collateral was held (2021 – \$94 million, consisting of AAA rated government issued securities).

All derivative counterparties must have a minimum credit rating of A- and any exception must be approved by the Board of Directors. In 2022, we did not hold any derivatives with counterparties that had a rating below this requirement (2021 – none).

In 2022, we reviewed our contracts for embedded derivatives in non-financial contracts and determined that there were no embedded derivatives (2021 – none).

Notional amounts are not recorded as assets or liabilities on our Consolidated Statement of Financial Position as they only represent the face amount of the contract to which a rate or a price is applied to determine the amount of cash flows to be exchanged.

The remaining term to maturity for the notional amounts of our derivative contracts was as follows:

<i>(in millions of Canadian dollars)</i>	Dec. 31, 2022				Dec. 31, 2021			
	Remaining term to maturity				Remaining term to maturity			
	Under 1 year	1 to 3 years	Over 3 years	Total	Under 1 year	1 to 3 years	Over 3 years	Total
Interest rate swaps	11,511	21,627	25,313	58,451	5,965	18,715	16,462	41,142
Cross currency interest rate swaps	6,988	6,245	4,810	18,043	5,833	7,654	7,274	20,761
Foreign exchange swaps	15,208	–	–	15,208	13,791	–	–	13,791
Foreign exchange forwards	3	–	–	3	–	–	–	–
Total	\$ 33,710	\$ 27,872	\$ 30,123	\$ 91,705	\$ 25,589	\$ 26,369	\$ 23,736	\$ 75,694



The following table provides the fair values for each category of derivative financial instrument:

<i>(in millions of Canadian dollars)</i>	Dec. 31, 2022			Dec. 31, 2021		
	Positive	Negative	Total	Positive	Negative	Total
Cross currency interest rate swaps	126	1,484	(1,358)	546	252	294
Interest rate swaps	1,480	1,925	(445)	427	656	(229)
Foreign exchange swaps	48	303	(255)	166	95	71
Total derivative instruments	1,654	3,712	(2,058)	1,139	1,003	136
Impact of netting agreements	(1,629)	(1,629)	–	(821)	(821)	–
Total*	\$ 25	\$ 2,083	\$ (2,058)	\$ 318	\$ 182	\$ 136
Applicable collateral			–			(94)
Net amount			\$ (2,058)			\$ 42

* Includes net derivative instruments liabilities arising from financing activities of \$797 million (2021 – net assets of \$83 million).

The following table notes the changes in derivative instruments arising from financing activities:

<i>(in millions of Canadian dollars)</i>	Dec. 31, 2022	Dec. 31, 2021
Balance beginning of year	83	443
Net cash flows	198	(80)
Non-cash changes		
Foreign exchange translation and other	(1,190)	(374)
Fair value changes	216	68
Change in accrued interest	(104)	26
Balance end of year	\$ (797)	\$ 83

14. Debt Instrument Maturities

We purchase derivatives to fulfill our required portfolio funding profile to provide flexibility in our debt issuances. For example, a fixed rate debt issue can be combined with an interest rate swap to generate floating rate funding instead of issuing a floating rate note. Issuing fixed rate debt as well as floating rate notes provides us with access to a more diversified investor base. The following table shows our resulting net fixed and floating rate debt positions, as well as the maturities and yields of those net positions. Although we measure our swaps and the majority of debt instruments at their fair value on the financial statements, they are shown below at their notional amounts in order to provide information on cash requirements at maturity of the instruments.

(in millions of Canadian dollars)	Dec. 31, 2022				Dec. 31, 2021			
	Debt issues	Swap contracts	Net	Yield* (%)	Debt issues	Swap contracts	Net	Yield* (%)
Fixed rate issues								
2022	–	–	–	–	9,414	(6,155)	3,259	1.51
2023	11,628	(10,647)	981	4.04	10,096	(9,337)	759	2.18
2024	5,993	(5,993)	–	–	5,532	(5,532)	–	–
2025	6,448	(6,448)	–	–	1,791	(1,791)	–	–
2026	1,859	(1,859)	–	–	1,826	(1,826)	–	–
2027	8,015	(7,928)	87	0.55	184	(184)	–	–
Subtotal	33,943	(32,875)	1,068	1.78	28,843	(24,825)	4,018	1.74
Floating rate issues								
2022	–	–	–	–	10,137	6,104	16,241	–
2023	15,036	11,057	26,093	–	1,427	9,347	10,774	–
2024	1,454	6,085	7,539	–	1,470	5,458	6,928	–
2025	1,144	6,588	7,732	–	1,198	1,730	2,928	–
2026	–	1,957	1,957	–	–	1,831	1,831	–
2027	–	7,931	7,931	–	–	175	175	–
Subtotal	17,634	33,618	51,252	4.12	14,232	24,645	38,877	0.21
Total	\$ 51,577	\$ 743	\$ 52,320	–	\$ 43,075	\$ (180)	\$ 42,895	–

* Refers to yield to maturity for fixed rate issues and yield to reset for floating rate issues.

At the end of 2022, the contractual cash flows, including principal and estimated interest (using current contractual rates), related to our debt portfolio were as follows:

(in millions of Canadian dollars)	Dec. 31, 2022			
	Under 1 year	1 to 3 years	Over 3 to 5 years	Total
Debt	27,696	15,821	10,113	53,630
Swap contracts				
Receivable	(12,450)	(15,819)	(10,025)	(38,294)
Payable	13,337	16,655	10,294	40,286
Total	\$ 28,583	\$ 16,657	\$ 10,382	\$ 55,622

Credit exposure and other details of derivative instruments are included as part of Note 13.



15. Premium and Claims Liabilities

The premium and claims liabilities are broken down as follows:

<i>(in millions of Canadian dollars)</i>	Dec. 31, 2022			Dec. 31, 2021		
	Insurance	Reinsurance	Net liabilities	Insurance	Reinsurance	Net liabilities
Credit insurance	280	(40)	240	300	(30)	270
Financial institutions insurance	10	–	10	–	–	–
International trade guarantee	210	(10)	200	210	(10)	200
Political risk insurance	140	(60)	80	160	(70)	90
Total	\$ 640	\$ (110)	\$ 530	\$ 670	\$ (110)	\$ 560

The premium and claims liabilities were comprised of the following components:

<i>(in millions of Canadian dollars)</i>	Dec. 31, 2022	Dec. 31, 2021
Deferred insurance premiums	160	140
Allowance for claims on insurance	480	530
Total premium and claims liabilities	640	670
Reinsurers' share of allowance for claims on insurance	(90)	(90)
Prepaid reinsurance	(20)	(20)
Reinsurers' share of premium and claims liabilities	(110)	(110)
Net premium and claims liabilities	\$ 530	\$ 560

During the year, the premium and claims liabilities were impacted by the following factors:

<i>(in millions of Canadian dollars)</i>	2022			2021		
	Insurance	Reinsurance	Net liabilities	Insurance	Reinsurance	Net liabilities
Balance beginning of year	670	(110)	560	820	(150)	670
Update to methodology for COVID-19	(30)	–	(30)	(200)	30	(170)
Change in portfolio composition and risk ratings	(20)	–	(20)	100	(10)	90
Update to actuarial assumptions	–	–	–	(50)	20	(30)
Foreign exchange translation	20	–	20	–	–	–
Balance end of year	\$ 640	\$ (110)	\$ 530	\$ 670	\$ (110)	\$ 560

As at December 31, 2022, our estimated net liability related to the impact of COVID-19 was reduced to nil (2021 – \$30 million), as noted in the table above. The 2021 amount reflected a specific subset of policies within our credit insurance solution that were yet to have their risk ratings reviewed.

16. Financing Commitments

We have three types of financing commitments.

The first type is undisbursed amounts on signed loan agreements totalling \$11,345 million (2021 – \$10,526 million). These commitments are immediately available to the obligor for drawdown subject to continued adherence to contractual covenants established under the financing agreements.

Undisbursed amounts on signed loan agreements with their committed fixed rates or committed floating rate spreads are outlined in the following table. All yields are computed on a weighted average basis and the spreads over floating interest rates represent the spreads over base rates which consist mainly of LIBOR and risk-free rates (RFR) for U.S. dollars.

(in millions of Canadian dollars)	Dec. 31, 2022					Dec. 31, 2021				
	Fixed \$	Estimated spot yield %	Floating \$	Spread %	Total \$	Fixed \$	Estimated spot yield %	Floating \$	Spread %	Total \$
Commercial	291	6.84	11,054	1.87	11,345	86	5.01	10,410	1.85	10,496
Sovereign	–	–	–	–	–	–	–	30	2.00	30
Total	\$ 291	6.84	\$ 11,054	1.87	\$ 11,345	\$ 86	5.01	\$ 10,440	1.85	\$ 10,526

We also have loan and loan guarantee commitments for which terms related to the transaction, such as interest rate type and disbursement schedule, have not yet been determined. This category of commitments includes letters of offer accepted and outstanding for loans of \$2,048 million (2021 – \$1,931 million) and loan guarantees of \$100 million (2021 – \$135 million) as well as unallocated confirmed lines of credit of \$98 million (2021 – \$133 million).

The third type of financing commitment relates to undisbursed investment commitments of \$1,043 million (2021 – \$884 million). The majority of these commitments are drawn down over a five-year period, although drawdowns may occur over the life of the fund at the discretion of the fund managers.

17. Contingent Liabilities

INSURANCE IN FORCE AND LOAN GUARANTEES

As described in Note 1, we are subject to a limit imposed by the Act on our contingent liabilities related to the total principal amount owing under all insurance policies, reinsurance policies, indemnities and guarantees of \$90 billion. The following table presents the net amount of these contingent liabilities:

(in millions of Canadian dollars)	Dec. 31, 2022	Dec. 31, 2021
Insurance in force:		
Credit insurance	16,261	14,213
Financial institutions insurance	2,865	2,366
International trade guarantee	13,412	11,738
Political risk insurance	359	479
Reinsurance ceded*	(232)	(217)
Total insurance in force	32,665	28,579
Loan guarantees	4,418	4,399
Total	\$ 37,083	\$ 32,978

* Represents treaty reinsurance agreements covering most bonding obligors and the short-term export credit insurance portfolio, including most foreign bank exposures.

Insurance in Force

Exposure on our insurance in force at the end of 2022 totalled \$32,665 million (2021 – \$28,579 million). Net premium and claims liabilities related to this exposure on the Consolidated Statement of Financial Position was \$530 million (2021 – \$560 million); refer to Note 15 for further details. For details regarding insurance products and risks refer to Note 18.



Loan Guarantees

We issue loan guarantees to cover non-payment of principal, interest and fees owing to financial institutions providing loans to Canadian exporters or buyers of Canadian goods and services. Calls on guarantees result in our recognition of a loan asset within our financial statements and become a direct obligation of the exporter or buyer. At the end of 2022, loan guarantees with performing obligors were \$4,304 million of which \$83 million were secured (2021 – \$4,283 million in performing guarantees of which \$67 million were secured). Loan guarantees with impaired obligors were \$114 million for 2022 of which none were secured (2021 – \$116 million of which none were secured).

