Chief Investment Officer Monthly Report



Board of Investments
June 9, 2021

Jonathan Grabel
Chief Investment Officer

LOS ANGELES COUNTY EMPLOYEES RETIREMENT ASSOCIATION

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Market Environment



Global Market Performance as of May 31, 2021

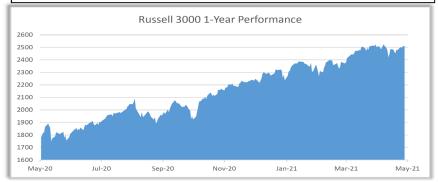
MSCI ACWI Index (Global Equity Market)*

Trailing Returns (%)			Annualized Returns (%)				
1-month	3-month	YTD	1Y	3Y	5Y	10Y	
1.5	8.6	11.3	43.7	13.6	14.1	9.6	



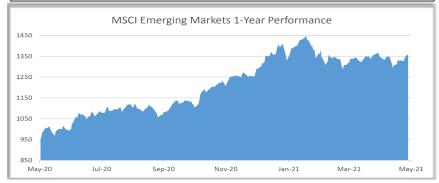
Russell 3000 Index (U.S. Equity Market)

Trailing Returns (%)			Ar	nnualized	Returns (%)		
	1-month	3-month	YTD	1Y	3Y	5Y	10Y	
	0.5	9.4	12.3	43.9	18.0	17.4	14.2	



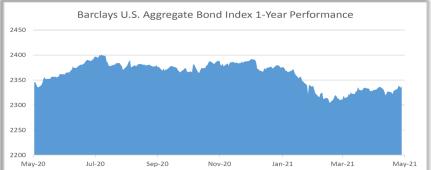
MSCI Emerging Market Index

Trailing Returns (%)			An	nualized	Returns (9	6)	
1-month	3-month	YTD	1Y	3Y	5Y	10Y	
2.3	3.3	7.3	51.0	9.6	13.9	4.1	



Barclays U.S. Aggregate Bond Index**

	Trailin	g Returns	(%)	An	nualized	Returns (%)	
1-mc	onth 3	3-month	YTD	1Y	3Y	5Y	10Y	
0.3	3	-0.1	-2.3	-0.4	5.1	3.2	3.3	

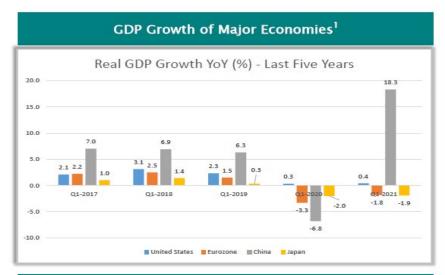


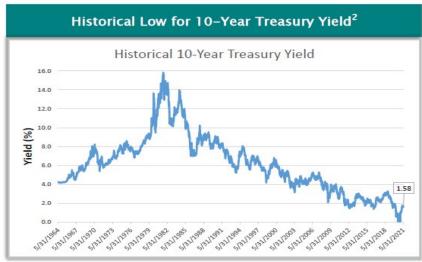
Source: Bloomberg

^{*}Global Equity Policy Benchmark - MSCI ACWI IMI Index

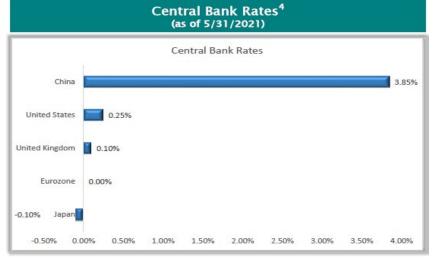
^{**}Investment Grade Bonds Policy Benchmark - Barclays U.S. Aggregate Bond Index

Key Macro Indicators*









^{*}The information on the "Key Macro Indicators" charts is the best available data as of 5/31//21 and may not reflect the current market and economic environment.

