

## **Chief Investment Officer Monthly Report**

Jonathan Grabel – Chief Investment Officer

Board of Investments Meeting July 12, 2023

## **Table of Contents**



- Market Environment
- 2. Portfolio Performance & Risk Updates
- 3. Portfolio Structural Updates
- 4. Key Initiatives & Operational Updates
- 5. Commentary
- 6. Appendix
  - Quiet Period for Search Respondents



# 1 Market Environment

## Global Market Performance as of June 30, 2023

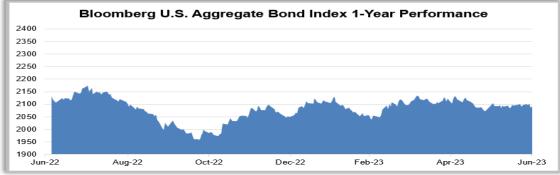


#### MSCI ACWI IMI Index (Global Equity Market)\* Trailing Returns (%) Annualized Returns (%) 1-Month 3-Month FYTD YTD 3Y 5Y 10Y 5.8 13.2 16.1 11.0 7.6 8.6



\*Global Equity Policy Benchmark - MSCI ACWI IMI Index

#### Bloomberg U.S. Aggregate Bond Index\*\* Trailing Returns (%) Annualized Returns (%) 5Y 10Y 1-Month 3-Month **FYTD** YTD **1Y** 3Y -0.4-0.9 2.1 -0.9 1.5



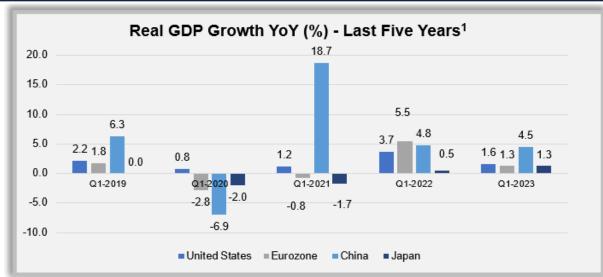
\*\*Investment Grade Bonds Policy Benchmark - Barclays U.S. Aggregate Bond Index

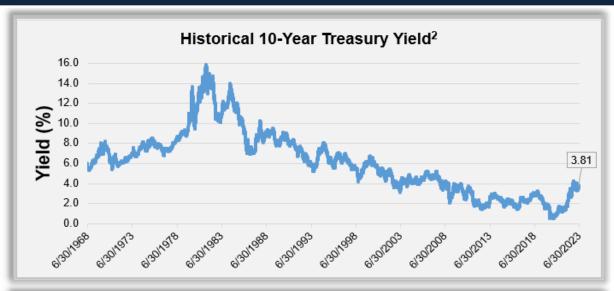
| Market           | Sub-Category                                 | Index Name   | 1-Month | 3-Month | FYTD | YTD  | 1 Y  | 3 Y  | 5 Y  | 10 Y |
|------------------|--|--|---------|---------|------|------|------|------|------|------|
|                  | Global All Cap                               | MSCI ACWI IMI Total Return                                 | 5.8     | 5.9     | 16.1 | 13.2 | 16.1 | 11.0 | 7.6  | 8.6  |
| Equity           | U.S. All Cap                                 | Russell 3000 Total Return                                  | 6.8     | 8.4     | 19.0 | 16.2 | 19.0 | 13.9 | 11.4 | 12.3 |
|                  | U.S. Large Cap                               | S&P 500 Total Return                                       | 6.6     | 8.7     | 19.6 | 16.9 | 19.6 | 14.6 | 12.3 | 12.9 |
|                  | U.S. Small Cap                               | Russell 2000 Total Return                                  | 8.1     | 5.2     | 12.3 | 8.1  | 12.3 | 10.8 | 4.2  | 8.3  |
|                  | Non-U.S. All Cap                             | MSCI ACWI-ex U.S. IMI Total Return                         | 4.3     | 2.4     | 12.5 | 9.1  | 12.5 | 7.3  | 3.4  | 4.9  |
| Emerging Markets |  | MSCI Emerging Markets Total Return                         | 3.8     | 0.9     | 1.7  | 4.9  | 1.7  | 2.3  | 0.9  | 2.9  |
| Private Equity   | Private Equity Buyout                        | Thomson Reuters PE Buyout Index                            | 9.6     | 2.2     | 4.1  | -5.6 | 4.1  | 6.1  | 5.4  | 10.  |
| Fixed Income     | U.S. Investment Grade Bonds                  | Bloomberg U.S. Aggregate Index                             | -0.4    | -0.8    | -0.9 | 2.1  | -0.9 | -4.0 | 0.8  | 1.   |
|                  | U.S. Corporate High Yield Bonds              | Bloomberg U.S. Corporate High Yield Total Return           | 1.7     | 1.7     | 9.1  | 5.4  | 9.1  | 3.1  | 3.4  | 4.4  |
|                  | Developed Markets Leveraged Loans            | Credit Suisse Leveraged Loan Total Return                  | 2.2     | 3.1     | 10.1 | 6.3  | 10.1 | 6.2  | 4.0  | 4.   |
|                  | U.S. Treasury Inflation Protected Securities | Bloomberg U.S. Treasury TIPS Total Return Index            | -0.3    | -1.4    | -1.4 | 1.9  | -1.4 | -0.1 | 2.5  | 2.   |
|                  | U.S. 3 Month Treasury Bill                   | FTSE 3 Month Treasury Bill                                 | 0.4     | 1.3     | 3.7  | 2.4  | 3.7  | 1.3  | 1.6  | 1.0  |
| C1't-            | Commodity Prices Index                       | Bloomberg Commodity Index Total Return                     | 4.0     | -2.6    | -9.6 | -7.8 | -9.6 | 17.8 | 4.7  | -1.  |
| Commodity        | Natural Resources                            | S&P Global LargeMidCap Commodity & Resources Index         | 6.2     | -3.6    | 7.0  | -4.9 | 7.0  | 20.1 | 8.0  | 5.   |
| Infrastracture   | Global Infrastructure                        | Dow Jones Brookfield Global Infrastructure Composite Index | 3.2     | -0.4    | 0.8  | 2.7  | 0.8  | 7.4  | 4.5  | 5.   |
| Real Estate      | U.S. REITs                                   | MSCI U.S. REIT Index                                       | 5.0     | 2.7     | -0.1 | 5.5  | -0.1 | 8.9  | 4.6  | 6    |