Loan guarantees on the Consolidated Statement of Financial Position were comprised as follows:

<i>(in millions of Canadian dollars)</i>	Dec. 31, 2022	Dec. 31, 2021
Deferred guarantee fee revenue	34	58
Allowance for losses on loan guarantees	200	130
Total	\$ 234	\$ 188

MATURITY ANALYSIS

The maturity profile of our insurance in force and loan guarantees is summarized as follows:

<i>(in millions of Canadian dollars)</i>	Dec. 31, 2022						
	Credit insurance	Financial institutions insurance	International trade guarantee	Political risk insurance	Loan guarantees	Reinsurance ceded*	Total
2023	12,254	2,619	5,724	21	4,380	(232)	24,766
2024	3,419	208	3,873	90	–	–	7,590
2025	556	38	2,161	–	–	–	2,755
2026	31	–	181	–	27	–	239
2027	1	–	1,401	57	–	–	1,459
2028 – 2032	–	–	72	108	11	–	191
2033 and beyond	–	–	–	83	–	–	83
Total	\$ 16,261	\$ 2,865	\$ 13,412	\$ 359	\$ 4,418	\$ (232)	\$ 37,083

* Represents treaty reinsurance agreements covering most bonding obligors and the short-term export credit insurance portfolio, including most foreign bank exposures.

<i>(in millions of Canadian dollars)</i>	Dec. 31, 2021						
	Credit insurance	Financial institutions insurance	International trade guarantee	Political risk insurance	Loan guarantees	Reinsurance ceded*	Total
2022	11,585	2,302	5,079	78	4,295	(217)	23,122
2023	2,281	61	2,956	28	44	–	5,370
2024	302	3	414	110	–	–	829
2025	45	–	1,988	–	8	–	2,041
2026	–	–	32	–	48	–	80
2027	–	–	1,269	80	1	–	1,350
2028 – 2032	–	–	–	115	3	–	118
2033 and beyond	–	–	–	68	–	–	68
Total	\$ 14,213	\$ 2,366	\$ 11,738	\$ 479	\$ 4,399	\$ (217)	\$ 32,978

* Represents treaty reinsurance agreements covering most bonding obligors and the short-term export credit insurance portfolio, including most foreign bank exposures.

LEGAL PROCEEDINGS

We are involved in various legal proceedings in the ordinary course of business. Management does not expect the outcome of any of these proceedings to have a material effect on our consolidated financial position or our results of operations.

18. Insurance Risks

INSURANCE AND FINANCIAL RISK

We principally issue insurance to our customers to protect them against non-payment by an obligor and/or other losses. Guarantees and surety bond insurance are typically issued to the counterparties of our customers in order to provide them with recourse should our customers not perform as contracted.

We define insurance risk to be the risk of loss or harm due to actual experience being different from that assumed when an insurance product was designed and priced.

The risks within our insurance program are mitigated by diversification across geographical markets, industries and a portfolio of insurance contracts across uncorrelated product lines. We further manage our risk through the application of a detailed underwriting process which ensures that exposures receive tiered levels of due diligence based on their size and level of risk. Our risk acceptance decisions are supported by our resources in the areas of economics, political risk and legal. Our risk management procedures also include the use of risk transfer arrangements.

The core operating principles for risk transfer activities are to (1) mitigate potential large losses due to existing high concentration in obligor, industry and country risk, (2) protect from credit deterioration within the portfolio and (3) proactively acquire additional credit capacity.

We engage in various risk transfer activities primarily through co-insurance and reinsurance. Co-insurance can be defined as leveraging another insurer's capacity by jointly sharing the risk of the original insurance policy. A co-insurance agreement is typically put in place at the time of origination of the transaction. Under this structure, we are not exposed to the credit risk of the co-insurer.

Under a reinsurance structure, we assume the risk of the original policy, and cede that risk to a counterparty (the "reinsurer") to limit our exposure to large losses. We have treaty reinsurance agreements covering the short-term export credit insurance portfolio, most bonding and foreign bank exposures, and the political risk insurance portfolio. We additionally have facultative reinsurance agreements covering specific credit insurance policies and buyers and some large bonding obligors, as well as specific political risk insurance policies. Reinsurance contracts do not relieve us of our obligations to the insured; however, they do provide for the recovery of claims arising from the liabilities ceded. Under a reinsurance structure, we are exposed to the credit risk of the reinsurer (referred to as counterparty risk). To help mitigate this risk, our placement of reinsurance is diversified such that it is not dependent on a single reinsurer. Reinsurance counterparty exposure is managed under our reinsurance counterparty management procedures and monitored by our Global Risk Management Group.

In addition to our risk management procedures discussed above, our Special Risks team thoroughly reviews debt files at all stages of the overdue, claim and recovery process. This team manages and pursues debt files to minimize losses. Continuously evolving documentation and analytical standards also ensure that the claims process and its outcomes are appropriate and consistent.

We also manage our exposure through policy structuring measures including the use of maximum liability amounts and risk sharing with our customers on certain contracts.

Note that the terms "exposure" and "insurance in force" are used interchangeably throughout this section to refer to the lesser of current policy declarations and the total maximum liability of all active policies at the reporting date. In this section, issued and assumed policies are grouped together to reflect their similar risk impacts to EDC.



CONCENTRATIONS OF INSURANCE RISK

Management identifies concentrations of insurance risk through the review of portfolio data and sensitivity analysis. Risk limits are imposed at the insurance product level to ensure that we are not over-exposed to any one risk. Concentrations of insurance risk can result from large policies with specific entities, as well as from geographical region. Concentrations of risk for our insurance business are discussed below based on the four principal insurance solutions that we underwrite.

Credit Insurance

Credit insurance protects exporters of goods and services trading on credit terms of generally up to one year against non-payment due to commercial and political risks. Commercial and political risks covered include buyer insolvency, default, repudiation of goods by buyer, contract cancellation and conversion and risk transfer, cancellation of export or import permits or war-related risks.

Our primary risk in our credit insurance solution is the credit risk of our customers' obligors. During our underwriting process, our assessment considers both an entity's ability and willingness to pay. Ability to pay is primarily based on the financial strength, operations and leadership of the entity (commercial or sovereign) that is the source of our risk. Other factors, such as the environment of the entity's industry, the economy and political and geographical events are also considered. Willingness to pay is assessed based on the entity's payment history, reputation and governance.

We use a rating system to assign risk levels to our customers' obligors. Buyer credit limits for each obligor are then established and approved for specified periods of time. The percentage of outstanding buyer limits based on the internal ratings assigned to the policyholders' obligors, as well as the equivalent external ratings, were as follows:

			Dec. 31, 2022	Dec. 31, 2021
Internal risk level	Standard & Poor's	Moody's	Percentage of outstanding buyer limits	Percentage of outstanding buyer limits
Low	AAA to A-	Aaa to A3	26%	25%
Moderate	BBB+ to BBB-	Baa1 to Baa3	24%	24%
Medium	BB+ to BB	Ba1 to Ba2	20%	22%
High	BB- to B-	Ba3 to B3	25%	24%
Priority watch	CCC+ to D	Caa1 to C	5%	5%

The major concentrations of risk by country based on the actual declared exposure for credit insurance were as follows:

<i>(in millions of Canadian dollars)</i>		Dec. 31, 2022			Dec. 31, 2021		
	Credit insurance	Reinsurance ceded	Net credit insurance		Credit insurance	Reinsurance ceded	Net credit insurance
United States	9,195	(216)	8,979	United States	7,960	(204)	7,756
Canada	1,204	(19)	1,185	Canada	1,078	(8)	1,070
Mexico	557	(13)	544	Brazil	548	(34)	514
China	444	-	444	Mexico	434	(5)	429
United Kingdom	429	(19)	410	China	426	(10)	416
Others	4,898	(199)	4,699	Others	4,163	(135)	4,028
Total	\$ 16,727	\$ (466)	\$ 16,261	Total	\$ 14,609	\$ (396)	\$ 14,213

Financial Institutions Insurance

Financial institutions insurance supports Canadian exporters with credit risk and payment risk mitigation on terms of generally less than one year. Within our financial institutions insurance solution, our primary risk lies with the credit rating of the counterparty bank. At the end of 2022, our financial institutions insurance policies had insurance exposure outstanding of \$1,273 million (2021 – \$1,107 million) that was rated as investment grade and \$1,592 million (2021 – \$1,259 million) rated as non-investment grade.

Additional risk can arise from significant transactions within a geographical region. The major concentrations of risk by country for financial institutions insurance, based on the total potential risk exposure, were as follows:

<i>(in millions of Canadian dollars)</i>	Dec. 31, 2022		Dec. 31, 2021
Canada	468	Canada	431
United States	308	Brazil	246
Cayman Islands	268	Turkey	240
Colombia	240	United States	239
Hong Kong	237	China	222
Other	1,344	Other	988
Total	\$ 2,865	Total	\$ 2,366

International Trade Guarantee

Our international trade guarantee solution provides cover for sales on exposure terms often greater than one year and includes export credit insurance and guarantees, performance guarantees and surety, as well as extending cover for risks inherent in performance-related obligations. We issue performance security guarantees which provide coverage to the exporter's bank for up to 100% of the guarantee value in the event of any call by the buyer. Financial security guarantees are issued to provide coverage to the exporter's bank for up to 100% of the guarantee value in the event of any call by the supplier and foreign bank. These guarantees stipulate a recovery provision whereby the exporter agrees to indemnify us should a payment be made under the guarantee. Unless otherwise stated, the indemnification agreement generally ranks as an unsecured liability of the exporter. Foreign exchange guarantees are also issued which provide a guarantee to secure the settlement risks associated with foreign exchange forward contracts.

The primary source of risk within our international trade guarantee solution is the credit rating of our policies' obligors. We assign an internal risk rating to each policy's obligor, based on a number of factors, including external credit rating and country of transaction.

The major concentrations of risk by internal risk rating based on the total insurance in force for the international trade guarantee solution were as follows:

<i>(in millions of Canadian dollars)</i>	Dec. 31, 2022	Dec. 31, 2021
Internal risk level	Outstanding risk exposure	Outstanding risk exposure
AA to BBB-	8,240	7,232
BB+ to B-	4,775	4,068
CCC+ and below	397	438
Total	\$ 13,412	\$ 11,738

The major concentrations of risk by country for the international trade guarantee solution, based on total insurance in force, were as follows:

<i>(in millions of Canadian dollars)</i>	Dec. 31, 2022			Dec. 31, 2021			
	International trade guarantee	Reinsurance ceded	Net international trade guarantee	International trade guarantee	Reinsurance ceded	Net international trade guarantee	
Canada	13,986	(702)	13,284	Canada	12,155	(579)	11,576
Brazil	82	-	82	Brazil	82	-	82
United States	9	-	9	United States	23	-	23
China	8	-	8	Italy	16	-	16
Kuwait	8	-	8	China	13	-	13
Other	21	-	21	Other	28	-	28
Total	\$ 14,114	\$ (702)	\$ 13,412	Total	\$ 12,317	\$ (579)	\$ 11,738



Political Risk Insurance

Political risk insurance provides risk protection for equity and other investments based primarily on political risks. Our risk assessment considers politically motivated events that may jeopardize our customers' assets or income in a foreign market. As a baseline for our risk assessment of a given market, we assess the transfer and convertibility of local currency, expropriation risk as well as the risk of political violence. The policyholder can request coverage for multiple countries; however, our risk exposure is limited to the maximum liability of the policy.