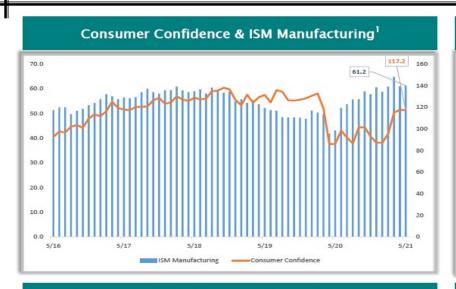
Sources: 1. Bloomberg

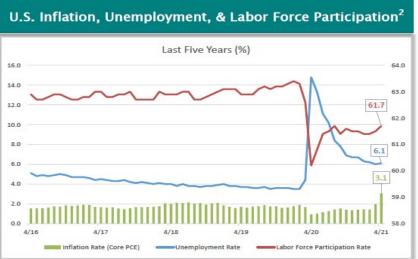
St. Louis Federal Reserve

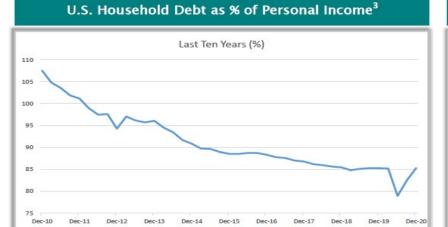
FactSet
 FactSet

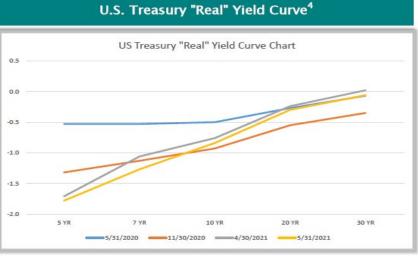


Key Macro Indicators*









^{*}The information on the "Key Macro Indicators" charts is the best available data as of 5/31/21 and may not reflect the current market and economic environment.

Sources: Bloomberg 3. Bloomberg 2. Bloomberg

Market Themes and Notable Items to Watch

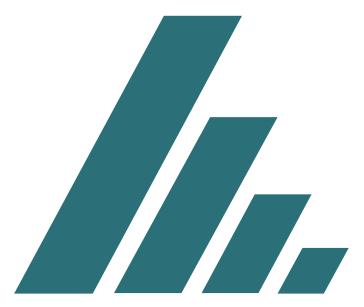
Recent Themes

- COVID-19
 - More than 170 million cases, 3.5 million deaths, and
 1.9 billion vaccines administered worldwide
 - Increase in vaccine options and availability
 - Over 51% of U.S. adult population has been fully vaccinated against the coronavirus
- The U.S. 10-year treasury yield ended May at 1.58%, up from 0.93% at the end of 2020
- Global equities up modestly during May, near all-time highs
- Americans filing first-time claims for unemployment insurance continues to fall
 - 406,000 in the last week of May; the lowest reported number since March 14, 2020
- Investors elect dissident directors at ExxonMobil with climate mitigation focus
 - Amidst heightened climate focus at spring shareholder meetings, with investors approving numerous proposals for emission reductions at energy companies

What to Watch

- COVID-19
- Global GDP growth rate
- Social equity and civil rights initiatives
- Unemployment and consumer spending
- Potential government infrastructure spending
- State of liquidity across financial markets
- Inflation pressures and trends
- Geopolitical risks and trade arrangements
- Potential continued rising interest rates
- Economic and consumer behavior impacts as vaccination rates increase
- Central bank activity