Source: Bloomberg

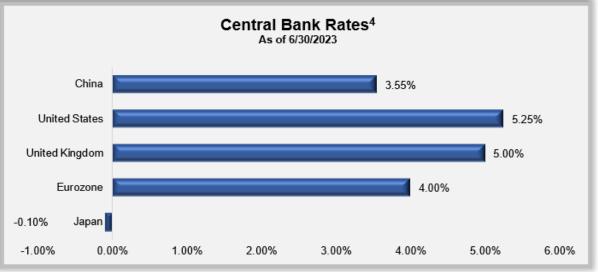
## **Key Macro Indicators\***











Sources:

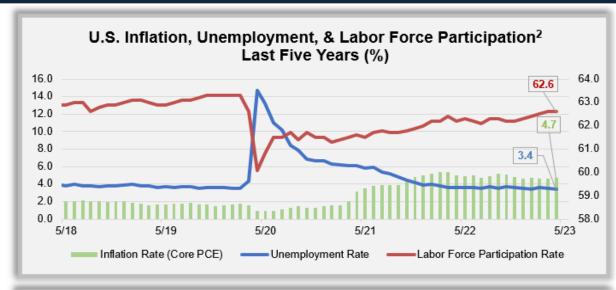
<sup>\*</sup>The information on the "Key Macro Indicators" charts is the best available data as of 6/30/23 and may not reflect the current market and economic environment

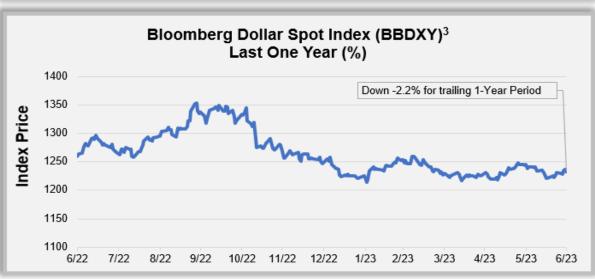
Bloomberg
 St. Louis Federal Reserve
 FactSet
 FactSet

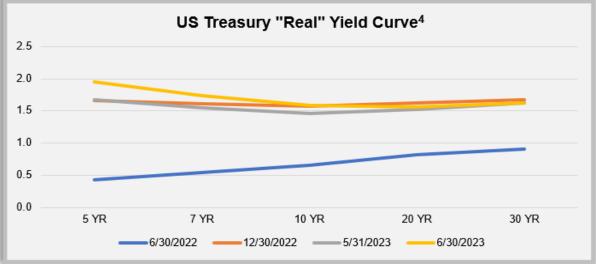
## **Key Macro Indicators\***











<sup>\*</sup>The information on the "Key Macro Indicators" charts is the best available data as of 6/30/23 and may not reflect the current market and economic environment