Our major country exposures for political risk insurance by total insurance in force were as follows:

<i>(in millions of Canadian dollars)</i>	Dec. 31, 2022			Dec. 31, 2021			
	Political risk insurance	Reinsurance ceded	Net political risk insurance	Political risk insurance	Reinsurance ceded	Net political risk insurance	
Ghana	140	(65)	75	Ghana	169	(82)	87
United Arab Emirates	106	(37)	69	Angola	84	–	84
Angola	63	–	63	China	132	(54)	78
Barbados	83	(43)	40	United Arab Emirates	103	(36)	67
Egypt	94	(57)	37	Barbados	91	(38)	53
Cameroon	91	(58)	33	Cameroon	149	(100)	49
China	44	(15)	29	Egypt	98	(60)	38
Mexico	44	(15)	29	Brazil	356	(320)	36
Brazil	43	(15)	28	Mexico	42	(14)	28
Dominican Republic	75	(61)	14	Jamaica	399	(386)	13
Other	98	(21)	77	Other	170	(86)	84
	881	(387)	494		1,793	(1,176)	617
Country limits in excess of policy limits	(214)	79	(135)	Country limits in excess of policy limits	(581)	443	(138)
Total	\$ 667	\$ (308)	\$ 359	Total	\$ 1,212	\$ (733)	\$ 479

Risks and Sensitivities

There is a limitation upon the accuracy of the premium and claims liabilities as there is an inherent uncertainty in any estimate of premium and claims liabilities. There is uncertainty in any estimate because future events could affect the ultimate claim amounts. Examples of future events include, but are not limited to:

- (1) economic cycles;
- (2) higher than anticipated claim development;
- (3) concentration of credit losses; and
- (4) geo-political considerations.

Therefore, the actual ultimate claim amount may differ materially from estimates. However, we have employed standard actuarial techniques and appropriate assumptions to mitigate this risk.

The following table illustrates the impact on net income of variations in key risk components. These risk components are analyzed and estimated using EDC's own loss experience. A qualitative component is added to these quantitative risk components as warranted by the external factors previously mentioned.

A 10% change was applied to key risk components and the impact on premium and claims liabilities was quantified.

Key Risks Sensitivities

	Dec. 31, 2022			
	Changes in assumptions	Impact on gross liabilities	Impact on net liabilities	Impact on net income
Frequency of claims	+10%	28	21	(21)
Frequency of claims	-10%	(28)	(21)	21
Severity of claims	+10%	34	24	(24)
Severity of claims	-10%	(34)	(24)	24
Foreign exchange rates	+10%	40	29	(29)
Foreign exchange rates	-10%	(44)	(31)	31
Expected Loss Ratio	+10%	10	10	(10)
Expected Loss Ratio	-10%	(10)	(10)	10

	Dec. 31, 2021			
	Changes in assumptions	Impact on gross liabilities	Impact on net liabilities	Impact on net income
Frequency of claims	+10%	26	21	(21)
Frequency of claims	-10%	(26)	(21)	21
Severity of claims	+10%	34	25	(25)
Severity of claims	-10%	(34)	(25)	25
Foreign exchange rates	+10%	45	34	(34)
Foreign exchange rates	-10%	(48)	(35)	35
Expected Loss Ratio	+10%	11	11	(11)
Expected Loss Ratio	-10%	(11)	(11)	11

Claims Development

As time passes, the ultimate cost for the claims becomes more certain. The chart below compares actual claims with previous estimates for the credit insurance portfolio:

Underwriting Year	2018	2019	2020	2021	2022	Total
Estimate of ultimate claims:						
At end of underwriting year	57	85	190	86	82	
One year later	60	95	97	58		
Two years later	60	86	76			
Three years later	56	82				
Four years later	55					
Estimate of ultimate claims at Dec. 31, 2022	55	82	76	58	82	353
Cumulative incurred losses at Dec. 31, 2022	(55)	(81)	(74)	(40)	(14)	(264)
Effect of margin and discounting	-	-	1	2	8	11
2018-2022 Claim Liabilities (IBNR) at Dec. 31, 2022	-	1	3	20	76	100
2008-2017 Claim Liabilities (IBNR) at Dec. 31, 2022						1
2008-2022 Claim Liabilities (IBNR) at Dec. 31, 2022						\$ 101



19. Share Capital

EDC's authorized share capital is \$15.0 billion consisting of 150 million shares with a par value of \$100 each (2021 – \$15.0 billion consisting of 150 million shares). The number of shares issued and fully paid is 84.9 million (2021 – 123 million). These shares entitle our shareholder to receive a dividend from time to time.

As agreed to with our shareholder, for 2022 onwards dividends and/or special dividends will be paid by way of a share buyback until such time that our share capital returns to pre-pandemic levels. In 2022, we repurchased 38.1 million shares at a price of \$100 per share for a total of \$3,810 million based on the capital position of our core programs, the Business Credit Availability Program (BCAP) and a targeted Internal Capital Adequacy Assessment Process (ICAAP) ratio. In 2023 we will be repurchasing shares totalling \$1.2 billion.

In 2021, we declared and paid a dividend of \$580 million according to our current dividend policy, as well as a special dividend of \$6.7 billion based on the capital surplus position of the BCAP and a targeted ICAAP ratio, to the Government of Canada. The dividend per share in 2021 was \$59.19.

20. Capital Management

EDC has a capital management process in place to ensure that we are appropriately capitalized and that our capital position is identified, measured, managed and regularly reported to the Board of Directors. We are not subject to externally imposed capital requirements.

Our primary objective with respect to capital management is to ensure that we have adequate capital to support the evolving needs of Canadian exporters and investors while remaining financially self-sustaining.

We manage our capital through a Board-approved capital management and dividend policy. Under our capital management and dividend policy, we determine whether we have adequate capital by comparing the supply of capital to the demand for capital. The policy also includes an eligible dividend methodology to guide the Board of Directors in determining a potential dividend amount.

We have a capital management framework in place which follows the ICAAP. Demand for capital, which is calculated by models or approaches that estimate the capital required to cover potential losses consistent with an AA solvency level, includes credit risk, market risk, operational risk, pension plan funding risk and strategic risk. The supply of capital is determined by our consolidated financial statements and consists of paid-in share capital and retained earnings. Our dividend policy compares our supply of capital at year-end to the demand for capital and returns the capital surplus over a planning horizon of five years.

A key principle in our capital management is the establishment of a target solvency standard or credit rating which determines the level of demand for capital that is required to cover EDC's exposures in exceptional circumstances. We target a level of capitalization sufficient to cover potential losses consistent with a rating standard of AA.

21. Fair Value of Financial Instruments

Fair value represents our estimation of the price that would be received to sell an asset or paid to transfer a liability in an orderly transaction between market participants at the measurement date.

As with any estimate, uncertainty is inherent due to the unpredictability of future events. In the case of estimating the fair value of our financial instruments, this uncertainty is magnified due to the large number of assumptions used and the wide range of acceptable valuation techniques. Estimates of fair values are based on market conditions at a certain point in time, and may not be reflective of future market conditions. Therefore, the estimates of the fair value of financial instruments outlined do not necessarily reflect the actual values that may occur should the instruments be exchanged in the market.

We have controls and policies in place to ensure that our valuations are appropriate and realistic. In general, the methodologies, models and assumptions used to measure the fair value of our financial assets and liabilities are determined by our Global Risk Management group, which is not involved in the initiation of the transactions. The models, valuation methodologies, and market-based parameters and inputs that are used are subject to regular review and validation, including a comparison with values from outside agencies. In limited circumstances where the valuation of a financial instrument is not independent from the initiation of the transaction, the resulting valuation is subject to review by a valuation committee. The valuation committee meets periodically. Instruments are reviewed and placed on the fair value hierarchy by the valuation committee before being fully implemented.

We categorize financial instruments on the fair value hierarchy based on whether the inputs to the valuation techniques are observable or unobservable.

- *Level 1* – fair values are based on quoted prices (unadjusted) in active markets for identical assets or liabilities;
- *Level 2* – fair values are determined using inputs other than quoted prices included within Level 1 that are observable for the assets or liabilities, either directly (i.e. as prices) or indirectly (i.e. derived from prices); and
- *Level 3* – fair values are determined using inputs for the assets or liabilities that are not based on observable market data (unobservable inputs).

The assumptions and valuation techniques that we use to estimate fair values are as follows:

LOANS RECEIVABLE

In order to estimate the fair value of our performing loans receivable (including accrued interest and fees receivable net of deferred loan revenue), we separate them into risk pools and calculate the net present value of principal and interest cash flows. The discount rates are obtained from yield curves for each risk pool and are specific to the credit risk and term to maturity associated with each principal and interest cash flow.

The fair value of impaired loans is considered to be equal to their carrying value. Once a loan has been assessed as impaired, the carrying value is reduced to reflect the present value of any estimated future cash flows discounted at the loan's original effective interest rate.

Loans receivable valued using unobservable market inputs, such as yield curves for low credit-rated loans, are categorized as Level 3 in the fair value hierarchy.

MARKETABLE SECURITIES

We estimate the fair value of marketable securities using observable market prices. If such prices are not available, we determine the fair value by discounting future cash flows using a yield curve that is based on the attributes of the security, current market conventions, collateral held, and other factors.

INVESTMENTS

Our approach to fair value measurement has been developed using International Private Equity and Venture Capital Valuation Guidelines. Depending on the type of direct investment, we estimate fair value using one of the following: market-based methodologies, such as the quoted share price from available market data, price of recent investment, multiples, or industry benchmarks; income-based methodologies such as discounted cash flows; or replacement cost-based methodology such as net assets. Our fund valuations are performed using their most recent published financial statements. The valuations are established by investment managers, reviewed by management and approved by an independent valuation committee that is comprised of representatives from our Global Risk Management and Finance groups. The valuation methods are constantly validated and calibrated through discussions with co-investors and market participants, taking into account all known market events.