Portfolio Performance & Risk Updates



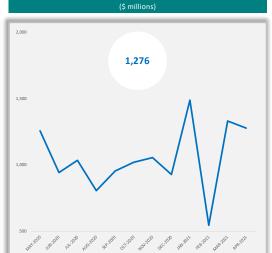
Total Fund Summary

as of April 2021









Cash

Market Value¹ Final % of Target² (\$ millions) Total **TOTAL FUND** 69,587 100.0% Growth 35,288 50.7% 47.0% Global Equity 25,750 37.0% 35.0% Private Equity³ 8.922 12.8% 10.0% Opportunistic Real Estate4 0.9% 616 2.0% Credit 7.488 10.8% 12.0% High Yield 2,209 3.2% 3.0% Bank Loans 2,609 3.7% 4.0% **Emerging Market Debt** 875 1.3% 2.0% Illiquid Credit^{3,4,5} 1,794 2.6% 3.0% Real Assets & Inflation Hedges 11.409 16.4% 17.0% Core & Value Added Real Estate⁴ 4.535 6.5% 7.0% Natural Resources & Commodities 2.998 4.3% 4.0% Infrastructure 2,035 2.9% 3.0% Treasury Inflation-Protected Securities 1,842 2.6% 3.0% Risk Reduction & Mitigation 14,884 21.4% 24.0% Investment Grade Bonds 11.196 16.1% 19.0% Diversified Hedge Fund Portfolio5 2,412 3.5% 4.0% 1,276 1.8% 1.0% Overlay Composite⁶ 518 0.7% Overlay Composite 0.7% Risk Reduction & Mitigation 21.4% Inflation Hedges 16.4% Credit 10.8%

Asset Allocation



- . Transition balances are included in each subcategory total, if applicable
- Final target weights effective as of 10/1/19
 Private Equity market values reflect latest available and are adjusted for cash flows

Real Estate market values reflect a 3-month lag and best available values
 Hedge Fund market values reflect a 1-month lag

Historical Net Performance

as of April 2021

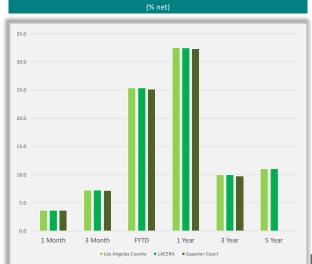
LACERA Pension Fund Market Value % of Final (\$ millions) **Total Fund** Target1 1 Month 3 Month FYTD 1 Year 3 Year 5 Year 10 Year **TOTAL FUND** 10.3 69,587 100.0% 100.0% 2.5 6.7 21.4 25.5 9.9 8.1 **Total Fund Custom BM** 2.2 5.9 20.4 22.5 10.3 10.0 8.3 7% Annual Hurdle Rate 0.57 1.71 7.00 7.00 7.00 5.80 7.00 Functional Composites 1 Month 3 Month **FYTD** 1 Year GROWTH 35.288 50.7% 47.0% 3.7 11.3 36.2 42.4 Growth Custom BM 3.3 11.5 39.0 40.5 CREDIT 7,488 10.8% 12.0% 1.0 3.2 15.8 22.0 Credit Custom BM 0.5 -0.2 8.0 13.5 **REAL ASSETS & INFLATION HEDGES** 16.4% 17.0% 2.6 6.1 13.2 14.6 Real Assets & Inflation Hedges Custom BM 2.8 5.8 13.2 16.2 21.4% **RISK REDUCTION & MITIGATION** 0.6 -1.0 1.5 3.3 Risk Reduction & Mitigation Custom BM 0.7 -0.7 0.2 **OVERLAY COMPOSITE** 518 0.7%



Market Value Trust **Sub-Trusts** (\$ millions)3 Ownership % Target 1 Month 3 Month FYTD 1 Year 3 Year 5 Year TOTAL OPEB MASTER TRUST 2,127 Los Angeles County 2.062 97.0% 32.5 3.7 7.2 25.4 10.0 11.0 LACERA 8 0.4% 3.7 7.2 25.4 32.5 10.0 11.1 57 2.7% Superior Court 37 7.2 25.2 32.3 9.8 **Functional Composites** 1 Month 3 Month **FYTD** 1 Year 3 Year **OPEB Growth** 1,070 50.0% 13.5 50.3% 4.3 37.4 48.5 9.9 Custom OPEB MT Growth Pool 4.3 9.9 37.2 48.1 13.1 **OPEB Credit** 416 19.6% 20.0% 0.2 9.4 1.0 14.5 Custom OPEB MT Credit Pool 1.0 0.3 10.4 16.2 **OPEB Real Assets & Inflation Hedges** 433 20.4% 20.0% 6.2 11.9 26.4 29.3 Custom OPEB MT RA & IH Pool 6.2 11.9 26.5 29.5 **OPEB Risk Reduction & Mitigation** 208 9.8% 10.0% 0.6 -1.5 -1.0 -0.1 4.6 Custom OPEB MT RR & M Pool 0.6 -1.5 -1.0 -0.1 4.4

