

# **Chief Investment Officer Monthly Report**

Jonathan Grabel - Chief Investment Officer

Board of Investments Meeting April 12, 2023

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# 01 Market Environment

### Global Market Performance as of March 31, 2023

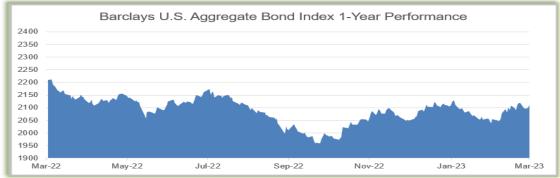


#### MSCI ACWI IMI Index (Global Equity Market)\* Trailing Returns (%) Annualized Returns (%) 1-Month 3-Month FYTD YTD 1Y 3Y 5Y 10Y 2.5 -7.7 7.9 9.7 6.9 15.6 6.6



\*Global Equity Policy Benchmark - MSCI ACWI IMI Index

#### Barclays U.S. Aggregate Bond Index\*\* Trailing Returns (%) Annualized Returns (%) 1-Month 3-Month FYTD YTD 3Y 5Y 10Y 0.9 -0.1 3.0 -4.8 -2.8 1.4 3.0

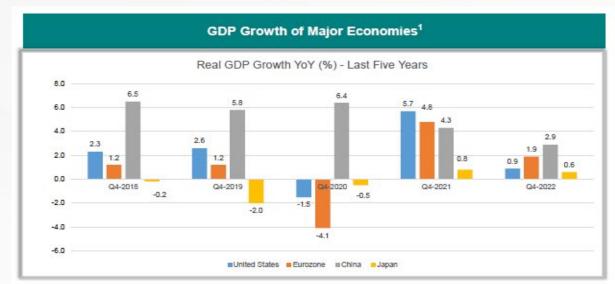


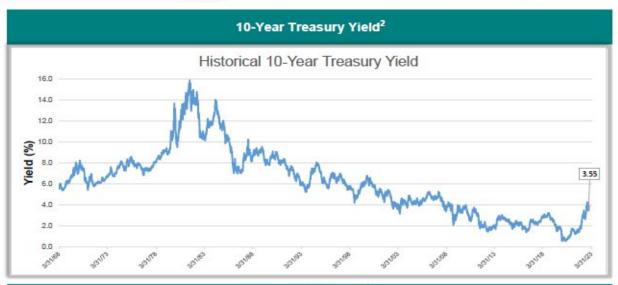
\*\*Investment Grade Bonds Policy Benchmark - Barclays U.S. Aggregate Bond Index

Market	Sub-Category	Index Name	1-Month	3-Month	FYTD	YTD	1 Y	3 Y	5 Y	10 Y
	Global All Cap	MSCI ACWI IMI Total Return	2.5	6.9	9.7	6.9	-7.7	15.6	6.6	7.9
	U.S. All Cap	Russell 3000 Total Return	2.7	7.2	9.7	7.2	-8.6	18.5	10.4	11.7
Equity	U.S. Large Cap	S&P 500 Total Return	3.7	7.5	10.0	7.5	-7.7	18.6	11.2	12.2
Equity	U.S. Small Cap	Russell 2000 Total Return	-4.8	2.7	6.8	2.7	-11.6	17.5	4.7	8.0
	Non-U.S. All Cap	MSCI ACWI-ex U.S. IMI Total Return	2.1	6.6	9.9	6.6	-5.8	12.2	2.4	4.3
	Emerging Markets	MSCI Emerging Markets Total Return	3.0	4.0	8.0	4.0	-10.7	7.8	-0.9	2.0
Private Equity	Private Equity Buyout	Thomson Reuters PE Buyout Index	-2.2	-7.7	1.8	-7.7	-27.2	15.8	5.7	10.7
	U.S. Investment Grade Bonds	Bloomberg U.S. Aggregate Index	2.5	3.0	-0.1	3.0	-4.8	-2.8	0.9	1.4
	U.S. Corporate High Yield Bonds	Bloomberg U.S. Corporate High Yield Total Return	1.1	3.6	7.2	3.6	-3.3	5.9	3.2	4.1
Fixed Income	Developed Markets Leveraged Loans	Credit Suisse Leveraged Loan Total Return	-0.1	3.1	6.8	3.1	2.1	8.4	3.5	3.9
	U.S. Treasury Inflation Protected Securities	Bloomberg U.S. Treasury TIPS Total Return Index	2.9	3.3	0.0	3.3	-6.1	1.8	2.9	1.5
	U.S. 3 Month Treasury Bill	FTSE 3 Month Treasury Bill	0.4	1.1	2.5	1.1	2.6	1.0	1.4	0.9
Commodity	Commodity Prices Index	Bloomberg Commodity Index Total Return	-0.2	-5.4	-7.2	-5.4	-12.5	20.8	5.4	-1.7
Commodity	Natural Resources	S&P Global LargeMidCap Commodity & Resources Index	-0.4	-1.3	10.9	-1.3	-5.8	29.7	10.1	4.9
Infrastracture	Global Infrastructure	Dow Jones Brookfield Global Infrastructure Composite Index	2.1	3.1	1.2	3.1	-6.1	12.2	5.6	5.2
Real Estate	U.S. REITs	MSCI U.S. REIT Index	-2.5	2.7	-2.7	2.7	-19.2	12.0	6.1	6.0