In the process of assessing the fair value for certain investment instruments, estimates determined in a manner consistent with industry practice are employed in the models which cannot be directly observed in the market. EDC's unobservable estimates are outlined in the table below:

(in millions of Canadian dollars)

Valuation technique	Unobservable input	Range (average)	Fair value at Dec. 31, 2022 ⁽¹⁾
Multiples	Multiple (Sales or EBITDA ⁽²⁾)	0.0 – 16.9 (4.5)	356
	Discount Rate	0% – 50% (37%)	28
Discounted Cash Flows	Discount Rate	0% – 35% (10%)	37

⁽¹⁾ The valuation of an investment may use multiple unobservable inputs and therefore its fair value can be included multiple times in the fair value amounts.

⁽²⁾ Earnings before interest, taxes, depreciation and amortization.



OTHER ASSETS AND ACCOUNTS PAYABLE AND OTHER CREDITS

The fair value of short-term other assets and accounts payable and other credits are assumed to equal their carrying value due to their short-term nature. For long-term other assets and accounts payable, we estimate fair value by discounting future cash flows using a yield curve appropriate to the related risks. The fair value of recoverable insurance claims is evaluated on a case-by-case basis. Specific knowledge of the counterparty, country and state of negotiations are taken into account for estimating the likely recoverable amount.

LOANS PAYABLE

The fair value of our less complex loans payable is determined using the discounted cash flow method. Forward rates are used to value floating rate cash flows occurring in the future. Cash flows are discounted using the respective currency's yield curve. Inputs to the models are market observable and may include interest rate yield curves and foreign exchange rates.

For our more complex loans payable which may include optionality, we estimate fair value using valuation models when independent market prices are not available. Inputs to these models include option volatilities and correlations in addition to interest rate yield curves and foreign exchange rates. All models are reviewed on a three-year rotational basis and are calibrated automatically each time a model is employed in valuing a deal. Changes in fair value are analyzed every month.

When we transact in callable/extendible notes, we hedge them using interest rate and cross currency swaps that includes matching callable/extendible terms. Thus, any slight inaccuracy in the derivation of expected future payments on these notes or their valuation is negated by the opposite valuation and derivation of the expected future payments from the related swap.

DERIVATIVE INSTRUMENTS

Foreign exchange forwards and foreign exchange swaps are valued by discounting the notional amounts using the respective currency's yield curve and converting the amounts using the spot Canadian dollar exchange rate.

Interest rate and cross currency interest rate swaps are valued using a discounted cash flow method. Forward rates are used to determine floating rate cash flows occurring in the future. Cash flows are discounted using the respective currency's yield curve. Inputs to the models are market observable and may include interest rate yield curves and foreign exchange rates.

For more complex swaps which may include optionality, including cross currency interest rate swaps, interest rate swaps and non-deliverable forwards, the fair value is determined using models which are developed from recognized valuation techniques, validated and managed in the same manner as our more complex loans payable as described above.

The valuations determined using the methodologies described above are adjusted for the credit risk of the counterparty where appropriate.

LOAN GUARANTEES

We estimate the fair value of loan guarantees as the calculated allowance for losses before taking into account any deferred guarantee fee revenue already received. This represents management's best estimate of expected credit losses and is based on the expected loss model.

FAIR VALUE HIERARCHY

The following table presents the fair value hierarchy of our financial instruments:

(in millions of Canadian dollars)	Dec. 31, 2022					Dec. 31, 2021				
	Level 1	Level 2	Level 3	Total fair value	Carrying value	Level 1	Level 2	Level 3	Total fair value	Carrying value
Assets										
Performing fixed rate loans	–	10,068	1,476	11,544	12,785	–	9,784	2,196	11,980	11,513
Performing floating rate loans	–	38,618	368	38,986	38,820	–	33,635	901	34,536	33,936
Total performing loans receivable	–	48,686	1,844	50,530	51,605	–	43,419	3,097	46,516	45,449
Impaired loans	–	947	–	947	947	–	1,136	–	1,136	1,136
Loans receivable and accrued interest and fees	–	49,633	1,844	51,477	52,552	–	44,555	3,097	47,652	46,585
Marketable securities	4,464	5,075	–	9,539	9,539	4,912	4,170	–	9,082	9,082
Derivative instruments	–	1,654	–	1,654	1,654	–	1,139	–	1,139	1,139
Investments	86	–	2,685	2,771	2,771	334	–	2,373	2,707	2,707
Other assets	177	–	23	200	200	169	8	27	204	204
Liabilities										
Accounts payable and other credits	154	–	–	154	154	178	6	–	184	185
Loans payable	–	50,567	–	50,567	50,568	–	43,549	–	43,549	43,525
Derivative instruments	–	3,712	–	3,712	3,712	–	1,003	–	1,003	1,003
Loan guarantees	–	212	–	212	234	–	132	–	132	188

The following table summarizes the reconciliation of Level 3 fair values between 2022 and 2021 for other assets and investments:

(in millions of Canadian dollars)			2022
	Other assets*	Investments	Total
Balance beginning of year	27	2,373	2,400
Decrease in other assets	(5)	–	(5)
Unrealized gains (losses) included in other (income) expenses	–	(181)	(181)
Purchases of assets/issuances of liabilities	–	797	797
Return of capital	–	(388)	(388)
Transfer out of Level 3	–	(2)	(2)
Foreign exchange translation	1	86	87
Balance end of year	\$ 23	\$ 2,685	\$ 2,708
Total gains (losses) for the year included in comprehensive income for instruments held at end of the year	\$ (5)	\$ (37)	\$ (42)

* Consists of recoverable insurance claims.



(in millions of Canadian dollars)

			2021
	Other assets*	Investments	Total
Balance beginning of year	28	1,904	1,932
Decrease in other assets	(1)	-	(1)
Unrealized gains (losses) included in other (income) expenses	-	361	361
Purchases of assets/issuances of liabilities	-	422	422
Return of capital	-	(296)	(296)
Transfer out of Level 3	-	(12)	(12)
Foreign exchange translation	-	(6)	(6)
Balance end of year	\$ 27	\$ 2,373	\$ 2,400
Total gains (losses) for the year included in comprehensive income for instruments held at end of the year	\$ (1)	\$ 510	\$ 509

* Consists of recoverable insurance claims.

Changes in valuation methods may result in transfers into or out of Levels 1, 2 and 3. No transfers occurred in 2022 as a result of changes in valuation methodology (2021 – nil). All transfers out of level 3 to Level 1 were the result of investments converting instruments to those with quoted prices in active markets.

In 2022, a sensitivity analysis was performed using possible alternative assumptions to recalculate the fair value of our Level 3 financial instruments. The fair value of Level 3 financial instruments is in whole or in part based on unobservable inputs. In preparing financial statements, appropriate levels for these unobservable inputs parameters are chosen so that they are consistent with prevailing market evidence or management judgment.

In order to perform our sensitivity analysis for our Level 3 investments, we adjusted the unobservable inputs. The unobservable inputs used to value our Level 3 investments include one or more of the following: multiple of sales, liquidity discount, multiple of EBITDA and discount rate. When multiple unobservable inputs are shocked, no netting is considered, resulting in the highest favourable or unfavourable change. The results of our analysis on our Level 3 investments as at December 31, 2022 ranged from an unfavourable change of \$251 million to a favourable change of \$264 million.

22. Financial Instrument Risks

The principal risks that we are exposed to as a result of holding financial instruments are credit risk, market risk and liquidity risk.

CREDIT RISK

Credit risk is the risk of loss incurred if a counterparty fails to meet its financial commitments. Credit risk may arise from lending and guarantee exposures, equity investment transactions, insurance claims, counterparty credit defaults, and concentration or portfolio composition. We are exposed to credit risk on financial instruments under both our loans program and our treasury activities. Our objectives, policies and processes for managing credit risk as well as the methods we use to measure this risk are disclosed in the notes related to our derivative instruments and debt instruments, as well as in the green text in management's discussion and analysis on [pages 140 to 141](#) and [pages 146 to 150](#) of this annual report.

Concentration of Credit Risk

Concentration of credit risk exposure exists when a number of counterparties operate in the same geographical market or industry, or engage in similar activities. Changes in economic or political conditions may affect their ability to meet obligations in a similar manner. We have limits in place to ensure that our exposure is not overly concentrated in any one country, industry or counterparty. Exposure in excess of these limits requires the approval of our Board of Directors.

The following table provides a breakdown, by the country in which the risk resides, of the maximum gross exposure to credit risk of financial instruments:

(in millions of Canadian dollars)	Gross loans receivable	Loan guarantees	Investments	Marketable securities and derivative instruments*	Risk transfer	Dec. 31, 2022 Exposure		Dec. 31, 2021 Exposure	
						\$	%	\$	%
Country									
Canada	6,735	3,728	1,798	3,073	(36)	15,298	21	13,792	21
United States	8,381	156	181	6,469	(85)	15,102	21	14,008	21
United Kingdom	6,628	2	–	96	664	7,390	10	6,519	10
Chile	6,096	3	–	–	(135)	5,964	8	4,186	6
Australia	4,319	10	–	437	–	4,766	7	3,716	6
Germany	2,606	–	–	74	–	2,680	4	2,075	3
India	2,041	6	184	–	(3)	2,228	3	2,277	4
Mexico	1,801	97	12	9	–	1,919	3	1,859	3
Spain	1,789	–	–	–	–	1,789	2	1,631	2
China	1,295	1	254	–	–	1,550	2	1,428	2
Other	12,502	415	342	1,310	(405)	14,164	19	14,480	22
Total	\$ 54,193	\$ 4,418	\$ 2,771	\$ 11,468	\$ –	\$ 72,850	100	\$ 65,971	100

* Includes cash.

The concentration of credit risk by industry for our financial instruments was as follows:

(in millions of Canadian dollars)	Gross loans receivable	Loan guarantees	Investments	Marketable securities and derivative instruments*	Risk transfer	Dec. 31, 2022 Exposure		Dec. 31, 2021 Exposure	
						\$	%	\$	%
Industry									
Commercial:									
Transportation and storage	14,847	191	20	–	(342)	14,716	20	14,821	23
Finance and insurance	3,557	38	1,500	4,597	874	10,566	15	8,760	13
Utilities	9,298	44	45	–	–	9,387	13	6,402	10
Manufacturing	6,877	1,496	424	–	–	8,797	12	8,204	12
Resources	6,506	309	55	–	(525)	6,345	9	6,123	9
Information	4,838	206	182	–	–	5,226	7	3,707	6
Wholesale and retail trade	1,903	717	60	–	–	2,680	4	2,377	4
Commercial properties	2,347	83	–	–	(7)	2,423	3	2,755	4
Professional services	1,593	309	330	–	–	2,232	3	1,965	3
Construction	622	255	5	–	–	882	1	811	1
Other	856	757	150	–	–	1,763	2	1,362	2
Total commercial	53,244	4,405	2,771	4,597	–	65,017	89	57,287	87
Sovereign	949	13	–	6,871	–	7,833	11	8,684	13
Total	\$ 54,193	\$ 4,418	\$ 2,771	\$ 11,468	\$ –	\$ 72,850	100	\$ 65,971	100

* Includes cash.