0.0%

OPEB Master Trust Fund



Historical Returns



Operating Cash

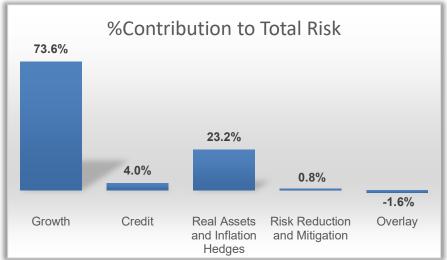
Final target weights effective as of 10/1/19

. Functional composites were adopted on 4/1/19

0.2

Total Fund Forecast Risk*

as of April 2021





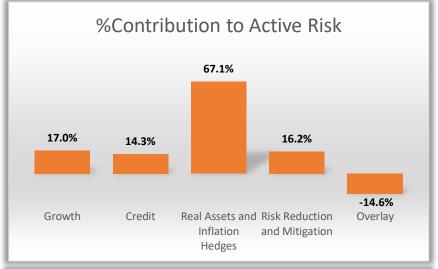
	%Weight	% Cont. to Total Risk	Standalone Total Risk	Standalone BMK Risk**
Total Fund			14.0	12.6
Growth	50.8%	73.6%	20.7	20.8
Global Equity	37.3%	51.8%	20.1	20.6
Private Equity	12.6%	20.8%	27.1	27.8
Opportunistic Real Estate	0.9%	1.1%	23.1	20.8
Credit	10.8%	4.0%	6.0	5.1
High Yield Bonds	3.2%	1.3%	7.1	6.1
Bank Loans	3.7%	0.9%	5.4	6.9
Illiquid Credit	2.6%	1.2%	8.3	3.8
Emerging Market Debt	1.3%	0.6%	10.0	9.0
Real Assets & Inflation Hedges	16.1%	23.2%	22.5	15.3
Core & VA Real Estate	6.6%	13.5%	39.3	20.8
Natural Resources & Commodities	4.0%	5.0%	20.8	21.3
Infrastructure	2.9%	4.3%	22.4	22.4
TIPS	2.7%	0.3%	4.9	4.9
Risk Reduction and Mitigation	21.5%	0.8%	3.2	3.0
Investment Grade Bonds	16.2%	0.6%	3.9	3.8
Diversified Hedge Funds	3.5%	0.3%	4.7	0.2
Cash	1.9%	0.0%	0.0	0.2
Overlay	0.8%	-1.6%	-	-

^{*}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 12/31/2020

^{**}BMK Risk stands for Benchmark Risk

Total Fund Forecast Active Risk*

as of April 2021





	%Weight	Active Weight%	Active Risk	Active Risk Allocation	Active Risk Selection
Total Fund			1.74	0.30	1.44
Growth	50.8%	3.77%	0.29	0.23	0.06
Global Equity	37.3%				
Private Equity	12.6%				
Opportunistic Real Estate	0.9%				
Credit	10.8%	-1.20%	0.25	0.09	0.16
High Yield Bonds	3.2%				
Bank Loans	3.7%				
Illiquid Credit	2.6%				
Emerging Market Debt	1.3%				
Real Assets & Inflation Hedges	16.1%	-0.86%	1.17	-0.02	1.18
Core & VA Real Estate	6.6%				
Natural Resources & Commodities	4.0%				
Infrastructure	2.9%				
TIPS	2.7%				
Risk Reduction and Mitigation	21.5%	-2.49%	0.28	0.24	0.04
Investment Grade Bonds	16.2%				
Diversified Hedge Funds	3.5%				
Cash	1.9%				
Overlay	0.8%	0.78%	-0.25	-0.25	0.00

