

# PENSION RESERVE FUND

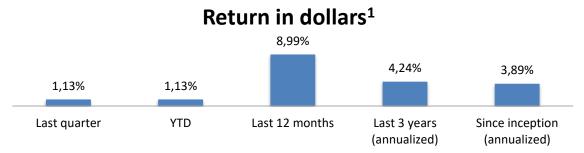
Quarterly Executive Report as of March 2018

## **EXECUTIVE SUMMARY**

First Quarter 2018

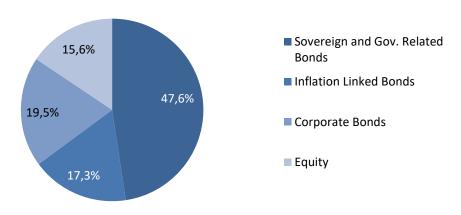
Market Value US\$ 10.1 billion

# Net Income US\$ 112.8 million



Source: Ministry of Finance, based on information provided by JPMorgan.

## **Portfolio Composition**



<sup>&</sup>lt;sup>1</sup> Returns reported in this document correspond to the Time Weighted Rate of Return (TWR), unless otherwise stated. Returns for periods greater than one year are annualized. For periods of less than one year, the return corresponds to the change during the period. Net returns reported are net of management fees.

### ı. Market Value of the Fund

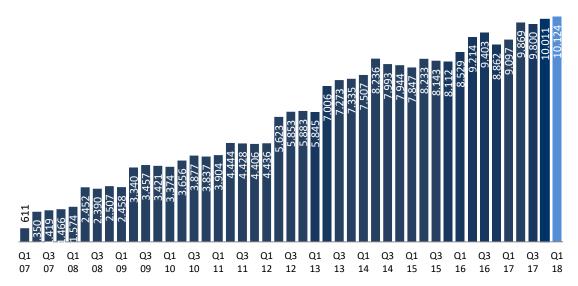
**Table 1**: **Quarterly change in market value** (millions of dollars)

Changes in Market Value	2017			2018	Since
(US\$ million)	Q2	Q3	Q4	Q1	Inception <sup>(a)</sup>
Starting Market Value	9,097.0	9,868.7	9,799.7	10,011.0	0.0
Contributions	505.2	0.0	0.0	0.0	8,371.7
Withdrawals	0.0	-313.9	0.0	0.0	-313.9
Accrued Interest	52.5	53.2	50.6	53.4	1,481.8
Capital Gains (Losses)	215.3	192.9	162.1	60.6	610.7
Admin., Custody and Other Costs (b)	-1.2	-1.0	-1.5	-1.1	-26.5
Final Market Value	9,868.7	9,799.7	10,011.0	10,123.8	10,123.8

<sup>(</sup>a) The PRF was stablished with an initial contribution of US\$ 604.5 million on December 28, 2006.

Source: Ministry of Finance, based on information provided by JPMorgan.

**Figure 1: Evolution of the PRF market value** (millions of dollars)



<sup>(</sup>b) It includes costs associated with consultants and others.

#### II. Returns

Table 2: Performance by asset class<sup>2</sup> (percent)

Returns <sup>(a)</sup>	Last 3 months	YTD	Last 12 months	Last 3 years (annualized)	Since Inception (annualized) <sup>(b)</sup>
Sovereign and Government Related Bonds	2.52%	2.52%	8.10%	3.40%	
Inflation Indexed Sov. Bonds	1.55%	1.55%	8.99%	3.47%	
Corporate Bonds	-0.94%	-0.94%	6.34%	3.14%	
Equities	-0.84%	-0.84%	15.11%	8.50%	
Total Portfolio	1.13%	1.13%	8.99%	4.24%	3.89%
Exchange rate (CLP)	-1.62%	-1.62%	-8.66%	-1.16%	1.05%
Return in CLP <sup>(c)</sup>	-0.51%	-0.51%	-0.45%	3.03%	4.98%

<sup>(</sup>a) Time Weighted Return (it is calculated as the growth rate of the funds that were invested throughout the period).

Source: Ministry of Finance, based on information provided by JPMorgan.