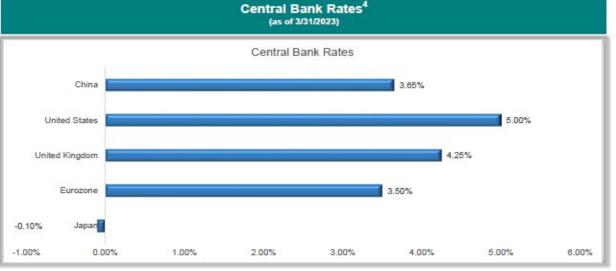
## **Key Macro Indicators\***







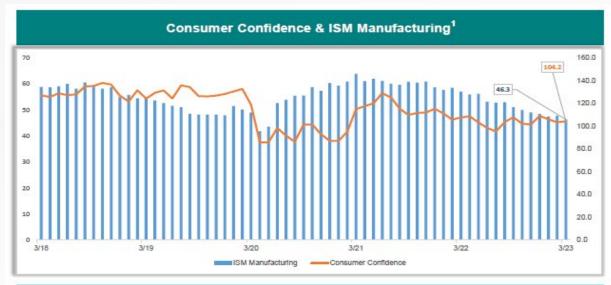


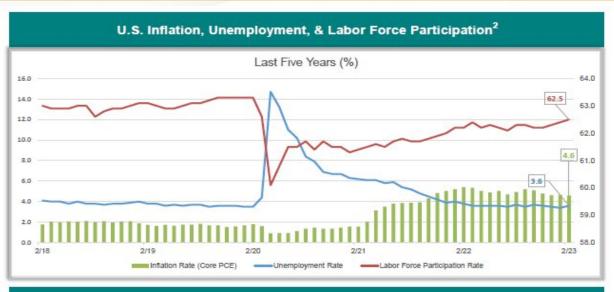


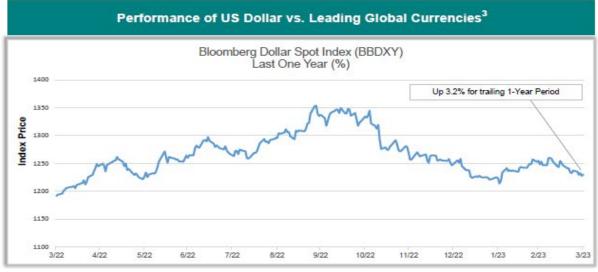
<sup>\*</sup>The information on the "Key Macro Indicators" charts is the best available data as of 3/31/23 and may not reflect the current market and economic environment

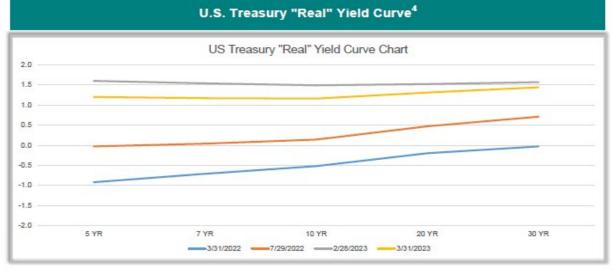
## **Key Macro Indicators\***











<sup>\*</sup>The information on the "Key Macro Indicators" charts is the best available data as of 3/31/23 and may not reflect the current market and economic environment

### **Market Themes and Notable Items to Watch**



#### **Recent Themes**

- Regulators and central bankers acted to calm investors and depositors after an abrupt collapse of Silicon Valley Bank incited stress throughout the banking sector and financial markets
- In March the Federal Reserve announced a 0.25% interest rate increase to a target range of 4.75% to 5%, the highest since 2007
- Inflation remains elevated, with the Consumer Price Index rising 6% in February and core services exhousing inflation (which Federal Reserve Chair Jerome Powell has cited as the "most important" measure of inflation) up 5% year over year
- The U.S. labor market has also shown strength, with unemployment hovering near multi-decade lows and more than 300,000 new jobs added in February
- The U.S. 10-year Treasury yield ended March at 3.55%, after being 3.88% at the end of 2022, 1.52% at the end of 2021 and 0.93% at the end of 2020
- Global equities (MSCI All Country World Investable Market Index) gained 2.5% in March