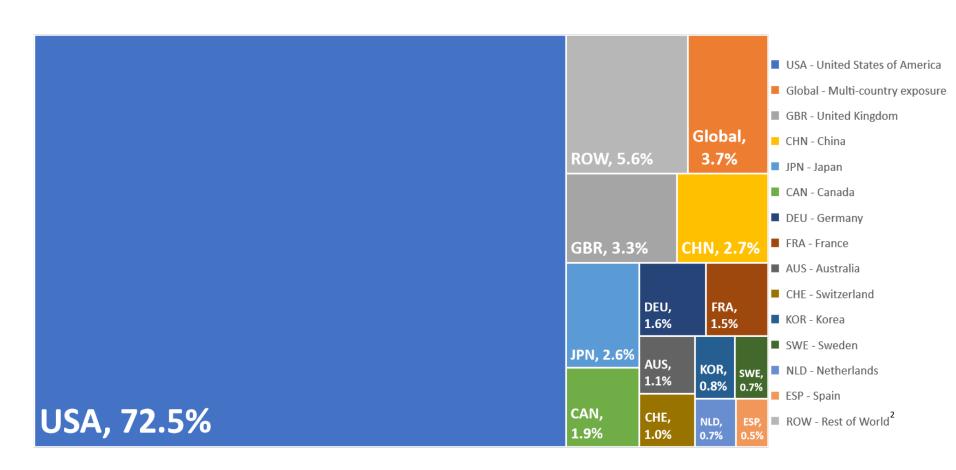
*Implementation of the MSCI Risk Platform is ongoing; reconciliation and refinement of the data is progressing and subject to change. Real estate and private equity data used is as of 12/31/2020



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Geographic Exposures by AUM* - Total Fund

as of April 2021 ex-overlay



^{*}AUM = assets under management

³ Geographic exposure is based on the domicile country of a given security/asset

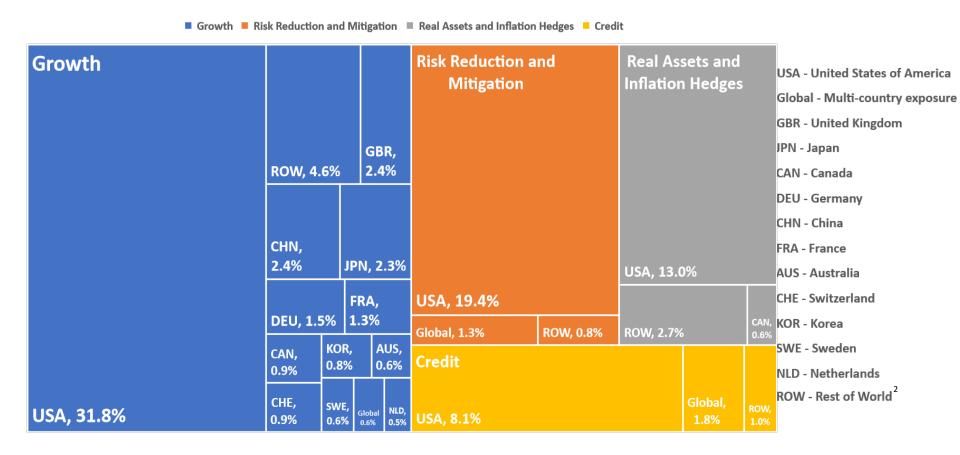


¹*Implementation of the MSCI Risk Platform is ongoing; reconciliation and refinement of the data is progressing and subject to change. Real estate and private equity data used is as of 12/31/2020