Sources: 1. Bloomberg 3. Bloomberg 2. Bloomberg 4. U.S. Treasury

## Market Themes and Notable Items to Watch



### **Recent Themes**

- The Federal Reserve held rates steady in June, keeping the benchmark funds rate at a range of 5% to 5.25%
- The central bank's dot plot diagram suggested that two more 0.25% rate hikes may be forthcoming this year
- Price increases are moderating as overall inflation (personal consumption expenditures or PCE price index) cooled to 3.8% for the twelve months ended in May, according to the Commerce Department. This is the first time this reading has slipped below 4% since early 2021
- The U.S. 10-year Treasury yield ended June at 3.81%, 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) increased 5.8% in June

### What to Watch

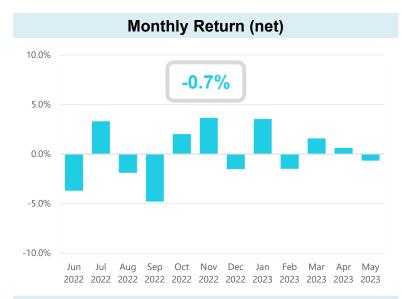
- Interest rates and central bank actions
- Economic data and trends
  - Inflation, supply chains, and labor developments
- Macro conditions and geopolitical risks
- Environmental, social, and governance
  - International Financial Reporting Standards International Sustainability Standards Board (successor to SASB standards and on which LACERA serves on the Investor Advisory Group) released ESG and climate reporting frameworks to guide corporate ESG disclosures



# 2 Portfolio Performance & Risk Updates

## Total Fund Summary as of May 2023



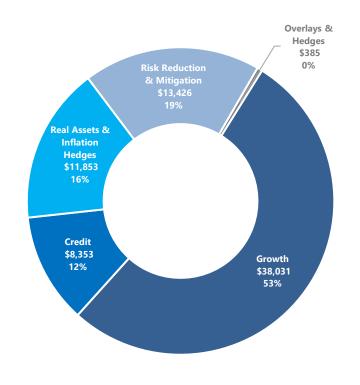












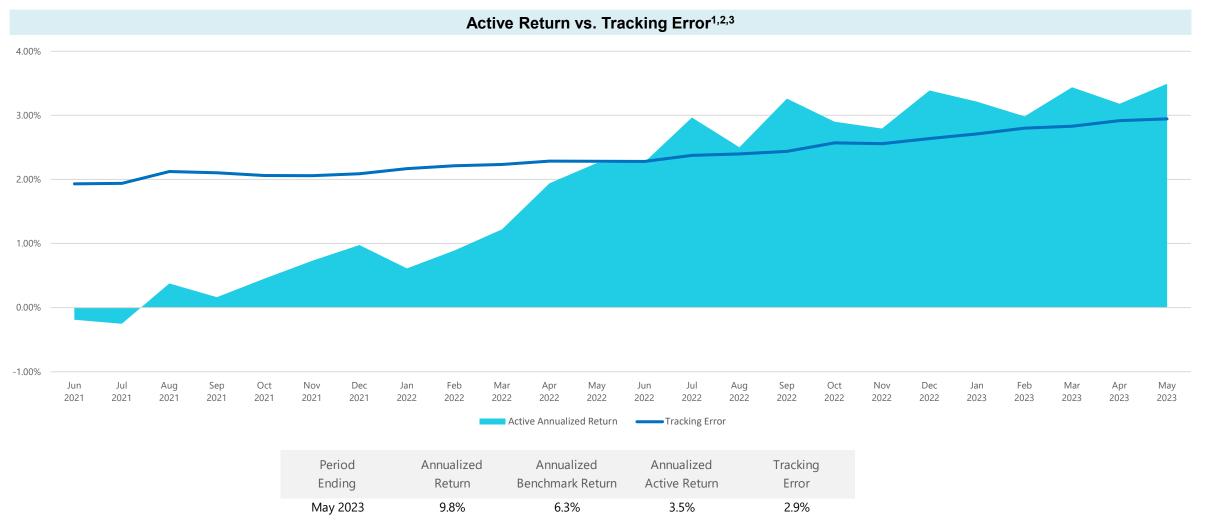
## Historical Net Performance as of May 2023