MARKET RISK

Market risk is the risk of loss or harm due to adverse movements in market prices, interest rates and/or foreign exchange rates. We are exposed to potential negative impacts on the value of financial instruments resulting from adverse movements in interest and foreign exchange rates. We have policies and procedures in place to ensure that interest rate and foreign exchange risks are identified, measured, managed and regularly reported to management and the Board of Directors.

INTEREST RATE RISK

Interest rate risk is the risk that the fair value or future cash flows of a financial instrument will fluctuate because of changes in market interest rates. We are exposed to potential adverse impacts on the value of financial instruments resulting from differences in the maturities or repricing dates of assets and liabilities, as well as from embedded optionality in those assets and liabilities.

FOREIGN EXCHANGE RISK

Foreign exchange risk is the risk of loss or harm due to changes in spot and forward prices, and/or volatility of currency exchange rates. We are exposed to foreign exchange risk when there is a mismatch between assets and liabilities in any currency.

Our objectives, policies and processes for managing market risk as well as a sensitivity analysis for our exposure to both interest rate and foreign exchange risk are disclosed in the text and tables highlighted in management's discussion and analysis on [pages 148](#) and [149](#) of this annual report.

LIQUIDITY RISK

Liquidity risk is the risk that we would be unable to honour daily cash commitments or the risk that we would have to obtain funds rapidly, possibly at an excessively high premium during severe market conditions. We maintain liquidity through a variety of methods such as holding cash and marketable securities and having access to commercial paper markets.

Our objectives, policies and processes for managing liquidity risk as well as the methods we use to measure this risk are disclosed in the text and tables highlighted in management's discussion and analysis on [page 150](#) of this annual report.

23. Contractual Obligations

In the normal course of business, we enter into contracts that give rise to obligations of future minimum payments.

Purchase obligations include those obligations that are legally binding agreements whereby we have agreed to purchase products or services with specific minimum quantities defined as fixed, minimum or variable in price over a specified period of time.

As at December 31, 2022, purchase obligations not otherwise disclosed in the notes to our consolidated financial statements amounted to \$312 million (2021 – \$208 million).

24. Structured Entities

A structured entity (SE) is defined as an entity that has been designed so that voting or similar rights are not the dominant factor in deciding who controls the entity, such as when any voting rights relate to administrative tasks only and the relevant activities are directed by means of contractual arrangements. When we have power over an SE and are exposed, or have rights to variable returns from our involvement with an SE and have the ability to affect those returns through our power over the SE, we are considered to have control over the SE and the SE is consolidated within our financial statements. When we do not control the SE, the SE is not consolidated.

CONSOLIDATED STRUCTURED ENTITIES

Aircraft and helicopters that have been repossessed due to loan foreclosures are placed into trusts which are considered to be SEs that we control. These structured entities had total assets of \$61 million at the end of 2022 (2021 – \$1 million).

UNCONSOLIDATED STRUCTURED ENTITIES

In the normal course of business, we sometimes provide financing and in some cases guarantees to equity investors via SEs, typically in the transportation industry. As we do not control these entities, they are not consolidated. The following table summarizes our maximum exposure to loss for transactions structured through SEs as well as the carrying values recognized in the Consolidated Statement of Financial Position of EDC's interest in these unconsolidated SEs.

<i>(in millions of Canadian dollars)</i>	Dec. 31, 2022	Dec. 31, 2021
SEs included in the Consolidated Statement of Financial Position		
Loans receivable and loan guarantees	3,427	3,976
Allowance for losses on loans	(202)	(276)
Net loans receivable and loan guarantees	3,225	3,700
Fund investments	1,682	1,816
Maximum exposure in the Consolidated Statement of Financial Position	4,907	5,516
Commitments and guarantees*		
Commitments		
Signed loan agreements	163	749
Letters of offer	–	12
Fund investments	993	880
Guarantees provided to equity holders	–	18
Maximum exposure to commitments and guarantees	1,156	1,659
Maximum exposure to unconsolidated structured entities	\$ 6,063	\$ 7,175

* Included in commitments and guarantees in Note 16.

We invest in funds which are pooled investment vehicles structured as limited partnerships and financed by the limited partners. These funds invest primarily in private or public companies and are considered to be SEs.

An in-depth analysis of the SEs in the current year resulted in the determination that a large number of entities previously considered to be unconsolidated SEs did not meet the definition of an SE. Balances relating to those entities as at December 31, 2022 have therefore been excluded from the table above and the comparative figures have been adjusted to conform to the current year determination of unconsolidated SEs. The most significant impacts of this change to the December 31, 2021 amounts previously disclosed in the table above were reductions of \$7,874 million to 'Maximum exposure in the Consolidated Statement of Financial Position', \$1,225 million to 'Maximum exposure to commitments and guarantees' for a total of \$9,099 million to 'Maximum exposure to unconsolidated structured entities'.



25. Loan Revenue

<i>(in millions of Canadian dollars)</i>	2022	2021
Loan interest – floating rate	1,351	826
Loan interest – fixed rate	390	421
Loan fee revenue	140	165
Impaired revenue	50	50
Total	\$ 1,931	\$ 1,462

26. Interest Expense

<i>(in millions of Canadian dollars)</i>	2022	2021
Loans payable and derivatives		
Short-term payables	210	30
Long-term payables and derivatives – floating	598	107
Long-term payables and derivatives – fixed*	162	182
Other	3	5
Total	\$ 973	\$ 324

* Includes interest expense for debt classified at amortized cost of \$34 million (2021 – \$81 million).

27. Net Insurance Premiums and Guarantee Fees

<i>(in millions of Canadian dollars)</i>	2022			2021		
	Direct premiums and guarantee fees	Reinsurance premiums ceded	Net premiums and guarantee fees	Direct premiums and guarantee fees	Reinsurance premiums ceded	Net premiums and guarantee fees
Credit insurance	147	(15)	132	139	(16)	123
Financial institutions insurance	9	–	9	9	(1)	8
International trade guarantee	124	(10)	114	125	(10)	115
Political risk insurance	10	(5)	5	12	(6)	6
Total	\$ 290	\$ (30)	\$ 260	\$ 285	\$ (33)	\$ 252

28. Net Claims-Related Expenses (Recovery)

Net claims-related expenses (recovery) are charged to profit or loss as they are incurred. These costs arise from the events that have occurred up to the balance sheet date. The composition of net claims-related expenses (recovery), expressed in the Consolidated Statement of Comprehensive Income, was as follows:

<i>(in millions of Canadian dollars)</i>	2022	2021
Claims paid	77	54
Claims recovered	(44)	(18)
Decrease in the net allowance for claims on insurance	(83)	(122)
Decrease in reinsurers' share	7	33
Decrease in recoverable insurance claims	5	1
Claims handling expenses	5	1
Total	\$ (33)	\$ (51)

Of the \$77 million in claim payments made during 2022 (2021 – \$54 million), 62% was related to our credit insurance solution (2021 – 79% credit insurance). The largest concentrations of claim payments and recoveries were in the following geographic areas:

<i>(in millions of Canadian dollars)</i>	2022		2021	
	Claims paid	Claims recovered*	Claims paid	Claims recovered*
North America	46	23	36	9
Europe and Commonwealth of Independent States	15	5	3	1
South and Central America and the Caribbean	10	3	4	3
Asia and Pacific	4	–	4	2
Middle East and Africa	2	13	7	3
Total	\$ 77	\$ 44	\$ 54	\$ 18

* Represents recoveries on claims paid in the current and prior years.

29. Other (Income) Expenses

<i>(in millions of Canadian dollars)</i>	2022	2021
Net realized (gains) losses		
Investments	(99)	(325)
Marketable securities	35	(27)
Sale of loan assets	13	37
Foreign exchange translation	(20)	2
Other	(2)	(2)
Total net realized (gains) losses	(73)	(315)
Net unrealized (gains) losses		
Marketable securities	396	177
Investments	380	(381)
Loans payable	(1,554)	(508)
Derivatives	407	286
Total net unrealized (gains) losses	(371)	(426)
Total	\$ (444)	\$ (741)



30. Administrative Expenses

<i>(in millions of Canadian dollars)</i>	2022	2021
Salaries and benefits	335	301
Professional services	105	84
Systems costs	52	54
Pension benefit expense	34	48
Occupancy	26	29
Amortization and depreciation	24	23
Marketing and communications	24	24
Information services	21	22
Other post-employment benefits and severance expense	16	15
Travel, hospitality and conferences	4	–
Other	18	19
Total	\$ 659	\$ 619

31. Retirement Benefit Plans

PENSION PLANS

The Registered Pension Plan (RPP) was established on April 24, 2000 as a defined benefit plan (DB) and, effective January 1, 2012, a defined contribution (DC) component was added. The RPP is registered under the Pension Benefits Standards Act (PBSA) with the Office of the Superintendent of Financial Institutions Canada (OSFI). As a registered pension plan as defined under the *Income Tax Act (ITA)*, the RPP is not subject to income taxes for the contributions or investment income.

For employees who joined the plan prior to January 1, 2012, the DB component of the RPP provides a benefit based on years of pensionable service and the best consecutive five-year average pensionable earnings. Employee and employer contributions are pooled into a fund and the employer directs the investments. Upon retirement, the benefits are fully indexed to inflation and paid from the fund.

For employees who joined the plan on or after January 1, 2012, the DC component of the RPP provides a benefit that is the accumulation of employee and employer contributions and investment income in the employee's account. Employees choose to contribute a fixed percentage from 4% up to a maximum of 6% of their pensionable earnings, which is matched by the employer based on the employee's age and years of eligible service. The contributions are invested as directed by each employee from a selection of available investment options.

When the RPP was established, the Supplementary Retirement Plan (SRP) was also created, the purpose of which is to supplement benefits for members whose benefits and/or contributions under the RPP are affected by *ITA* maximums. The SRP increases their benefits to the level which would be payable under the RPP if these maximums did not apply. Effective January 1, 2012, a DC component was added to the SRP. The RPP and SRP defined benefit plans' durations are 16 and 15 years respectively. The RPP and SRP are collectively referred to as "the Plans".

OTHER BENEFIT PLANS

We maintain a closed retiring allowance program (service accumulation ceased July 1, 2013) and provide certain life insurance, health and dental care benefits to retired employees who qualify. These plans are unfunded and EDC contributes the cost of benefits as they are incurred. Costs are accrued based on actuarial calculations. These plans' durations are 17 years.

PLAN AMENDMENTS DURING THE YEAR

In 2022, there were no amendments made to the pension plans.

GOVERNANCE STRUCTURE

EDC's pension plan governance structure is comprised of the Board of Directors, Human Resources Committee of the Board (HRC), the Management Pension Committee (MPC) at the executive level, the Pension Investment Advisory Committee (PIAC) and the DC Pension Advisory Council (DC Council) at the operational level.

The HRC has oversight responsibilities with respect to pension plan design, amendments, funding, asset mix and investment structure. In addition, the HRC reviews investment policies, goals and performance and seeks and receives assurances from management on pension matters that have been delegated.

