

Investments Division

TOTAL FUND

PERFORMANCE REPORT

For the quarter ended September 30, 2023

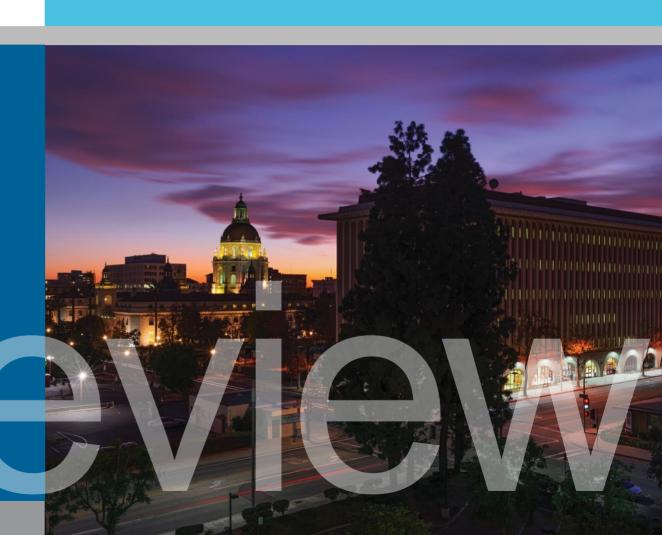




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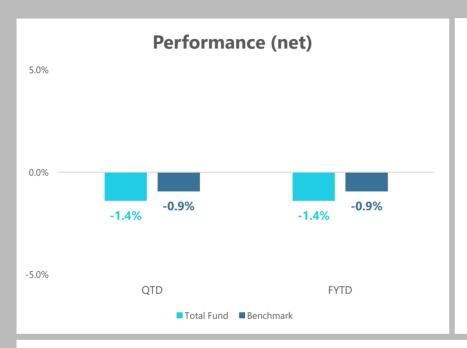


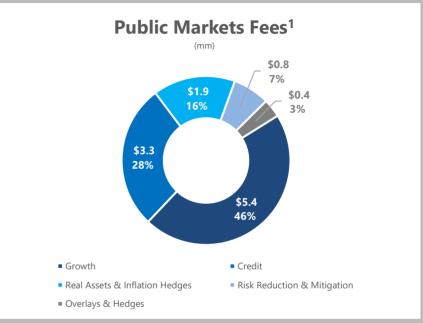
total fund

Quarterly Snapshot

for the quarter ended September 30, 2023









72,167

-2% from prior quarter

Sharpe Ratio²

0.8

-27% from prior quarter

Batting Average³

58%

25% from prior quarter

Standard Deviation²

8.2

-1% from prior quarter

Tracking Error²

2.9

from prior quarter

¹ Reflects estimated investment management fees. Additional details found in the appendix.

² 3 Year Annualized.

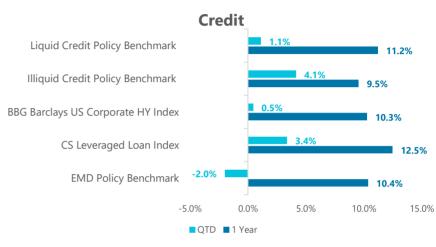
³ Percentage of managers that outperformed their assigned benchmark for the guarter.

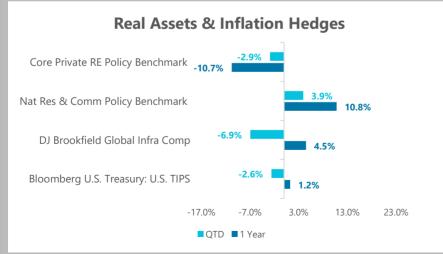
Market Environment

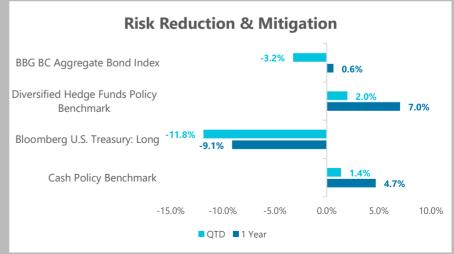
for the guarter ended September 30, 2023











Summary

for the quarter ended September 30, 2023



Los Angeles County Employees Retirement Association

Performance (net) 15.0% 10.0% 5.0% 0.0% -5.0% QTD **FYTD** YTD 3 Year 5 Year ITD 1 Year 10 Year ■ Total Fund ■ Benchmark OTD **FYTD** 3 Year 5 Year 10 Year ITD YTD 1 Year **Total Fund** -1.4% -1.4% 4.4% 8.7% 7.9% 8.5% 6.8% 7.4% -0.9% 10.5% -0.9% 6.7% Benchmark 5.0% 5.7% 6.7% -0.5% -2.3% -1.7% 2.9% -0.5% 1.1% 0.7% Excess FY22 FY21 FY20 FY23 FY19

Cumulative Return

6.4%

5.0%

0.1%

-4.6%

25.2%

23.1%

1.8%

2.0%

6.4%

8.6%

Total Fund

Benchmark

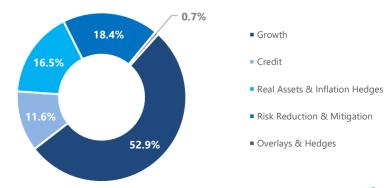


Functional Category¹

	QTD	FYTD	YTD	1 Year	3 Year
Growth	-1.6%	-1.6%	7.5%	14.0%	12.2%
Growth Policy Benchmark	-0.2%	-0.2%	13.3%	17.8%	8.9%
Excess	-1.4%	-1.4%	-5.8%	-3.8%	3.3%
Credit	3.1%	3.1%	9.2%	11.6%	6.1%
Credit Policy Benchmark	3.0%	3.0%	8.2%	10.2%	2.3%
Excess	0.0%	0.0%	1.1%	1.4%	3.9%
Real Assets & Inflation Hedges	-2.3%	-2.3%	-3.9%	-0.1%	8.4%
RA & IH Policy Benchmark	-2.8%	-2.8%	-5.4%	-0.3%	7.5%
Excess	0.5%	0.5%	1.5%	0.2%	0.9%
Risk Reduction & Mitigation	-3.2%	-3.2%	-0.8%	0.3%	-3.3%
RR & M Policy Benchmark	-3.7%	-3.7%	-0.7%	0.3%	-4.0%
Excess	0.4%	0.4%	-0.1%	0.0%	0.7%
Overlays & Hedges	13.0%	13.0%	68.8%	50.9%	

¹ Cash Overlay composite returns reflect non-notionalized returns.

Exposure

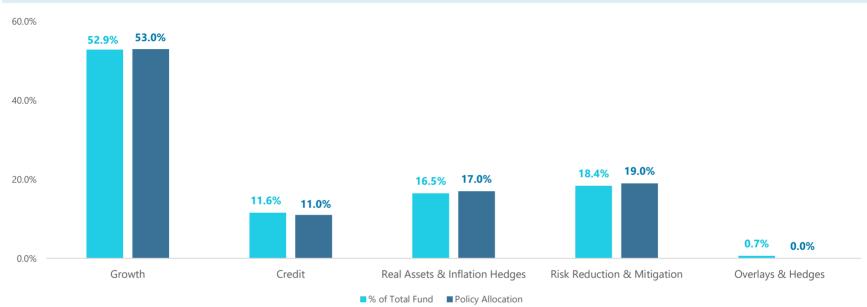


Asset Allocation





Actual vs. Policy



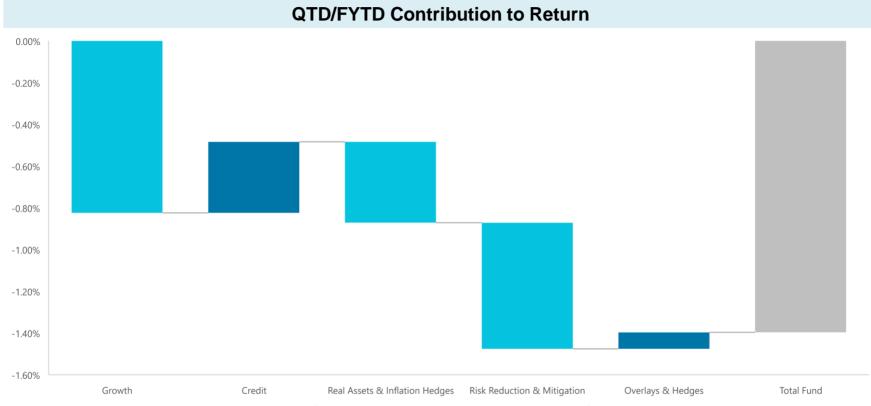
	Ending Market Value (mm)	% of Total Fund	Policy Allocation	Over/Under (%)	Over/Under (mm)
Total Fund	72,167	100.0%	100.0%		
Growth	38,154	52.9%	53.0%	-0.1%	-94
Credit	8,351	11.6%	11.0%	0.6%	413
Real Assets & Inflation Hedges	11,912	16.5%	17.0%	-0.5%	-356
Risk Reduction & Mitigation	13,268	18.4%	19.0%	-0.6%	-444
Overlays & Hedges	482	0.7%	0.0%	0.7%	482

Contribution to Return



for the quarter ended September 30, 2023





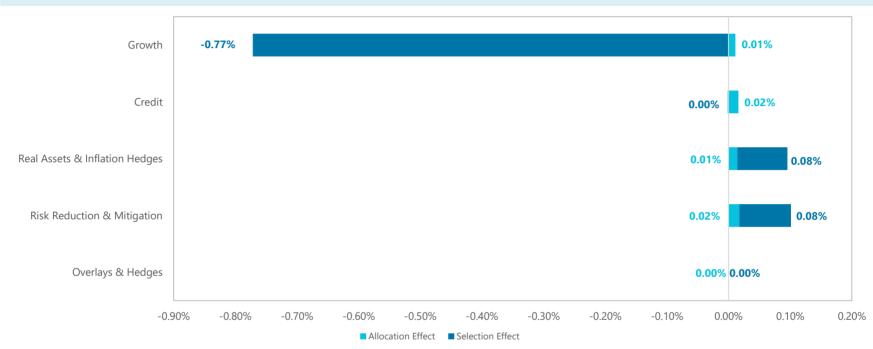
Functional Category		Contributors		Detractors	
Growth	-0.83%	Private Equity - Growth	0.27%	SSGA MSCI ACWI IMI	-0.71%
Credit	0.34%	Napier Park	0.08%	BlackRock Long Treasury Bonds	-0.50%
Real Assets & Inflation Hedges	-0.39%	Magnetar	0.06%	Real Estate - Real Assets	-0.23%
Risk Reduction & Mitigation	-0.61%	Lake Cascade	0.03%	DWS Infrastructure	-0.21%
Overlays & Hedges	0.08%	Credit Suisse Bank Loans	0.03%	JPMAM Strategic Beta US	-0.19%
Total Fund	-1.40%				

Return Attribution

for the quarter ended September 30, 2023



QTD/FYTD Performance Attribution¹



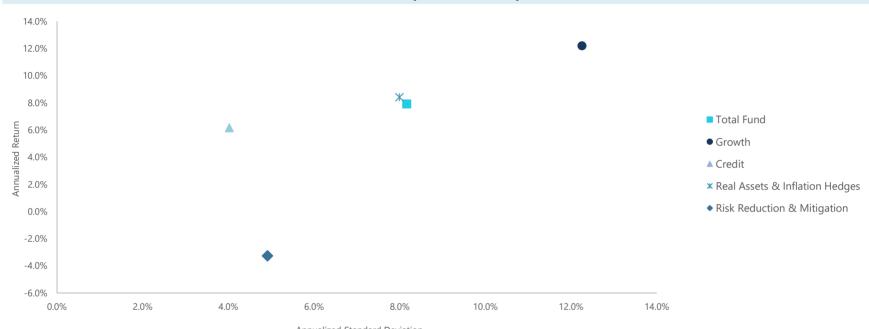
	Ending Market Value	% of Total Fund	Policy Allocation	Portfolio Return	Benchmark Return	Allocation Effect	Selection Effect	Total Value Add
Total Fund	72,167	100.0%	100.0%	-1.4%	-0.9%	0.07%	-0.53%	-0.46%
Growth	38,154	52.9%	53.0%	-1.6%	-0.2%	0.01%	-0.77%	-0.76%
Credit	8,351	11.6%	11.0%	3.1%	3.0%	0.02%	0.00%	0.01%
Real Assets & Inflation Hedges	11,912	16.5%	17.0%	-2.3%	-2.8%	0.01%	0.08%	0.10%
Risk Reduction & Mitigation	13,268	18.4%	19.0%	-3.2%	-3.7%	0.02%	0.08%	0.10%
Overlays & Hedges	482	0.7%	0.0%	13.0%				

Risk vs. Return





3 Year (Annualized)¹



Annualized Standard Deviation

	Annualized	Standard	Sharpe	Information		Tracking
	Return	Deviation	Ratio	Ratio	Beta	Error
Total Fund	7.9%	8.2%	0.77	0.95	0.90	2.9%
Growth	12.2%	12.3%	0.87	0.56	0.86	5.2%
Credit	6.1%	4.0%	1.09	1.21	0.68	3.1%
Real Assets & Inflation Hedges	8.4%	8.0%	0.84	0.32	0.89	2.5%
Risk Reduction & Mitigation	-3.3%	4.9%	(1.00)	0.93	0.91	0.8%
Overlays & Hedges	125.0%	51.6%				

Performance Detail

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for the quarter ended September 30, 2023

Los Angeles County Employees Retirement Association

Annualized Net Returns¹

		Ending	Prior Quarter									
	% of	Market Value	Ending MV									Inception
	Total Fund	(mm)	(mm)	QTD	FYTD	YTD	1 Year	3 Year	5 Year	10 Year	ITD	Date
Total Fund	100.0%	72,167	73,569	-1.4%	-1.4%	4.4%	8.7%	7.9%	6.8%	7.4%	8.5%	Dec-1988
Total Fund Policy Benchmark				-0.9%	-0.9%	6.7%	10.5%	5.0%	5.7%	6.7%		
Growth	52.9%	38, 154	39,155	-1.6%	-1.6%	7.5%	14.0%	12.2%			11.1%	Apr-2019
Growth Policy Benchmark				-0.2%	-0.2%	13.3%	17.8%	8.9%			9.3%	
Global Equity	32.4%	23,352	24,583	-3.2%	-3.2%	9.6%	20.6%	7.8%			8.0%	Apr-2019
Global Equity Policy Benchmark				-3.4%	-3.4%	9.4%	20.2%	6.9%			7.4%	
Private Equity - Growth	18.9%	13,625	13,428	1.4%	1.4%	4.6%	4.7%	22.8%			17.6%	Jan-2019
PE - Growth Policy Benchmark				6.4%	6.4%	26.2%	18.4%	13.2%			9.3%	
Non-Core Private Real Estate	1.6%	1,177	1,145	-1.4%	-1.4%	-3.9%	-2.1%	11.5%	10.2%	10.3%	4.5%	Jan-1996
Non-Core Private RE Policy Benchmark				-2.3%	-2.3%	-9.5%	-8.7%	9.7%	8.4%	10.8%	10.9%	
Credit	11.6%	8,351	8,297	3.1%	3.1%	9.2%	11.6%	6.1%			5.0%	Apr-2019
Credit Policy Benchmark				3.0%	3.0%	8.2%	10.2%	2.3%			3.4%	
Liquid Credit	4.3%	3,089	3,458	1.8%	1.8%	8.0%	12.2%				-0.4%	Oct-2021
Liquid Credit Policy Benchmark				1.1%	1.1%	6.9%	11.2%					
Illiquid Credit	7.3%	5,262	4,839	3.8%	3.8%	9.7%	9.6%	12.7%			9.9%	Apr-2019
Illiquid Credit Policy Benchmark				4.1%	4.1%	8.8%	9.5%	1.5%			5.0%	
Real Assets & Inflation Hedges	16.5%	11,912	12,050	-2.3%	-2.3%	-3.9%	-0.1%	8.4%			5.0%	Apr-2019
RA & IH Policy Benchmark				-2.8%	-2.8%	-5.4%	-0.3%	7.5%			5.3%	
Core Private Real Estate	5.4%	3,920	4,071	-4.0%	-4.0%	-11.7%	-10.2%	7.4%	4.9%	7.0%	6.9%	Oct-1985
Core Private RE Policy Benchmark				-2.9%	-2.9%	-11.0%	-10.7%	7.2%	5.9%	8.2%	6.7%	
Natural Resources & Commodities	3.0%	2,179	2,110	3.4%	3.4%	3.8%	8.4%	19.7%	7.2%	0.5%	-0.6%	Jul-2007
Nat Res & Comm Policy Benchmark				3.9%	3.9%	-1.1%	10.8%	18.1%	7.1%	-0.3%	-1.7%	
Infrastructure	5.5%	3,966	3,974	-3.5%	-3.5%	-1.0%	6.1%	7.3%			5.7%	Jun-2019
DJ Brookfield Global Infra Comp				-6.9%	-6.9%	-4.5%	4.5%	5.8%			1.8%	
TIPS	2.6%	1,847	1,896	-2.6%	-2.6%	-0.8%	1.3%	-2.0%			1.6%	May-2019
Bloomberg U.S. Treasury: U.S. TIPS				-2.6%	-2.6%	-0.8%	1.2%	-2.0%			1.7%	
Risk Reduction & Mitigation	18.4%	13,268	13,659	-3.2%	-3.2%	-0.8%	0.3%	-3.3%			0.3%	Apr-2019
RR & M Policy Benchmark (BMLACE				-3.7%	-3.7%	-0.7%	0.3%	-4.0%			-0.3%	
Investment Grade Bonds	6.8%	4,883	5,044	-3.2%	-3.2%	-0.9%	0.9%	-5.1%	0.2%	1.5%	5.0%	Nov-1994
BBG BC Aggregate Bond Index				-3.2%	-3.2%	-1.2%	0.6%	-5.2%	0.1%	1.1%	4.5%	
Diversified Hedge Funds	6.5%	4,677	4,570	1.5%	1.5%	3.4%	4.9%	7.0%			6.3%	Apr-2019
Diversified Hedge Funds Policy Benchmark				2.0%	2.0%	5.6%	7.0%	4.2%			4.2%	
Long-Term Government Bonds	3.9%	2,792	2,962	-11.9%	-11.9%	-8.7%	-9.2%				-20.3%	Nov-2021
Bloomberg U.S. Treasury: Long				-11.8%	-11.8%	-8.6%	-9.1%				-21.0%	
Long Treasury Bonds Transition	0.0%	0	0								75.9%	Jun-2022
Bloomberg U.S. Treasury: Long											-14.1%	
Cash	1.3%	916	1,083	0.6%	0.6%	3.8%	5.1%	2.7%	2.4%	1.6%	1.9%	Jun-2001
Cash Policy Benchmark				1.4%	1.4%	3.8%	4.7%	1.8%	1.7%	1.2%	1.5%	
Overlays & Hedges	0.7%	482	407	13.0%	13.0%	68.8%	50.9%				125.0%	Oct-2021
Cash Overlay	0.5%	353	364	-15.1%	-15.1%	7.0%	49.1%	19.6%			0.7%	Aug-2019
Total Overlay Custom BM				-3.0%	-3.0%	5.6%	12.6%	3.0%			4.4%	
Currency Hedge	0.2%	129	43	1.7%	1.7%	2.4%	-0.9%				3.8%	Oct-2021
50% FX Hedge Custom Benchmark				1.7%	1.7%	2.4%	-0.9%				3.9%	

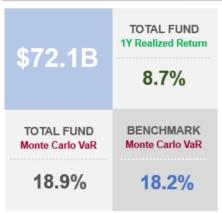
¹ Cash Overlay composite returns reflect non-notionalized returns.

Risk Summary

for the quarter ended September 30, 2023



Realized (Ex-Post) Risks

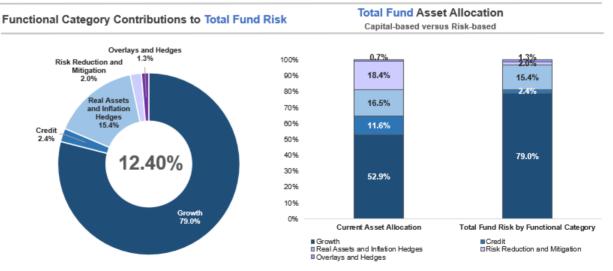






Projected (Ex-Ante) Risks





Risk Summary

for the quarter ended September 30, 2023

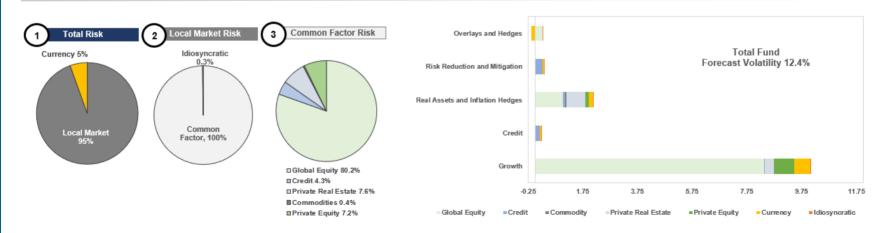


Decomposition of MSCI Risk Factors



Total Fund Risk Decomposition

Total Fund Contribution by Risk Factor

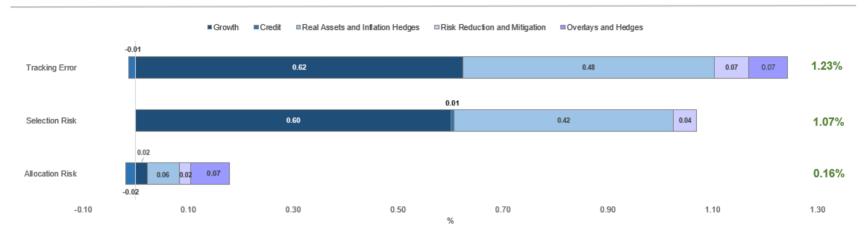


Risk Summary

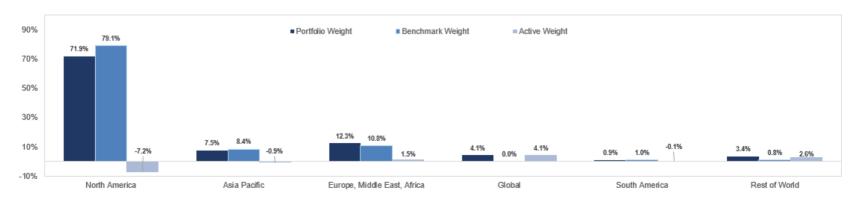
for the quarter ended September 30, 2023



Functional Category Contributions to Tracking Error



Portfolio Allocation by Region^{1,2}

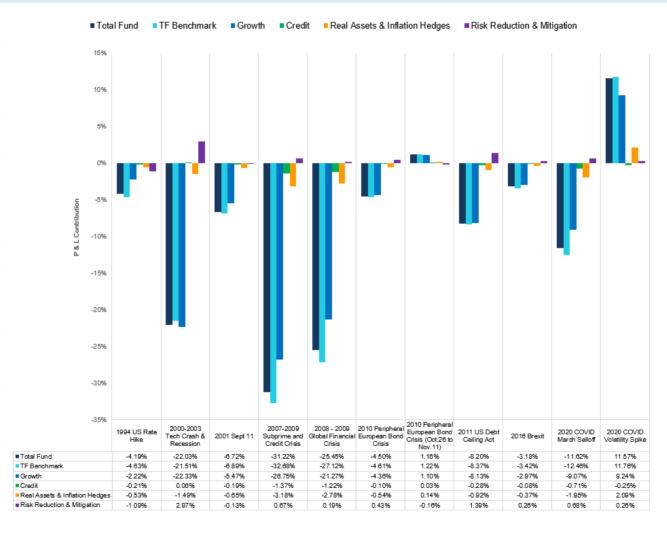


¹ Global represents investmetns made in regions where specific country allocations are not available.²

² Rest of World is sum of countries with weights below 0.5%.