#### What to Watch

- Interest rates and central bank actions
- Economic data and trends
  - Inflation, supply chains, and labor developments
- Macro conditions and geopolitical risks
- Environmental, social, and governance
  - Securities and Exchange Commission insider trading rule (10b5-1) revised last fall is effective April 1 and requires longer time between preset trading plan adoption and permissible trading, and would have constrained Q1 SVB CEO stock sales
- Level of stress within and overall health of the global banking system



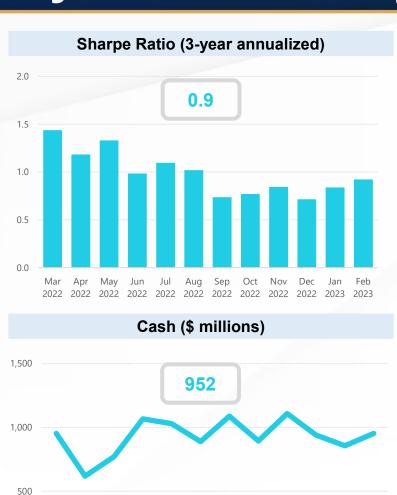
# Portfolio Performance & Risk Updates

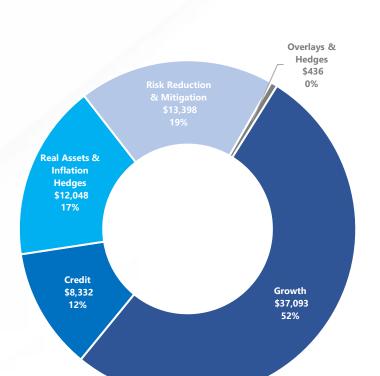
## Total Fund Summary as of February 2023











**Asset Allocation (\$ millions)** 

2022 2022 2022 2022 2022 2022 2022 2022 2022 2022 2023 2023

Jul Aug Sep Oct Nov Dec

May Jun

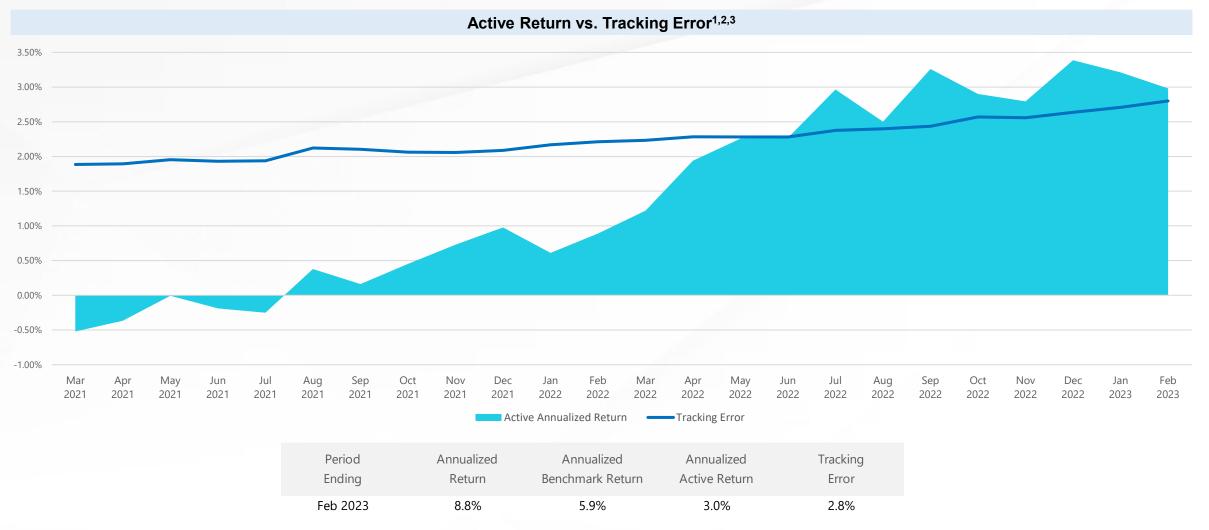
## Historical Net Performance as of February 2023