The MPC has authority for all decisions about the pension plans that have not been retained by the Board or the HRC. The MPC focuses on key strategic decisions and provides recommendations to the HRC for plan design changes. The MPC approves changes to plan custodians, oversees and supports pension activities undertaken by the PIAC and DC Council. The PIAC monitors funds' investment performance, meets with the investment managers on a periodic basis and provides recommendations to the MPC. The DC Council provides input on the DC component of the plan and needs of members.

RISK MITIGATION

The RPP's and the SRP's investments are subject to a variety of financial instrument risks that could adversely affect the cash flows, financial position and income of the Plans. The Plans' financial risk is concentrated in their investment holdings and includes credit risk, liquidity risk and market risk. The exposure to these risks is not considered to be unusual. For the DB component of the Plans, Statements of Investment Policies and Procedures (SIPP) prescribe an asset mix policy, require portfolio investment diversification and limit exposure to major asset classes to reduce the level of risk. For the DC component, the SIPP describes the investment structure of the offering and the default offering to members. The SIPPs are reviewed at least annually and changes are made if required.

FUNDING RISK

For the DB component of the pension plans, funding risk is the risk that the investment asset growth and contribution rates of the pension plans will not be sufficient to cover the pension obligations, resulting in unfunded liabilities. In accordance with regulatory requirements, if any unfunded liabilities exist, special contributions are required over specified future periods in order to reduce any deficit determined by the actuarial valuation process. The most significant contributors to funding risk are fluctuations in discount rates and returns on assets.

Due to the nature of the plan, there is no funding risk associated with the DC component of the RPP.

Benefits for the other benefit plans are unfunded. Funding risk is the risk that cashflows will be insufficient to cover benefits. To mitigate this risk, we monitor expected benefit payments projected by the actuary.

OTHER RISKS

DB obligations are subject to measurement uncertainty due to the use of actuarial assumptions such as discount rates, mortality rates, rate of compensation increases as well as withdrawal and retirement rates. The impact of these factors on the DB component of the pension plans and other post-employment benefits can be significant and volatile at times.



The following table presents a reconciliation of the net asset and obligation of the DB component of the pension plans and other post-employment benefit plans, including the present value of the DB retirement benefit obligations and the fair value of plan assets:

	2022				2021			
	Registered Pension Plan	Supplementary Retirement Plan	Other benefit plans	Total	Registered Pension Plan	Supplementary Retirement Plan	Other benefit plans	Total
Defined benefit obligations:								
Obligation beginning of year	1,322	125	226	1,673	1,422	138	243	1,803
Current service costs	27	2	9	38	32	3	8	43
Interest cost on benefit obligation	46	4	7	57	41	4	6	51
Employee contributions	11	1	-	12	11	1	-	12
Actuarial (gain) loss from:								
changes in plan experience	43	16	(11)	48	3	(3)	(6)	(6)
changes in financial assumptions	(364)	(35)	(73)	(472)	(159)	(15)	(22)	(196)
changes in demographic assumptions	-	-	7	7	-	-	-	-
Benefits paid	(28)	(3)	(3)	(34)	(28)	(3)	(3)	(34)
Obligation end of year ⁽¹⁾	1,057	110	162	1,329	1,322	125	226	1,673
Fair value of plan assets:								
Fair value beginning of year	1,653	140	-	1,793	1,467	119	-	1,586
Interest income on plan assets	55	5	-	60	41	2	-	43
Return (loss) on plan assets, excluding interest income on plan assets	(237)	(13)	-	(250)	132	9	-	141
Employer contributions	22	15	3	40	31	12	3	46
Employee contributions	11	1	-	12	11	1	-	12
Benefits paid	(28)	(3)	(3)	(34)	(28)	(3)	(3)	(34)
Administrative costs	(1)	-	-	(1)	(1)	-	-	(1)
Fair value end of year ⁽¹⁾	1,475	145	-	1,620	1,653	140	-	1,793
Funded status – plan (deficit) surplus⁽²⁾	\$ 418	\$ 35	\$ (162)	\$291	\$ 331	\$ 15	\$ (226)	\$ 120

⁽¹⁾ The asset ceiling test had no impact on the asset or obligation position of the Plans.

⁽²⁾ On the Consolidated Statement of Financial Position, the RPP and SRP is classified as retirement benefit assets totalling \$453 million (2021 – \$346 million), and the other benefit plans are classified as retirement benefit liabilities totalling \$162 million (2021 – \$226 million).

ASSET MIX

The objective when managing capital of the Plans is to safeguard the ability to continue as a going concern in order to maintain adequate assets to fund future benefit payments. For the DB component of the pension plans, investments are made in a diversified portfolio of investments, based on criteria established in the SIPPs which assist in the management of capital and mitigation of risk. Periodically, an Asset-Liability Management (ALM) study is performed to ensure that investment policies are appropriate in terms of risk and return profiles, and to ensure proper positioning to meet long-term funding obligations. The results of the ALM study are reviewed by the PIAC and recommendations, if any, are made to the MPC and the HRC. EDC conducted an ALM study in 2021 and implemented its recommendations in 2022. At December 31, 2022, the asset mix is within the acceptable range permitted by the SIPP.

The following table outlines the target allocation and asset mix of the Plans' defined benefit component:

	Registered Pension Plan		Supplementary Retirement Plan*		
	2022 Target %	2022 %	2021 %	2022 %	2021 %
Cash	–	–	–	52	45
Fixed income	30	30	30	–	–
Equities	65	65	66	48	55
Alternatives	5	5	4	–	–
Total	100	100	100	100	100

* The target is 100% in equity securities, net of cash held in a refundable tax account as prescribed by Canada Revenue Agency (CRA).

FAIR VALUE MEASUREMENTS

All financial instruments of the Plans recognized at fair value in the Consolidated Statement of Financial Position must be classified into fair value hierarchy levels as shown in the table below, based on the extent to which the inputs used to measure the fair value are observable or unobservable as defined in Note 21.

(in millions of Canadian dollars)	Dec. 31, 2022				Dec. 31, 2021			
	Level 1	Level 2	Level 3	Total	Level 1	Level 2	Level 3	Total
Fixed income	–	435	–	435	–	490	–	490
Equities ⁽¹⁾	–	1,026	–	1,026	–	1,164	–	1,164
Alternatives	–	–	79	79	–	–	71	71
Other ⁽²⁾	80	–	–	80	68	–	–	68
Total	\$ 80	\$ 1,461	\$ 79	\$ 1,620	\$ 68	\$ 1,654	\$ 71	\$ 1,793

⁽¹⁾ The prior year comparatives were aggregated to agree with the current year classification of investments.

⁽²⁾ Represents cash and cash held with CRA.

The pension expenses recognized in the Consolidated Statement of Comprehensive Income, as split in their DB and DC components, were as follows:

(in millions of Canadian dollars)	2022				2021			
	Registered Pension Plan	Supplementary Retirement Plan	Other benefit plans	Total	Registered Pension Plan	Supplementary Retirement Plan	Other benefit plans	Total
Defined benefit								
Current service costs	27	2	9	38	32	3	8	43
Administrative costs	1	–	–	1	1	–	–	1
Service costs	28	2	9	39	33	3	8	44
Interest cost on benefit obligation	46	4	7	57	41	4	6	51
Interest income on plan assets	(55)	(5)	–	(60)	(41)	(2)	–	(43)
Net interest on the defined benefit liability (asset)	(9)	(1)	7	(3)	–	2	6	8
Total defined benefit expense	19	1	16	36	33	5	14	52
Defined contribution expense								
	14	–	–	14	11	–	–	11
Total	\$ 33	\$ 1	\$ 16	\$ 50	\$ 44	\$ 5	\$ 14	\$ 63

KEY ASSUMPTIONS

The following table outlines the key assumptions used in measuring the obligations of the defined benefit components of the Plans:

Assumptions	Dec. 31, 2022			Dec. 31, 2021		
	Registered Pension Plan	Supplementary Retirement Plan	Other benefit plans	Registered Pension Plan	Supplementary Retirement Plan	Other benefit plans
<i>(Weighted average)</i>						
Defined benefit obligation:						
Discount rate	5.3%	5.3%	5.1%	3.4%	3.4%	3.1%
Inflation ⁽¹⁾	3.7% in 2023, 2.2% in 2024, 2.0% thereafter	3.7% in 2023, 2.2% in 2024, 2.0% thereafter	n/a	2.0%	2.0%	2.0%
Rate of compensation increase ⁽²⁾	3.5%	3.5%	4.2%	3.5%	3.5%	4.3%
Benefit plan expense:						
Discount rate on projected defined benefit obligation	3.4%	3.4%	3.1%	2.8%	2.8%	2.6%
Inflation	2.0%	2.0%	n/a	2.0%	2.0%	2.0%
Rate of compensation increase ⁽²⁾	3.5%	3.5%	4.3%	3.5%	3.5%	4.4%
Mortality table ⁽³⁾	CPM2014 Public table (scale CPM-B)					
Assumed medical cost trend:						
Initial medical cost trend rate ⁽⁴⁾	–	–	4.0%	–	–	4.0%
Medical cost trend rate declines to Year that the rate reaches the ultimate trend rate	–	–	n/a	–	–	n/a
Dental care trend	–	–	4.0%	–	–	4.0%

⁽¹⁾ The inflation rate is not explicitly used for the other benefit plans and is implicitly included in trend rates.

⁽²⁾ The rate of compensation increase includes a merit and promotional component which varies by age for each individual employee.

⁽³⁾ Size adjustment factor of 0.75 for both Male and Female applied to Supplementary Retirement Plan mortality table in both years.

⁽⁴⁾ Medical cost trend rate remains flat over the years.

Due to the long-term nature of defined benefit plans, the calculation of expenses and obligations depends on various assumptions. These assumptions require significant judgment and have inherent uncertainties that management may not be able to control. The assumptions are determined annually by management, in consultation with our actuaries.

Accounting standards require that the discount rate used to determine the DB obligations be based on market rates for high-quality corporate bonds that match the currency and estimated term of the obligations. Our methodology used to set the discount rate is based on the Canadian Institute of Actuaries' (CIA) preferred methodology. The standards also require that the interest income on plan assets be computed by applying the discount rate used to measure the plan obligation at the beginning of the year.

Assumptions regarding future mortality experience are set based on actuarial advice in accordance with published statistics in the form of post-retirement mortality tables. Actuarial adjustments to the tables are applied when recommended by the Plans' actuaries.

REMEASUREMENTS RECOGNIZED IN OTHER COMPREHENSIVE INCOME (OCI)

As a result of applying the previously discussed assumptions on defined benefits, actuarial gains or losses arise from the difference between actual and expected experience and are immediately recognized in OCI. These amounts have been transferred out to retained earnings. As such, there is no accumulated OCI in respect of these amounts.