for the quarter ended September 30, 2023

Scenarios by Asset Category



Stress Tests





Historical Scenario	Description	Stock Market	Interest Rates	Bond Market	Commodity Market
1994 US Rate Hike	In combating inflation, the US Federal Reserve raised rates from 3.25% in February to 5.5% in November 1994.				
2000-2003 Tech Crash & Recession	Period of crisis and slowdown for technological firms due to a rapid jump in stock prices when tech bubble began to burst.				
2001 September 11th	The US stock market was closed for a week upon a series of coordinated suicide attacks upon the US on September 11, 2001.				
2008-2009 Global Financial Crisis	Major financial crisis starting with the failure of several US-based financial firms. Extended into 2009, when stock markets reached their lowest.				
2010 European Bond Crisis	During crisis, the liquidity access for peripheral countries was affected by budget deficits, high borrowing costs, and failing banking systems.				
2011 US Debt Ceiling Act	Political deadlock on appropriate level of US government spending and its impacts. Debt and equity markets experienced significant volatility.				
2016 Brexit	The referendum by British voters to exit the European Union roiled global markets causing the pound to fall to its lowest level in decades.				
2020 COVID March Selloff	Peak and Valley of the MSCI ACWI index when Covid became a Global Pandemic.				
2020 COVID Volatility Spike	Period it took for the Cboe Volatility Index (VIX) to revert to pre-pandemic levels.				





growth

Summary

for the quarter ended September 30, 2023



Performance (net) 20.0% 15.0% 5.0%

0.0%

-5.0%

QTD FYTD YTD 1 Year 3 Year 5 Year 10 Year ITD

Growth Benchmark

	QTD	FYTD	YTD	1 Year	3 Year	5 Year	10 Year	ITD
Growth	-1.6%	-1.6%	7.5%	14.0%	12.2%			11.1%
Benchmark	-0.2%	-0.2%	13.3%	17.8%	8.9%			9.3%
Excess	-1.4%	-1.4%	-5.8%	-3.8%	3.3%			1.8%

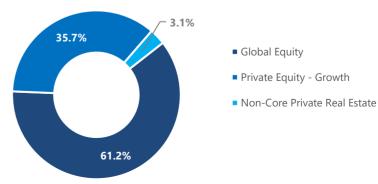
Cumulative Return



Functional Category

	QTD	FYTD	YTD	1 Year	3 Year
Global Equity	-3.2%	-3.2%	9.6%	20.6%	7.8%
Global Equity Policy Benchmark	-3.4%	-3.4%	9.4%	20.2%	6.9%
Excess	0.2%	0.2%	0.2%	0.4%	1.0%
Private Equity - Growth	1.4%	1.4%	4.6%	4.7%	22.8%
PE - Growth Policy Benchmark	6.4%	6.4%	26.2%	18.4%	13.2%
Excess	-5.0%	-5.0%	-21.6%	-13.7%	9.6%
Non-Core Private Real Estate	-1.4%	-1.4%	-3.9%	-2.1%	11.5%
Non-Core Private RE Policy Benchmark	-2.3%	-2.3%	-9.5%	-8.7%	9.7%
Excess	1.0%	1.0%	5.6%	6.6%	1.8%

Exposure



Asset Allocation

for the quarter ended September 30, 2023



Actual vs. Policy

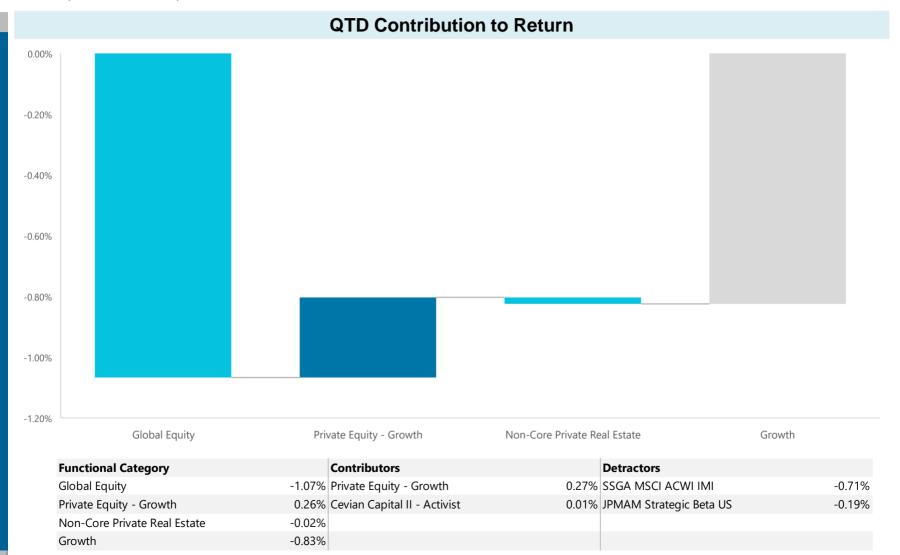


	Ending Market Value (mm)	% of Composite	Policy Allocation	Over / Under (%)	Over / Under
Growth	38,154	100.0%	100.0%		
Global Equity	23,352	61.2%	60.4%	0.6%	236
Private Equity - Growth	13,625	35.7%	32.1%	3.5%	1,339
Non-Core Private Real Estate	1,177	3.1%	7.5%	-4.5%	-1,704

Contribution to Return



for the quarter ended September 30, 2023



Return Attribution

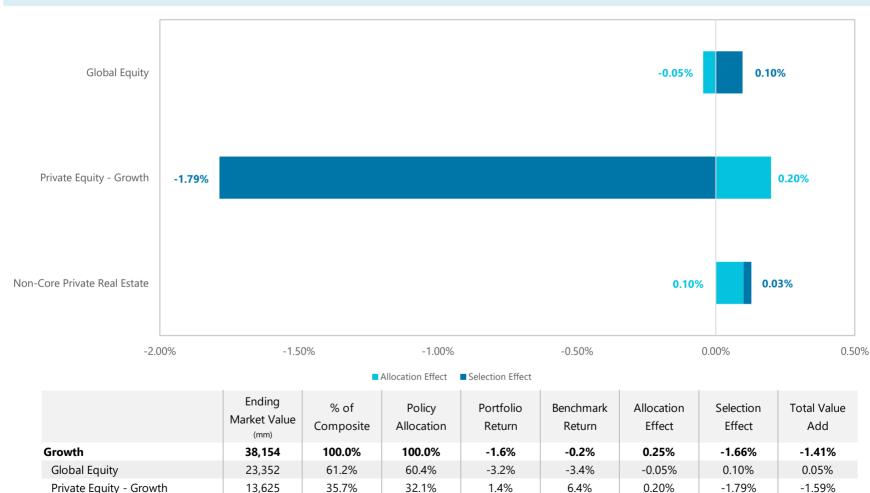
for the quarter ended September 30, 2023



0.03%

0.10%

QTD Performance Attribution¹



7.5%

-1.4%

-2.3%

1,177

3.1%

Non-Core Private Real Estate

0.13%

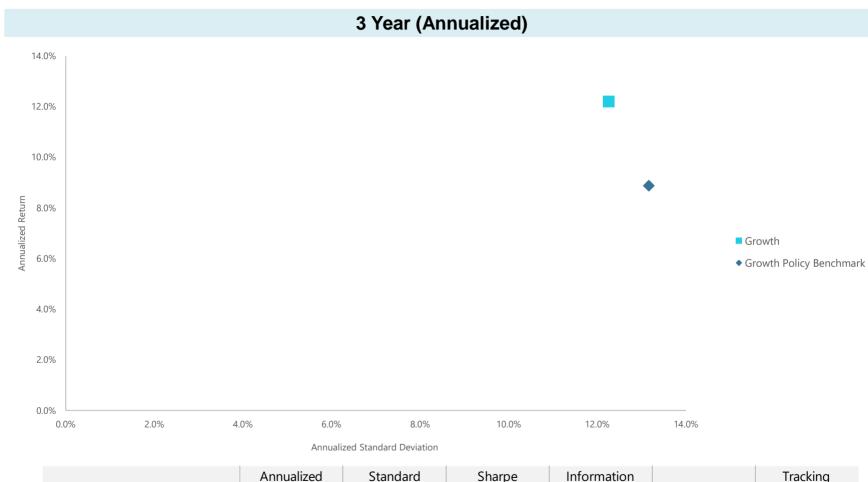
Risk vs. Return



Growth

Growth Policy Benchmark





Deviation

12.3%

13.2%

Ratio

0.87

Ratio

0.56

Beta

0.86

Return

12.2%

8.9%

Error

5.2%

Performance Detail

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for the quarter ended September 30, 2023

Los Angeles County Employees Retirement Association

Annualized Net Returns¹

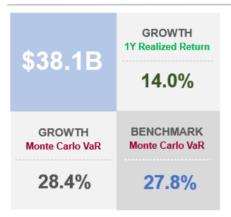
		Ending	Prior Quarter									
	% of	Market Value	Ending MV									Inception
	Composite	(mm)	(mm)	QTD	FYTD	YTD	1 Year	3 Year	5 Year	10 Year	ITD	Date
rowth	100.0%	38,154	39,155	-1.6%	-1.6%	7.5%	14.0%	12.2%			11.1%	Apr-2019
Growth Policy Benchmark				-0.2%	-0.2%	13.3%	17.8%	8.9%			9.3%	
Global Equity	61.2%	23,352	24,583	-3.2%	-3.2%	9.6%	20.6%	7.8%			8.0%	Apr-2019
Global Equity Policy Benchmark				-3.4%	-3.4%	9.4%	20.2%	6.9%			7.4%	
Passive												
SSGA MSCI ACWI IMI	39.2%	14,947	15,868	-3.4%	-3.4%	9.5%	20.6%	7.5%			6.1%	Jan-2020
Factor Based												
JPMAM Strategic Beta Non-US	1.5%	582	600	-3.0%	-3.0%	5.8%	20.7%	5.0%			5.2%	Aug-2020
JPMAM Strategic Beta US	11.8%	4,519	4,656	-3.0%	-3.0%	13.0%	21.6%	10.3%			12.6%	Jul-2020
Active												
Acadian Developed Markets	1.5%	573	586	-2.2%	-2.2%	2.2%	17.3%	5.5%	3.5%	6.2%	4.3%	Apr-2006
BTC Euro Tilts	1.5%	580	608	-4.6%	-4.6%	9.8%	30.5%	10.2%	5.6%	5.6%	3.7%	Jan-2007
Cevian Capital II - Activist	1.2%	457	452	1.1%	1.1%	14.8%	25.7%	16.6%	8.0%		9.0%	Oct-2016
CGT International Equity	1.0%	382	414	-7.7%	-7.7%	4.8%	23.1%	-0.4%	3.9%	4.8%	5.2%	Nov-1994
Cornercap US Small Cap - EMP	0.2%	81	82	-1.8%	-1.8%	-0.1%	10.9%	16.5%	6.1%		6.1%	Oct-2018
Frontier US SMID Growth	0.7%	282	303	-6.9%	-6.9%	10.3%	22.5%	11.4%	5.5%	8.5%	9.8%	Jun-2002
Global Alpha	0.4%	167	176	-5.3%	-5.3%	0.7%	15.9%	2.6%			3.7%	Nov-2018
Lazard Emerging Markets	1.0%	367	381	-3.9%	-3.9%	-0.4%	14.0%	-1.1%	2.4%	3.0%	1.9%	Feb-2013
Parametric GE Market Cap	0.5%	184	173	3.1%	3.1%	35.3%	26.4%				17.3%	Oct-2021
Parametric GE Region	0.0%	16	56	-15.2%	-15.2%	-39.0%	-48.0%				-33.0%	Dec-2021
Systematic US Small Cap Value	0.5%	196	199	-1.2%	-1.2%	5.4%	17.8%	16.6%	5.6%		5.6%	Jul-2018
Private Equity - Growth	35.7%	13,625	13,428	1.4%	1.4%	4.6%	4.7%	22.8%			17.6%	Jan-2019
PE - Growth Policy Benchmark				6.4%	6.4%	26.2%	18.4%	13.2%			9.3%	
Non-Core Private Real Estate	3.1%	1,177	1,145	-1.4%	-1.4%	-3.9%	-2.1%	11.5%	10.2%	10.3%	4.5%	Jan-1996
Non-Core Private RE Policy Benchmark				-2.3%	-2.3%	-9.5%	-8.7%	9.7%	8.4%	10.8%	10.9%	

Growth Risk Summary

Los Angeles County Employees Retirement Association

for the quarter ended September 30, 2023

Realized (Ex-Post) Risks





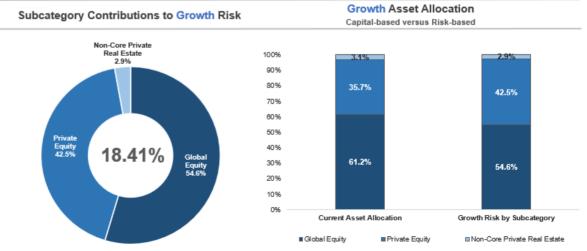
83 95 **US-Based Private Market** Active Mandates* Mandates* Mandates* **Active Market** Private Market US-Based Market Value Exposure* Value Exposure* Value Exposure*

*as of 9/30/23

73

Projected (Ex-Ante) Risks





L///CERA Los Angeles County Employees Retirement Association

Growth Risk Summary

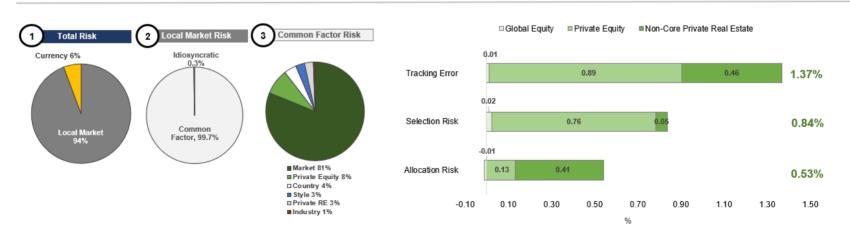
for the quarter ended September 30, 2023

Decomposition of MSCI Risk Factors



Growth Risk Decomposition

Subcategory Contributions to Tracking Error

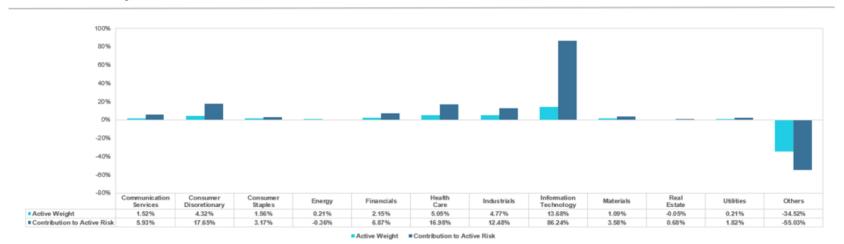


Growth Risk Summary

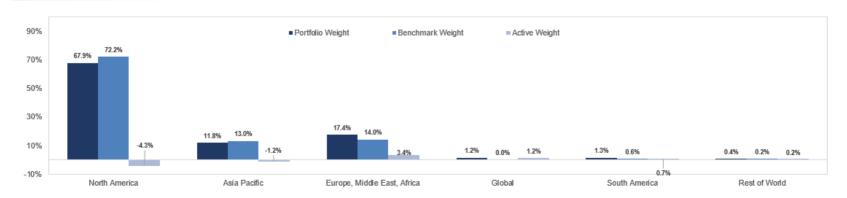
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Los Angeles County Employees Retirement Association

for the quarter ended September 30, 2023

Portfolio Allocation by GICS Sector



Portfolio Allocation by Region^{1,2}



¹ Global represents investments made in regions where specific country allocations are not available.

² Rest of World is sum of countries with weights below 0.5%.

Growth – Global Equity **Acadian Developed Markets**



7.1%

for the quarter ended September 30, 2023

Strategy

Seeks to capture mispriced opportunities through systematic stock, sector, and country valuation models that are customized to each market. The strategy may be suited to investors looking to gain exposure in non-U.S. developed markets and diversify portfolio through active quantitative investment approach.

Inception Date: April 2006

Portfolio Characteristics

	Portfolio	Benchmark
Market Cap Wtd Average (mm)	61,185.8	76,954.7
No. Of Issues	673.0	0.0
Dividend Yield	4.0	3.2
Return on Equity	22.3	18.3
Price to Sales	0.8	1.3
Price to Book	1.6	1.7
PE Ratio	10.3	14.5

Top Holdings (% of assets)

	ı
NOVO NORDISK A/S B	3.5%
INDUSTRIA DE DISENO TEXTIL	2.4%
BP PLC SPONS ADR	2.4%
WOLTERS KLUWER	2.1%
STELLANTIS NV	1.9%
Top 5 Holdings	12.4%

¹ Universe data is gross-of-fees.

Performance (net)¹

	Ending Market Value (mm)			QTD	1 Year	3 Year	5 Year		
Acadian Developed Markets	!	572.6		-2.2%	17.3%	5.5%	3.5%		
MSCI EAFE + Canada Net Index Growth Policy Benchmark				-4.1% -0.2%	24.0% 17.8%	6.1% 8.9%	3.4%		
Universe data: Intl/Global Equity Fund	s - Core	QTD	Rank	1 Yea	r Rank	3 Year	Rank	5 Year	Rank
Acadian Developed Markets		-2.1%	21	17.7%	68	5.9%	56	3.9%	57

20.9%

-3.3%

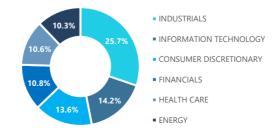
No. of Observations

Growth of \$10,000

Median



Top Exposures (% of assets)²





JAPAN

4.4%

SWITZERLAND

UNITED KINGDOM

DENMARK

CANADA

1,27

² Charts display top exposures and may not add up to 100%.

Growth Risk Analysis – Global Equity **Acadian Developed Markets**

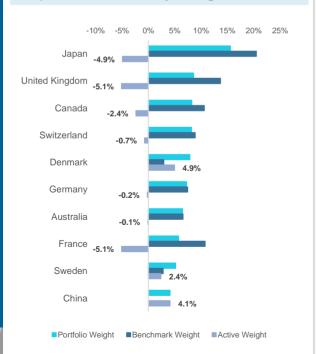


for the quarter ended September 30, 2023

Portfolio Risk Summary



Top 10 Countries by Weight



Top 10 Assets by Contribution to Portfolio Active Risk

Asset	Portfolio Weight	Benchmark Weight	Active Weight	Contribution to Portfolio Active Risk
MEG ENERGY CORP	0.98%	0.00%	0.98%	0.17%
BP PLC	2.43%	0.00%	2.43%	0.13%
AP MOLLER MAERSK	1.44%	0.00%	1.44%	0.10%
NESTLE SA	0.00%	1.83%	-1.83%	0.09%
SPOTIFY TECHNOLOGY SA	1.17%	0.00%	1.17%	0.09%
ATLASSIAN CORP	0.86%	0.00%	0.86%	0.09%
NOVO NORDISK A/S	3.54%	1.81%	1.74%	0.08%
WIX.COM LTD	0.78%	0.03%	0.75%	0.08%
BLUESCOPE STEEL LTD	1.07%	0.03%	1.03%	0.08%
MONDAY.COM LTD	0.65%	0.02%	0.63%	0.08%

Portfolio Allocation by GICS Sector



Growth – Global Equity BTC Europe Alpha Tilts

L//LCERA
Los Angeles County Employees Retirement Association

for the quarter ended September 30, 2023

Strategy

Seeks to generate risk-controlled and consistent active returns by using a unique blend of bottom-up stock selection insights and broader top-down thematic insights. The strategy may be suited to investors looking to capture active return opportunities in European region.

Inception Date: January 2007

Portfolio Characteristics

	Portfolio	Benchmark
Market Cap Wtd Average (mm)	102.7	97.6
No. Of Issues	156.0	0.0
Dividend Yield	3.9	3.4
Return on Equity	19.7	21.9
Price to Sales	2.9	3.3
Price to Book	4.2	4.8
PE Ratio	12.8	14.2

Top Holdings (% of assets)

NESTLE SA REG	4.5%
NOVARTIS AG REG	3.6%
ASTRAZENECA PLC	3.4%
NOVO NORDISK A/S B	2.8%
SAP SE	2.7%
Top 5 Holdings	17.0%

¹ Universe data is gross-of-fees.

Performance (net)¹

	Ending Market \	/alue (mm)	QTD	1 Yea	r 3 Yea	ar 5 Yea	ar		
BTC Euro Tilts	579.8	}	-4.6%	30.5%	6 10.29	% 5.6%	6		
MSCI EUROPE			-5.0%	28.8%	7.29	6 4.0%	, 5		
Growth Policy Benchmark			-0.2%	17.8%	8.99	6			
Universe data: Intl Equity Develope	ed Mkt Funds	QTD	Rank	1 Year	Rank	3 Year	Rank	5 Year	Rank
BTC Euro Tilts		-4.5%	63	30.5%	17	10.5%	17	5.9%	16
Median		-3.6%		22.8%		5.6%		3.7%	

176

Growth of \$10,000

No. of Observations



Top Exposures (% of assets)²



² Charts display top exposures and may not add up to 100%.

Growth Risk Analysis – Global Equity BTC Europe Alpha Tilts

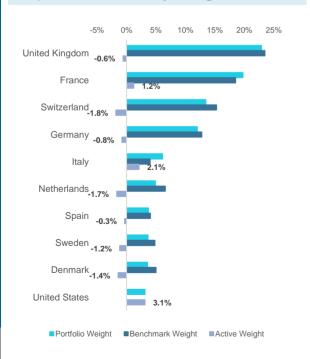


for the quarter ended September 30, 2023

Portfolio Risk Summary



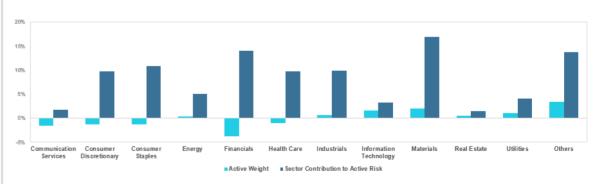
Top 10 Countries by Weight



Top 10 Assets by Contribution to Portfolio Active Risk

Asset	Portfolio Weight	Benchmark Weight	Active Weight	Contribution to Portfolio Active Risk
ASML HOLDING NV	0.00%	2.48%	-2.48%	0.18%
EQUINOR ASA	1.75%	0.31%	1.44%	0.14%
ARCELORMITTAL SA	1.37%	0.13%	1.23%	0.08%
CARREFOUR SA	1.36%	0.11%	1.26%	0.07%
BRITISH AMERICAN TOBACCO PLC	2.07%	0.70%	1.37%	0.06%
ENGIE	1.75%	0.29%	1.45%	0.06%
NOVARTIS AG	3.64%	2.19%	1.45%	0.05%
RIO TINTO PLC	1.62%	0.74%	0.88%	0.05%
HOLCIM AG	1.79%	0.35%	1.44%	0.04%
TESCO PLC	1.64%	0.24%	1.40%	0.04%

Portfolio Allocation by GICS Sector



Growth – Global Equity Capital Group Developed Markets



for the quarter ended September 30, 2023

Strategy

Seeks to generate long-term capital appreciation through fundamental research and proprietary models for earnings estimates and valuations. The strategy may be suited to investors looking to gain exposures in non-U.S. developed markets with emphasis on bottom-up, fundamental investment analysis.