|  |               |              |         |         |         | LAC   | ERA Pe | ension | Fund   | t       |        |         |           |              |             |               |        |                 |
|--|---------------|--------------|---------|---------|---------|-------|--------|--------|--------|---------|--------|---------|-----------|--------------|-------------|---------------|--------|-----------------|
|  | Market Value  | % of         | Interim |         |         |       |        |        |        |         |        |         |           |              |             |               |        |                 |
|  | (\$ millions) | Total Fund   | Target  | 1 Month | 3 Month | FYTD  | 1 Year | 3 Year | 5 Year | 10 Year | 15.0%  |         |           |              |             |               |        |                 |
| Total Fund                               | 72,048        | 100.0%       | 100.0%  | -0.7%   | 1.5%    | 4.1%  | 0.2%   | 9.8%   | 7.2%   | 7.6%    |        |         |           |              |             |               |        |                 |
| Total Fund Policy BM                     |               |              |         | -1.6%   | 0.8%    | 2.3%  | -1.7%  | 6.3%   | 5.8%   | 7.0%    |        |         |           |              |             |               |        |                 |
| 7% Annual Hurdle Rate                    |               |              |         | 0.6%    | 1.7%    | 6.4%  | 7.0%   | 7.0%   | 7.0%   | 7.0%    | 10.0%  |         |           |              |             |               |        |                 |
| Growth                                   | 38,031        | 52.8%        | 53.0%   | -0.2%   | 2.3%    | 6.3%  | 1.2%   | 15.1%  |        |         |        |         |           |              |             |               |        | _               |
| Growth Policy BM                         | 30,031        | 32.070       | 33.070  | -1.6%   | 1.6%    | 3.6%  | -1.6%  | 10.7%  |        |         |        |         |           |              |             |               |        |                 |
| Credit                                   | 8,353         | 11.6%        | 11.0%   | 0.5%    | 1.9%    | 6.3%  | 2.9%   | 7.1%   |        |         | 5.0%   |         |           |              |             |               |        |                 |
| Credit Policy BM                         | 0,333         | 11.0%        | 11.0%   | 0.5%    | 1.9%    | 5.5%  | 2.9%   | 2.7%   |        |         |        |         |           |              |             |               |        |                 |
| Credit Policy BIVI                       |               |              |         | 0.5 /6  | 1.2/0   | 3.376 | 2.076  | 2.1 /0 |        |         | 0.00/  |         |           |              |             |               |        |                 |
| Real Assets & Inflation Hedges           | 11,853        | 16.5%        | 17.0%   | -3.1%   | -1.2%   | -1.2% | -6.0%  | 9.1%   |        |         | 0.0%   |         |           |              |             |               |        |                 |
| Real Assets & Inflation Hedges Policy BM |               |              |         | -3.8%   | -3.2%   | -2.1% | -6.8%  | 8.6%   |        |         |        |         |           |              |             |               |        |                 |
| Risk Reduction & Mitigation              | 13,426        | 18.6%        | 19.0%   | -1.1%   | 1.2%    | 0.0%  | -1.1%  | -1.3%  |        |         | -5.0%  |         |           |              |             |               |        |                 |
| Risk Reduction & Mitigation Policy BM    | •             |              |         | -0.9%   | 2.0%    | -0.1% | -1.1%  | -2.4%  |        |         | -3.076 | 1 Month | 3 Month   | FYTD         | 1 Year      | 3 Year        | 5 Year | 10 Year         |
| Overlays & Hedges                        | 385           | 0.5%         |         | 20.2%   | 11.9%   | 39.9% | 81.2%  |        |        |         |        |         | _         | Takal Found  | - Takal F   | -l D - l' DN4 |        |                 |
|  |               |              |         |         |         |       |        |        |        |         |        |         |           | Total Fund   | ■ Total Fun | a Policy Bivi |        |                 |
|  |               |              |         |         |         | OF    | PEB Ma | ster T | rust   |         |        |         |           |              |             |               |        |                 |
|  |               |              |         |         |         |       |        |        |        |         |        |         |           |              |             |               |        |                 |
|  | Market Value  | % of         | Interim |         |         |       |        |        |        |         | 10.0%  |         |           |              |             |               |        |                 |
|  | (\$ millions) | Master Trust | Target  | 1 Month | 3 Month | FYTD  | 1 Year | 3 Year | 5 Year |         |        |         |           |              |             |               |        |                 |
| OPEB Master Trust                        | 2,863         |              |         | -1.4%   | 1.1%    | 5.2%  | -1.9%  | 7.0%   | 4.8%   |         |        |         |           |              |             |               |        |                 |
| Los Angeles County                       | 2,791         | 97.5%        | _       | -1.4%   | 1.1%    | 5.2%  | -1.9%  | 7.0%   | 4.8%   |         |        |         |           |              |             |               |        |                 |
| Superior Court                           | 60            | 2.1%         | _       | -1.4%   | 1.2%    | 5.1%  | -1.9%  | 7.0%   | 4.8%   |         | 5.0%   |         |           |              |             |               |        | <u></u> <u></u> |
| LACERA                                   | 13            | 0.4%         | _       | -1.4%   | 1.1%    | 5.2%  | -2.0%  | 7.0%   | 4.8%   |         |        |         |           |              |             |               |        |                 |
| ACERA Master OPEB Trust Fund             | 2,863         |              | 100.0%  | -1.4%   | 1.2%    | 5.0%  | -2.0%  | 7.0%   | 4.9%   |         |        |         |           |              |             |               |        |                 |
| OPEB Master Trust Policy Benchmark       |               |              |         | -1.3%   | 1.0%    | 4.9%  | -2.1%  | 6.9%   | 4.5%   |         |        |         |           | _            |             |               |        |                 |
| OPEB Growth                              | 1,374         | 48.0%        | 47.5%   | -1.2%   | 2.6%    | 9.9%  | 0.4%   | 10.2%  | 6.6%   |         | 0.0%   |         |           |              |             |               |        |                 |
| OPEB Growth Policy Benchmark             |               |              |         | -1.3%   | 2.4%    | 8.9%  | -0.5%  | 9.7%   | 6.1%   |         |        |         |           |              |             |               |        |                 |
| OPEB Credit                              | 545           | 19.0%        | 19.0%   | -0.7%   | 1.5%    | 8.3%  | 3.7%   | 2.9%   |        |         |        |         |           |              |             |               |        |                 |
| OPEB Credit Policy Benchmark             |               |              |         | -0.3%   | 1.1%    | 7.0%  | 2.4%   | 2.9%   |        |         |        |         |           |              |             |               |        |                 |
| OPEB Real Assets & Inflation Hedges      | 564           | 19.7%        | 20.0%   | -2.9%   | -3.0%   | -5.6% | -12.2% | 7.9%   |        |         | -5.0%  |         |           |              |             |               |        |                 |
| OPEB RA & IH Policy Benchmark            |               |              |         | -2.3%   | -3.3%   | -2.7% | -9.5%  | 8.9%   |        |         |        | 1 Month | 3 Montl   | h FY         | TD          | 1 Year        | 3 Year | 5 Year          |
| OPEB Risk Reduction & Mitigation         | 380           | 13.3%        | 13.5%   | -1.2%   | 2.0%    | 0.4%  | -0.8%  | -2.6%  | 1.2%   |         |        |         | ■ Los And | geles County | Superior    | · Court ■LA   | ACERA  |                 |
| OPEB RR & M Policy Benchmark             |               |              |         | -1.2%   | 2.0%    | -1.1% | -2.3%  | -3.1%  | 0.8%   |         |        |         |           | J            |             |               |        |                 |