						LAC	CERA P	ensior	n Fund	t		
otal Fund Total Fund Policy BM 7% Annual Hurdle Rate	Market Value (\$ millions) <b>71,307</b>	% of Total Fund <b>100.0%</b>	Interim Target 100.0%	1 Month -1.5% -0.3% 0.6%	3 Month <b>0.5%</b> 1.0% 1.7%	FYTD <b>2.5%</b> 1.5% 4.6%	1 Year -1.5% -5.2% 7.0%	3 Year <b>8.8%</b> 5.9% 7.0%	5 Year 7.1% 5.9% 7.0%	10 Year <b>7.8%</b> 7.3% 7.0%	10.0%	
<b>Growth</b> Growth Policy BM	37,093	52.0%	53.0%	<b>-1.4%</b> 0.7%	<b>0.8%</b> 1.4%	<b>3.9%</b> 1.9%	<b>-2.5%</b> -7.5%	<b>13.8%</b> 9.8%			0.0%	
Credit Credit Policy BM	8,332	11.7%	11.0%	<b>0.3%</b> 1.9%	<b>2.9%</b> 5.1%	<b>4.3%</b> 4.2%	<b>-1.5%</b> -2.8%	<b>3.8%</b> 1.4%			-5.0%	
Real Assets & Inflation Hedges Real Assets & Inflation Hedges Policy BM	12,048	16.9%	17.0%	<b>-3.2%</b> -3.1%	<b>-2.7%</b> -2.5%	<b>0.0%</b> 1.1%	<b>1.9%</b> 1.7%	<b>8.9%</b> 9.3%			-10.0%	
Risk Reduction & Mitigation Risk Reduction & Mitigation Policy BM	13,398	18.8%	19.0%	<b>-1.6%</b> -2.0%	<b>1.4%</b> 0.5%	<b>-1.2%</b> -2.0%	<b>-6.4%</b> -7.9%	<b>-1.4%</b> -2.6%			10.070	1 Month 3 Month FYTD 1 Year 3 Year 5 Year 10 Year
Overlays & Hedges	436	0.6%		12.8%	-9.3%							■ Total Fund ■ Total Fund Policy BM
						0	PEB M	aster T	rust			
	Market Value (\$ millions)	% of Master Trust	Interim Target	1 Month	3 Month	FYTD	1 Year	3 Year	5 Year		10.0%	
PEB Master Trust Los Angeles County Superior Court	<b>2,718</b> 2,648 58	97.4% 2.1%	_	<b>-2.6%</b> -2.6% -2.6%	<b>0.3%</b> 0.3% 0.5%	<b>4.0%</b> 4.0% 3.9%	<b>-7.3%</b> -7.3% -7.2%	<b>5.8%</b> 5.8% 5.8%	<b>4.5%</b> 4.6% 4.5%		5.0%	
LACERA	12	0.4%	_	-2.6%	0.4%	4.0%	-7.4%	5.8%	4.5%			
ACERA Master OPEB Trust Fund OPEB Master Trust Policy Benchmark	2,717		100.0%	<b>-2.6%</b> -1.8%	<b>0.4%</b> 0.7%	<b>3.8%</b> 3.9%	<b>-7.3%</b> -7.3%	<b>5.9%</b> 5.6%	<b>4.6%</b> 4.2%		0.0%	
OPEB Growth OPEB Growth Policy Benchmark	1,305	48.0%	47.5%	<b>-2.8%</b> -2.2%	<b>0.3%</b> 0.6%	<b>7.1%</b> 6.3%	<b>-7.9%</b> -8.7%	<b>9.1%</b> 8.6%	<b>5.9%</b> 5.5%		-5.0%	
OPEB Credit OPEB Credit Policy Benchmark	516	19.0%	19.0%	<b>-0.8%</b> -0.1%	<b>2.8%</b> 3.2%	<b>6.7%</b> 5.9%	<b>-1.5%</b> -2.4%	<b>1.1%</b> 1.1%				
OPEB Real Assets & Inflation Hedges OPEB RA & IH Policy Benchmark	538	19.8%	20.0%	<b>-3.9%</b> -2.2%	<b>-1.5%</b> -1.3%	<b>-2.6%</b> 0.6%	<b>-10.2%</b> -7.6%	<b>5.5%</b> 6.4%			-10.0%	1 Month 3 Month FYTD 1 Year 3 Year 5 Year
OPEB Risk Reduction & Mitigation OPEB RR & M Policy Benchmark	357	13.2%	13.5%	<b>-2.6%</b>	<b>0.3%</b> 0.1%	<b>-1.5%</b> -3.0%	<b>-7.2%</b> -8.7%	<b>-2.7%</b> -3.3%	<b>0.9%</b> 0.5%			■ Los Angeles County ■ Superior Court ■ LACERA

## Performance Based Risk as of February 2023





<sup>&</sup>lt;sup>1</sup> Rolling 36 months

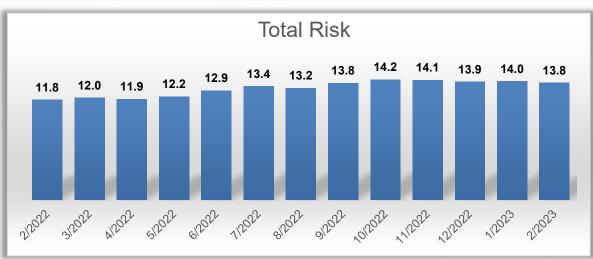
<sup>&</sup>lt;sup>2</sup> Active return equals the difference in return between a portfolio and its benchmark.

<sup>&</sup>lt;sup>3</sup> Tracking error (or active risk) measures the volatility of active returns.