The table below summarizes the remeasurement recognized in OCI during the year:

(in millions of Canadian dollars)	2022				2021			
	Registered Pension Plan	Supplementary Retirement Plan	Other benefit plans	Total	Registered Pension Plan	Supplementary Retirement Plan	Other benefit plans	Total
Remeasurement on retirement benefit obligations								
Actuarial gain (loss):								
plan experience	(43)	(16)	11	(48)	(3)	3	6	6
demographic assumptions	–	–	(7)	(7)	–	–	–	–
financial assumptions	364	35	73	472	159	15	22	196
	321	19	77	417	156	18	28	202
Remeasurement on plan assets excluding interest income								
Return (loss) on plan assets	(237)	(13)	–	(250)	132	9	–	141
Total	\$ 84	\$ 6	\$ 77	\$ 167	\$ 288	\$ 27	\$ 28	\$ 343

SENSITIVITY ANALYSIS

The following table outlines the potential impact of changes in certain key assumptions used in measuring the DB obligations. The sensitivity analysis contained in this table is hypothetical and should be used with caution.

(in millions of Canadian dollars)	Dec. 31, 2022			
	Registered Pension Plan	Supplementary Retirement Plan	Other benefit plans	Total
Sensitivity of Assumptions	Obligation	Obligation	Obligation	Obligation
Discount rate				
Impact of: 1% increase (\$)	(145)	(14)	(24)	(183)
Impact of: 1% decrease (\$)	184	18	31	233
Longevity risk sensitivity				
Impact of: increase of 1 year in life expectancy	21	2	4	27
Rate of compensation increase				
Impact of: 1% increase (\$)	15	7	1	23
Impact of: 1% decrease (\$)	(15)	(5)	(1)	(21)
Inflation rate assumption*				
Impact of: 0.25% increase (\$)	34	4	n/a	38
Impact of: 0.25% decrease (\$)	(33)	(4)	n/a	(37)

* Inflation rate assumption for the other benefit plans are already factored into the other sensitivities.

A one percentage point increase in assumed health care cost trends would have increased the service and interest cost by \$5 million and the obligation by \$33 million. Whereas a one percentage point decrease would have decreased the service and interest costs by \$4 million and the obligation by \$25 million.

TOTAL CONTRIBUTIONS

Total employer contributions for pension, other post-employment and other post-retirement benefits were as follows:

(in millions of Canadian dollars)	2022				2021			
	Registered Pension Plan	Supplementary Retirement Plan	Other benefit plans	Total	Registered Pension Plan	Supplementary Retirement Plan	Other benefit plans	Total
DB								
Regular contributions	17	1	3	21	16	1	3	20
Special contributions	5	14	–	19	15	11	–	26
Total defined benefit cash payments	22	15	3	40	31	12	3	46
DC								
Total defined contribution cash payments	14	–	–	14	11	–	–	11
Total cash payments	\$ 36	\$ 15	\$ 3	\$ 54	\$ 42	\$ 12	\$ 3	\$ 57

We expect to contribute \$35 million to the Plans in 2023 which includes \$11 million to the RPP DB component of the plan, \$13 million to the RPP DC component of the plan, \$5 million to the SRP DB component of the plan and \$6 million for the other benefit plans. Additional contributions to the SRP will be determined when the actuarial valuation is prepared.

FUNDING AND SOLVENCY VALUATION

Our appointed actuaries measure the DB obligations for accounting purposes as at December 31 of each year. We fund the DB component of the pension plans in accordance with actuarially determined amounts required to satisfy employee benefit obligations under current federal pension regulations. The most recent funding valuation for the RPP and the SRP was as at December 31, 2021. The next formal valuations will be conducted by the Plans' actuaries in 2023 and will be as at December 31, 2022.

The financial health of a pension plan is measured by actuarial valuations, which are prepared on both a going-concern and a solvency basis. The DB RPP ratios as at December 31, 2021 were 158.2% (2020 – 156.2%) on a going-concern basis and 103.5% (2020 – 91.2%) on a solvency basis. Since the solvency ratio for the RPP is less than 105%, we are required by federal pension legislation to make special monthly solvency contributions. During 2022, we contributed special payments of \$5 million into the RPP and \$14 million into the SRP. The solvency ratio for the SRP as at December 31, 2021 was 89.7% (2020 – 90.4%).

32. Related Party Transactions

We enter into transactions with other government departments, agencies and Crown corporations in the normal course of business, under terms and conditions similar to those that apply to unrelated parties. The following disclosure is in addition to the related party disclosure provided elsewhere in these financial statements. All material related party transactions are either disclosed below or in the relevant notes. These transactions were measured at their exchange amounts.

FINDEV CANADA DONOR CONTRIBUTIONS

In 2021, our subsidiary FinDev Canada received a \$75.9 million Concessional Facility (CF) from Global Affairs Canada (GAC). The CF is an arrangement between GAC and FinDev Canada for the purpose of fulfilling the Government of Canada's Gender Smart COVID-19 Recovery Facility. FinDev Canada will hold, manage, administer, use and invest the funds under the facility, with related financial results reported to GAC and consolidated within the financial statements of the Government of Canada. The portion of the facility allocated for administrative expenses incurred are recorded within our Consolidated Financial Statements as deferred revenue until earned. As discussed in Note 11, deferred revenue of \$11 million represents the unrecognized portion of donor contributions from GAC (2021 – \$13 million).

CANADA ACCOUNT ADMINISTRATIVE EXPENSE RECOVERY

As described in Note 33, we enter into certain financial and contingent liability transactions on behalf of the Government of Canada known as “Canada Account” transactions. In 2020, we also began administering Canada Account loans related to the CEBA program as part of Canada’s response to the COVID-19 pandemic. We are compensated for expenses and overhead relating to Canada Account activities. In 2022, the administrative expense recovery was \$5 million (2021 – \$4 million). These amounts are netted against administrative expenses on the Consolidated Statement of Comprehensive Income. During 2022, we incurred \$74 million (2021 – \$75 million) of recoverable expenses related to administering the CEBA program.

KEY MANAGEMENT PERSONNEL COMPENSATION

Key management personnel, defined as those having authority and responsibility for planning, directing and controlling the activities of EDC, include the Board of Directors and the Executive Management team.

The remuneration of key management personnel is determined as follows:

- Chairperson and other independent Directors receive an annual retainer for Board and Committee meetings based on a fee schedule in accordance with Treasury Board Guidelines. Chairs of committees receive a base retainer plus an additional \$2,000.
- Executive Management team, except for the President and CEO, remuneration is approved by the Human Resources Committee of the Board of Directors, having regard to the performance of individuals and market trends. For total compensation, EDC targets the median of its comparator group, which includes organizations from the finance, insurance, investment and banking industries as well as Crown corporations and other relevant industries.
- The President and CEO is compensated in accordance with the terms of the Order-in-Council based on recommendations made by the Board of Directors. Base salary for 2021-2022 was within the range of \$422,600–\$496,100.

Compensation paid or payable to key management personnel during the year, including non-cash benefits subject to income tax, was as follows:

<i>(in millions of Canadian dollars)</i>	2022	2021
Salaries and other short-term benefits ⁽¹⁾	9	7
Post-employment benefits ⁽²⁾	1	2
Total	\$ 10	\$ 9

⁽¹⁾ Includes compensation paid to the Chairperson and other independent Directors, Executive Management team salaries and non-monetary compensation.

⁽²⁾ Includes pensions and post-employment life insurance, as applicable.

33. Canada Account Transactions

Pursuant to the Act, the Minister, with the concurrence of the Minister of Finance, may authorize us to undertake certain financial and contingent liability transactions on behalf of the Government of Canada. These transactions and the legislative authorities that underlie them have come to be known collectively as “Canada Account”. Accounts for these transactions are maintained separately from our accounts and are consolidated annually as at March 31 with the financial statements of the Government of Canada, which are reported upon separately by the Government and audited by the Auditor General of Canada. The assets under the Canada Account, mainly loans receivable and accrued interest and fees, are recorded in accordance with the accounting policies and practices of the Government of Canada and amounted to \$58.5 billion at the end of December 2022 (2021 – \$62.3 billion).

The Act allows the Canada Account to have outstanding loans and commitments to borrowers and arrangements giving rise to contingent liabilities under contracts of insurance and other agreements up to a maximum of \$115 billion. The position against the statutory limit at the end of 2022, determined in accordance with the requirements of the Act, was \$72.2 billion (2021 – \$65.1 billion).



Ten-Year Review

Statement of Financial Position

as at December 31

<i>(in millions of Canadian dollars)</i>	2022	2021	2020	2019	2018
Gross loans receivable	54,193	48,437	54,772	51,601	54,609
Accrued interest and fees receivable	312	156	188	242	272
Deferred loan revenue and other credits	(323)	(248)	(238)	(278)	(315)
Allowance for losses on loans	(1,630)	(1,760)	(2,630)	(930)	(820)
Net loans receivable	52,552	46,585	52,092	50,635	53,746
Assets held for sale	80	1	9	39	13
Investments	2,771	2,707	2,032	1,627	1,342
Cash and marketable securities	9,814	9,289	10,745	10,930	13,289
Reinsurers' share of premium and claims liabilities	110	110	150	120	150
Property, plant and equipment	40	44	40	43	50
Intangible assets	46	63	84	108	110
Other assets	2,425	1,816	2,545	1,070	680
Total Assets	\$ 67,838	\$ 60,615	\$ 67,697	\$ 64,572	\$ 69,380
Loans payable	50,568	43,525	45,020	52,404	55,448
Other liabilities	4,180	1,572	2,217	1,755	2,519
Allowance for losses on loan commitments	10	20	50	10	20
Premium and claims liabilities	640	670	820	500	890
Loan guarantees	234	188	300	147	158
Total Liabilities	55,632	45,975	48,407	54,816	59,035
Share capital	8,490	12,300	12,300	1,333	1,333
Retained earnings	3,716	2,340	6,990	8,423	9,012
Equity	12,206	14,640	19,290	9,756	10,345
Total Liabilities and Equity	\$ 67,838	\$ 60,615	\$ 67,697	\$ 64,572	\$ 69,380

Statement of Financial Position

as at December 31

<i>(in millions of Canadian dollars)</i>	2017	2016	2015	2014	2013
Gross loans receivable	51,199	55,375	53,326	41,791	36,549
Accrued interest and fees receivable	241	236	200	163	154
Deferred loan revenue and other credits	(313)	(361)	(390)	(368)	(346)
Allowance for losses on loans	(1,363)	(1,552)	(1,715)	(1,163)	(1,246)
Net loans receivable	49,764	53,698	51,421	40,423	35,111
Assets held for sale	34	42	15	364	–
Investments	1,124	1,005	848	689	537
Cash and marketable securities	8,214	7,389	7,694	6,545	4,066
Reinsurers' share of premium and claims liabilities	103	116	141	88	93
Property, plant and equipment	54	55	53	56	59
Intangible assets	106	92	71	56	44
Other assets	721	727	726	783	1,606
Total Assets	\$ 60,120	\$ 63,124	\$ 60,969	\$ 49,004	\$ 41,516
Loans payable	47,114	49,101	46,909	38,038	31,259
Other liabilities	2,152	3,359	3,936	1,935	1,068
Allowance for losses on loan commitments	14	78	113	44	47
Premium and claims liabilities	608	656	688	618	606
Loan guarantees	192	167	158	153	165
Total Liabilities	50,080	53,361	51,804	40,788	33,145
Share capital	1,333	1,333	1,333	1,333	1,333
Retained earnings	8,707	8,430	7,832	6,883	7,038
Equity	10,040	9,763	9,165	8,216	8,371
Total Liabilities and Equity	\$ 60,120	\$ 63,124	\$ 60,969	\$ 49,004	\$ 41,516