Inception Date: October 1987

Portfolio Characteristics

	Portfolio	Benchmark
Market Cap Wtd Average (mm)	112,789.9	76,954.7
No. Of Issues	156.0	0.0
Dividend Yield	2.2	3.2
Return on Equity	22.5	18.3
Price to Sales	4.8	3.3
Price to Book	5.9	4.3
PE Ratio	20.8	14.7

Top Holdings (% of assets)

ASML HOLDING NV	3.7%
SAFRAN SA	3.3%
ASTRAZENECA PLC	2.4%
LONDON STOCK EXCHANGE GROUP	2.0%
TOTALENERGIES SE	2.0%
Top 5 Holdings	13.3%

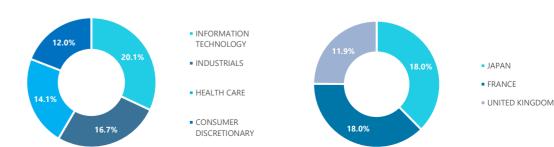
Performance (net)¹

	Ending Market Value (mm)		QTD	1 Year	3 Year	5 Year		
Capital Group Developed Markets	381.6	i	-7.7%	23.1%	-0.4%	3.9%		
EAFE Custom Benchmark			-4.1%	24.0%	6.1%	3.4%		
Growth Policy Benchmark			-0.2%	17.8%	8.9%			
Universe data: Intl/Global Equity Funds - Core	QTD	Rank	1 Year	Rank	3 Year	Rank	5 Year	Rank
Capital Group Developed Markets	-7.7%	89	23.5%	30	-0.1%	77	4.3%	52
Median	-3.3%		20.9%		7.1%		4.4%	
No. of Observations	52							

Growth of \$10,000



Top Exposures (% of assets)²



^{1,31}

¹ Universe data is gross-of-fees.

² Charts display top exposures and may not add up to 100%.

Growth Risk Analysis – Global Equity Capital Group Developed Markets



for the quarter ended September 30, 2023

Portfolio Risk Summary



Top 10 Countries by Weight



Top 10 Assets by Contribution to Portfolio Active Risk

Asset	Portfolio Weight	Benchmark Weight	Active Weight	Contribution to Portfolio Active Risk
ASML HOLDING NV	3.69%	0.00%	3.69%	0.48%
NOVO NORDISK A/S	4.13%	1.81%	2.33%	0.19%
OCADO GROUP PLC	1.37%	0.03%	1.34%	0.17%
TOKYO ELECTRON LTD	1.56%	0.39%	1.16%	0.15%
SHELL PLC	0.00%	1.29%	-1.29%	0.12%
EVOLUTION AB	1.98%	0.11%	1.87%	0.14%
GENMAB A/S	1.71%	0.14%	1.57%	0.13%
KEYENCE CORP	1.72%	0.44%	1.28%	0.12%
HAMAMATSU PHOTONICS KK	1.81%	0.04%	1.77%	0.12%
CAPGEMINI SE	1.69%	0.18%	1.51%	0.10%

Portfolio Allocation by GICS Sector



Growth – Global Equity Cevian Capital II

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1 Year 3 Year 5 Year

for the quarter ended September 30, 2023

Strategy

Seeks to generate long-term returns by researching and investing in European companies that have profitable businesses and significant improvement potential. The strategy may be suited to investors looking to increase portfolio diversification through differentiated investment approach and take advantage of return opportunities in Europe.

Inception Date: October 2016

Risk Statistics (since inception)

Standard Deviation	16.3%
Benchmark Standard Deviation	17.3%
Sharpe Ratio	0.52
Information Ratio	0.32
Beta	0.77
Tracking Error	10.1%

Performance (net)¹

Cevian Capital II - Activist	4	57.3		1.1%	25.7%	16.6%	8.0%		
MSCI EUROPE				-5.0%	28.8%	7.2%	4.0%		
Growth Policy Benchmark				-0.2%	17.8%	8.9%			
Universe data: Intl Equity Developed	Mkt Funds	QTD	Rank	1 Yea	r Ranl	3 Year	Rank	5 Year	Rank
Cevian Capital II - Activist		1.4%	24	27.19	6 69	17.9%	58	9.2%	
Median		-3.6%		22.89	6	5.6%		3.7%	

QTD

Ending Market Value (mm)

No. of Observations 176

Calendar Year Returns



Growth of \$10,000



Note: Commingled fund account with no position-level transparency.

¹ Universe data is gross-of-fees.

Growth Risk Analysis – Global Equity Cevian Capital II



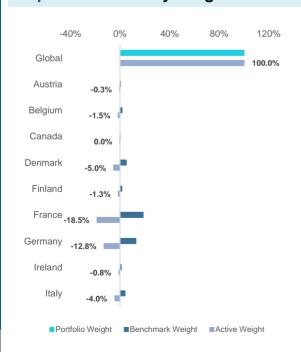
Los Angeles County Employees Retirement Association

for the quarter ended September 30, 2023

Portfolio Risk Summary



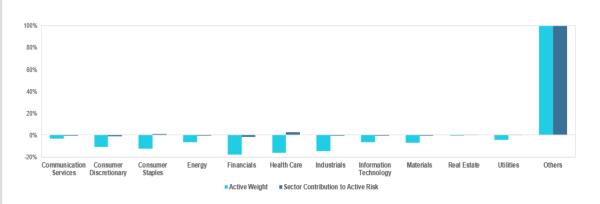
Top 10 Countries by Weight



Top 10 Assets by Contribution to Portfolio Active Risk

Asset	Portfolio Weight	Benchmark Weight	Active Weight	Contribution to Portfolio Active Risk
CEVIAN CAPITAL II	100.00%	0.00%	100.00%	9.16%
NOVO NORDISK A/S	0.00%	3.11%	-3.11%	0.07%
ASTRAZENECA PLC	0.00%	2.19%	-2.19%	0.06%
NESTLE SA	0.00%	3.15%	-3.15%	0.04%
ROCHE HOLDING AG	0.00%	2.00%	-2.00%	0.04%
NOVARTIS AG	0.00%	2.19%	-2.19%	0.03%
ASML HOLDING NV	0.00%	2.48%	-2.48%	0.00%
SHELL PLC	0.00%	2.22%	-2.22%	0.01%
UNILEVER PLC	0.00%	1.30%	-1.30%	0.02%
HSBC HOLDINGS PLC	0.00%	1.62%	-1.62%	0.01%

Portfolio Allocation by GICS Sector



Growth – Global Equity CornerCap US Small Cap



for the quarter ended September 30, 2023

Strategy

Seeks to exploit small cap market inefficiencies by using proprietary fundamental factors. The strategy may be suited to investors looking to increase U.S. small cap exposure and diversify portfolio through an active quantitative investment approach.

Inception Date: October 2018

Portfolio Characteristics

	Portfolio	Benchmark
Market Cap Wtd Average (mm)	2,530.1	2,824.8
No. Of Issues	353.0	0.0
Dividend Yield	1.6	1.4
Return on Equity	10.7	11.0
Price to Sales	4.0	10.0
Price to Book	1.5	1.9
PE Ratio	15.5	27.0

Top Holdings (% of assets)

HELIX ENERGY SOLUTIONS GROUP	0.6%
AMERICAN WOODMARK CORP	0.6%
PERDOCEO EDUCATION CORP	0.5%
CARPENTER TECHNOLOGY	0.5%
COCA COLA CONSOLIDATED INC	0.5%
Top 5 Holdings	2.8%

¹ Universe data is gross-of-fees.

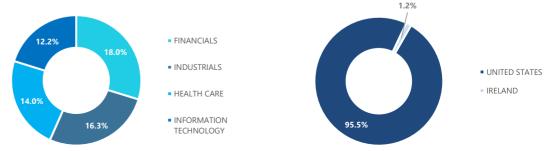
Performance (net)¹

• •									
	Ending N	Market Valu	ıe (mm)	QTD	1 Year	3 Year	5 Year		
Cornercap US Small Cap - EMP		80.6		-1.8%	10.9%	16.5%	6.1%		
RUSSELL 2000				-5.1%	8.9%	7.2%	2.4%		
Growth Policy Benchmark				-0.2%	17.8%	8.9%			
Universe data: US Equity Funds - Sma	II Cap	QTD	Rank	1 Year	Rank	3 Year	Rank	5 Year	Rank
Cornercap US Small Cap - EMP		-1.7%	24	11.5%	11	17.1%	28	6.7%	20
Median		-4.1%		14.4%		12.2%		5.3%	
No. of Observations		55							

Growth of \$10,000



Top Exposures (% of assets)²



1,35

² Charts display top exposures and may not add up to 100%.

Growth Risk Analysis – Global Equity CornerCap US Small Cap

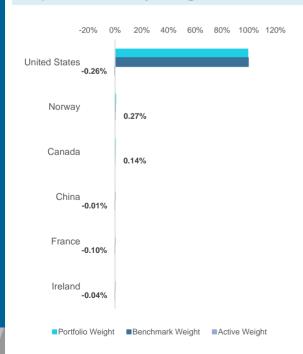


for the quarter ended September 30, 2023

Portfolio Risk Summary



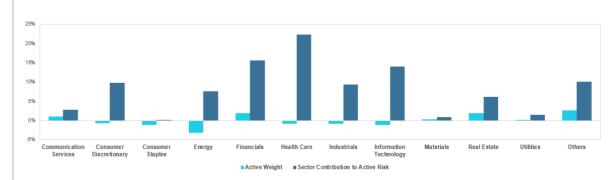
Top Countries by Weight



Top 10 Assets by Contribution to Portfolio Active Risk

Asset	Portfolio Weight	Benchmark Weight	Active Weight	Contribution to Portfolio Active Risk
SUPER MICRO COMPUTER INC	0.00%	0.57%	-0.57%	0.08%
CHART INDUSTRIES INC	0.00%	0.32%	-0.32%	0.03%
ONTO INNOVATION INC	0.00%	0.28%	-0.28%	0.03%
AXCELIS TECHNOLOGIES INC	0.00%	0.24%	-0.24%	0.03%
MATADOR RESOURCES CO	0.00%	0.30%	-0.30%	0.02%
RAMBUS INC	0.00%	0.27%	-0.27%	0.02%
WEATHERFORD INTERNATIONAL PLC	0.00%	0.29%	-0.29%	0.01%
CARVANA CO	0.00%	0.18%	-0.18%	0.03%
CHAMPIONX CORP	0.00%	0.32%	-0.32%	0.01%
FABRINET	0.00%	0.27%	-0.27%	0.01%

Portfolio Allocation by GICS Sector



Growth – Global Equity Frontier US SMID Growth



for the quarter ended September 30, 2023

Strategy

Seeks to invest in high quality companies at attractive valuations and sustainable secular growth through fundamental analysis. The strategy may be suited to investors looking to increase U.S. mid and small cap exposures and generate returns through stock selection and low turnover.

Inception Date: June 2002

Portfolio Characteristics

	Portfolio	Benchmark
Market Cap Wtd Average (mm)	7,310.5	6,141.6
No. Of Issues	142.0	0.0
Dividend Yield	0.6	1.5
Return on Equity	12.2	13.8
Price to Sales	2.7	2.8
Price to Book	3.3	3.2
PE Ratio	18.4	16.5

Top Holdings (% of assets)

ARRAY TECHNOLOGIES INC	1.9%
ATI INC	1.8%
MRC GLOBAL INC	1.8%
XPO INC	1.7%
BANCORP INC/THE	1.7%
Top 5 Holdings	8.8%

¹ Universe data is gross-of-fees.

Performance (net)¹ Ending Market Value (mm) OTD 1 Year 3 Year 5 Year

	Ending Market Value (mm)		QID	1 Year	3 Year	5 Year			
Frontier US SMID Growth		282.5		-6.9%	22.5%	11.4%	5.5%		
RUSSELL 2500				-4.8%	11.3%	8.4%	4.5%		
Growth Policy Benchmark			-0.2%	17.8%	8.9%				
Universe data: US Equity Funds - Sma	ll Cap	QTD	Rank	1 Year	Rank	3 Year	Rank	5 Year	Rank
Frontier US SMID Growth		-6.7%	85	23.4%	11	12.2%	50	6.3%	29
Median		-4.1%		14.4%		12.2%		5.3%	

55

Growth of \$10,000

No. of Observations



Top Exposures (% of assets)²



² Charts display top exposures and may not add up to 100%.

Growth Risk Analysis – Global Equity Frontier US SMID Growth

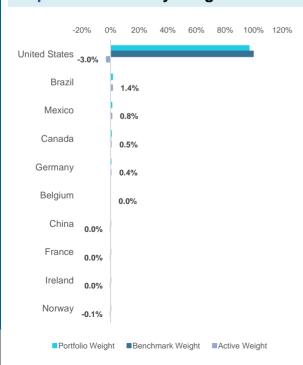


for the quarter ended September 30, 2023

Portfolio Risk Summary



Top 10 Countries by Weight



Top 10 Assets by Contribution to Portfolio Active Risk

	Asset	Portfolio Weight	Benchmark Weight	Active Weight	Contribution to Portfolio Active Risk
Α	RRAY TECHNOLOGIES INC	1.88%	0.06%	1.81%	0.41%
Α	ZUL SA	1.39%	0.00%	1.39%	0.31%
J	ABIL INC	2.51%	0.31%	2.21%	0.16%
V	/OLFSPEED INC	1.29%	0.09%	1.20%	0.27%
M	IRC GLOBAL INC	1.76%	0.02%	1.75%	0.17%
С	AESARS ENTERTAINMENT INC	1.45%	0.00%	1.45%	0.13%
Α	LBEMARLE CORP	1.32%	0.00%	1.32%	0.13%
S	ITIME CORPORATION	0.94%	0.04%	0.90%	0.18%
Р	AYMENTUS HOLDINGS INC	1.19%	0.00%	1.19%	0.15%
X	PO INC	1.70%	0.16%	1.53%	0.11%

Portfolio Allocation by GICS Sector



Growth – Global Equity Global Alpha

L//.CERA
Los Angeles County Employees Retirement Association

for the quarter ended September 30, 2023

Strategy

Seeks to identify mispriced companies with high rates of growth, strong balance sheets, and high insider ownership using a bottom-up, research-based approach coupled with investment themes. The strategy may be suited to investors looking to increase exposure to international small cap stocks.

Inception Date: November 2018

Portfolio Characteristics

	Portfolio	Benchmark
Market Cap Wtd Average (mm)	2,718.7	2,574.3
No. Of Issues	61.0	0.0
Dividend Yield	2.7	3.7
Return on Equity	12.5	11.6
Price to Sales	8.7	5.8
Price to Book	2.3	4.1
PE Ratio	12.6	14.4

Top Holdings (% of assets)

	l
SOPRA STERIA GROUP	3.8%
MELIA HOTELS INTERNATIONAL	3.7%
L OCCUTANTE INTERNIATIONIAL CA	2.60/
L OCCITANE INTERNATIONAL SA	3.6%
CANACONUTE INITEDNIATIONIAL CA	2.40/
SAMSONITE INTERNATIONAL SA	3.1%
DATELEC MEDICAL CROUDITD	2.10/
RAFFLES MEDICAL GROUP LTD	3.1%
The Fill-Disease	47 40/
Top 5 Holdings	17.4%

¹ Universe data is gross-of-fees.

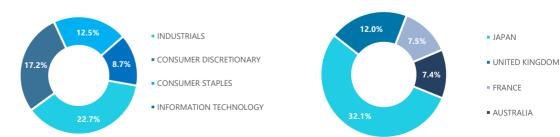
Performance (net)¹

	Ending Market Value	e (mm)	OTD	1 Year	3 Year	5 Year		
Global Alpha	166.7		-5.3%	15.9%	2.6%			
MSCI EAFE SMALL CAP NET			-3.5%	17.9%	1.1%			
Growth Policy Benchmark			-0.2%	17.8%	8.9%			
Universe data: International Equity Funds -	· Core QTD	Rank	1 Year	Rank	3 Year	Rank	5 Year	
Global Alpha	-5.1%	83	16.7%	71	3.3%	72		
Median	-3.3%		20.9%		7.1%			
No. of Observations	52							

Growth of \$10,000



Top Exposures (% of assets)²



² Charts display top exposures and may not add up to 100%.

Growth Risk Analysis – Global Equity Global Alpha



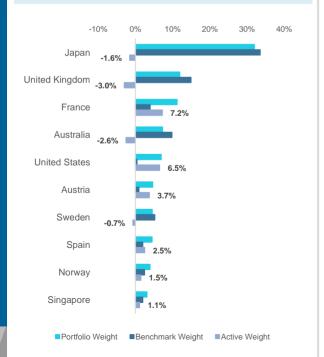
Los Angeles County Employees Retirement Association

for the quarter ended September 30, 2023

Portfolio Risk Summary



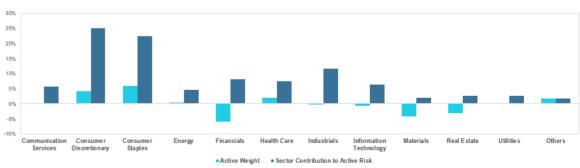
Top 10 Countries by Weight



Top 10 Assets by Contribution to Portfolio Active Risk

Contribution to
t Portfolio Active Risk
0.56%
0.31%
0.22%
0.19%
0.19%
0.11%
0.16%
0.13%
0.14%
0.01%

Portfolio Allocation by GICS Sector



Growth – Global Equity JPMorgan Strategic Beta Non-US



for the quarter ended September 30, 2023

Strategy

Seeks to capture incremental alpha through investing in equity factors that are rule-based, transparent, and academically proven. This strategy may be suited to investors looking to gain equity factor exposures in non-U.S. markets at lower volatility and cost than active strategies.

Inception Date: August 2020

Portfolio Characteristics

	Portfolio	Benchmark
Market Cap Wtd Average (mm)	70,892.7	70,251.1
No. Of Issues	1,799.0	0.0
Dividend Yield	3.5	3.3
Return on Equity	18.7	17.2
Price to Sales	3.4	3.9
Price to Book	4.1	4.1
PE Ratio	12.1	14.4

Top Holdings (% of assets)

ISHARES MSCI INDIA ETF	4.3%
TAIWAN SEMICONDUCTOR MANUFAC	1.5%
NOVO NORDISK A/S B	1.1%
NESTLE SA REG	1.1%
TENCENT HOLDINGS LTD	1.0%
Top 5 Holdings	9.0%

¹ Universe data is gross-of-fees.

Performance (net)¹

	Ending Market Valu	ie (mm)	QTD	1 Year	3 Year	5 Year		
JPMAM Strategic Beta Non-US	582.4		-3.0%	20.7%	5.0%			
MSCI ACWI ex USA IMI Net			-3.5%	20.2%	3.8%			
Growth Policy Benchmark			-0.2%	17.8%	8.9%			
Universe data: Intl Equity Developed Mkt Fu	unds QTD	Rank	1 Year	Rank	3 Year	Rank	5 Year	Rank
JPMAM Strategic Beta Non-US	-3.0%	39	20.8%	58	4.9%	52		
Median	-3.6%		22.8%		5.6%			
No. of Observations	176					-		

Growth of \$10,000



Top Exposures (% of assets)²



^{1.41}

² Charts display top exposures and may not add up to 100%.

Growth Risk Analysis – Global Equity JPMorgan Strategic Beta Non-US

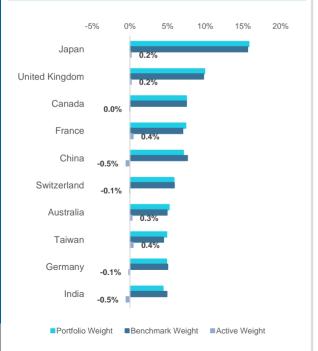


for the quarter ended September 30, 2023

Portfolio Risk Summary



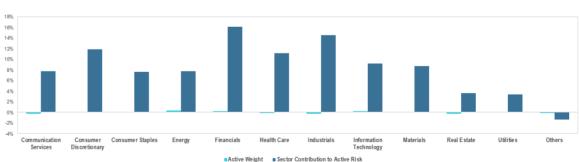
Top 10 Countries by Weight



Top 10 Assets by Contribution to Portfolio Active Risk

Asset	Portfolio Weight	Benchmark Weight	Active Weight	Contribution to Portfolio Active Risk
ASML HOLDING NV	0.00%	0.89%	-0.89%	0.07%
ARGENX SE	0.00%	0.10%	-0.10%	0.01%
MITSUBISHI UFJ FINANCIAL GROUP INC	0.00%	0.36%	-0.36%	-0.01%
UNILEVER PLC	0.03%	0.47%	-0.44%	-0.01%
ADVANTEST CORP	0.00%	0.08%	-0.08%	0.00%
XPENG INC	0.01%	0.03%	-0.02%	0.01%
NIO INC	0.02%	0.05%	-0.02%	0.01%
SHOPIFY INC	0.21%	0.24%	-0.03%	0.01%
WUXI BIOLOGICS CAYMAN INC	0.05%	0.08%	-0.03%	0.01%
SEA LIMITED	0.04%	0.06%	-0.02%	0.01%

Portfolio Allocation by GICS Sector



Growth – Global Equity JPMorgan Strategic Beta US



for the quarter ended September 30, 2023

Strategy

Seeks to capture incremental alpha through investing in equity factors that are rule-based, transparent, and academically proven. This strategy may be suited to investors looking to gain equity factor exposures in the U.S. at lower volatility and cost than active strategies.

Inception Date: July 2020

Portfolio Characteristics

	Portfolio	Benchmark
Market Cap Wtd Average (mm)	546,914.0	547,445.0
No. Of Issues	920.0	0.0
Dividend Yield	1.6	1.6
Return on Equity	24.4	22.5
Price to Sales	2.2	2.2
Price to Book	3.6	3.6
PE Ratio	19.6	20.6

Top Holdings (% of assets)

APPLE INC	6.4%
MICROSOFT CORP	5.3%
AMAZON.COM INC	2.8%
NVIDIA CORP	2.6%
ALPHABET INC CL A	1.9%
Top 5 Holdings	18.9%

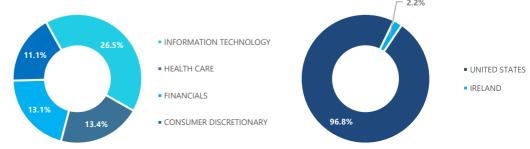
¹ Universe data is gross-of-fees.

Performance (net)¹ Ending Market Value (mm) OTD 1 Year 3 Year 5 Year 21.6% JPMAM Strategic Beta US 4.518.6 -3.0% 10.3% MSCI USA IMI Gross -3.2% 20.7% 9.6% **Growth Policy Benchmark** -0.2% 17.8% 8.9% Universe data: US Equities Total Large Cap OTD Rank 1 Year Rank 3 Year Rank 5 Year Rank JPMAM Strategic Beta US -3.0% 50 21.6% 53 10.3% 45 Median -3.0% 21.6% 10.2% No. of Observations 78

Growth of \$10,000



Top Exposures (% of assets)²



^{1.43}

² Charts display top exposures and may not add up to 100%.

Growth Risk Analysis – Global Equity JPMorgan Strategic Beta US

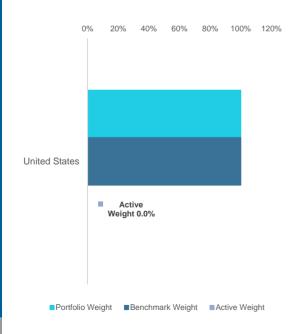


for the quarter ended September 30, 2023

Portfolio Risk Summary



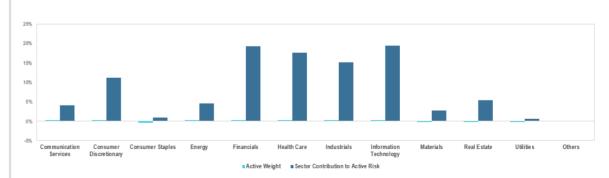
Top Country by Weight



Top 10 Assets by Contribution to Portfolio Active Risk

Asset	Portfolio Weight	Benchmark Weight	Active Weight	Contribution to Portfolio Active Risk
JPMORGAN CHASE & CO	0.00%	1.01%	-1.01%	0.05%
RIVIAN AUTOMOTIVE INC	0.00%	0.04%	-0.04%	0.01%
SNOWFLAKE INC	0.05%	0.10%	-0.04%	0.01%
SPLUNK INC	0.00%	0.05%	-0.05%	0.01%
TESLA INC	1.66%	1.71%	-0.05%	0.01%
MODERNA INC	0.04%	0.08%	-0.04%	0.01%
MONGODB INC	0.02%	0.06%	-0.04%	0.01%
COINBASE GLOBAL INC	0.00%	0.03%	-0.03%	0.01%
DATADOG INC	0.01%	0.05%	-0.04%	0.01%
CROWDSTRIKE HOLDINGS INC	0.04%	0.09%	-0.05%	0.00%

Portfolio Allocation by GICS Sector



Growth – Global Equity Lazard Emerging Markets



for the quarter ended September 30, 2023

Strategy

Seeks to provide long-term capital appreciation by investing in funds trading at a discount to their estimated net asset value, sum of the parts valuation, and/or underlying investments/businesses. The strategy may be suited to investors looking to capture growth opportunities in emerging markets and increase portfolio diversification.