# Total Fund Forecast Risk\* as of February 2023







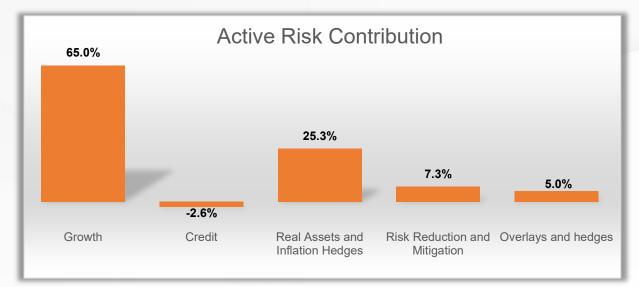
	%Weight	% Cont. to Tota Risk	l Standalone Total Risk	Standalone Benchmark Risk
Total Fund			13.8	13.1
Growth	52.2%	77.5%	20.7	19.7
Global Equity	32.9%	42.2%	18.6	18.7
Private Equity	17.6%	32.0%	28.3	27.1
Non-Core Private Real Estate	1.6%	3.4%	41.4	19.5
Credit	11.4%	2.8%	4.5	5.6
Liquid Credit	5.9%	2.0%	6.2	5.6
Illiquid Credit	5.5%	0.8%	3.8	5.6
Real Assets & Inflation Hedges	17.2%	17.0%	15.0	14.1
Core Private Real Estate	5.9%	6.5%	21.6	19.5
Natural Resources & Commodities	3.1%	3.3%	18.5	20.2
Infrastructure	5.5%	6.6%	18.0	18.1
TIPS	2.7%	0.6%	6.8	6.8
Risk Reduction and Mitigation	18.6%	1.8%	6.2	6.1
Investment Grade Bonds	7.0%	0.8%	6.6	6.5
Diversified Hedge Funds	6.1%	0.5%	3.9	0.2
Long-Term Government Bonds	4.1%	0.5%	14.5	14.5
Cash	1.4%	0.0%	-	
Overlays and Hedges	0.6%	0.8%		

<sup>\*</sup>Implementation of the MSCI Risk Platform is ongoing; reconciliation and refinement of the data is progressing and subject to change. Real estate and private equity data used is as of 9/30/2022

SOURCE: MSCI

# Total Fund Forecast Active Risk\* as of February 2023







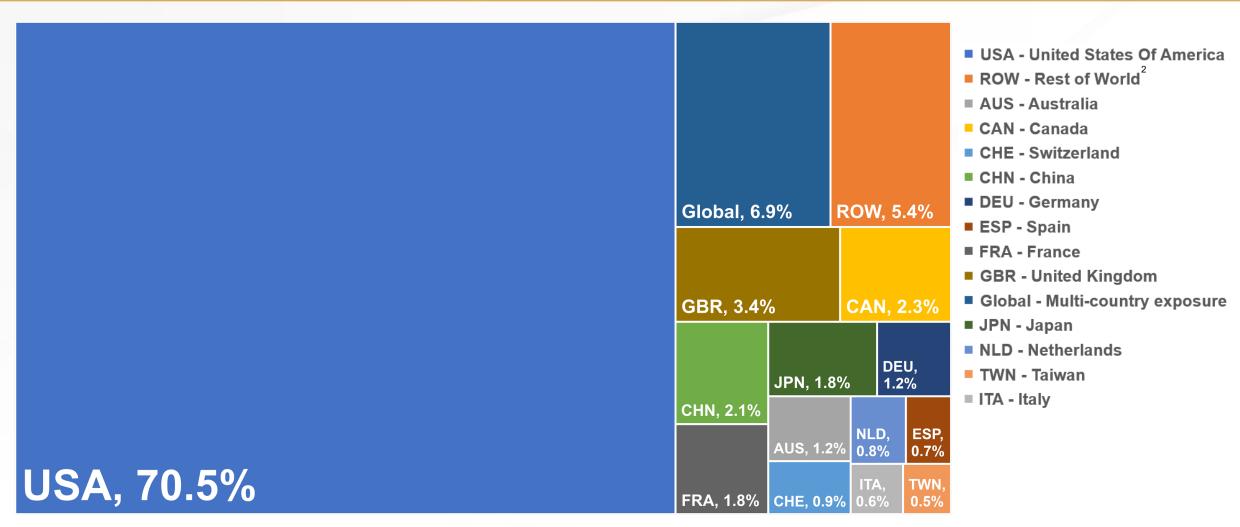
	%Weight	Active Weight%	Active Risk	Active Risk Allocation	Active Risk Selection
Total Fund			1.20	0.02	1.18
Growth	52.2%	-0.83%	0.78	-0.04	0.82
Global Equity	32.9%				
Private Equity	17.6%				
Non-Core Private Real Estate	1.6%				
Credit	11.4%	0.42%	-0.03	-0.02	-0.01
Liquid Credit	5.9%				
Illiquid Credit	5.5%				
Real Assets & Inflation Hedges	17.2%	0.16%	0.30	0.00	0.31
Core Private Real Estate	5.9%				
Natural Resources & Commodities	3.1%				
Infrastructure	5.5%				
TIPS	2.7%				
Risk Reduction and Mitigation	18.6%	-0.36%	0.09	0.03	0.06
Investment Grade Bonds	7.0%				
Diversified Hedge Funds	6.1%				
Long-Term Government Bonds	4.1%				
Cash	1.4%				
Overlays and Hedges	0.6%	0.61%	0.06	0.06	-