## Performance Based Risk as of May 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 May 2023



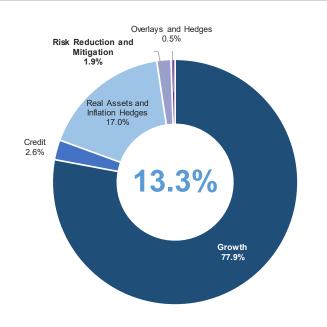
## TOTAL FUND RISK



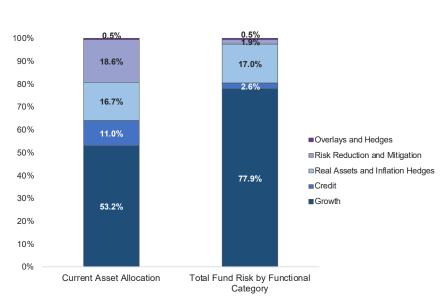
#### **Forecasted Total Fund Risk Trend**



Total Fund Asset Allocation
Capital-based versus Risk-based



**Functional Category Contributions to Total Fund Risk** 



#### Subcategory Risk<sup>1</sup> 1 Subcategory risk is on the left bar and benchmark risk is on the right bar. Growth 40.0% 19.7% 17.9% 20.0% 0.0% Growth Non-Core Private Real Estate Credit 10.0% 6.1% 3.5% 5.0% 0.0% Illiquid Credit Credit Liquid Credit Real Assets and Inflation Hedges 19.2% 20.0% 14.8% 6.8% 6.8% 10.0% 0.0% Real Assets and Core Private Real Natural Infrastructure TIPS Inflation Hedges Resources and Commodities **Risk Reduction and Mitigation** 14.4%14.4% 15.0% 10.0% 6.7% 6.2% 3.7% 0.3% 0.0% 0.3% Risk Reduction Investment Diversified Long-Term Cash and Mitigation Grade Bonds Hedge Funds Government Overlays and Hedges 59.9% 60.0% 30.0% 0.0%