Inception Date: February 2013

Portfolio Characteristics

	Portfolio	Benchmark
Market Cap Wtd Average (mm)	26,687.7	91,736.2
No. Of Issues	48.0	0.0
Dividend Yield	2.4	3.0
Return on Equity	12.2	12.0
Price to Sales	1.4	1.2
Price to Book	1.5	1.6
PE Ratio	12.6	13.1

Top Holdings (% of assets)

	ı
PROSUS NV	8.3%
CITIC SECURITIES CO LTD H	6.5%
JPMORGAN EMERGING MARKETS INVE	6.4%
TEMPLETON EMERGING MARKETS INV	6.4%
FIDELITY CHINA SPECIAL SITUATI	5.2%
Top 5 Holdings	32.7%

¹ Universe data is gross-of-fees.

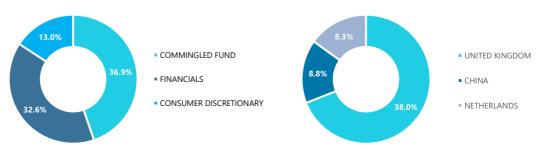
Performance (net)¹

	Ending N	√arket Valu	e (mm)	QTD	1 Year	3 Year	5 Year		
Lazard Emerging Markets		366.7		-3.9%	14.0%	-1.1%	2.4%		
MSCI EMERGING MARKETS				-2.9%	11.7%	-1.7%	0.6%		
Growth Policy Benchmark				-0.2%	17.8%	8.9%			
Universe data: Intl Equity Emerging Mk	Funds	QTD	Rank	1 Year	Rank	3 Year	Rank	5 Year	Ranl
Lazard Emerging Markets		-3.7%	64	14.8%	52	-0.5%	58	3.1%	53
Median		-3.1%		15.1%		1.7%		3.3%	
No. of Observations		92							

Growth of \$10,000



Top Exposures (% of assets)²



^{1.45}

² Charts display top exposures and may not add up to 100%.

Growth Risk Analysis – Global Equity Lazard Emerging Markets

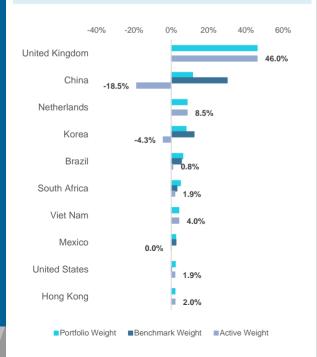


for the quarter ended September 30, 2023

Portfolio Risk Summary



Top 10 Countries by Weight



Top 10 Assets¹ by Contribution to Portfolio Active Risk

Asset	Portfolio Weight	Benchmark Weight	Active Weight	Contribution to Portfolio Active Risk
PROSUS NV	8.48%	0.00%	8.48%	1.49%
JPM EMERGING MARKETS INVT TRUST PLC	6.54%	0.00%	6.54%	0.98%
FIDELITY CHINA SPECIAL SITUATIONS PLC	5.29%	0.00%	5.29%	0.94%
TEMPLETON EMERGING MKTS INVT TRUST PLC	6.52%	0.00%	6.52%	0.92%
NASPERS	4.86%	0.48%	4.38%	0.57%
SCHRODER ASIAPACIFIC FUND PLC	2.79%	0.00%	2.79%	0.37%
UTILICO EMERGING MARKETS TRUST PLC	3.05%	0.00%	3.05%	0.37%
ASIA DRAGON TRUST PLC	2.44%	0.00%	2.44%	0.35%
FIDELITY EMERGING MARKETS LTD	2.39%	0.00%	2.39%	0.34%
ABRDN NEW INDIA INVESTMENT TRUST PLC	2.30%	0.00%	2.30%	0.33%

Note: Weights represent country of domicile of closed-end fund and not country of underlying fund holdings.

Portfolio Allocation by GICS Sector



Growth – Global Equity SSGA MSCI ACWI IMI

L//LCERA

Los Angeles County Employees Retirement Association

for the quarter ended September 30, 2023

Strategy

Seeks to provide global equity market exposure and passive index returns. This strategy may be suited to investors looking to gain passive, global equity exposures with low tracking error.

Inception Date: January 2020

Portfolio Characteristics

	Portfolio	Benchmark
Market Cap Wtd Average (mm)	363,170.0	361,911.2
No. Of Issues	6,413.0	0.0
Dividend Yield	2.0	2.0
Return on Equity	24.1	24.0
Price to Sales	5.4	5.3
Price to Book	11.0	11.2
PE Ratio	19.1	19.2

Top Holdings (% of assets)

	ı
APPLE INC	3.9%
MICROSOFT CORP	3.2%
AMAZON.COM INC	1.7%
ALPHABET INC CL A	1.1%
TESLA INC	1.0%
Top 5 Holdings	10.9%

¹ Universe data is gross-of-fees.

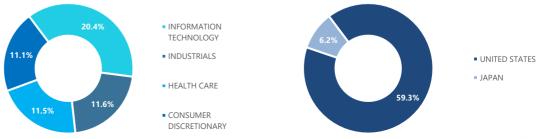
Performance (net)¹

	Ending Mark	ket Value (r	nm)	QTE)	1 Year	3 Year	5 Year		
SSGA MSCI ACWI IMI	14,	947.5		-3.49	%	20.6%	7.5%			
MSCI ACWI IMI Net				-3.49	%	20.2%	6.9%			
Growth Policy Benchmark				-0.29	%	17.8%	8.9%			
Universe data: Global Equity Funds	QTD	Rank	1 Y	'ear	R	ank	3 Year	Rank	5 Year	Ran
SSGA MSCI ACWI IMI	-3.4%	59	20.	.6%		47	7.5%	48		
Median	-2.9%		20	.3%			7.2%			
No. of Observations	110									

Growth of \$10,000



Top Exposures (% of assets)²



1.47

² Charts display top exposures and may not add up to 100%.

Growth Risk Analysis – Global Equity SSGA MSCI ACWI IMI

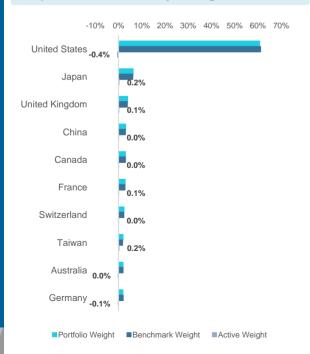


for the quarter ended September 30, 2023

Portfolio Risk Summary



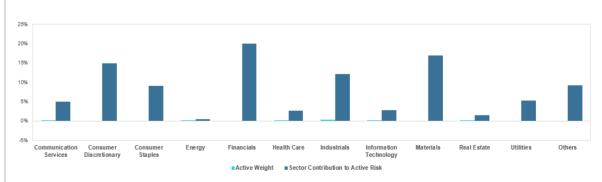
Top 10 Countries by Weight



Top 10 Assets by Contribution to Portfolio Active Risk

Asset	Portfolio Weight	Benchmark Weight	Active Weight	Contribution to Portfolio Active Risk
ASML HOLDING NV	0.34%	0.00%	0.34%	0.02%
RELIANCE INDUSTRIES LTD	0.00%	0.13%	-0.12%	0.01%
DAIMLER AG	0.08%	0.00%	0.08%	0.00%
VALE SA	0.07%	0.00%	0.07%	0.00%
ATLAS COPCO AB	0.08%	0.03%	0.05%	0.00%
FERGUSON PLC	0.05%	0.00%	0.05%	0.00%
HDFC BANK LTD	0.00%	0.07%	-0.07%	0.01%
BAJAJ FINANCE LTD	0.00%	0.04%	-0.04%	0.01%
AXIS BANK LTD	0.00%	0.04%	-0.04%	0.01%
MITSUBISHI UFJ FINANCIAL GROUP C/S	0.14%	0.00%	0.14%	0.00%

Portfolio Allocation by GICS Sector



Growth – Global Equity Systematic US Small Cap Value



for the quarter ended September 30, 2023

Strategy

Seeks to identify high quality small cap companies capable of generating high rates of return with attractive valuations. The strategy may be suited for investors looking to increase U.S. small cap exposure with defensive characteristics.

Inception Date: July 2018

Portfolio Characteristics

	Portfolio	Benchmark
Market Cap Wtd Average (mm)	4,593.4	2,824.8
No. Of Issues	154.0	0.0
Dividend Yield	1.4	1.4
Return on Equity	11.6	4.9
Price to Sales	1.8	1.8
Price to Book	1.9	1.9
PE Ratio	11.9	12.0

Top Holdings (% of assets)

FIRST CITIZENS BCSHS CL A	3.4%
EMCOR GROUP INC	1.8%
KBR INC	1.6%
CROSS COUNTRY HEALTHCARE INC	1.5%
COMFORT SYSTEMS USA INC	1.5%
Top 5 Holdings	9.8%

¹ Universe data is gross-of-fees.

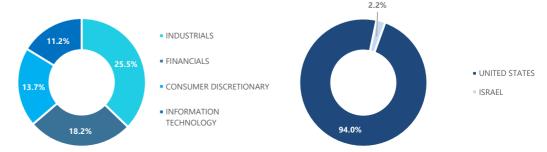
Performance (net)¹

	Ending Market Value	e (mm)	QTD	1 Year	3 Year	5 Year	
Systematic US Small Cap Value	196.4		-1.2%	17.8%	16.6%	5.6%	
RUSSELL 2000			-5.1%	8.9%	7.2%	2.4%	
Growth Policy Benchmark			-0.2%	17.8%	8.9%		
Jniverse data: US Equity Funds - Small Ca	ap QTD	Rank	1 Year	Rank	3 Year	Rank	
Systematic US Small Cap Value	-1.1%	18	18.5%	17	17.2%	20	
Median	-4.1%		14.4%		12.2%		
No. of Observations	55			'	'		

Growth of \$10,000



Top Exposures (% of assets)²



1,49

² Charts display top exposures and may not add up to 100%.

Growth Risk Analysis – Global Equity Systematic US Small Cap Value

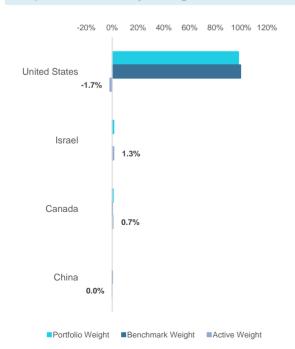


for the quarter ended September 30, 2023

Portfolio Risk Summary



Top Countries by Weight



Top 10 Assets by Contribution to Portfolio Active Risk

Asset	Portfolio Weight	Benchmark Weight	Active Weight	Contribution to Portfolio Active Risk
SUPER MICRO COMPUTER INC	0.00%	0.57%	-0.57%	0.05%
CHART INDUSTRIES INC	0.00%	0.32%	-0.32%	0.02%
CARVANA CO	0.00%	0.18%	-0.18%	0.03%
MATADOR RESOURCES CO	0.00%	0.30%	-0.30%	0.01%
TENABLE HOLDINGS INC	0.00%	0.23%	-0.23%	0.02%
AXCELIS TECHNOLOGIES INC	0.00%	0.24%	-0.24%	0.01%
LIGHT & WONDER INC	0.00%	0.29%	-0.29%	0.00%
DUOLINGO INC	0.00%	0.21%	-0.21%	0.01%
CHAMPIONX CORP	0.00%	0.32%	-0.32%	0.00%
MICROSTRATEGY INC	0.00%	0.16%	-0.16%	0.02%

Portfolio Allocation by GICS Sector





credit

Summary

for the quarter ended September 30, 2023



Performance (net)



	QTD	FYTD	YTD	1 Year	3 Year	5 Year	10 Year	ITD
Credit	3.1%	3.1%	9.2%	11.6%	6.1%			5.0%
Benchmark	3.0%	3.0%	8.2%	10.2%	2.3%			3.4%
Excess	0.0%	0.0%	1.1%	1.4%	3.9%			1.6%

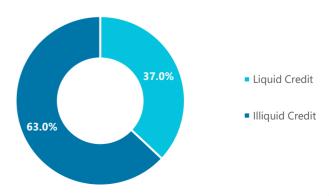
Cumulative Return



Functional Category

	QTD	FYTD	YTD	1 Year	3 Year
Liquid Credit	1.8%	1.8%	8.0%	12.2%	
Liquid Credit Policy Benchmark	1.1%	1.1%	6.9%	11.2%	
Excess	0.7%	0.7%	1.2%	1.0%	
Illiquid Credit	3.8%	3.8%	9.7%	9.6%	12.7%
Illiquid Credit Policy Benchmark	4.1%	4.1%	8.8%	9.5%	1.5%
Excess	-0.4%	-0.4%	0.9%	0.1%	11.2%

Exposure

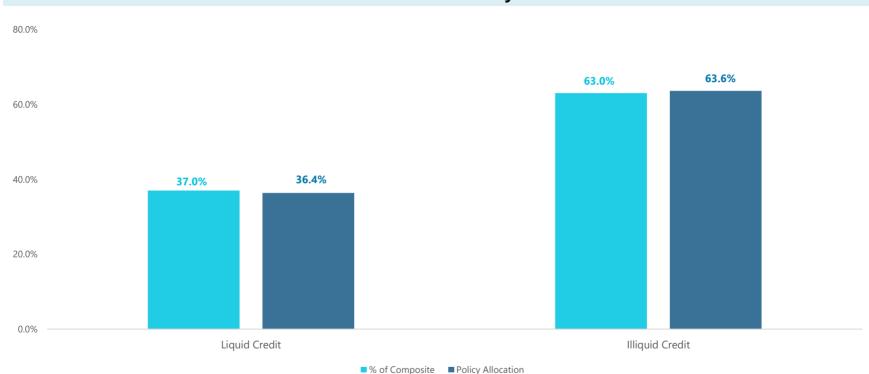


Asset Allocation

for the quarter ended September 30, 2023







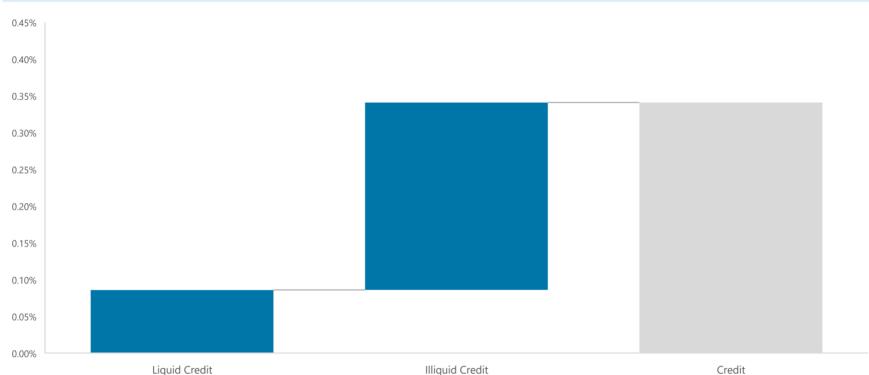
	Ending Market Value	% of Composite	Policy Allocation	Over / Under	Over / Under
Credit	8,351	100.0%	100.0%		
Liquid Credit	3,089	37.0%	36.4%	0.6%	53
Illiquid Credit	5,262	63.0%	63.6%	-0.6%	-53

Contribution to Return



for the quarter ended September 30, 2023





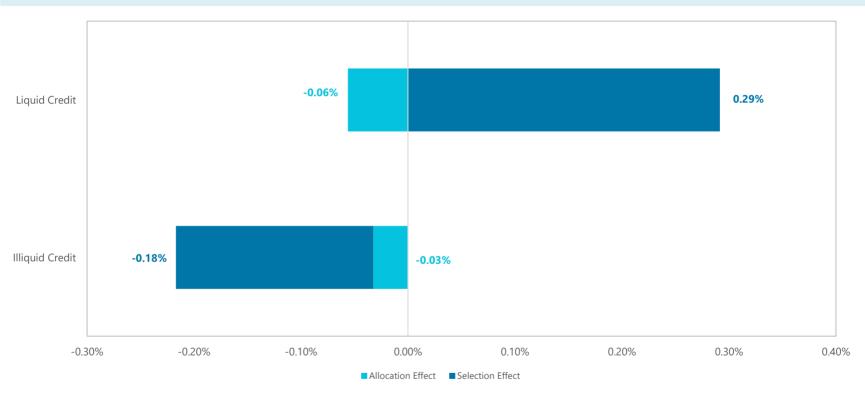
Functional Category	Contributors	Detractors
Liquid Credit	0.09% Napier Park	0.08% Ashmore Investment Management -0.01%
Illiquid Credit	0.26% Magnetar	0.06%
Credit	0.34% Lake Cascade	0.03%
	Credit Suisse Bank Loans	0.03%
	BlackRock/Tennenbaum	0.03%

Return Attribution

for the quarter ended September 30, 2023



QTD Performance Attribution¹



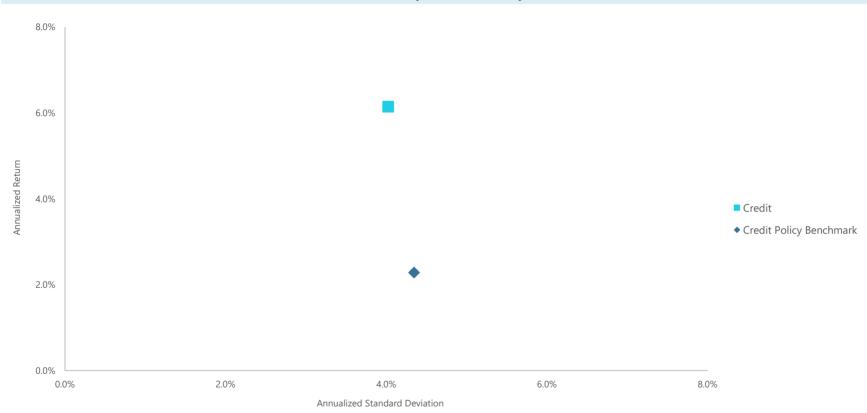
	Ending Market Value	% of Composite	Policy Allocation	Portfolio Return	Benchmark Return	Allocation Effect	Selection Effect	Total Value Add
Credit	8,351	100.0%	100.0%	3.1%	3.0%	-0.09%	0.11%	0.02%
Liquid Credit	3,089	37.0%	36.4%	1.8%	1.1%	-0.06%	0.29%	0.24%
Illiquid Credit	5,262	63.0%	63.6%	3.8%	4.1%	-0.03%	-0.18%	-0.22%

Risk vs. Return





3 Year (Annualized)



	Annualized	Standard	Sharpe	Information		Tracking
	Return	Deviation	Ratio	Ratio	Beta	Error
Credit	6.1%	4.0%				
Credit Policy Benchmark	2.3%	4.3%	1.09	1.21	0.68	3.1%

Performance Detail



for the quarter ended September 30, 2023

Los Angeles County Employees Retirement Association

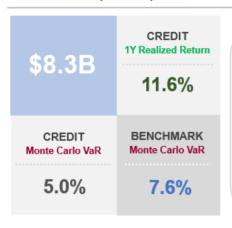
Annualized Net Returns

		Ending	Prior Quarter									
	% of	Market Value	Ending MV									Inception
	Composite	(mm)	(mm)	QTD	FYTD	YTD	1 Year	3 Year	5 Year	10 Year	ITD	Date
Credit	100.0%	8,351	8,297	3.1%	3.1%	9.2%	11.6%	6.1%			5.0%	Apr-2019
Credit Policy Benchmark				3.0%	3.0%	8.2%	10.2%	2.3%			3.4%	
Liquid Credit	37.0%	3,089	3,458	1.8%	1.8%	8.0%	12.2%				-0.4%	Oct-2021
Liquid Credit Policy Benchmark				1.1%	1.1%	6.9%	11.2%				-0.7%	
abrdn	2.9%	240	367	-1.9%	-1.9%	4.7%	14.7%	-2.8%	0.3%		-0.1%	Jul-2017
Ashmore Investment Management	3.0%	251	256	-1.8%	-1.8%	2.6%	12.5%	-4.0%	-2.1%		-1.7%	Jun-2017
Bain Capital	5.5%	461	446	3.4%	3.4%	10.8%	13.0%	7.1%	5.1%		4.3%	Jun-2014
Beach Point	3.6%	302	299	1.0%	1.0%	7.8%	12.5%	1.7%	3.1%		4.4%	Mar-2014
Brigade Cap Mgmt	5.6%	469	519	1.9%	1.9%	6.9%	8.3%	4.3%	2.6%	4.0%	5.8%	Jul-2010
Credit Suisse Bank Loans	5.2%	434	660	3.6%	3.6%	10.8%	14.6%	6.1%			8.0%	Apr-2020
Crescent Capital	5.7%	477	460	3.6%	3.6%	10.7%	11.2%	5.5%	4.8%		3.9%	May-2014
Pinebridge Investments	5.4%	454	450	1.0%	1.0%	6.6%	11.1%				-2.3%	Sep-2021
Illiquid Credit	63.0%	5,262	4,839	3.8%	3.8%	9.7%	9.6%	12.7%			9.9%	Apr-2019
Illiquid Credit Policy Benchmark				4.1%	4.1%	8.8%	9.5%	1.5%			5.0%	
Beach Point - Fund II	0.1%	11	12									Jun-2014
Beach Point - Fund III	1.3%	108	113	4.1%	4.1%	1.3%	-3.1%	11.7%	8.8%		9.0%	Jun-2017
BlackRock/Tennenbaum	7.2%	602	631	3.2%	3.2%	7.6%	8.9%	8.7%	7.4%		7.4%	Nov-2014
Grosvenor OPCRD 2 HFOF	0.2%	21	21									Mar-2016
Lake Cascade	8.4%	702	506	3.5%	3.5%						4.6%	Jan-2023
Lake Cottage	8.2%	688	522	1.5%	1.5%	6.7%					6.7%	Nov-2022
Lake Vineyard	6.7%	560	543	3.2%	3.2%	9.0%	9.6%				5.1%	Apr-2022
Magnetar	12.0%	1,000	958	4.4%	4.4%	10.6%	10.4%	18.3%			17.2%	Aug-2020
Napier Park	11.7%	981	907	6.8%	6.8%	15.6%	14.8%	11.4%			16.3%	Apr-2020
PIMCO Tac Opps	2.8%	234	284	3.0%	3.0%	7.3%	6.3%	7.4%			6.0%	Nov-2018
Private Equity - Credit	2.7%	227	229	-0.4%	-0.4%	11.9%	16.5%	27.5%			14.1%	Jan-2019
Real Estate - Credit	0.7%	62	59	4.7%	4.7%	12.0%	15.6%	11.7%	10.8%	9.3%	9.5%	Oct-2011
Stable Asset Management – IC	0.8%	65	55	2.1%	2.1%	2.0%					2.0%	Nov-2022

Credit Risk Summary

for the quarter ended September 30, 2023

Realized (Ex-Post) Risks

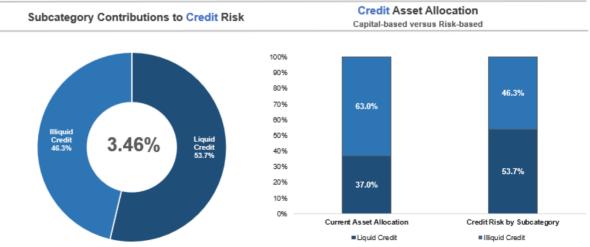






Projected (Ex-Ante) Risks





*as of 9/30/23

L///CERA Los Angeles County Employees Retirement Association

Credit Risk Summary

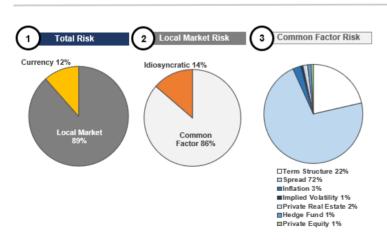
for the quarter ended September 30, 2023