Table 3: Excess returns

(basis points)

Asset Class	Last 3 months	YTD	Last 12 months	Last 3 years (annualized)	Since Inception (annualized) <sup>(a)</sup> (b) (c)
Sovereign portfolio	3	3	2	-1	0
Corporate Bonds	-11	-11	-14	-12	0
Equities	0	0	-31	-22	0
Total Portfolio	-5	-5	-5	-7	-27

<sup>(</sup>a) Excess returns without waiver.

<sup>(</sup>b) It is calculated from March 31, 2007, when the performance of Central Bank of Chile started to be measured.

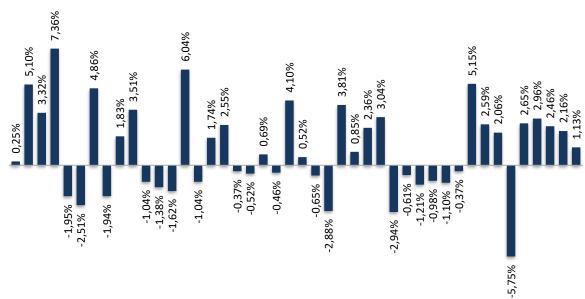
<sup>(</sup>c) Returns in CLP corresponds to the sum of the percentage change of the exchange rate CLP/USD and the return in USD.

<sup>(</sup>b) Returns by asset class are unavailable before January 17, 2012.

<sup>(</sup>c) It is calculated from March 31, 2007, when the performance of Central Bank of Chile started to be measured.

<sup>&</sup>lt;sup>2</sup> Returns for periods of more than one year are compound annualized rates while those for less than a year correspond to the change as seen in the stated period. To meet high standards of transparency and provide a better assessment of the gains or losses on investments, the Ministry of Finance discloses the fund's return in different time horizons and currencies. With respect to the time horizon, it is important to note that, in keeping with the medium-and long term investment policy, the return assessment should focus on that period, disregarding fluctuations that may occur monthly or quarterly. With regard to returns expressed in different currencies, the return in US dollars allows for an assessment which is more in line with the investment policy given that the fund's resources are wholly invested abroad and in foreign currencies. The return in Chilean pesos is also disclosed. This return reflects changes in the peso-dollar exchange rate and, therefore, may experience greater fluctuations. Finally, as with any investment, returns obtained in the past do not guarantee future positive results.

Figure 2: Quarterly returns in dollars (TWR) (percent)



Source: Ministry of Finance, based on information provided by JPMorgan

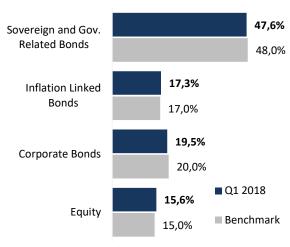
Figure 3: Internal rate of return (IRR) (percent)



#### III. Portfolio Allocation

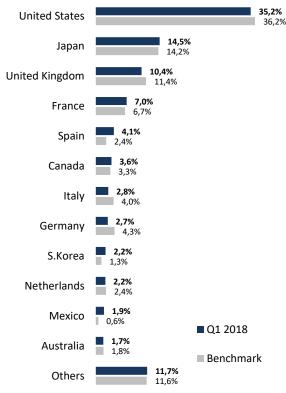
#### III.1. Total portfolio

Figure 4: Investment by asset class (percent of total)



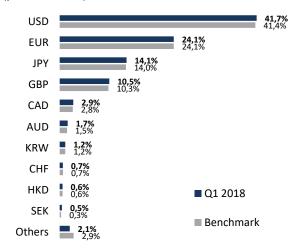
Source: Ministry of Finance, based on information provided by JPMorgan.

Figure 6: Investments by country (percent of total)



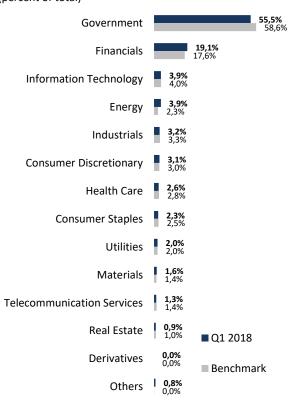
Source: Ministry of Finance, based on information provided by JPMorgan.