0.0%

Overlays and Hedges

SOURCE: MSCI BarraOne

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





### **ALLOCATION RISK** 0.09(bps)

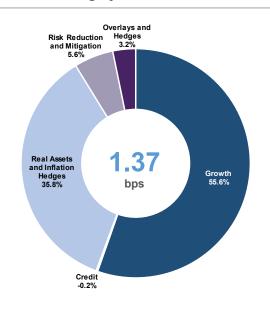




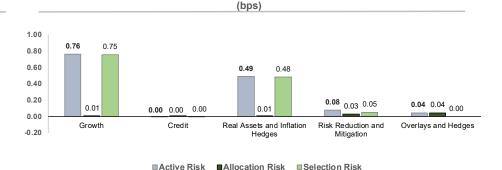
Maximum and Minimum Bands 0% Growth Credit Real Assets and Risk Reduction Overlavs and Inflation Hedges and Mitigation

**Policy Target Weight for each Functional Category** 

**Functional Category Contributions to Active Risk** 

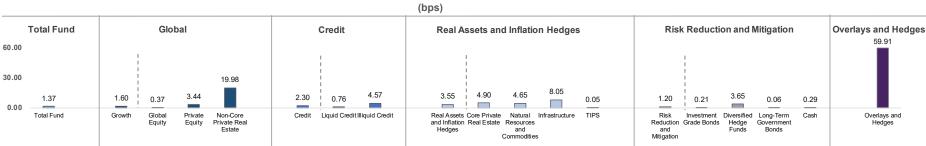






**Active Risk Attribution** 



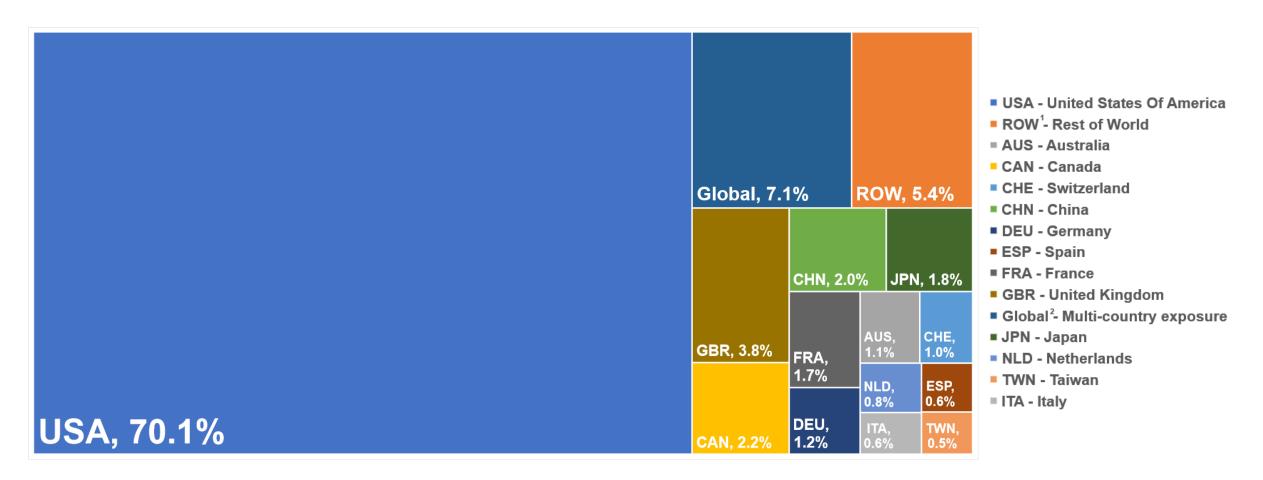


#### **Active Weights for each Functional Category**



## Geographic Exposures by AUM\* Total Fund as of May 2023 Ex-Overlays and Hedges





<sup>\*</sup> AUM = Assets under management.

SOURCE: MSCI BarraOne

<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 3/31/2023.