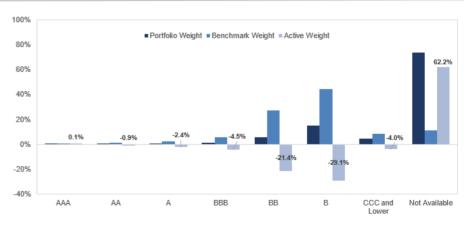
Decomposition of MSCI Risk Factors



Credit Risk Decomposition

Portfolio Allocation by Moody's Rating



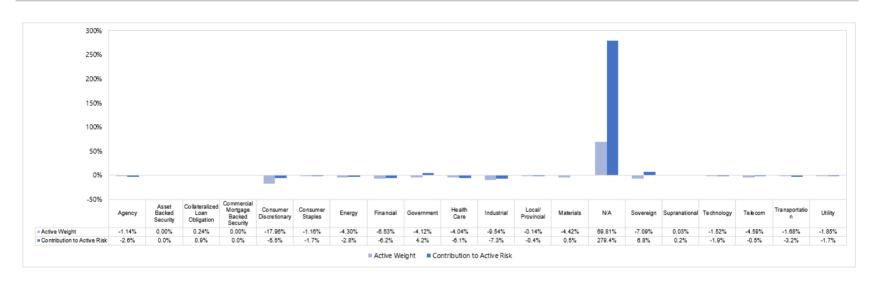


L//.CERA Los Angeles County Employees Retirement Association

Credit Risk Summary

for the quarter ended September 30, 2023

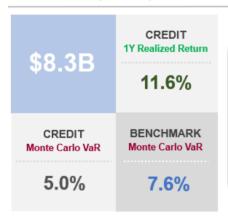
Portfolio Allocation by Bond Sector



Liquid Credit Risk Summary

for the quarter ended September 30, 2023

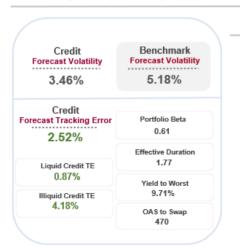
Realized (Ex-Post) Risks

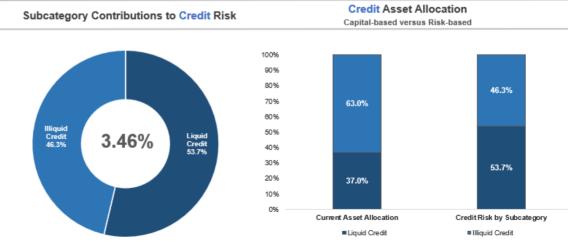






Projected (Ex-Ante) Risks





Liquid Credit Risk Summary

L///CERA
Los Angeles County Employees Retirement Association

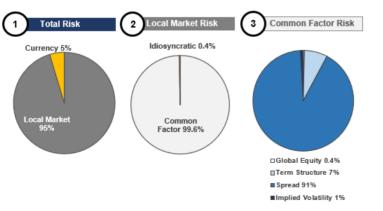
for the quarter ended September 30, 2023

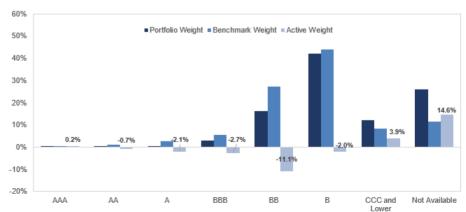
Decomposition of MSCI Risk Factors



Liquid Credit Risk Decomposition

Portfolio Allocation by Moody's Rating



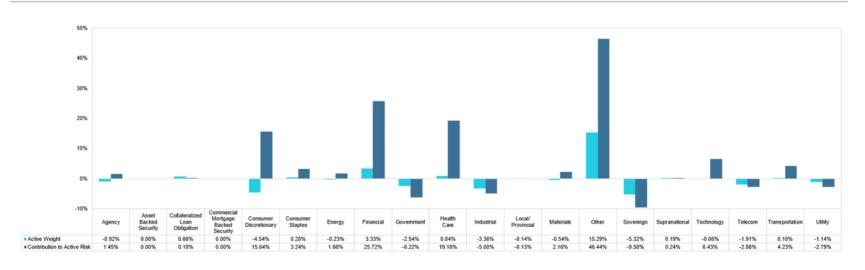


L///CERA Los Angeles County Employees Retirement Association

Liquid Credit Risk Summary

for the quarter ended September 30, 2023

Portfolio Allocation by Bond Sector



Credit - Liquid Credit abrdn

Los Angeles County Employees Retirement Association

for the guarter ended September 30, 2023

Strategy

An emerging market debt strategy that invests in sovereigns, quasi-sovereigns, and corporate bonds denominated in US Dollar or local currencies.

Inception Date: July 2017

Risk Statistics (since inception)

Standard Deviation	11.0%
Benchmark Standard Deviation	9.3%
Sharpe Ratio	-0.11
Information Ratio	-0.15
Beta	1.16
Tracking Error	2.7%

Performance (net)¹

	Ending Market Value (mm)	QTD	1 Year	3 Year	5 Year
abrdn	240.4	-1.9%	14.7%	-2.8%	0.3%
EMD Custom Benchmark		-2.0%	10.4%	-3.3%	0.4%
Credit Policy Benchmark		3.0%	10.2%	2.3%	

Universe data: US Fixed Income Funds	QTD	Rank	1 Year	Rank	3 Year	Rank	5 Year	Rank
abrdn	-1.8%	59	15.1%	8	-2.5%	58	0.6%	68
Median	-0.9%		2.7%		-1.5%		1.2%	
No. of Observations	758							

No. of Observations

Calendar Year Returns



Growth of \$10,000



Note: Commingled fund account with no position-level transparency. ¹ Universe data is gross-of-fees.

Credit Risk Analysis – Liquid Credit abrdn



Active Weight

for the quarter ended September 30, 2023

Portfolio Risk Summary



Top 10 Countries by Weight

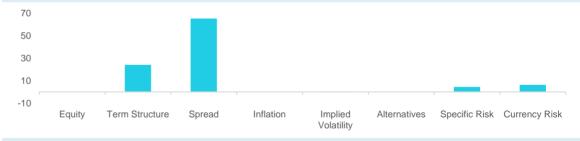




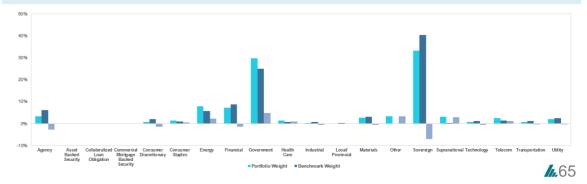
■Benchmark Weight



Portfolio Weight



Portfolio Allocation by Bond Sector



Credit – Liquid Credit Ashmore

Los Angeles County Employees Retirement Association

-1.5%

1.2%

for the guarter ended September 30, 2023

Strategy

A value-driven emerging market debt strategy that applies a macro, top-down approach to build a well-diversified portfolio that adds value through asset rotation, security selection, and currency positioning utilizing a committee driven, systematic risk mitigating process.

Inception Date: June 2017

Risk Statistics (since inception)

Standard Deviation	12.9%
Benchmark Standard Deviation	9.3%
Sharpe Ratio	-0.19
Information Ratio	-0.44
Beta	1.36
Tracking Error	4.3%

Performance (net) ¹								
	Ending Market	Value (mm)	QTD	1 Year	3 Year	5 Year		
Ashmore Investment Management	251.	3	-1.8%	12.5%	-4.0%	-2.1%		
EMD Custom Benchmark			-2.0%	10.4%	-3.3%	0.4%		
Credit Policy Benchmark			3.0%	10.2%	2.3%			
Universe data: US Fixed Income Funds	QTD	Rank	1 Year	Rank	3 Year	Rank	5 Year	Rank
Ashmore Investment Management	-1.7%	58	13.0%	11	-3.5%	66	-1.6%	94

2.7%

-0.9%

758

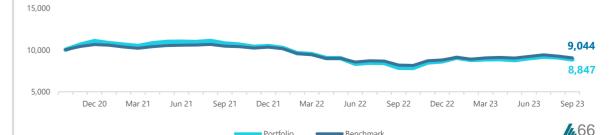
No. of Observations

Calendar Year Returns

Median



Growth of \$10,000



Benchmark

Portfolio

Note: Commingled fund account with no position-level transparency. ¹ Universe data is gross-of-fees.

Credit Risk Analysis – Liquid Credit Ashmore

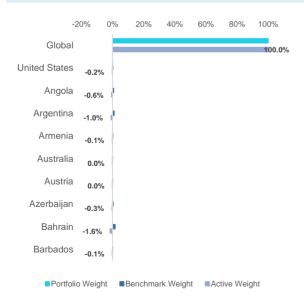


for the quarter ended September 30, 2023

Portfolio Risk Summary



Top 10 Countries by Weight

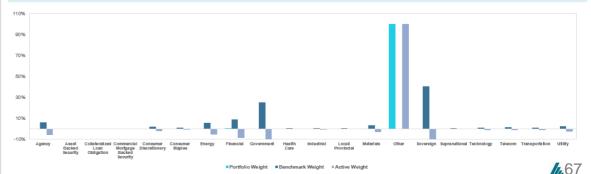








Portfolio Allocation by Bond Sector



Credit – Liquid Credit Bain Capital

Los Angeles County Employees Retirement Association

for the quarter ended September 30, 2023

Strategy

A long-only strategy designed to provide exposure to senior secured, floating-rate bank loans. The strategy takes a fundamental, active, and global approach to investing, capitalizing on opportunities in an inefficient asset class. The return objective is to outperform the Index through strong credit selection and active portfolio management.

Inception Date: June 2014

Portfolio Characteristics

	Portfolio	Benchmark
No. of Issues	550.0	0.0
Effective Duration	0.2	3.6
Convexity	0.0	0.0
Coupon Rate	8.6	6.0
Yield to Maturity	7.9	8.7
Current Yield	8.8	6.7
Rating – Moody's	B-2	B-1
Rating – S & P	В	B+

Top Holdings (% of assets)

CPS GROUP HOLDINGS INC	0.8%
AQGEN ISLAND HOLDINGS, INC.	0.6%
SPRINT INTERMEDIATE HOLDING I	0.6%
PMHC II INC	0.6%
BALLINASMALLA HOLDINGS LIMITED	0.6%
Top 5 Holdings	3.1%

¹ Universe data is gross-of-fees.

Performance (net)¹

	Ending Market Value (mm)		QTD	1 Year	3 Year	5 Year		
Bain Capital	461.0		3.4%	13.0%	7.1%	5.1%		
Bank Loans Custom Benchmark			3.4%	12.5%	5.9%	4.8%		
Credit Policy Benchmark			3.0%	10.2%	2.3%			
Universe data: U.S. Fixed Income Funds	QTD	Rank	1 Year	Rank	3 Year	Rank	5 Year	Rank
Bain Capital	3.6%	10	13.6%	11	7.7%	18	5.7%	15
Median	-0.9%		2.7%		-1.5%		1.2%	
No. of Observations	758							

Growth of \$10,000



Top Exposures (% of assets)²



1.68

² Charts display top exposures and may not add up to 100%.

Credit Risk Analysis – Liquid Credit Bain Capital

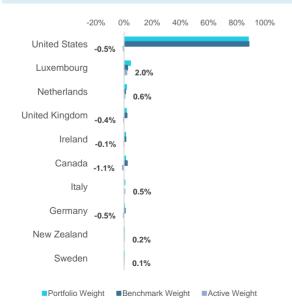


for the quarter ended September 30, 2023

Portfolio Risk Summary



Top 10 Countries by Weight

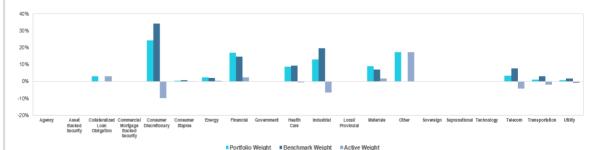








Portfolio Allocation by Bond Sector



Credit – Liquid Credit Beach Point

L///CERA
Los Angeles County Employees Retirement Association

for the quarter ended September 30, 2023

Strategy

A fundamental, value oriented high yield bond strategy that utilizes legal skills to identify market anomalies in bond covenants and indentures. The primary investment goal is to generate superior returns while controlling risk to minimize the possibility of capital impairment.

Inception Date: June 2014

Portfolio Characteristics

	Portfolio	Benchmark
No. of Issues	271.0	0.0
Effective Duration	3.3	3.6
Convexity	0.0	0.0
Coupon Rate	6.2	6.0
Yield to Maturity	8.8	8.7
Current Yield	7.0	6.7
Rating – Moody's	B-1	B-1
Rating – S & P	В	B+

Top Holdings (% of assets)

MPH ACQUISITION HOLDINGS	1.6%
DEALER TIRE LLC/DT ISSR	1.5%
COMPASS GROUP DIVERSIFIE	1.3%
FORTRESS TRANS + INFRAST	1.1%
AMWINS GROUP INC	1.1%
Top 5 Holdings	6.5%

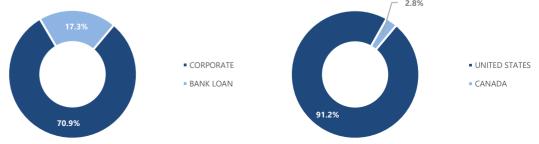
Performance (net)¹

	Ending Marl	Ending Market Value (mm)		QTD	1 Year	3 Year	5 Year		
Beach Point	3	302.5		1.0%	12.5%	1.7%	3.1%		
Beachpoint Custom Benchmark				0.5%	10.3%	1.8%	2.5%		
Credit Policy Benchmark				3.0%	10.2%	2.3%			
Universe data: US Fixed Income Funds	QT	TD	Rank	1 Year	Rank	3 Year	Rank	5 Year	Ra
Beach Point	1.1	1%	24	13.0%	11	2.2%	28	3.6%	2
Median	-0.9	9%		2.7%		-1.5%		1.2%	
No. of Observations	75	58					-		

Growth of \$10,000



Top Exposures (% of assets)²



1.70

¹ Universe data is gross-of-fees.

² Charts display top exposures and may not add up to 100%.

Credit Risk Analysis – Liquid Credit Beach Point



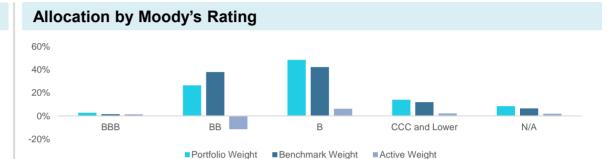
for the quarter ended September 30, 2023

Portfolio Risk Summary

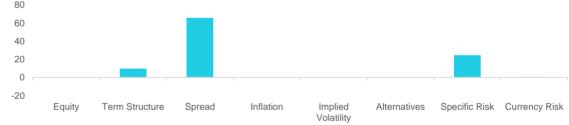


Top 10 Countries by Weight

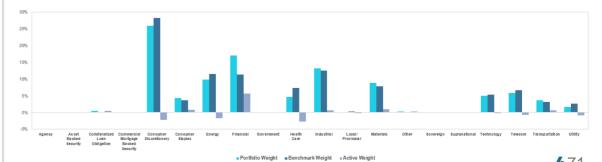








Portfolio Allocation by Bond Sector



Credit – Liquid Credit Brigade Capital

Los Angeles County Employees Retirement Association

for the quarter ended September 30, 2023

Strategy

A strategy that focuses on identifying attractive companies within the high yield bond marketplace. The strategy invests in companies that have a lower likelihood of default or are better able to recover from economic downturns because of their substantial asset value relative to debt.

Inception Date: July 2010

Portfolio Characteristics

	Portfolio	Benchmark
No. of Issues	243.0	0.0
Effective Duration	2.8	3.6
Convexity	0.1	0.0
Coupon Rate	7.3	6.0
Yield to Maturity	13.2	8.7
Current Yield	9.2	6.7
Rating – Moody's	B-3	B-1
Rating – S & P	B-	B+

Top Holdings (% of assets)

CORNERSTONE CHEMICAL CO	3.0%
RP ESCROW ISSUER LLC	1.9%
GLOBAL MEDICAL RESPONSE	1.8%
LIFESCAN GLOBAL CORPORATION	1.8%
CMG MEDIA CORPORATION	1.4%
Top 5 Holdings	10.0%
Top 3 Holdings	10.070

¹ Universe data is gross-of-fees.

Performance (net)¹

	Ending Market Value (mm)		QTD	1 Year	3 Year	5 Year			
Brigade Cap Mgmt	469.0		1.9%	8.3%	4.3%	2.6%			
Brigade Custom Benchmark				0.5%	10.3%	1.8%	2.8%		
Credit Policy Benchmark				3.0%	10.2%	2.3%			
Universe data: US Fixed Income Funds	QT	D I	Rank	1 Year	Rank	3 Year	Rank	5 Year	Rar
Brigade Cap Mgmt	2.0	%	15	8.7%	19	4.7%	22	3.2%	23
Median	-0.9	%		2.7%		-1.5%		1.2%	
No. of Observations	75	8							

Growth of \$10,000



Top Exposures (% of assets)²



1,72

² Charts display top exposures and may not add up to 100%.

Credit Risk Analysis – Liquid Credit Brigade Capital

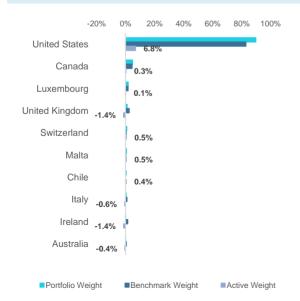


for the quarter ended September 30, 2023

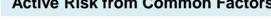
Portfolio Risk Summary



Top 10 Countries by Weight

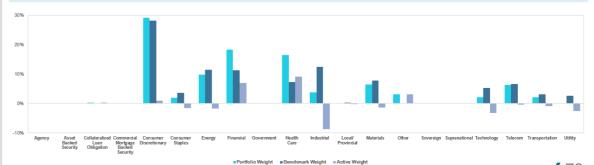








Portfolio Allocation by Bond Sector



Credit – Liquid Credit Credit Suisse

L//.CERA
Los Angeles County Employees Retirement Association

for the quarter ended September 30, 2023

Strategy

A bank loan strategy that invests in senior floating rate loans whose primary performance objective is to generate alpha while mitigating loss, utilizing bottom-up, fundamental credit analysis emphasizing a relative value approach.

Inception Date: April 2020

Portfolio Characteristics

	Portfolio	Benchmark
No. of Issues	371.0	0.0
Effective Duration	0.2	3.6
Convexity	0.0	0.0
Coupon Rate	9.2	6.0
Yield to Maturity	10.2	8.7
Current Yield	9.6	6.7
Rating – Moody's	B-2	B-1
Rating – S & P	В	B+

Top Holdings (% of assets)

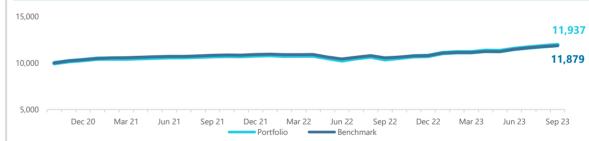
CERIDIAN HCM HLDG INC	1.7%
DYNACAST INTERNATIONAL LLC	1.1%
WILLIAM MORRIS ENDEAVOR ENTMT	1.0%
GLASS CONTAINER ACQUISITION L	0.9%
WRENCH GROUP LLC	0.8%
Top 5 Holdings	5.5%

¹ Universe data is gross-of-fees.

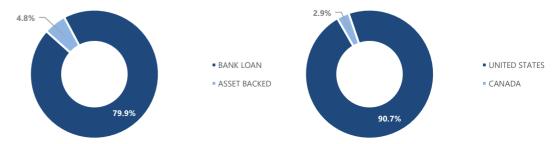
Performance (net)¹

	Ending Market Val	QTD	1 Year	3 Year	5 Year			
Credit Suisse Bank Loans	434.1		3.6%	14.6%	6.1%			
CS Leveraged Loan Index			3.4%	12.5%	5.9%			
Credit Policy Benchmark			3.0%	10.2%	2.3%			
Universe data: US Fixed Income Funds	QTD	Rank	1 Year	Rank	3 Year	Rank	5 Year	Ranl
Credit Suisse Bank Loans	3.6%	10	14.9%	9	6.3%	20		
Median	-0.9%		2.7%		-1.5%			
No. of Observations	758							

Growth of \$10,000



Top Exposures (% of assets)²



1.74

² Charts display top exposures and may not add up to 100%.

Credit Risk Analysis – Liquid Credit Credit Suisse

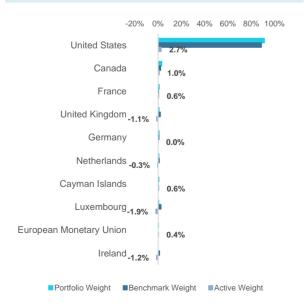


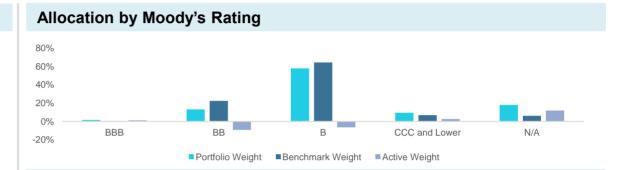
for the quarter ended September 30, 2023

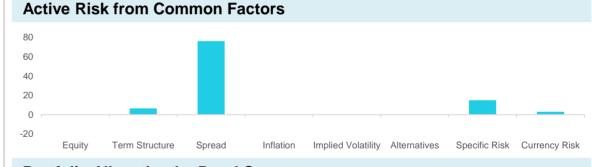
Portfolio Risk Summary

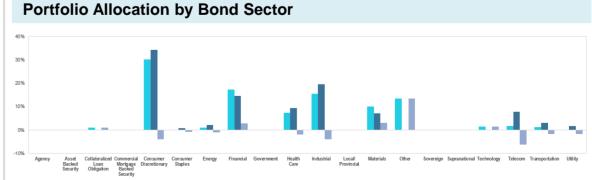


Top 10 Countries by Weight









■ Portfolio Weight ■ Benchmark Weight ■ Active Weight

Credit – Liquid Credit Crescent Capital

for the quarter ended September 30, 2023



Strategy

A bank loan strategy that invests in privately negotiated, below investment grade, secured corporate debt. The primary target is U.S. based middle market companies whose EBITDA falls between \$30M to \$100M. The strategy's bottom-up credit research process emphasizes high current income and principal preservation.

Inception Date: May 2014

Portfolio Characteristics

	Portfolio	Benchmark
No. of Issues	144.0	0.0
Effective Duration	0.2	3.6
Convexity	0.0	0.0
Coupon Rate	10.1	6.0
Yield to Maturity	11.2	8.7
Current Yield	10.8	6.7
Rating – Moody's	B-3	B-1
Rating – S & P	B-	B+

Top Holdings (% of assets)

MAGNATE WORLDWIDE LLC	1.9%
ARCLINE FM HOLDINGS, LLC	1.9%
CTC HOLDINGS LP	1.8%
AIT WORLDWIDE LOGISTICS INC	1.8%
LASERAWAY INTERM HOLD II LLC	1.8%
Top 5 Holdings	9.3%

¹ Universe data is gross-of-fees.

Performance (net)¹

Median		-0.9%		2.7%		-1.5%		1.2%	.5
Crescent Capital		3.7%	9	11.7%	13	6.0%	20	5.3%	15
Universe data: U.S. Fixed Income Funds		QTD	Rank	1 Year	Rank	3 Year	Rank	5 Year	Rank
Credit Policy Benchmark				3.0%	10.2%	2.3%			
Bank Loans Custom Benchmark				3.4%	12.5%	5.9%	4.8%		
Crescent Capital		476.7		3.6%	11.2%	5.5%	4.8%		
	Endir	Ending Market Value (mm)) QTD	1 Year	3 Year	5 Year		

Growth of \$10,000



Top Exposures (% of assets)²



1,76

² Charts display top exposures and may not add up to 100%.