Statement of Comprehensive Income

for the year ended December 31

<i>(in millions of Canadian dollars)</i>	2022	2021	2020	2019	2018
Financing and investment revenue:					
Loan	1,931	1,462	1,830	2,295	2,207
Finance lease	-	-	-	-	-
Operating lease	-	-	-	-	-
Marketable securities	175	82	165	255	257
Investments	26	16	14	7	9
Total financing and investment revenue	2,132	1,560	2,009	2,557	2,473
Interest expense	973	324	760	1,307	1,219
Leasing and financing related expenses	32	25	26	31	33
Net Financing and Investment Income	1,127	1,211	1,223	1,219	1,221
Loan Guarantee Fees	73	97	55	55	48
Insurance premiums and guarantee fees	290	285	265	243	243
Reinsurance ceded	(30)	(33)	(35)	(41)	(39)
Net Insurance Premiums and Guarantee Fees	260	252	230	202	204
Other (Income) Expenses	(444)	(741)	(195)	110	(98)
Administrative Expenses	659	619	556	538	497
Income before Provision and Claims-Related Expenses	1,245	1,682	1,147	828	1,074
Provision for (Reversal of) Credit Losses	69	(554)	2,083	240	(11)
Net Claims-Related Expenses (Recovery)	(33)	(51)	416	126	255
Net Income (Loss)	1,209	2,287	(1,352)	462	830
Other comprehensive income (loss)	167	343	(81)	(40)	44
Comprehensive Income (Loss)	\$ 1,376	\$ 2,630	\$ (1,433)	\$ 422	\$ 874

Statement of Comprehensive Income

for the year ended December 31

<i>(in millions of Canadian dollars)</i>	2017	2016	2015	2014	2013
Financing and investment revenue:					
Loan	1,915	1,720	1,475	1,239	1,174
Finance lease	–	1	5	5	6
Operating lease	–	–	–	50	55
Marketable securities	93	73	60	45	32
Investments	9	9	8	6	8
Total financing and investment revenue	2,017	1,803	1,548	1,345	1,275
Interest expense	715	450	183	70	30
Leasing and financing related expenses	45	37	28	48	49
Net Financing and Investment Income	1,257	1,316	1,337	1,227	1,196
Loan Guarantee Fees	43	40	41	36	36
Insurance premiums and guarantee fees	239	229	224	218	215
Reinsurance ceded	(39)	(37)	(30)	(23)	(22)
Net Insurance Premiums and Guarantee Fees	200	192	194	195	193
Other (Income) Expenses	34	76	(200)	(76)	109
Administrative Expenses	431	385	351	327	310
Income before Provision and Claims-Related Expenses	1,035	1,087	1,421	1,207	1,006
Provision for (Reversal of) Credit Losses	(119)	(31)	437	(39)	30
Claims-Related Expenses (Recovery)	157	46	59	117	159
Net Income (Loss)	997	1,072	925	1,129	817
Other comprehensive income (loss)	66	26	24	(155)	119
Comprehensive Income (Loss)	\$ 1,063	\$ 1,098	\$ 949	\$ 974	\$ 936

Corporate Account

Financial Arrangements Facilitated

<i>(in millions of Canadian dollars)</i>	2022	2021	2020	2019	2018
Financing					
Direct financing	24,586	18,285	18,143	25,008	27,109
Guarantees	3,401	3,707	3,247	2,078	2,053
	27,987	21,992	21,390	27,086	29,162
FinDev Canada business facilitated	207	361	144	85	39
Total	28,194	22,353	21,534	27,171	29,201
Insurance					
Credit insurance	86,620	71,030	58,201	57,569	58,555
Financial institutions insurance	6,573	6,733	9,189	6,915	4,259
International trade guarantee	11,386	10,381	11,701	8,612	10,204
Political risk insurance	833	865	1,867	2,407	2,438
Total	105,412	89,009	80,958	75,503	75,456
Financial and Other Data					
Financing <i>(in millions of Canadian dollars)</i>					
Value of gross loans receivable	54,193	48,437	54,772	51,601	54,609
Value of investments	2,771	2,707	2,032	1,627	1,342
Value of undisbursed loans	11,345	10,526	15,706	17,965	20,778
Value of undisbursed investments	1,043	884	770	839	736
Value of loan disbursements	20,227	16,196	25,345	21,692	31,240
Value of disbursements for investments	736	413	387	311	268
Value of liability on loan guarantees	4,324	4,010	4,016	2,972	2,993
Undisbursed amounts on loan guarantees	94	389	157	580	281
Amounts available for allocation under confirmed LOC	98	133	159	158	121
Loan amounts rescheduled	7	65	–	–	–
Loan amounts written off	183	93	94	105	119
Number of current lines of credit and protocols	6	6	6	7	8
Insurance <i>(in millions of Canadian dollars)</i>					
Value of liability on insurance and guarantees	32,665	28,579	28,987	23,690	23,930
Value of claims paid	77	54	164	465	74
Value of claims recovered	44	18	27	18	56
Value of claims outstanding at end of year	901	946	971	892	772
Value of claims under consideration at end of year	125	112	105	8	319
Number of policies issued	6,919	6,984	7,912	6,744	7,980
Number of insurance policies and guarantees in force*	8,643	8,970	8,627	7,574	7,776

* The 2020 amount has been restated to reflect the correct number of insurance policies and guarantees in force.

Corporate Account

Financial Arrangements Facilitated

<i>(in millions of Canadian dollars)</i>	2017	2016	2015	2014	2013
Financing					
Direct financing	26,756	26,587	24,277	20,613	17,497
Guarantees	1,601	1,483	1,133	963	851
	28,357	28,070	25,410	21,576	18,348
FinDev Canada business facilitated	–	–	–	–	–
Total	28,357	28,070	25,410	21,576	18,348
Insurance					
Credit insurance	55,827	55,724	60,175	56,020	56,224
Financial institutions insurance	8,205	7,421	7,666	11,415	10,630
International trade guarantee	8,795	8,098	8,149	7,216	7,467
Political risk insurance	2,551	2,728	2,805	2,643	2,743
Total	75,378	73,971	78,795	77,294	77,064

Financial and Other Data

Financing *(in millions of Canadian dollars)*

Value of gross loans receivable	51,199	55,375	53,326	41,791	36,549
Value of investments	1,124	1,005	848	689	537
Value of undisbursed loans	20,784	19,147	19,928	16,593	14,885
Value of undisbursed investments	785	914	903	672	541
Value of loan disbursements	27,625	22,709	18,800	15,186	14,100
Value of disbursements for investments	270	237	209	149	124
Value of liability on loan guarantees	2,473	2,411	2,086	1,963	1,954
Undisbursed amounts on loan guarantees	143	103	101	145	137
Amounts available for allocation under confirmed LOC	112	181	109	122	157
Loan amounts rescheduled	–	24	–	50	–
Loan amounts written off	43	193	42	165	62
Number of current lines of credit and protocols	12	13	16	21	26

Insurance *(in millions of Canadian dollars)*

Value of liability on insurance and guarantees	21,648	22,693	24,314	22,155	22,807
Value of claims paid	201	110	143	72	61
Value of claims recovered	44	23	15	13	10
Value of claims outstanding at end of year	791	732	806	666	637
Value of claims under consideration at end of year	310	305	307	12	30
Number of policies issued	6,750	6,490	6,623	7,018	7,836
Number of insurance policies and guarantees in force	7,318	7,302	7,383	7,967	8,553

* The 2020 amount has been restated to reflect the correct number of insurance policies and guarantees in force.



Canada Account

Financial Arrangements Facilitated

<i>(in millions of Canadian dollars)</i>	2022	2021	2020	2019	2018
Financing					
Canada Emergency Business Account	–	2,400	55,022	–	–
Direct financing	29,170	–	17,308 ⁽²⁾	9,370 ⁽²⁾	8,000
Subtotal	29,170	2,400	72,330	9,370	8,000
Insurance					
Credit insurance	–	–	–	28	15
Total	29,170	2,400	72,330	9,398	8,015

Financial and Other Data

Financing *(in millions of Canadian dollars)*

Value of total loans and notes receivable	57,776	62,081	48,843	7,767	6,593
Value of undisbursed loans	4,425	3,031	8,236	1,734	1,210
Value of loan disbursements (net of guarantees)	2,736	15,875	41,438	1,931	5,290
Value of liability on loan guarantees	4,850	11	33	55	76
Loan amounts rescheduled	2	4	–	–	–
Number of transactions financed	4	–	5	4	1

Insurance *(in millions of Canadian dollars)*

Value of liability on insurance and guarantees	–	–	–	–	–
Value of claims outstanding at end of year	–	–	–	–	–
Number of policies issued	–	–	–	–	–
Number of insurance policies and guarantees in force	–	–	–	–	1

⁽¹⁾ Includes activity pursuant to the Softwood Lumber deposit refund mechanism transactions.

⁽²⁾ Includes renewal activity considered new signings.

Canada Account

Financial Arrangements Facilitated

<i>(in millions of Canadian dollars)</i>	2017	2016	2015 ⁽¹⁾	2014 ⁽¹⁾	2013
Financing					
Canada Emergency Business Account	-	-	-	-	-
Direct financing	-	-	156	25	-
Subtotal	-	-	156	25	-
Insurance					
Credit insurance	36	28	41	28	30
Total	36	28	197	53	30

Financial and Other Data

Financing *(in millions of Canadian dollars)*

Value of total loans and notes receivable	2,586	2,998	3,359	2,924	2,821
Value of undisbursed loans	-	-	-	-	-
Value of loan disbursements (net of guarantees)	-	-	156	25	-
Value of liability on loan guarantees	98	121	142	164	186
Loan amounts rescheduled	-	-	-	83	-
Number of transactions financed	-	-	2	1	-

Insurance *(in millions of Canadian dollars)*

Value of liability on insurance and guarantees	5	3	7	6	9
Value of claims outstanding at end of year	-	-	-	-	-
Number of policies issued	-	-	-	-	-
Number of insurance policies and guarantees in force	1	1	1	1	1

⁽¹⁾ Includes activity pursuant to the Softwood Lumber deposit refund mechanism transactions.

⁽²⁾ Includes renewal activity considered new signings.