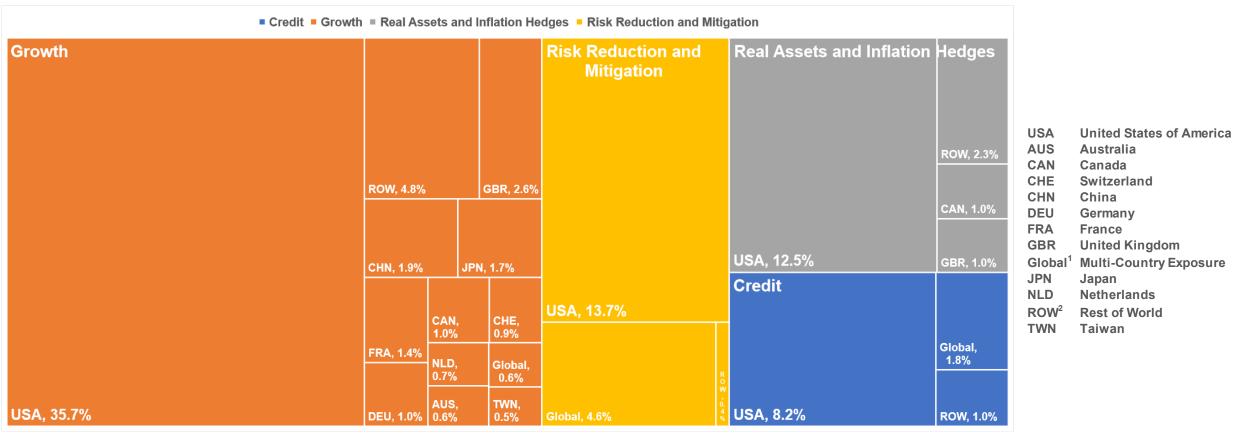
<sup>\*\*\*</sup> Geographic exposure is based on the domicile country of a given security/asset.

<sup>&</sup>lt;sup>1</sup> Global represents investments made in regions where specific country allocations are not available.

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

## Geographic Exposures by AUM\* Functional Categories as of May 2023 Ex-Overlays and Hedges





Canada **Switzerland** China Germany France **United Kingdom Multi-Country Exposure** Japan **Netherlands Rest of World** 

SOURCE: MSCI BarraOne

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

<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 3/31/2023.

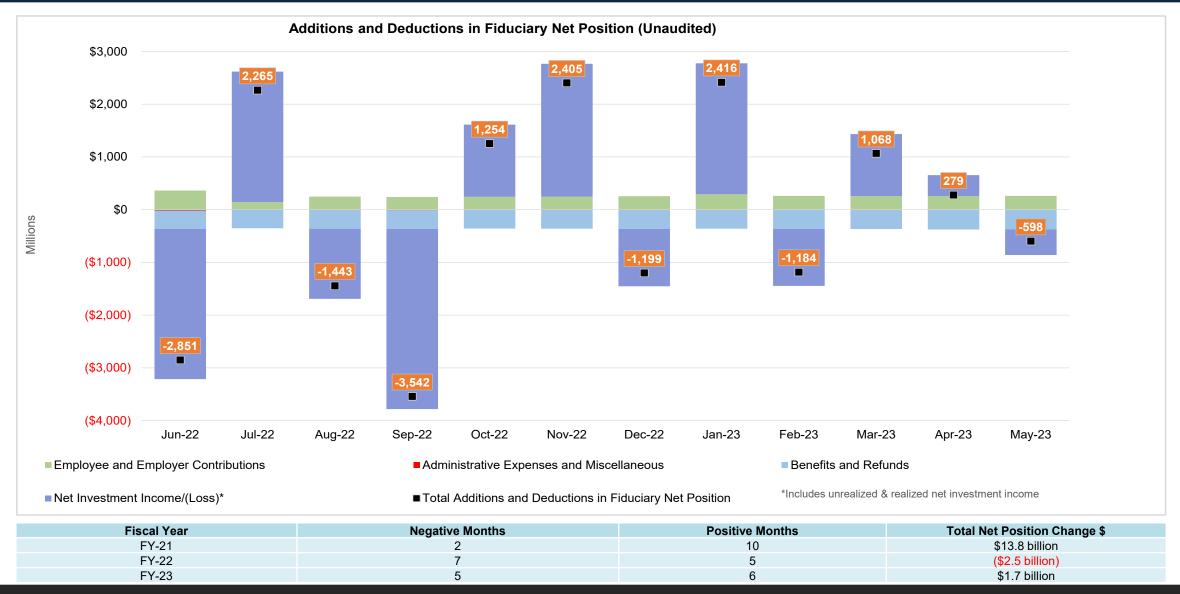
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<sup>&</sup>lt;sup>1</sup> Global represents investments made in regions where specific country allocations are not available.