<sup>\*</sup>Implementation of the MSCI Risk Platform is ongoing; reconciliation and refinement of the data is progressing and subject to change. Real estate and private equity data used is as of 9/30/2022

SOURCE: MSCI BarraOne

# Geographic Exposures by AUM\* - Total Fund as of February 2023 ex-overlays & hedges





<sup>\*</sup>AUM = assets under management

SOURCE: MSCI BarraOne

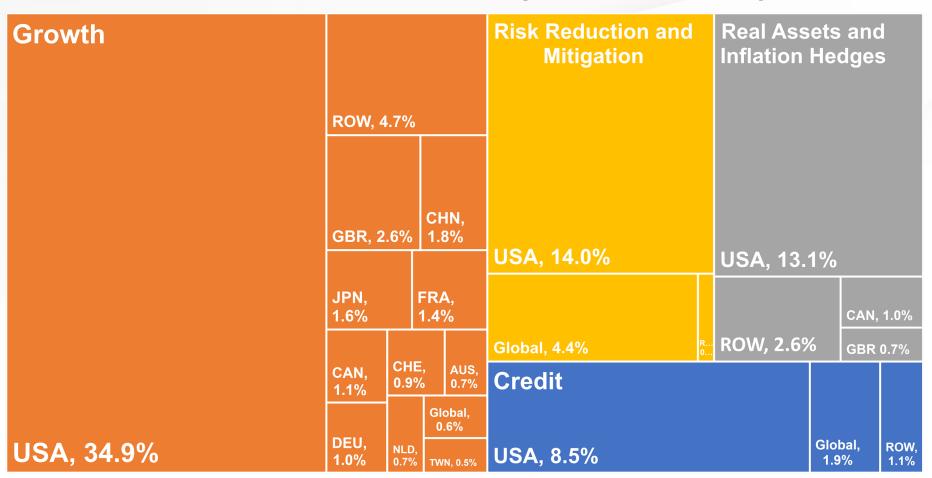
<sup>1 \*</sup>Implementation of the MSCI Risk Platform is ongoing; reconciliation and refinement of the data is progressing and subject to change. Real estate and private equity data used is as of 9/30/2022

<sup>&</sup>lt;sup>2</sup> "ROW - Rest of World" is sum of countries with weight below 0.5%

<sup>&</sup>lt;sup>3</sup> Geographic exposure is based on the domicile country of a given security/asset

# Geographic Exposures by AUM\* - Asset Categories as of February 2023 ex-overlays & hedges

■ Credit ■ Growth ■ Real Assets and Inflation Hedges ■ Risk Reduction and Mitigation



**USA - United States Of America** 

AUS - Australia

CAN - Canada

CHE - Switzerland

CHN - China

**DEU - Germany** 

FRA - France

GBR - United Kingdom

Global - Multi-country exposure

JPN - Japan

**NLD** - Netherlands

ROW - Rest of World<sup>2</sup>

TWN - Taiwan

SOURCE: MSCI BarraOne

<sup>\*</sup>AUM = assets under management

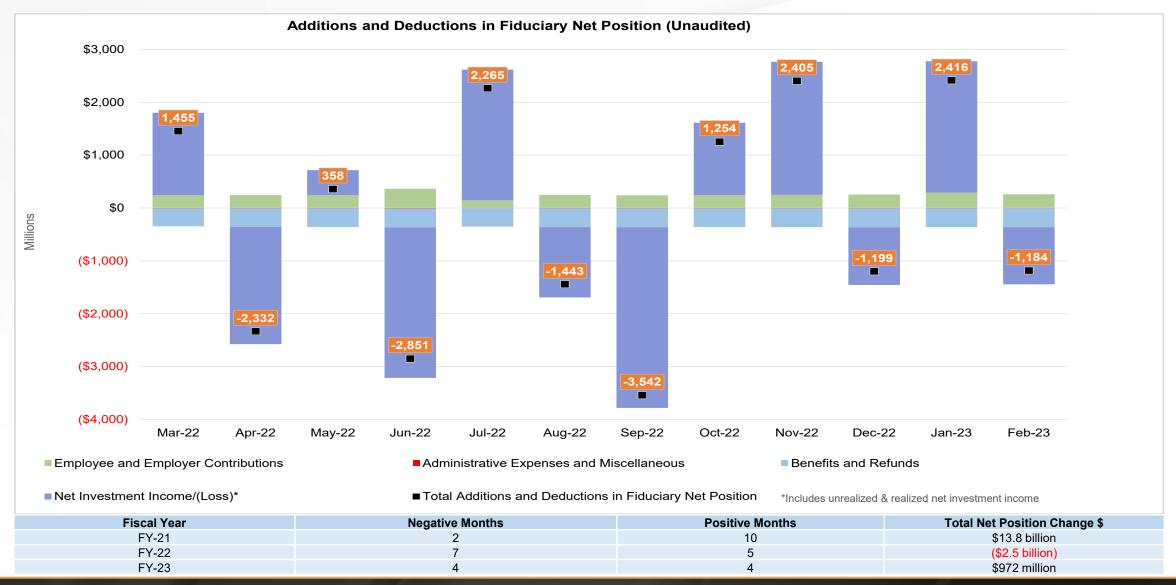
<sup>1\*</sup>Implementation of the MSCI Risk Platform is ongoing; reconciliation and refinement of the data is progressing and subject to change. Real estate and private equity data used is as of 9/30/2022