Credit Risk Analysis – Liquid Credit Crescent Capital



for the quarter ended September 30, 2023

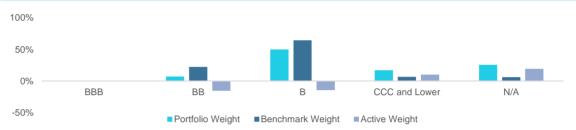
Portfolio Risk Summary



Top 10 Countries by Weight



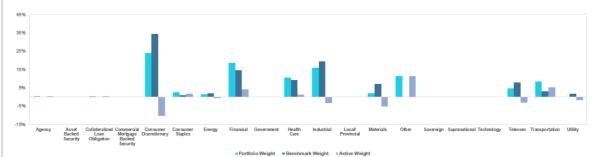




Active Risk from Common Factors



Portfolio Allocation by Bond Sector



Credit – Liquid Credit Pinebridge

Los Angeles County Employees Retirement Association

for the quarter ended September 30, 2023

Strategy

Active manager of a broadly diversified portfolio primarily of U.S. dollar denominated high yield securities.

Inception Date: August 2021

Portfolio Characteristics

	Portfolio	Benchmark
No. of Issues	237.0	0.0
Effective Duration	3.7	3.6
Convexity	0.0	0.0
Coupon Rate	5.9	6.0
Yield to Maturity	8.6	8.7
Current Yield	6.6	6.7
Rating – Moody's	B-1	B-1
Rating – S & P	B+	B+

Top Holdings (% of assets)

CARNIVAL CORP	1.2%
AMERICAN AIRLINES INC	1.1%
CCO HLDGS LLC/CAP CORP	0.8%
SIRIUS XM RADIO INC	0.8%
ENACT HOLDINGS INC	0.8%
Top 5 Holdings	4.8%

¹ Universe data is gross-of-fees.



2.7%

-0.9%

758

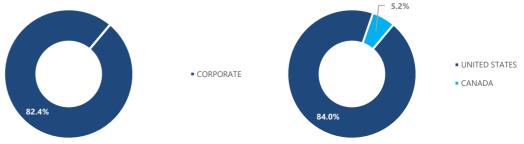
Growth of \$10,000

Median

No of Observations



Top Exposures (% of assets)



^{1.78}

² Charts display top exposures and may not add up to 100%.

Credit Risk Analysis – Liquid Credit Pinebridge



CCC and Lower

Active Weight

N/A

for the quarter ended September 30, 2023

Portfolio Risk Summary



Top 10 Countries by Weight





■Benchmark Weight

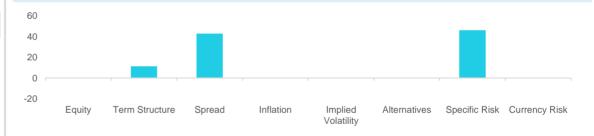


BB

■ Portfolio Weight

BBB

-20%



Portfolio Allocation by Bond Sector



1.79

real assets & inflation hedges

Summary

for the quarter ended September 30, 2023

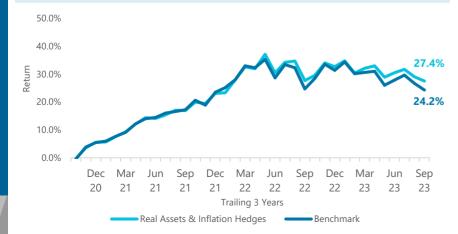


Performance (net) 10.0% 5.0% 0.0% -5.0% -10.0% QTD **FYTD** 1 Year 3 Year 5 Year 10 Year ITD ■ Real Assets & Inflation Hedges Benchmark 10 Year ITD QTD **FYTD** YTD 1 Year 3 Year 5 Year Real Assets & Inflation Hedges -2.3% -2.3% -3.9% -0.1% 8.4% 5.0% -2.8% Benchmark -2.8% -5.4% -0.3% 7.5% 5.3% 0.5% 0.5% 1.5% 0.2% 0.9% -0.3% Excess

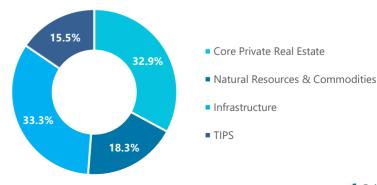
Functional Category

	QTD	FYTD	YTD	1 Year	3 Year
Core Private Real Estate	-4.0%	-4.0%	-11.7%	-10.2%	7.4%
Core Private RE Policy Benchmark	-2.9%	-2.9%	-11.0%	-10.7%	7.2%
Excess	-1.2%	-1.2%	-0.7%	0.5%	0.2%
Natural Resources & Commodities	3.4%	3.4%	3.8%	8.4%	19.7%
Nat Res & Comm Policy Benchmark	3.9%	3.9%	-1.1%	10.8%	18.1%
Excess	-0.5%	-0.5%	4.9%	-2.4%	1.6%
Infrastructure	-3.5%	-3.5%	-1.0%	6.1%	7.3%
DJ Brookfield Global Infra Comp	-6.9%	-6.9%	-4.5%	4.5%	5.8%
Excess	3.4%	3.4%	3.5%	1.6%	1.5%
TIPS	-2.6%	-2.6%	-0.8%	1.3%	-2.0%
Bloomberg U.S. Treasury: U.S. TIPS	-2.6%	-2.6%	-0.8%	1.2%	-2.0%
Excess	0.0%	0.0%	0.0%	0.1%	-0.1%

Cumulative Return



Exposure

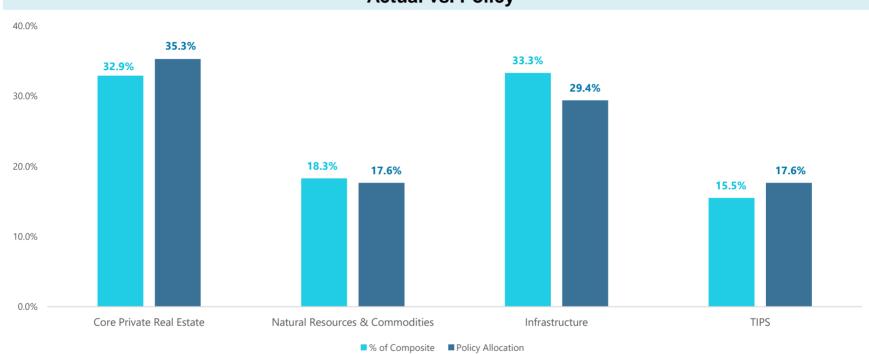


Asset Allocation

for the quarter ended September 30, 2023



Actual vs. Policy

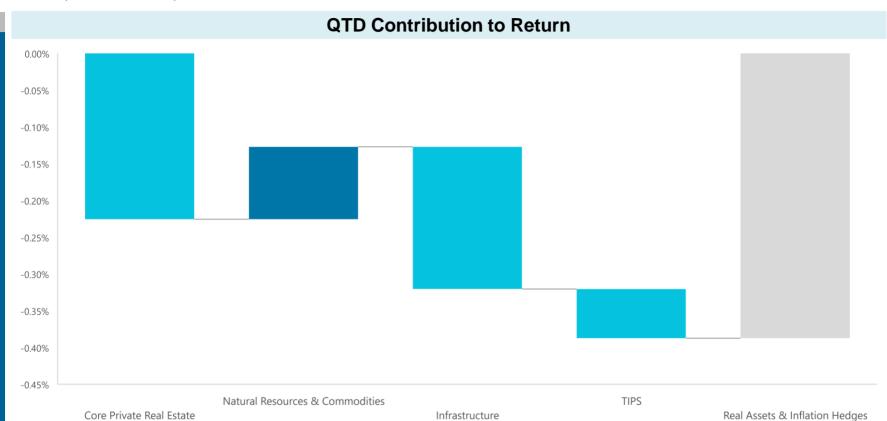


	Ending Market Value	% of Composite	Policy Allocation	Over / Under	Over / Under
Real Assets & Inflation Hedges	11,912	100.0%	100.0%		
Core Private Real Estate	3,920	32.9%	35.3%	-2.4%	-284
Natural Resources & Commodities	2,179	18.3%	17.6%	0.6%	77
Infrastructure	3,966	33.3%	29.4%	3.9%	463
TIPS	1,847	15.5%	17.6%	-2.1%	-255

Contribution to Return



for the quarter ended September 30, 2023



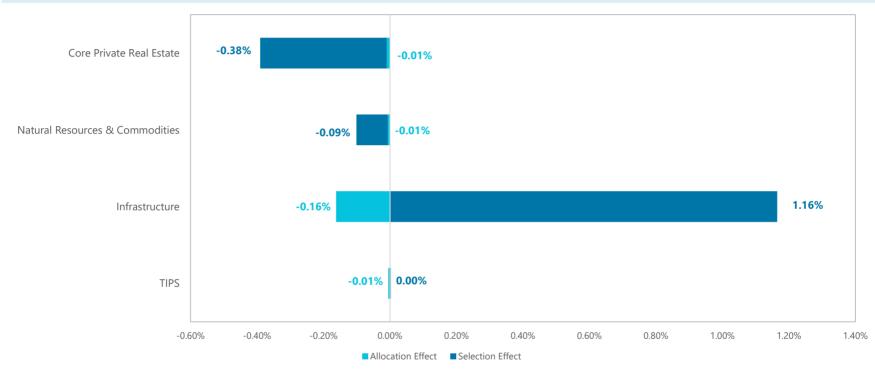
Functional Category		Contributors		Detractors	
Core Private Real Estate	-0.23%	DWS Natural Resources	0.02%	Real Estate - Real Assets	-0.23%
Natural Resources & Commodities	0.10%	Orion Mine Finance Fund III	0.02%	DWS Infrastructure	-0.21%
Infrastructure	-0.19%	Credit Suisse Commodity	0.02%	BlackRock TIPS	-0.07%
TIPS	-0.07%	KKR DCIF	0.01%		
Real Assets & Inflation Hedges	-0.39%	TIAA-CREF Global Agriculture I	0.01%		

Return Attribution

for the quarter ended September 30, 2023



QTD Performance Attribution¹



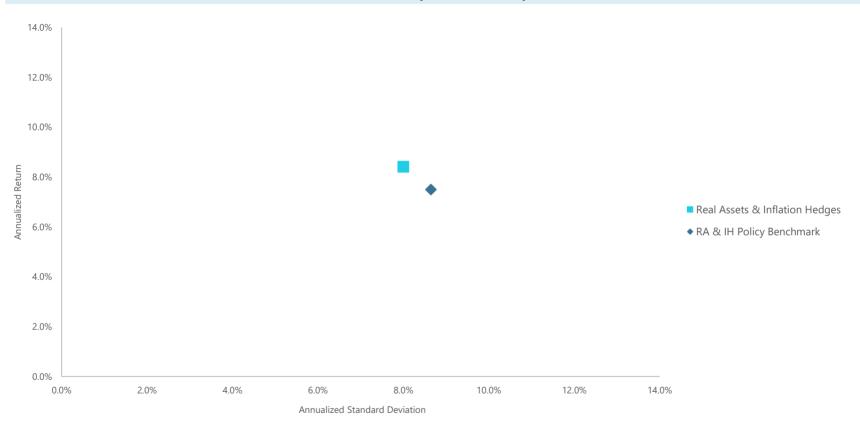
	Ending Market Value	% of Composite	Policy Allocation	Portfolio Return	Benchmark Return	Allocation Effect	Selection Effect	Total Value Add
Real Assets & Inflation Hedges	11,912	100.0%	100.0%	-2.3%	-2.8%	-0.18%	0.69%	0.51%
Core Private Real Estate	3,920	32.9%	35.3%	-4.0%	-2.9%	-0.01%	-0.38%	-0.39%
Natural Resources & Commodities	2,179	18.3%	17.6%	3.4%	3.9%	-0.01%	-0.09%	-0.10%
Infrastructure	3,966	33.3%	29.4%	-3.5%	-6.9%	-0.16%	1.16%	1.00%
TIPS	1,847	15.5%	17.6%	-2.6%	-2.6%	-0.01%	0.00%	0.00%

Risk vs. Return

for the quarter ended September 30, 2023



3 Year (Annualized)



	Annualized Return	Standard Deviation	Sharpe Ratio	Information Ratio	Beta	Tracking Error
Real Assets & Inflation Hedges	8.4%	8.0%				
RA & IH Policy Benchmark	7.5%	8.6%	0.84	0.32	0.89	2.5%

Performance Detail

L//.CERA

for the quarter ended September 30, 2023

Los Angeles County Employees Retirement Association

Annualized Net Returns¹

		Fadina.	Dui - u Ou - ut - u		1	1						
	0, 6	Ending	Prior Quarter									
	% of Composite	Market Value (mm)	Ending MV (mm)	OTD	FYTD	YTD	1 Year	3 Year	5 Year	10 Year	ITD	Inception Date
Real Assets & Inflation Hedges	100.0%	11,912	12,050	-2.3%	-2.3%	-3.9%	-0.1%	8.4%	5 fear	10 fear	5.0%	Apr-2019
RA & IH Policy Benchmark	100.078	11,512	12,030	-2.8%	-2.8%	-5.4%	-0.1%	7.5%			5.3%	Apr-2015
Total in Folicy Benefithank				2.070	2.070	3.470	0.570	7.570			3.570	
Core Private Real Estate	32.9%	3,920	4,071	-4.0%	-4.0%	-11.7%	-10.2%	7.4%	4.9%	7.0%	6.9%	Oct-1985
Core Private RE Policy Benchmark				-2.9%	-2.9%	-11.0%	-10.7%	7.2%	5.9%	8.2%	6.7%	
Natural Resources & Commodities	18.3%	2,179	2,110	3.4%	3.4%	3.8%	8.4%	19.7%	7.2%	0.5%	-0.6%	Jul-2007
Nat Res & Comm Policy Benchmark				3.9%	3.9%	-1.1%	10.8%	18.1%	7.1%	-0.3%	-1.7%	
Appian Fund III	0.0%	2	4	-40.9%	-40.9%						-40.6%	Jun-2023
Cibus Enterprise II	0.0%	4	5	-0.9%	-0.9%	2.2%	-2.8%				-7.3%	Jun-2022
Cibus Fund II	0.2%	29	29	-0.9%	-0.9%	-5.1%	-10.9%				-12.9%	Jun-2022
Co-Investments - Natural Resources	0.2%	24	24	-0.4%	-0.4%	-0.5%					-0.5%	Oct-2022
Credit Suisse Commodity	2.5%	298	286	4.0%	4.0%	-4.7%	-3.3%	16.2%	6.5%	-0.3%	-2.3%	Mar-2011
DWS Natural Resources	4.1%	485	478	3.0%	3.0%	-3.3%	9.4%	17.9%			10.1%	Jun-2019
HiTecVision New Energy	0.8%	99	95	3.6%	3.6%	26.1%	43.3%				34.8%	Sep-2022
Neuberger Berman/Gresham	3.0%	356	338	5.3%	5.3%	-2.8%	-1.6%	16.8%	5.6%	-0.3%	-0.8%	Jul-2007
Orion Mine Finance Fund III	1.3%	150	133	10.6%	10.6%	27.0%	29.9%				17.1%	Sep-2021
Orion Mining Royalty Fund I	0.2%	28	23	5.8%	5.8%	2.9%	-5.0%				0.7%	Sep-2021
Private Equity - Real Assets	0.7%	81	82	-0.7%	-0.7%	0.9%	2.7%	6.9%			-7.2%	Jan-2019
Sprott	0.4%	44	45	1.0%	1.0%						-0.6%	Mar-2023
TIAA-CREF Global Agriculture I	2.5%	302	295	2.4%	2.4%	18.7%	17.6%				18.0%	Dec-2021
TIAA-CREF Global Agriculture II	2.3%	277	272	1.8%	1.8%	11.6%	11.9%				12.4%	Dec-2021
3												
Infrastructure	33.3%	3,966	3,974	-3.5%	-3.5%	-1.0%	6.1%	7.3%			5.7%	Jun-2019
DJ Brookfield Global Infra Comp				-6.9%	-6.9%	-4.5%	4.5%	5.8%			1.8%	
Antin Mid Cap	0.4%	49	50	-2.2%	-2.2%	3.2%	16.2%				-4.3%	Dec-2021
Axium Infrastructure	2.2%	268	263	1.8%	1.8%	5.8%	7.8%				4.5%	Dec-2021
Axium Infrastructure Canada	1.3%	150	150	0.6%	0.6%	5.2%	6.7%				-100.0%	Nov-2021
Co-Investments - Infrastructure	0.3%	35	35	1.4%	1.4%						2.4%	Mar-2023
DIF CIF III	0.4%	46	44	1.2%	1.2%	-2.4%	-0.2%				1.4%	Jun-2022
DIF Infrastructure VI	1.0%	123	119	0.0%	0.0%	-0.1%	14.2%				15.8%	Mar-2021
DWS Infrastructure	17.4%	2,076	2,525	-6.9%	-6.9%	-5.5%	2.4%	5.3%			4.4%	Jun-2019
Grain Communications Opportunity III	0.3%	41	44	-7.6%	-7.6%	-3.5%	-2.2%				-100.0%	Feb-2021
Grain Spectrum Holdings III	0.6%	71	66	-0.1%	-0.1%	38.3%	38.2%				11.0%	Nov-2020
KKR DCIF	4.3%	515	509	2.1%	2.1%	4.7%	5.9%				4.4%	Apr-2022
MGIF	3.5%	414	0								0.0%	Aug-2023
Pan-European Infrastructure Fund III	0.6%	75	76	-0.5%	-0.5%	6.1%	15.4%				4.4%	Nov-2020
Partners Grp Direct Infra 2020	0.9%	104	92	2.9%	2.9%	13.5%	19.4%				11.0%	Jan-2022
TIPS	15.5%	1,847	1,896	-2.6%	-2.6%	-0.8%	1.3%	-2.0%			1.6%	May-2019
Bloomberg U.S. Treasury: U.S. TIPS				-2.6%	-2.6%	-0.8%	1.2%	-2.0%			1.7%	
Blackrock TIPS	15.5%	1,847	1,896	-2.6%	-2.6%	-0.8%	1.3%	-2.0%			1.6%	May-2019

¹ Private natural resources and infrastructure funds reflect early-stage life cycle performance.

Real Assets & Inflation Hedges Risk Summary



for the quarter ended September 30, 2023

Realized (Ex-Post) Risks

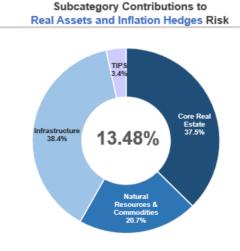


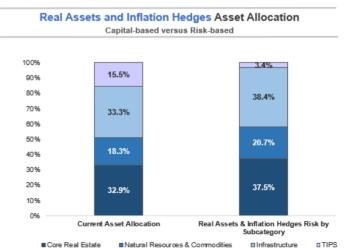




Projected (Ex-Ante) Risks







*as of 9/30/23

Real Assets & Inflation Hedges Risk Summary



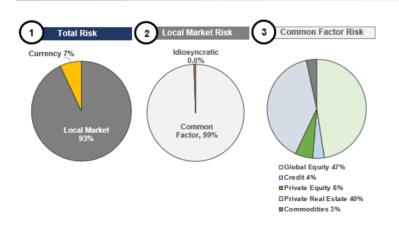
for the quarter ended September 30, 2023

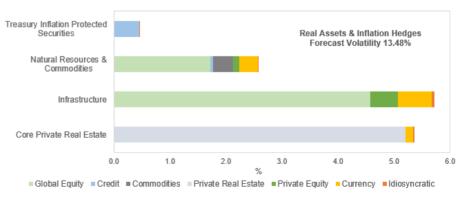
Decomposition of MSCI Risk Factors



Real Assets & Inflation Hedges Risk Decomposition

Subcategory Contributions by Risk Factor





Real Assets & Inflation Hedges Risk Summary

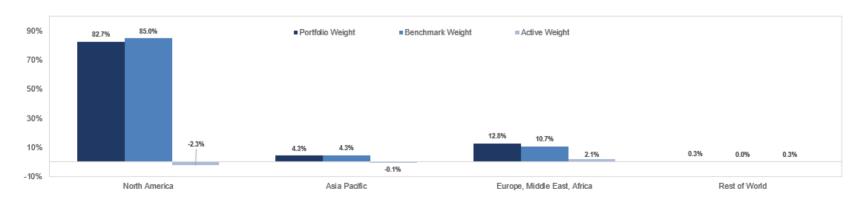


for the quarter ended September 30, 2023

Subcategory Contributions to Tracking Error



Portfolio Allocation by Region^{1,2}



² Rest of World is sum of countries with weights below 0.5%.

Real Assets & Inflation Hedges

Natural Resources & Commodities

Credit Suisse

for the quarter ended September 30, 2023

Strategy

Seeks to provide a hedge against inflation and exposure to commodities markets such as energy, agriculture and timber, and metals and mining.

Inception Date: March 2011

Risk Statistics (since inception)

Standard Deviation	15.4%
Benchmark Standard Deviation	15.8%
Sharpe Ratio	0.29
Information Ratio	0.36
Beta	0.98
Tracking Error	1.0%

Top Holdings (% of assets)

LIC TOE A CLIDY FOAL	17.00/
US TREASURY FRN	17.0%
US TREASURY FRN	13.9%
GOLD 100 OZ FUTR FEB24	12.3%
US TREASURY FRN	10.9%
BRENT CRUDE FUTR JAN24	8.5%
Top 5 Holdings	62.5%

¹ Universe data is gross-of-fees.

L///CERA Los Angeles County Employees Retirement Association

Performance (net)¹

	Ending Mar	Ending Market Value (mm)			1 Ye	ear 3	Year	5 Year		
Credit Suisse Commodity	297.7			4.0%	-3.3	% 10	6.2%	6.5%		
Bloomberg Commodity Index Total Return				4.7% -1.3%		% 10	6.2%	6.1%		
Real Assets & Inflation Hedges Policy BM				-2.8%	6 -0.3	% 7	'.5%			
Universe data: Commodity Funds	QTD	Rank	1 Y	ear	Rank	3 Y	ear	Rank	5 Year	Rank
Credit Suisse Commodity	4.1%	38	-3.	1%	86	16.	5%	36	6.8%	64
Median	0.8%		2.7	7%		14.	3%		7.7%	

11

Growth of \$10,000

No. of Observations



Top Exposures (% of assets)²



1,90

² Charts display top exposures and may not add up to 100%.

Real Assets & Inflation Hedges Risk Analysis Natural Resources & Commodities



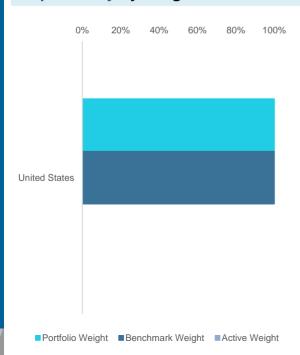
Credit Suisse

for the quarter ended September 30, 2023

Portfolio Risk Summary



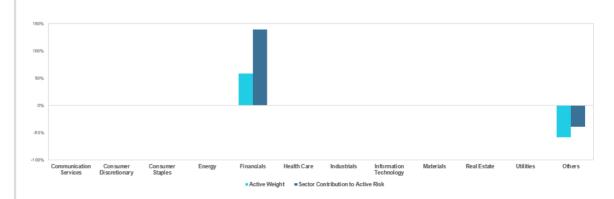
Top Country by Weight



Top 10 Assets by Contribution to Portfolio Active Risk

Asset	Portfolio Weight	Benchmark Weight	Active Weight	Contribution to Portfolio Active Risk
NYMEX CRUDE OIL NOV23	0.00%	0.00%	0.00%	4.74%
ICE BRENT CRUDE DEC23	0.00%	0.00%	0.00%	3.05%
PROXY ISSUER 0.3651441% 20240131	16.68%	0.00%	16.68%	2.31%
PROXY ISSUER 1.66624463% 20240430	13.67%	0.00%	13.67%	1.89%
PROXY ISSUER 4.99353962% 20240731	10.68%	0.00%	10.68%	1.47%
UNITED STATES TREASURY 5.52779 07/31/2025	8.10%	0.00%	8.10%	1.12%
UNITED STATES TREASURY 5.60279 01/31/2025	6.69%	0.00%	6.69%	0.92%
UNITED STATES TREASURY 5.57179 04/30/2025	6.04%	0.00%	6.04%	0.83%
PROXY ISSUER 8.02810857% 20241031	5.68%	0.00%	5.68%	0.78%
NYMEX HEATING OIL NOV23	0.00%	0.00%	0.00%	0.75%

Portfolio Allocation by GICS Sector



Real Assets & Inflation Hedges Natural Resources & Commodities DWS



for the quarter ended September 30, 2023

Strategy

Seeks to provide capital appreciation and a hedge to inflation. A diversified approach within infrastructure to gain exposure to infrastructure related to telecommunication, transportation, utilities, waste and energy.