Figure 5: Investment by currency (percent of total)



Source: Ministry of Finance, based on information provided by JPMorgan.

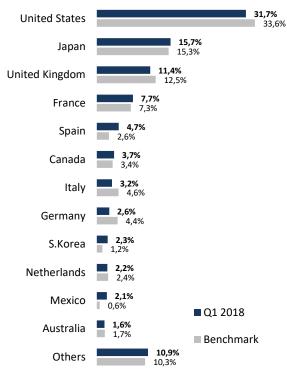
Figure 7: Investment by economic sector (percent of total)



#### III.2. Fixed-Income portfolio

Figure 8: Allocation by country

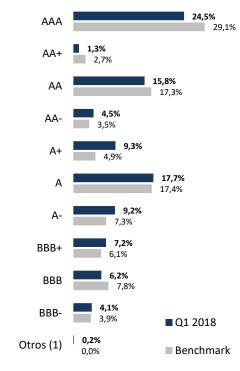
(percent of fixed-income portfolio)



Source: Ministry of Finance, based on information provided by JPMorgan.

Figure 9: Portfolio allocation by Credit Risk

(percent of fixed-income portfolio)



(a) Includes cash and cash equivalents.

 ${\bf Source: Ministry\ of\ Finance,\ based\ on\ information\ provided\ by\ JPMorgan.}$ 

Table 4: Portfolio by issuer credit rating

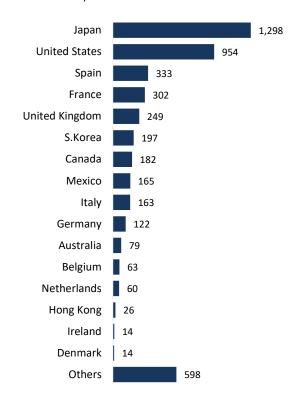
(percent of the fixed-income portfolio)

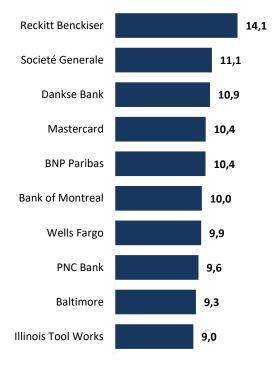
Rating	Sovereign and Government Related Bonds	Inflation Indexed Sov. Bonds	Corporate Bonds	Total Fixed Income
AAA	14.6%	9.9%	0.1%	24.5%
AA+	0.6%	0.2%	0.5%	1.3%
AA	6.7%	8.9%	0.2%	15.8%
AA-	3.4%	0.0%	1.1%	4.5%
A+	6.6%	0.1%	2.6%	9.3%
Α	14.0%	0.0%	3.7%	17.7%
A-	4.4%	0.4%	4.4%	9.2%
BBB+	2.6%	0.0%	4.6%	7.2%
BBB	1.9%	1.0%	3.3%	6.2%
BBB-	1.5%	0.0%	2.6%	4.1%
Others (a)	0.0%	0.0%	0.1%	0.2%
Total	56.4%	20.5%	23.1%	100.0%

(a) Includes cash, cash equivalents and unliquidated transactions.

Figure 10: Principal exposures to sovereign bonds (millions of dollars)

Figure 11: Principal exposures to corporate bonds (millions of dollars)

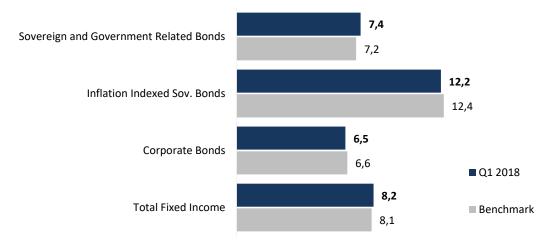




Source: Ministry of Finance, based on information provided by JPMorgan.

Fuente: Ministerio de Hacienda en base a información de JPMorgan.