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## Change In Fiduciary Net Position







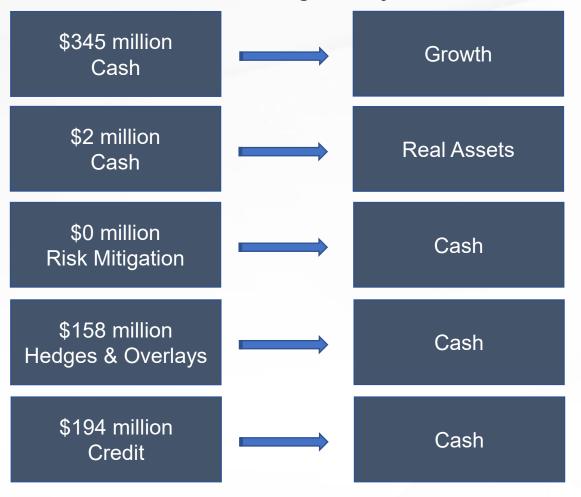
# Portfolio Structural Updates

### **Portfolio Structural Updates**



#### **Portfolio Movements**

#### **Rebalancing Activity**



#### **Hedges & Overlays**

#### **Monthly Activity**

Program	February Return	February Gain/(Loss)	Inception <sup>1</sup> Gain/(Loss)
Currency Hedge <sup>2</sup>	1.4%	(\$92.3 Million)	\$1.4 Billion
Cash/Rebalance Overlay <sup>3</sup>	-1.7%	(\$38.1 Million)	\$275.8 Million

<sup>&</sup>lt;sup>1</sup> Currency and overlay program inception dates are 8/2010 & 7/2019, respectively.

#### **Current Search Activity**

#### **Status of Active Searches – Subject to Change**

Name	RFP Issued	Due Diligence	BOI Review
Real Assets Emerging Manager Program Search	<b>✓</b>	$\checkmark$	Anticipated Q3 2023
OPEB Public Markets Passive Investment Management Search	✓	•	Anticipated Q3 2023

<sup>&</sup>lt;sup>2</sup> LACERA's currency hedge program's 1-month return is calculated monthly whereas the monthly gain/loss amount for the same period is the net realized dollar amount at contract settlement over three monthly tranches.

<sup>&</sup>lt;sup>3</sup> LACERA's overlay program's 1-month return includes interest earned on the cash that supports the futures contracts.



# **1** Key Initiatives & Operational Updates

## **Notable Initiatives and Operational Updates**



#### **Key Initiative Updates**

- The 2024 Strategic asset allocation study will begin in the Q3 of this year
- The Investment Division is adhering to the 2023 Work Plan and Strategic Initiatives approved at the January 2023 BOI

#### **Operational Updates**

- Annual contract compliance review is complete
- Operational due diligence review in progress

#### **Manager/Consultant Updates**

#### **Team Searches and Vacancies**

- Working on launching new searches
  - 1 Deputy Chief Investment Officer
    - Search in progress
  - 1 Principal Investment Officer
  - 2 Senior Investment Officer
    - 1 search in progress
  - 2 Financial Analyst-III
    - 2 searches in progress
  - 3 Financial Analyst-II
    - 3 searches in progress
  - 1 Financial Analyst-I

Credit Suisse – Credit & Real Assets – agreed to a merger with UBS. As part of this merger, the asset management divisions of the two banks will be combined and will have more than \$1.5 trillion in assets under management. Credit Suisse Asset Management currently manages two mandates for LACERA.