² "ROW - Rest of World" is sum of countries with weight below 0.5%

Geographic Exposures by AUM* - Asset Categories

as of April 2021 ex-overlay



^{*}AUM = assets under management

³ Geographic exposure is based on the domicile country of a given security/asset



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¹*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 12/31/2020

² "ROW - Rest of World" is sum of countries with weight below 0.5%

Change In Fiduciary Net Position





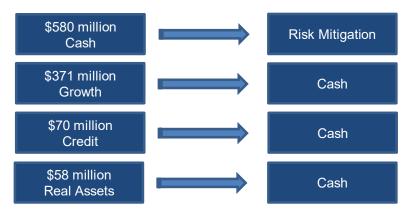
Portfolio Structural Updates



Portfolio Structural Updates

Portfolio Movements

Rebalancing Activity



Hedges and Overlays

Program	April Return	April Gain/Loss	Inception [*] Gain/Loss
Currency Hedge**	-0.9%	\$25.7 Million	\$819.4 Million
Cash/Rebalance Overlay***	-0.4%	-\$23.0 Million	-\$56.1 Million

Current Search Activity

Status of Active Searches – Subject to Change

Name	RFP Issued	Due Diligence	BOI Review
Private Equity Advisor Services	•		Anticipated Summer 2021

Quiet Period for Search Respondents

Private Equity Advisor Services

- ✓ Albourne America LLC
- ✓ StepStone Global LLC
- ✓ Wilshire Associates Inc.



Key Initiatives and Operational Updates



Notable Initiatives and Operational Updates

Key Initiative Updates

- Onboarding process of new risk system continues
- Ongoing implementation and development of LACERA TIDE initiative
- Strategic Asset Allocation Study is ongoing
 - Total Fund approved May 2021
- New real estate consultant onboarding is in process

Completed Actions

- The real estate administrator onboarding process has been completed
- The new performance system onboarding process has been completed

Operational Updates

- Completed the Annual Contract Compliance exercise for public markets
- Implementing operational due diligence ("ODD") improvements
- Financial Analyst III search
 - Credit

Manager/Consultant Updates

State Street Custody Bank - On May 13, 2021, the Department of Justice announced that State Street had entered into a deferred prosecution agreement to resolve an investigation into client overcharges disclosed in 2015. A memorandum on this matter is included in this month's Board of Investments package.



Commentary



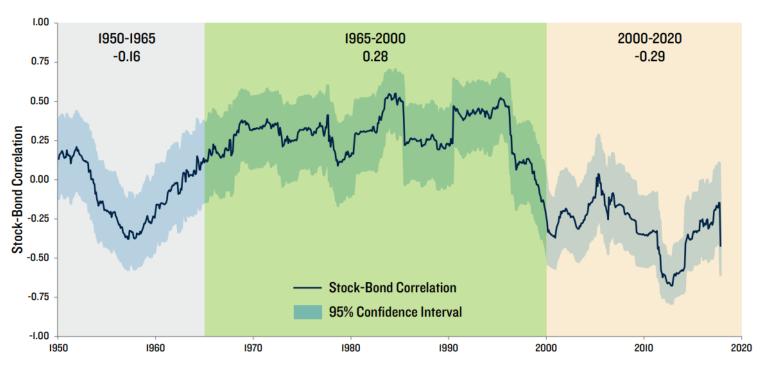
Staff Chart of the Month*

Importance of Strategic Asset Allocation and Diversification

The chart below shows that correlations between U.S. stocks and bonds (asset categories which are commonly referred to as uncorrelated) can change over time

Figure 3: US Stock-Bond Correlation

Correlation of monthly stock and bond returns (5y-centered, rolling window, 1950-2020)



Note: Stock-bond correlation is calculated with 5y rolling window of monthly stock and bond total returns centered at the time of calculation. Source: DataStream, FRED, NBER, Robert J. Shiller online data and PGIM IAS. For illustrative purposes only.