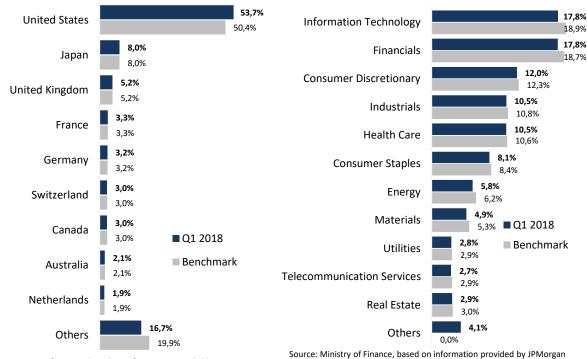
Figure 12: Duration (years)



#### III.3. Equities

Figure 13: Allocation by country (percent of equity portfolio)

Figure 14: Allocation by economic sector (percent of equity portfolio)

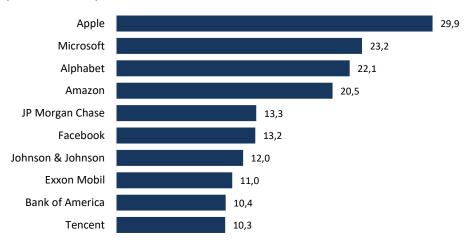


Source: Ministry of Finance, based on information provded by JPMorgan.

Source: Ministry of Finance, based on information provided by JPMorgan

Figure 15: Principal equity exposures

(millions of dollars)



#### **IV. Other indicators**

An indicator commonly used for monitoring the market risk of the portfolio is the return volatility. In the quarter, the standard deviation of returns of the PRF was 5.07%<sup>3</sup>. The tracking error ex-post, an indicator used to measure the degree of how close the portfolio tracks the return of benchmark, was 13 basis points<sup>4</sup> at the quarter end.

Table 5: Standard deviation and tracking error ex-post

	Q1 2018 <sup>(a)</sup>
Standard Deviation	5.07%
Tracking error ex-post (basis points)	13

### v. Securities Lending Income and Administration Cost

Source: Ministry of Finance, based on information provided by JPMorgan.

The cost associated with the management of the fund by those responsible for the investment<sup>5</sup> was US\$758,597 during the quarter, while expenses associated with the custody service<sup>6</sup> were US\$275,234 and the cost of the consulting was 70.941. Meanwhile, the securities lending program generated revenues of US\$219,665 during the same period (see table 6).

Table 6: Other flows in the quarter (in dollars)

<b>,</b> , , , , , , , , , , , , , , , , , ,		Q1 2018
Outflow		
Administration		785.597
Custody		275.234
Others (Verus consulting)		70.941
	Total	1.131.772
Inflows		
Securities Lending		219.665
Others		0
	Total	219.665

Source: Ministry of Finance, based on information provided by JPMorgan and the Central Bank of Chile.

<sup>&</sup>lt;sup>3</sup> Corresponds to the standard deviation of annualized monthly returns of the past three years.

<sup>&</sup>lt;sup>4</sup> Corresponds to the standard deviation of annualized monthly excess returns of the portfolio against the benchmark in the past three years

<sup>&</sup>lt;sup>5</sup> The Central Bank of Chile is responsible for the investment of the sovereign fixed-income portfolio (65% of the fund), while Mellon Capital Management Corporation and BlackRock Institutional Trust Company for the investment of the equity portfolios (15%), and Rogge Global Partners Plc and BlackRock Institutional Trust Company for the corporate bond portfolios (20%). The entities responsible for investing portfolios of equities and corporate bond portfolios were selected in 2011.

<sup>&</sup>lt;sup>6</sup> The custodian bank is J.P. Morgan.

## vı. Appendix

#### **Benchmarks**

A benchmark is defined for each asset class of the strategic asset allocation, and corresponds to a representative index of the corresponding market:

Asset Class	Percent of total portfolio	Benchmarks
Sovereign and Government		Barclays Capital Global Aggregate: Treasury Bond Index (unhedged)
Related Bonds (a)	48%	Barclays Capital Global Aggregate: Government-Related
Inflation Indexed Sov. Bonds	17%	(unhedged)  Barclays Capital Global Inflation-Linked Index (unhedged)
Corporate Bonds	20%	Barclays Capital Global Aggregate: Corporates Bond Index (unhedged)
Equities	15%	MSCI All Country World Index (unhedged with reinvested dividends)

<sup>(</sup>a) For this asset class, the subindexes are weighted by relative capitalization.