# 05 Commentary

## Banking "Event" Update Total Fund

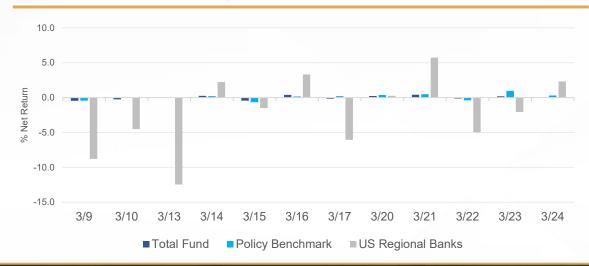


#### **Direct Exposure**



Market values are as of 2/28/2023; Left chart represents total US regional bank equity and debt exposures; Right chart represents equity and debt exposures specific to First Republic Bank, Signature Bank, Silvergate Bank, and Silicon Valley Bank.

#### **Performance Impact**



#### **Indirect Exposure**



<sup>&</sup>lt;sup>3</sup> Relationships include bank deposits, credit facilities, and asset level exposures with First Republic Bank, Signature Bank, and Silicon Valley Bank. No known losses or cancelled transactions.

#### **Custody Bank Relationship**

- State Street Bank and Trust Company is a Globally Systemically Important Financial Institution ("GSIFI") that meets the regulatory and capital requirements required by the Federal Reserve Board.
- GSIFIs are held to higher standards and undergo stricter testing to ensure continued financial strength and maintain FDIC insurance coverage.
- LACERA's Total Fund cash is considered a deposit at the bank and carried on State Street's balance sheet. State Street assumes the credit risk for such cash balances.

<sup>&</sup>lt;sup>2</sup> Losses estimated to be \$9 million (or 0.01% of the Total Fund) as of 3/31/2023.

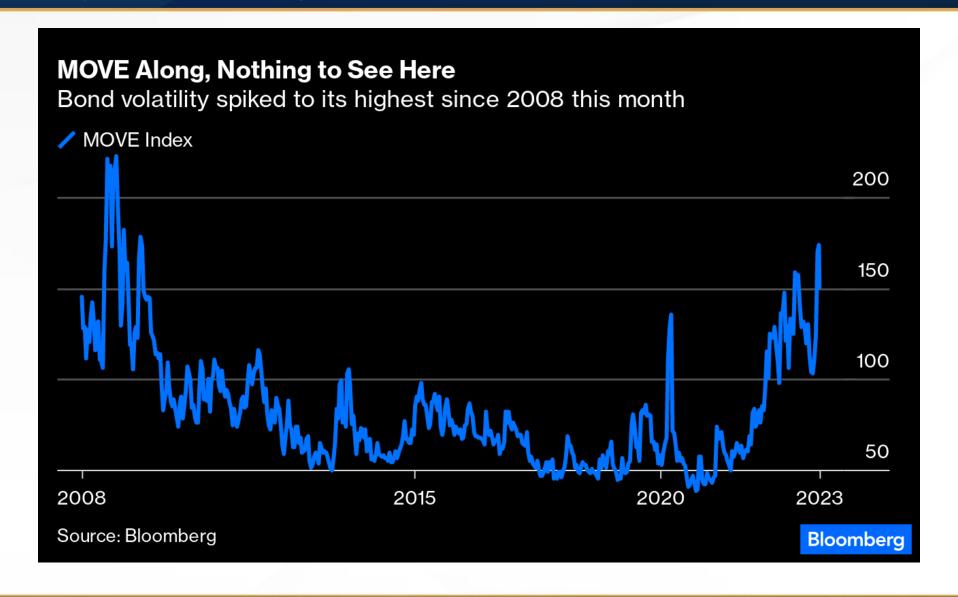
# **OPEB Master Trust**Historical Growth as of February 2023





# Staff Chart of the Month Bond Volatility Spiked to Highest Level Since 2008







# 06 Appendix

### **Quiet Period for Search Respondents**



### Real Assets Emerging Manager Program Discretionary Separate Account Manager Search

- ✓ BlackRock Investments, LLC
- ✓ ACRES Capital
- ✓ Aether Investment Partners
- ✓ Cloverlay
- ✓ ORG Portfolio Management
- ✓ Barings
- ✓ Belay Investment Group
- ✓ Encore Enterprises, Inc.
- ✓ Stable
- ✓ Cambridge Associates
- ✓ GCM Grosvenor
- ✓ The Townsend Group
- ✓ Cypress Creek Partners
- √ Hamilton Lane Advisors
- ✓ Neuberger Berman Group
- ✓ Wafra Inc.
- ✓ Artemis Real Estate Partners
- ✓ Hawkeye Partners, LP
- ✓ BlackRock
- ✓ Astarte Capital Partners
- ✓ Bentall Green Oak
- ✓ Clear Sky Advisers
- ✓ Clear Investment Group
- ✓ Poverni Sheikh Group
- ✓ Trilogy
- √ Stepstone
- ✓ Oak Street
- ✓ White Deer