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

## Change In Fiduciary Net Position







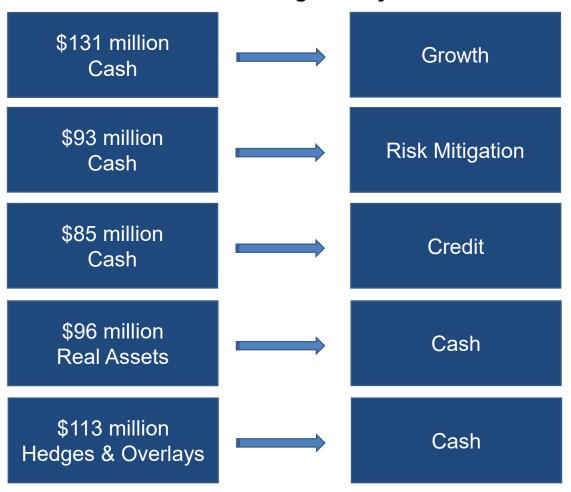
# Portfolio Structural Updates

## Portfolio Structural Updates



### **Portfolio Movements**

### **Rebalancing Activity**



### **Hedges & Overlays**

### **Monthly Activity**

| Program                                | May<br>Return | May<br>Gain/(Loss) | Inception <sup>1</sup><br>Gain/(Loss) |
|--|---------------|--------------------|---------------------------------------|
| Currency Hedge <sup>2</sup>            | 1.3%          | \$13.2 Million)    | \$1.3 Billion                         |
| Cash/Rebalance<br>Overlay <sup>3</sup> | -0.7%         | (\$18.0 Million)   | \$285.3 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<br>Issued | Due<br>Diligence | BOI Review          |  |  |  |
|--|---------------|------------------|---------------------|--|--|--|
| Real Assets Emerging<br>Manager Program Search | $\checkmark$  | $\checkmark$     | Anticipated Q3 2023 |  |  |  |
| Commercial Real Estate<br>Brokers Search       | $\checkmark$  | $\checkmark$     | 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 settlemen over three monthly tranches.

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



# **14** Key Initiatives & Operational Updates

## **Notable Initiatives and Operational Updates**



### **Key Initiative Updates**

- The 2024 Strategic asset allocation study is underway
- The Investment Division is adhering to the 2023 Work Plan and Strategic Initiatives approved at the January 2023 BOI
- BOI Offsite preparations are underway

### **Operational Updates**

Operational due diligence review in progress

### Manager/Consultant Updates

### **Team Searches and Vacancies**

- Working on launching new searches
  - Deputy Chief Investment Officer
    - Completed
  - 2 Principal Investment Officer
  - 2 Senior Investment Officer
  - 2 Financial Analyst-III
  - Financial Analyst-II
    - 2 searches in progress
    - 3 completed

Acadian – Global Equity – Kurt Livermore, Senior Vice President and Portfolio Manager for Core Equities left Acadian in June 2023. Kurt's responsibilities were shifted to the remaining equity portfolio management team. Acadian intends to add to the team in the near future.

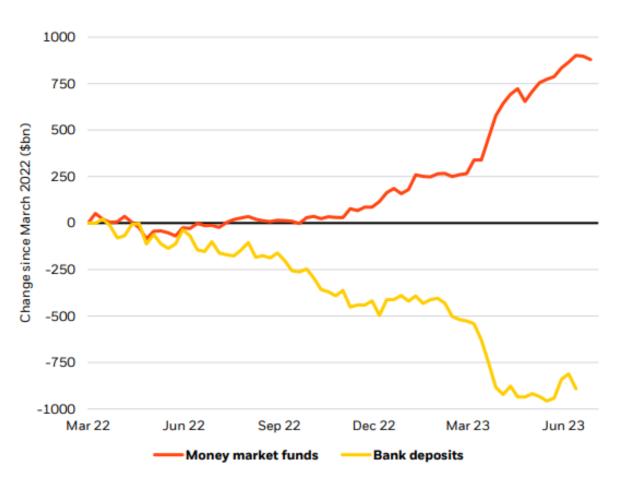


## Commentary

## Staff Chart of the Month Banks Continue to Experience Outflows in Deposits



### U.S. money market & bank deposit flows, 2022-2023



Sources: BlackRock Investment Institute, ICI and U.S. Federal Reserve, with data from Refinitiv Datastream, June 2023. Notes: Orange line shows total U.S. money market funds. The yellow line shows domestic commercial bank deposits.



# 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

#### Commercial Real Estate Brokers Search

- ✓ CBRE
- ✓ Cushman & Wakefield
- ✓ Eastdil
- ✓ JLL
- ✓ Newmark