Inception Date: June 2019

Risk Statistics (since inception)

Standard Deviation	24.0%
Benchmark Standard Deviation	24.0%
Sharpe Ratio	0.45
Information Ratio	-0.23
Beta	0.98
Tracking Error	4.2%

Top Holdings (% of assets)

CHEVRON CORP	7.8%
BP PLC	7.0%
TOTALENERGIES SE	6.8%
RIO TINTO LTD	6.0%
AGNICO EAGLE MINES LTD	5.1%
Top 5 Holdings	32.8%

¹ Universe data is gross-of-fees.

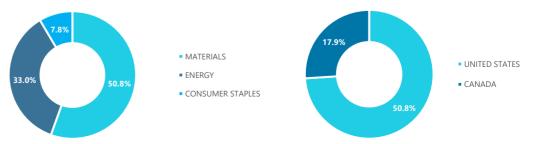
Performance (net)¹

	Ending Marke	Ending Market Value (mm)		1 Year	3 Year	5 Year		
DWS Natural Resources	48	484.7		9.4%	17.9%			
DWS NR Custom Benchmark				17.0%	18.6%			
Real Assets & Inflation Hedges Policy BM			-2.8%	-0.3%	7.5%			
Universe data: Commodity Funds	QTD	Rank	1 Year	Rank	3 Year	Rank	5 Year	Rank
DWS Natural Resources	3.1%	41	9.6%	32	18.1%	29		
Median	0.8%		2.7%		14.3%			
No. of Observations	11							

Growth of \$10,000



Top Exposures (% of assets)²



1,92

² Charts display top exposures and may not add up to 100%.

Real Assets & Inflation Hedges Risk Analysis Natural Resources & Commodities DWS

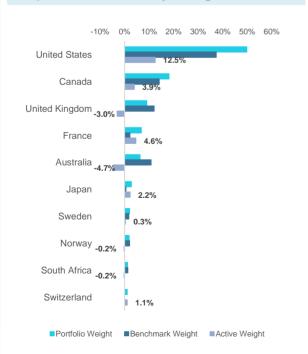


for the guarter ended September 30, 2023

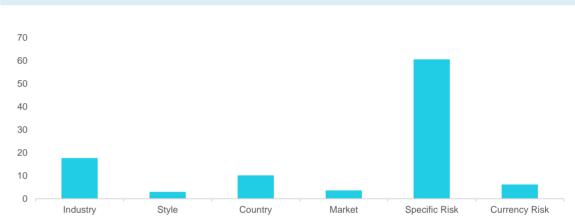
Portfolio Risk Summary



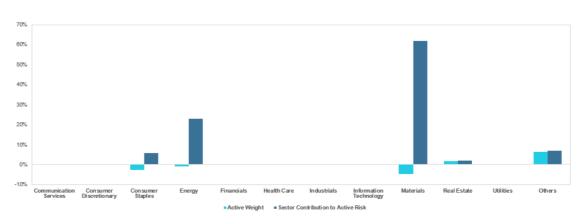
Top 10 Countries by Weight



Portfolio Active Risk from Common Factors



Portfolio Allocation by GICS Sector



Real Assets & Inflation Hedges Natural Resources & Commodities

Los Angeles County Employees Retirement Association

Neuberger Berman / Gresham

for the quarter ended September 30, 2023

Strategy

Seeks to provide a hedge against inflation and exposure to commodities markets such as energy, agriculture and timber, and metals and mining. The collateral portfolio provides income with conservative fixed income exposure.

Inception Date: July 2007

Risk Statistics (since inception)

Standard Deviation	18.2%
Benchmark Standard Deviation	16.8%
Sharpe Ratio	0.13
Information Ratio	0.48
Beta	1.04
Tracking Error	4.8%

Top Holdings (% of assets)

GOLD 100 OZ FUTR DEC23	12.4%
TREASURY BILL	8.3%
NATURAL GAS FUTR NOV23	7.0%
BRENT CRUDE FUTR JAN24	6.5%
WTI CRUDE FUTURE NOV23	5.2%
Top 5 Holdings	39.3%

¹ Universe data is gross-of-fees.

Performance (net)¹ Ending Market Value (mm) QTD 1 Year 3 Year 5 Year Neuberger Berman/Greshman 355.9 5.3% -1.6% 16.8% 5.6% Bloomberg Commodity Index Total Return 4.7% -1.3% 16.2% 6.1% Real Assets & Inflation Hedges Policy BM -2.8% -0.3% 7.5% Universe data: Commodity Funds OTD Rank 1 Year Rank 3 Year Rank 5 Year Rank Neuberger Berman/Greshman -1.3% 17.2% 33 6.0% 5.4% 29 80 71 Median 0.8% 2.7% 14.3% 7.7%



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Top Exposures (% of assets)²

No of Observations



1,94

² Charts display top exposures and may not add up to 100%.

Real Assets & Inflation Hedges Risk Analysis Natural Resources & Commodities



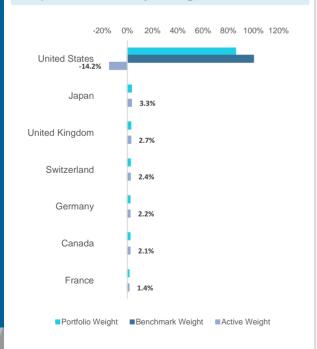
Neuberger Berman / Gresham

for the quarter ended September 30, 2023

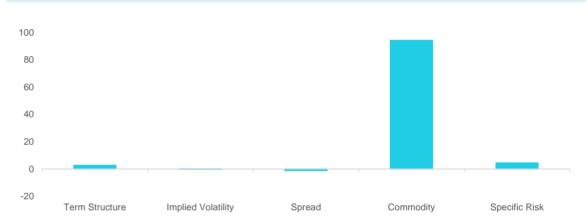
Portfolio Risk Summary

PORTFOLIO Forecast Volatility 14.1%	BENCHMARK Forecast Volatility
PORTFOLIO Forecast Tracking Error	PORTFOLIO Beta 0.82

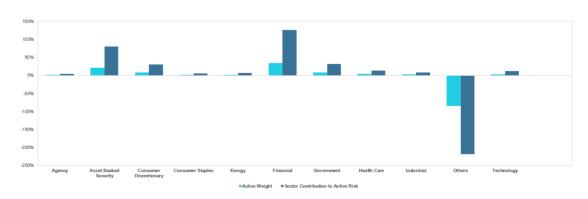
Top Countries by Weight



Portfolio Active Risk from Common Factors



Portfolio Allocation by GICS Sector



Real Assets & Inflation Hedges

Infrastructure

DWS

for the quarter ended September 30, 2023

Los Angeles County Employees Retirement Association

Strategy

Seeks to provide capital appreciation and income with global infrastructure securities. The strategy takes a diversified approach within infrastructure to gain exposure to infrastructure related to telecommunication, transportation, utilities, waste and energy.

Inception Date: June 2019

Portfolio Characteristics

	Portfolio	Benchmark
Market Cap Wtd Average (mm)	35,380.0	33,719.7
No. Of Issues	47.0	0.0
Dividend Yield	3.3	3.8
Return on Equity	12.3	11.2
Price to Sales	3.1	3.4
Price to Book	3.3	3.4
PE Ratio	18.3	17.4

Top Holdings (% of assets)

ENBRIDGE INC	5.0%
NATIONAL GRID PLC	4.8%
AMERICAN TOWER CORP	4.6%
VINCI SA	4.3%
ONEOK INC	4.0%
Top 5 Holdings	22.7%

¹ Peer rankings not shown; comparable public market infrastructure universe not available.

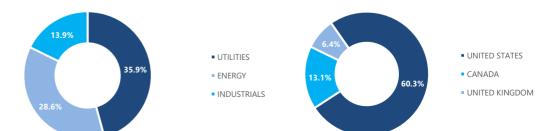
Performance (net)¹

	Ending Market Value (mm)	QTD	1 Year	3 Year	5 Year
DWS Infrastructure	2,076.2	-6.9%	2.4%	5.3%	
DJ Brookfield Global Infra Comp		-6.9%	4.5%	5.8%	
Real Assets & Inflation Hedges Policy BM		-2.8%	-0.3%	7.5%	

Growth of \$10,000



Top Exposures (% of assets)²





² Charts display top exposures and may not add up to 100%.

Real Assets & Inflation Hedges Risk Analysis Infrastructure



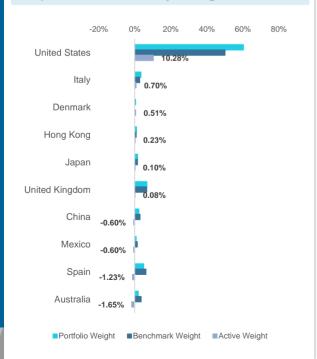
DWS

for the quarter ended September 30, 2023

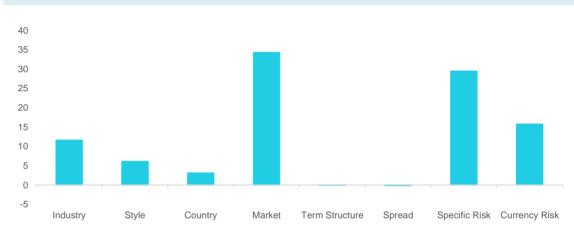
Portfolio Risk Summary



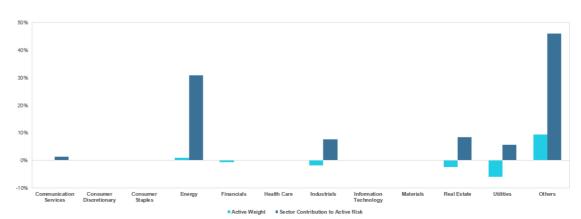
Top 10 Countries by Weight



Portfolio Active Risk from Common Factors



Portfolio Allocation by GICS Sector



Real Assets & Inflation Hedges TIPS

Los Angeles County Employees Retirement Association

BlackRock

for the quarter ended September 30, 2023

Strategy

Seeks to provide income and a hedge against inflation with passive TIPS exposure.

Inception Date: May 2019

Risk Statistics (since inception)

Standard Deviation	6.3%
Benchmark Standard Deviation	6.3%
Sharpe Ratio	0.03
Information Ratio	-0.07
Beta	0.99
Tracking Error	0.8%

Top Holdings (% of assets)

TSY INFL IX N/B	4.5%
TSY INFL IX N/B	4.0%
TSY INFL IX N/B	3.7%
TSY INFL IX N/B	3.5%
TSY INFL IX N/B	3.5%
Top 5 Holdings	19.1%

¹ Peer rankings not shown; comparable TIPS universe not available.

Performance (net)¹

	Ending Market Value (mm)	QTD	1 Year	3 Year	5 Year
BlackRock TIPS	1,846.9	-2.6%	1.3%	-2.0%	
Bloomberg U.S. Treasury: U.S. TIPS		-2.6%	1.2%	-2.0%	
Real Assets & Inflation Hedges Policy BM		-2.8%	-0.3%	7.5%	

Growth of \$10,000



Top Exposures (% of assets)²





² Charts display top exposures and may not add up to 100%.

Real Assets & Inflation Hedges Risk Analysis



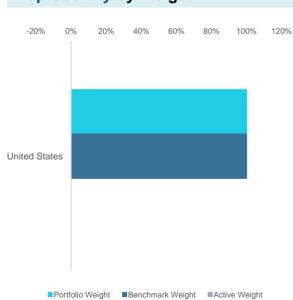
BlackRock

for the quarter ended September 30, 2023

Portfolio Risk Summary



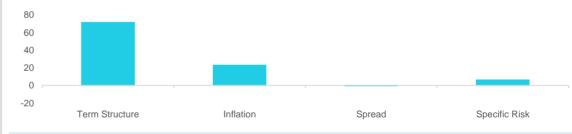
Top Country by Weight



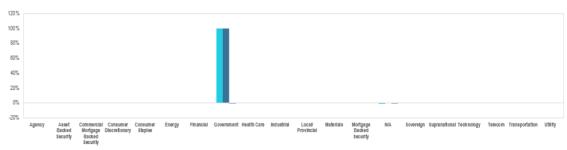




Active Risk from Common Factors



Portfolio Allocation by Bond Sector





risk reduction & mitigation

Summary

for the quarter ended September 30, 2023



Performance (net)



	QTD	FYTD	YTD	1 Year	3 Year	5 Year	10 Year	ITD
Risk Reduction & Mitigation	-3.2%	-3.2%	-0.8%	0.3%	-3.3%			0.3%
Benchmark	-3.7%	-3.7%	-0.7%	0.3%	-4.0%			-0.3%
Excess	0.4%	0.4%	-0.1%	0.0%	0.7%			0.7%

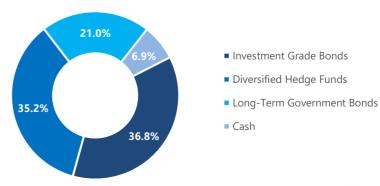
Cumulative Return



Functional Category

	QTD	FYTD	YTD	1 Year	3 Year
Investment Grade Bonds	-3.2%	-3.2%	-0.9%	0.9%	-5.1%
BBG BC Aggregate Bond Index	-3.2%	-3.2%	-1.2%	0.6%	-5.2%
Excess	0.0%	0.0%	0.3%	0.3%	0.1%
Diversified Hedge Funds	1.5%	1.5%	3.4%	4.9%	7.0%
Diversified Hedge Funds Policy Benchmark	2.0%	2.0%	5.6%	7.0%	4.2%
Excess	-0.4%	-0.4%	-2.2%	-2.2%	2.8%
Long-Term Government Bonds	-11.9%	-11.9%	-8.7%	-9.2%	
Bloomberg U.S. Treasury: Long	-11.8%	-11.8%	-8.6%	-9.1%	
Excess	-0.1%	-0.1%	-0.1%	-0.2%	
Cash	0.6%	0.6%	3.8%	5.1%	2.7%
Cash Policy Benchmark	1.4%	1.4%	3.8%	4.7%	1.8%
Excess	-0.8%	-0.8%	0.0%	0.4%	0.9%

Exposure

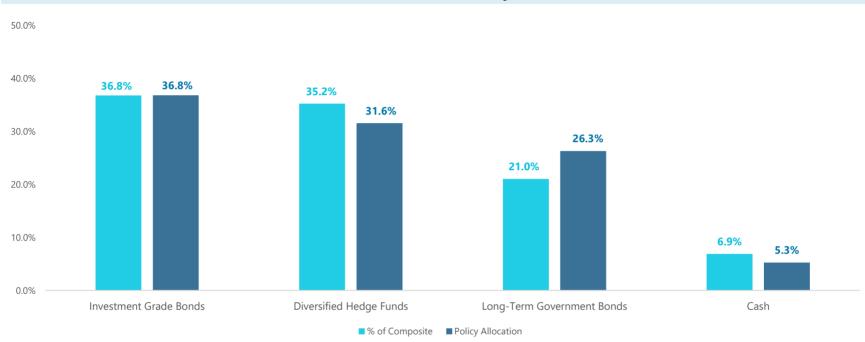


Asset Allocation

for the quarter ended September 30, 2023



Actual vs. Policy



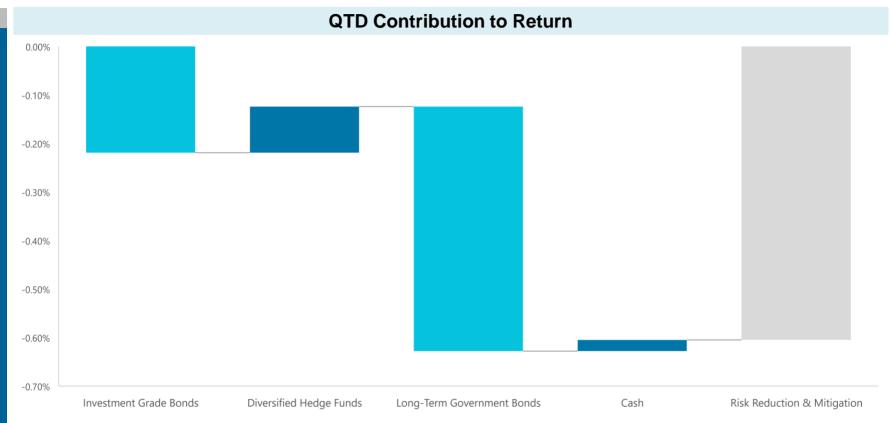
	Ending Market Value (mm)	% of Composite	Policy Allocation	Over / Under	Over / Under
Risk Reduction & Mitigation	13,268	100.0%	100.0%		
Investment Grade Bonds	4,883	36.8%	36.8%	-0.7%	-90
Diversified Hedge Funds	4,677	35.2%	31.6%	3.1%	406
Long-Term Government Bonds	2,792	21.0%	26.3%	-5.6%	-749
Cash	916	6.9%	5.3%	1.5%	203

Contribution to Return



for the quarter ended September 30, 2023





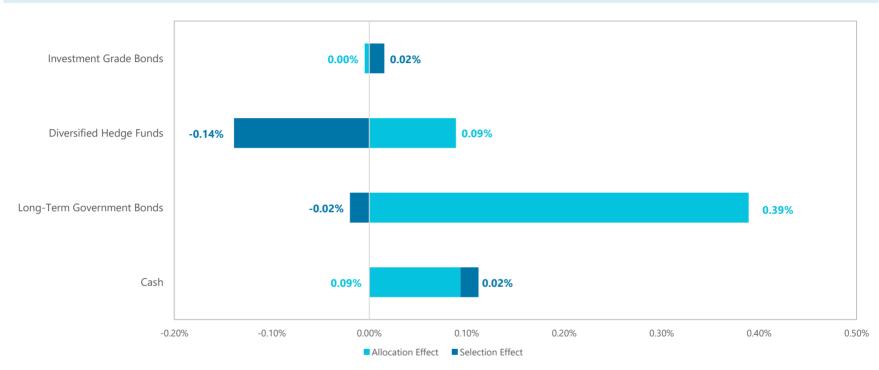
Functional Category	C	Contributors		Detractors	
Investment Grade Bonds	-0.22% C	Capula GRV	0.03%	BlackRock Long Treasury Bonds	-0.50%
Diversified Hedge Funds	0.10% F	HBK Multi-strategy	0.02%	BTC US Debt Index Fund	-0.13%
Long-Term Government Bonds	-0.50%			Allspring/Wells	-0.06%
Cash	0.02%			Pugh Capital Mgmt	-0.04%
Risk Reduction & Mitigation	-0.61%			AM Asia Strategies	-0.02%

Return Attribution

for the quarter ended September 30, 2023



QTD Performance Attribution¹



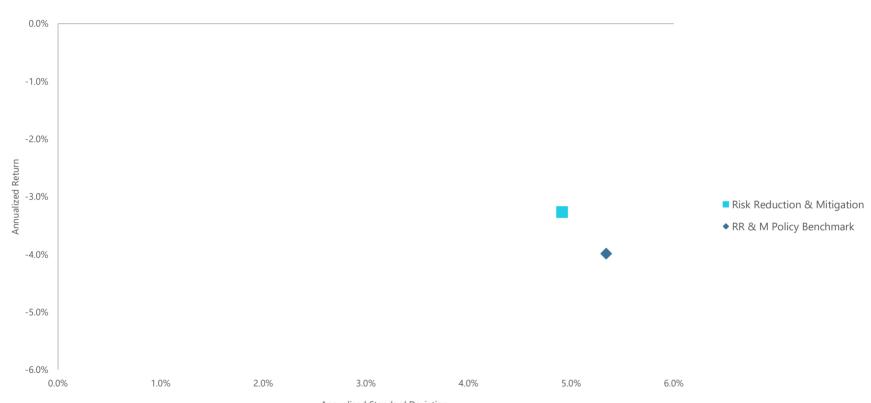
	Ending Market Value	% of Composite	Policy Allocation	Portfolio Return	Benchmark Return	Allocation Effect	Selection Effect	Total Value Add
Risk Reduction & Mitigation	13,268	100.0%	100.0%	-3.2%	-3.7%	0.57%	-0.12%	0.44%
Investment Grade Bonds	4,883	36.8%	36.8%	-3.2%	-3.2%	0.00%	0.02%	0.01%
Diversified Hedge Funds	4,677	35.2%	31.6%	1.5%	2.0%	0.09%	-0.14%	-0.05%
Long-Term Government Bonds	2,792	21.0%	26.3%	-11.9%	-11.8%	0.39%	-0.02%	0.37%
Cash	916	6.9%	5.3%	0.6%	1.4%	0.09%	0.02%	0.11%

Risk vs. Return

for the quarter ended September 30, 2023



3 Year (Annualized)



Annualized Standard Deviation

	Annualized Return	Standard Deviation	Sharpe Ratio	Information Ratio	Beta	Tracking Error
Risk Reduction & Mitigation	-3.3%	4.9%				
RR & M Policy Benchmark	-4.0%	5.3%	(1.00)	0.93	0.91	0.8%

Performance Detail



for the quarter ended September 30, 2023

Los Angeles County Employees Retirement Association

Annualized Net Returns

		Ending	Prior Ouarter									
	% of	Market Value	Ending MV									Inception
	Composite	(mm)	(mm)	OTD	FYTD	YTD	1 Year	3 Year	5 Year	10 Year	ITD	Date
Risk Reduction & Mitigation	100.0%	13,268	13,659	-3.2%	-3.2%	-0.8%	0.3%	-3.3%			0.3%	Apr-2019
RR & M Policy Benchmark	100.070	15,200	13,033	-3.7%	-3.7%	-0.7%	0.3%	-4.0%			-0.3%	Apr 2015
Investment Grade Bonds	36.8%	4,883	5,044	-3.2%	-3.2%	-0.9%	0.9%	-5.1%	0.2%	1.5%	5.0%	Nov-1994
BBG BC Aggregate Bond Index				-3.2%	-3.2%	-1.2%	0.6%	-5.2%	0.1%	1.1%	4.5%	
Allspring/Wells	9.4%	1,243	1,283	-3.1%	-3.1%	-0.7%	1.3%	-4.9%	0.6%	1.5%	3.6%	Mar-2004
BTC US Debt Index Fund	21.1%	2,804	2,897	-3.2%	-3.2%	-1.0%	0.7%	-5.2%	0.2%	1.2%	3.6%	Nov-1999
MHLP	0.1%	9	10	1.2%	1.2%	3.8%	5.0%	5.1%	5.2%	5.6%	5.4%	Apr-2005
Pugh Capital Mgmt	6.2%	827	855	-3.3%	-3.3%	-1.0%	0.9%	-5.1%	0.3%	1.2%	3.0%	Jul-2005
Diversified Hedge Funds	35.2%	4,677	4,570	1.5%	1.5%	3.4%	4.9%	7.0%			6.3%	Apr-2019
Diversified Hedge Funds Policy Benchmark				2.0%	2.0%	5.6%	7.0%	4.2%			4.2%	
AM Asia Strategies	1.7%	230	245	-6.3%	-6.3%	6.0%	3.9%				0.8%	Jun-2021
Brevan Howard Master Fund	4.8%	631	625	1.0%	1.0%	-3.0%	-2.6%				5.2%	Apr-2021
Capula GRV	5.2%	694	676	2.8%	2.8%	8.1%	10.9%	7.3%			7.2%	Dec-2018
Caxton Global Investments	2.1%	283	282	0.5%	0.5%	-4.5%	-3.0%				5.2%	Feb-2021
DK Institutional Partners	3.8%	506	497	1.9%	1.9%	4.1%	4.0%	5.1%	4.9%		4.8%	May-2018
Grosvenor HFOF	0.1%	20	24	-1.3%	-1.3%	-5.5%	-6.1%	1.7%	1.3%	2.1%	2.8%	Nov-2011
HBK Multi-strategy	4.6%	604	586	3.1%	3.1%	4.5%	8.8%	7.1%	6.1%		5.6%	Jun-2018
Hudson Bay	5.2%	684	672	1.9%	1.9%	5.3%	6.8%	9.6%			9.8%	Jul-2020
Polar	3.7%	491	484	1.5%	1.5%	5.2%	6.4%	6.6%			9.6%	May-2020
Stable Asset Management	4.0%	532	480	2.4%	2.4%	3.2%	5.0%				1.3%	Aug-2021
Long-Term Government Bonds	21.0%	2,792	2,962	-11.9%	-11.9%	-8.7%	-9.2%				-20.3%	Nov-2021
Bloomberg U.S. Treasury: Long				-11.8%	-11.8%	-8.6%	-9.1%				-21.0%	Nov-2021
BlackRock Long Treasury Bonds	21.0%	2,792	2,962	-11.9%	-11.9%	-8.7%	-9.2%				-20.3%	Nov-2021
Cash	6.9%	916	1,083	0.6%	0.6%	3.8%	5.1%	2.7%	2.4%	1.6%	1.9%	Jun-2001
Cash Policy Benchmark				1.4%	1.4%	3.8%	4.7%	1.8%	1.7%	1.2%	1.5%	

Risk Reduction & Mitigation Risk Summary



for the quarter ended September 30, 2023

Realized (Ex-Post) Risks

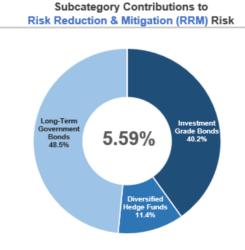


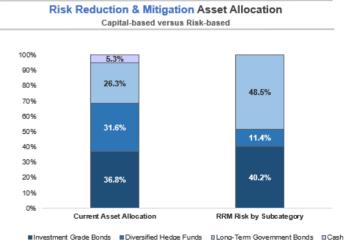




Projected (Ex-Ante) Risks







*as of 9/30/23

Risk Reduction & Mitigation Risk Summary



0.0%

BB

BBB

0.0%

В

0.0%

CCC and

Lower

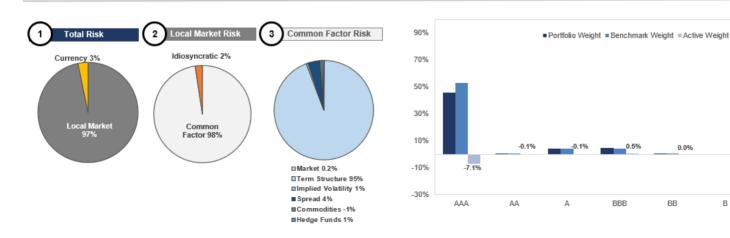
for the quarter ended September 30, 2023

Decomposition of MSCI Risk Factors



Risk Reduction & Mitigation Risk Decomposition

Portfolio Allocation by Moody's Rating



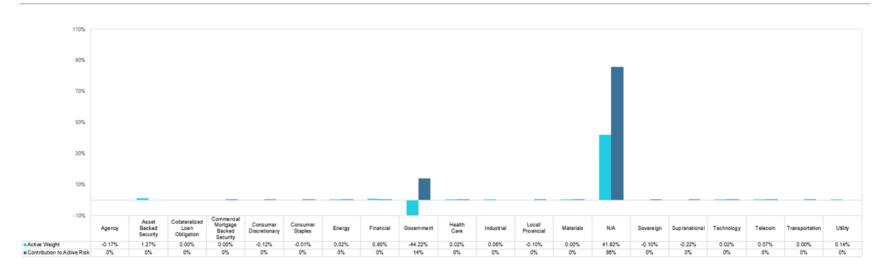
Not Available

Risk Reduction & Mitigation Risk Summary



for the quarter ended September 30, 2023

Portfolio Allocation by Bond Sector



Risk Reduction & Mitigation Investment Grade Bonds

Allspring/Wells

for the quarter ended September 30, 2023

Strategy

A core fixed income strategy focusing on bottom-up quantitative and qualitative security selection and comprehensive risk management. Value is added primarily through security selection and sector rotation.

Inception Date: June 2004

Portfolio Characteristics

	Portfolio	Benchmark
No. of Issues	945.0	0.0
Effective Duration	6.1	5.9
Convexity	0.6	0.6
Coupon Rate	3.7	3.0
Yield to Maturity	5.4	5.1
Current Yield	4.1	3.4
Rating – Moody's	AA-2	AA-2
Rating – S & P	AA	AA-

Top Holdings (% of assets)

FNMA TBA 30 YR 6	3.1%
US TREASURY N/B	3.0%
FNMA TBA 30 YR 6	2.0%
US TREASURY N/B	1.5%
US TREASURY N/B	1.4%
Top 5 Holdings	11.1%

¹ Universe data is gross-of-fees.

Los Angeles County Employees Retirement Association

Performance (net) ¹								
	Ending Market	Value (mm)	QTD	1 Year	3 Year	5 Year		
Allspring/Wells	1,242.6		-3.1%	1.3%	-4.9%	0.6%		
BBG BC Aggregate Bond Index			-3.2%	0.6%	-5.2%	0.1%		
Risk Reduction & Mitigation Policy BM			-3.7%	0.3%	-4.0%			
Universe data: US Fixed Income Funds	QTD	Rank	1 Year	Rank	3 Year	Rank	5 Year	Rank

Universe data: US Fixed Income Funds	QTD	Rank	1 Year	Rank	3 Year	Rank	5 Year	Rank
Allspring/Wells	-3.1%	76	1.4%	65	-4.8%	77	0.7%	67
Median	-0.9%		2.7%		-1.5%		1.2%	
No. of Observations	758							

Growth of \$10,000



Top Exposures (% of assets)²



1,110

² Charts display top exposures and may not add up to 100%.

Risk Reduction & Mitigation Risk Analysis Investment Grade Bonds



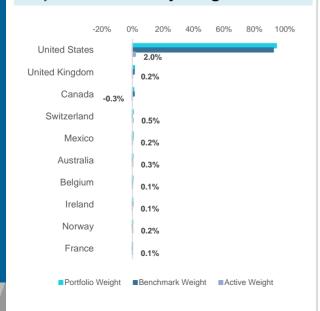
Allspring/Wells

for the quarter ended September 30, 2023

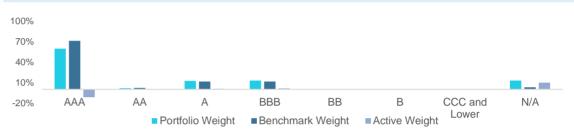
Portfolio Risk Summary



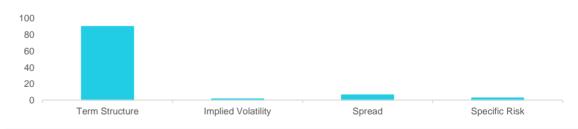
Top 10 Countries by Weight



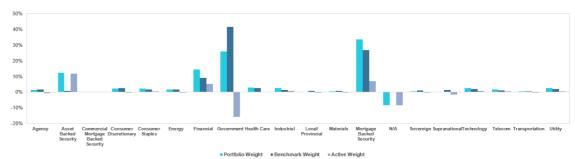




Active Risk from Common Factors



Portfolio Allocation by Bond Sector



Risk Reduction & Mitigation Investment Grade Bonds

Los Angeles County Employees Retirement Association

Pugh Capital

for the quarter ended September 30, 2023

Strategy

A core fixed income strategy that invests in investment-grade securities, with an emphasis on higher credit quality and mortgage-backed securities. The strategy seeks to add value relative to the Index by minimizing downside risk across the portfolio while adding incremental return through issue selection.

Inception Date: July 2005

Portfolio Characteristics

	Portfolio	Benchmark
No. of Issues	303.0	0.0
Effective Duration	6.0	5.9
Convexity	0.6	0.6
Coupon Rate	3.7	3.0
Yield to Maturity	5.3	5.1
Current Yield	4.1	3.4
Rating – Moody's	AA-2	AA-2
Rating – S & P	AA-	AA-

Top Holdings (% of assets)

US TREASURY N/B	2.9%
US TREASURY N/B	2.3%
US TREASURY N/B	1.7%
GNMA II POOL MA8151	1.5%
US TREASURY N/B	1.3%
Top 5 Holdings	9.7%

¹ Universe data is gross-of-fees.

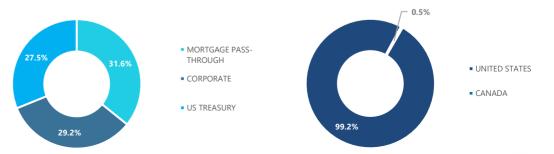
Performance (net)¹

	Ending Market V	alue (mm)	QTD	1 Year	3 Year	5 Year		
Pugh Capital Mgmt	826.7		-3.3%	0.9%	-5.1%	0.3%		
BBG BC Aggregate Bond Index			-3.2%	0.6%	-5.2%	0.1%		
Risk Reduction & Mitigation Policy BM			-3.7%	0.3%	-4.0%			
Universe data: US Fixed Income Funds	QTD	Rank	1 Year	Rank	3 Year	Rank	5 Year	Ran
Pugh Capital Mgmt	-3.2%	79	1.0%	71	-5.0%	81	0.4%	78
Median	-0.9%		2.7%		-1.5%		1.2%	
No. of Observations	758							

Growth of \$10,000



Top Exposures (% of assets)²



1,112

² Charts display top exposures and may not add up to 100%.

Risk Reduction & Mitigation Risk Analysis Investment Grade Bonds

L///CERA
Los Angeles County Employees Retirement Association

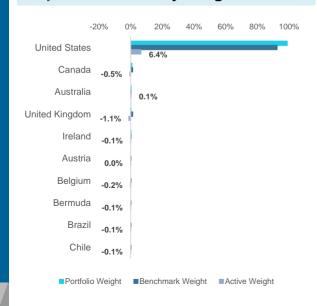
Pugh Capital

for the quarter ended September 30, 2023

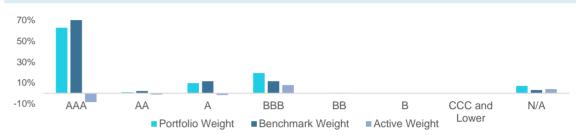
Portfolio Risk Summary



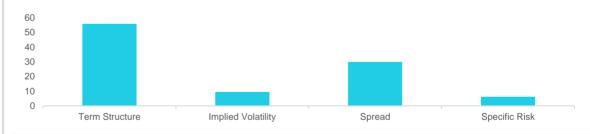
Top 10 Countries by Weight



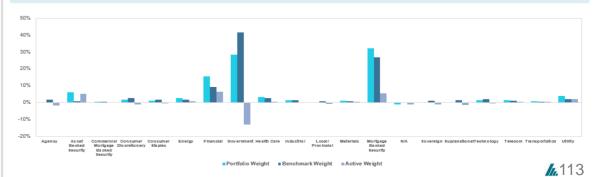




Active Risk from Common Factors



Portfolio Allocation by Bond Sector



Risk Reduction & Mitigation Long-term Government Bonds

Los Angeles County Employees Retirement Association

BlackRock

for the quarter ended September 30, 2023

Strategy

Seeks investment results that correspond generally to the price and yield performance of long duration U.S. government bonds.

Inception Date: Nov 2021

Portfolio Characteristics

Standard Deviation	14.9%
Benchmark Standard Deviation	14.9%
Sharpe Ratio	-1.59
Information Ratio	-0.22
Beta	1.00
Tracking Error	1.1%

Top Holdings (% of assets)

US TREASURY N/B	2.6%
US TREASURY N/B	2.5%
US TREASURY N/B	2.4%
US TREASURY N/B	2.4%
US TREASURY N/B	2.4%
Top 5 Holdings	12.2%

¹ Universe data is gross-of-fees.

Performance (net)¹ Ending Market Value (mm) QTD 1 Year 3 Year 5 Year **BlackRock Long Treasury Bonds** 2,791.6 -11.9% -9.2% Bloomberg U.S. Treasury: Long -9.1% -11.8% Risk Reduction & Mitigation Policy BM -3.7% 0.3% -4.0%

Universe data: US Fixed Income Funds	QTD	Rank	1 Year	Rank	3 Year	Rank	5 Year	Rank
BlackRock Long Treasury Bonds	-11.9%	98	-9.2%	95				
Median	-0.9%		2.7%					
No. of Observations	758							

Growth of \$10,000



Top Exposures (% of assets)²



^{1,114}

² Charts display top exposures and may not add up to 100%.

Risk Reduction & Mitigation Risk Analysis Long-term Government Bonds BlackRock

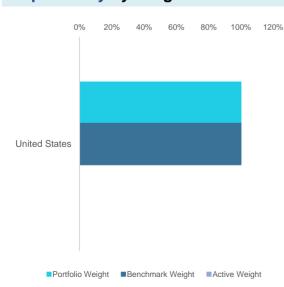


for the quarter ended September 30, 2023

Portfolio Risk Summary



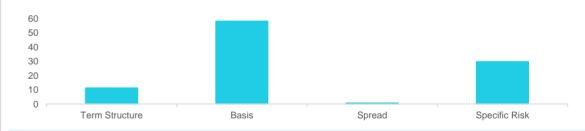
Top Country by Weight



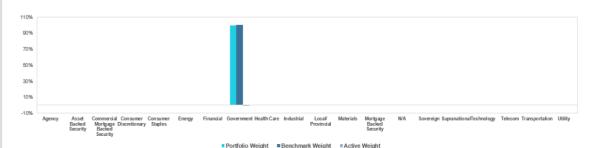




Active Risk from Common Factors



Portfolio Allocation by Bond Sector





private markets

Summary

Private Equity

for the quarter ended September 30, 2023

L///CERA Los Angeles County Employees Retirement Association

Performance (net)



	QTD	YTD	1 Year	3 Year	5 Year	10 Year	ITD
Private Equity	1.4%	4.7%	4.9%	22.7%	17.2%	16.2%	15.1%
Benchmark	6.2%	25.7%	18.1%	12.9%	13.6%	13.5%	
Excess	-4.8%	-21.0%	-13.2%	9.7%	3.6%	2.7%	

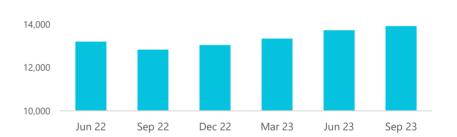
Cumulative Return



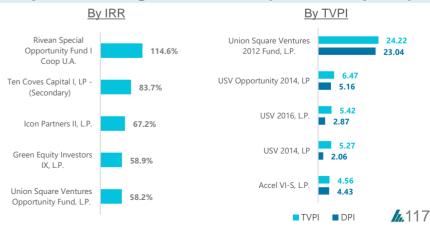
Asset Growth (mm)

	QTD	1 Year	3 Year
Beginning Market Value	13,739	12,838	7,209
Net Cash Flow	2	447	582
Gain/Loss	192	647	6,141
Ending Market Value	13,933	13,933	13,933

16.000



Top Performing Investments (since inception)



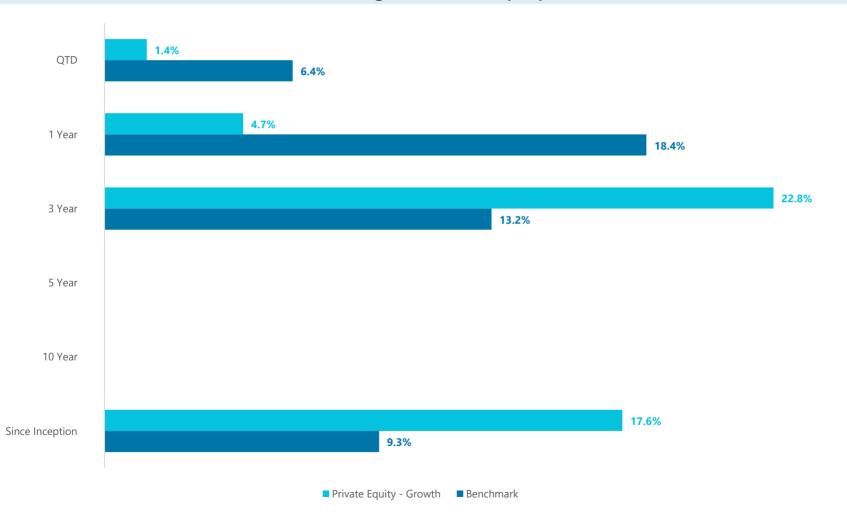
Historical Returns

Private Equity – Growth

for the quarter ended September 30, 2023







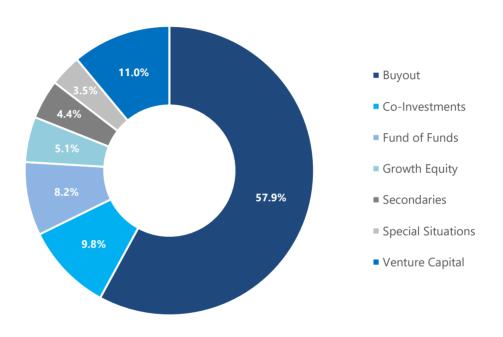
Performance by Strategy

Private Equity – Growth

for the quarter ended September 30, 2023



By Strategy^{1,2}



	Number of Investments	Commitments (mm)	Cumulative Contributions (mm)	Cumulative Distributions (mm)	Market Value	Total Value	Total Gain / Loss (mm)	Distributed to Paid-In	Total Value to Paid-In	Since Inception Net IRR	Since Inception PME
Buyout	208	15,097.1	13,674.9	14,973.3	7,884.5	22,857.8	9,182.8	1.09x	1.67x	14.0%	1.56
Co-Investments	10	1,587.9	1,556.6	1,032.0	1,334.6	2,366.6	810.0	0.66x	1.52x	17.9%	1.42
Fund of Funds	15	1,808.3	1,382.5	1,640.1	1,116.6	2,756.6	1,374.1	1.19x	1.99x	13.6%	1.45
Growth Equity	23	1,346.1	1,205.8	1,532.8	690.7	2,223.5	1,017.7	1.27x	1.84x	86.9%	1.68
Secondaries	20	832.4	712.4	414.8	598.0	1,012.9	300.4	0.58x	1.42x	17.6%	1.34
Special Situations	22	1,121.7	1,064.3	1,057.9	482.8	1,540.7	476.3	0.99x	1.45x	9.7%	1.18
Venture Capital	107	2,365.2	1,992.5	2,676.5	1,501.8	4,178.3	2,185.8	1.34x	2.10x	21.7%	1.96
Total Private Equity - Growth	405	24,158.8	21,589.1	23,327.4	13,609.0	36,936.3	15,347.2	1.08x	1.71x	16.3%	1.68

¹ Based on best available cash flow adjusted market values.

² Investment counts for Co-Investments and Fund of Funds do not include underlying funds.

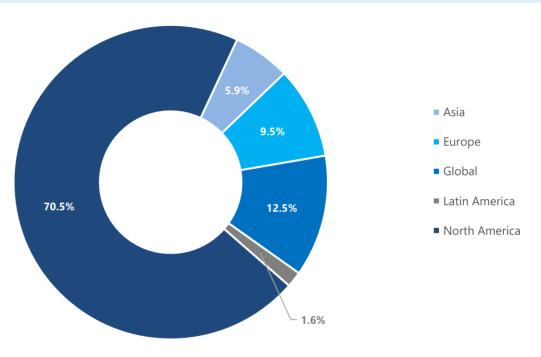
Performance by Geography

Private Equity – Growth

for the quarter ended September 30, 2023



By Geography^{1,2}



	Number of Investments	Commitments (mm)	Cumulative Contributions (mm)	Cumulative Distributions	Market Value	Total Value	Total Gain / Loss (mm)	Distributed to	Total Value to	Since Inception Net IRR	Since Inception PME
Asia	14	826.0	753.0	495.7	802.3	1,298.0	545.0	0.66x	1.72x	14.3%	1.30
Europe	37	2,518.0	2,341.7	2,415.3	1,286.7	3,702.0	1,360.4	1.03x	1.58x	15.7%	1.36
Global	28	2,693.3	1,850.3	896.6	1,703.8	2,600.4	750.0	0.48x	1.41x	15.2%	1.27
Latin America	2	200.0	201.1	57.8	220.5	278.4	77.2	0.29x	1.38x	10.6%	1.12
North America	324	17,921.5	16,443.0	19,461.9	9,595.6	29,057.6	12,614.6	1.18x	1.77x	16.3%	1.71
Total Private Equity - Growth	405	24,158.8	21,589.1	23,327.4	13,609.0	36,936.3	15,347.2	1.08x	1.71x	16.3%	1.68

¹ Based on best available cash flow adjusted market values.

² Investment counts for Co-Investments and Fund of Funds do not include underlying funds.

Performance by Vintage Year

Private Equity – Growth

for the quarter ended September 30, 2023



Los Angeles County Employees Retirement Association

By Vintage Year^{1,2,3}

			Cumulative	Cumulative			Total					- "
	Number of	Commitments (mm)	Contributions (mm)	Distributions (mm)	Market Value	Total Value	Gain / Loss	Distributed to	Total Value to		Since Inception	Quartile
1986	Investments 3	80.0	80.0	267.5	0.0	267.5	187.5	Paid-In 3.34x	Paid-In 3.34x	Net IRR 15.7%	PME 	Ranking 1st
1987	1	25.0	25.0	40.3	0.0	40.3	15.3	1.61x	1.61x	7.3%		3rd
1988	2	200.0	216.6	466.9	0.0	466.9	250.3	2.16x	2.16x	15.5%	89.91	2nd
1989	0	200.0	210.6	400.9		400.9	250.5	2.16x	2.16x	15.5%		N/A
1990	1	7.5	7.5	16.7	0.0	16.7	9.2	2.22x	2.22x	13.0%	9.13	3rd
1991	0	7.5	7.5		0.0			2.22X 		15.0%	9.15	N/A
1992	10	116.0	111.0	242.5	0.0	242.5	131.6	2.19x	2.19x	29.1%	3.78	2nd
1993	8	68.0	64.8	239.5	0.0	239.5	174.7	3.70x	3.70x	39.7%	3.76	1st
1994	5	56.9	58.8	239.5	0.0	237.6	174.7	4.04x	4.04x	54.1%	2.82	1st
1995	7	100.5	102.3	362.6	0.0	362.6	260.2	3.54x	3.54x	43.2%	2.58	1st
1996	12	222.9	225.2	608.8	0.0	608.8	383.6	2.70x	2.70x	37.5%	2.36	1st
1997	11	397.5	410.4	606.4	0.0	606.4	196.0	1.48x	1.48x	7.7%	1.20	3rd
1998	22	644.4	655.2	945.3	0.0	945.8	290.6	1.46x 1.44x	1.46x 1.44x	7.7%	1.19	
1999	21	362.5	369.7	436.6	0.5	436.6	66.9	1.44x 1.18x	1.44x 1.18x	3.4%	0.96	2nd 2nd
2000	25	375.3	387.3	575.0	0.0	575.1	187.8	1.16x 1.48x	1.16x 1.49x	8.7%	1.07	2nd 2nd
2000	15	409.5	442.6	835.5	2.5	838.1	395.5	1.46x 1.89x	1.49x 1.89x	21.7%	1.38	1st
2001	8	220.4	230.3	537.4	0.0	537.4	395.5	2.33x	2.33x	19.0%	1.64	2nd
2002	8	308.7	339.2	701.6	0.0	701.8	362.6	2.55x 2.07x	2.55x 2.07x	21.3%		
2003	7	345.5	339.2	746.8	0.3	701.8	355.3	1.90x	2.07x 1.91x	19.5%	1.60 1.58	1st 1st
2004	7 15	503.2	592.2	1,040.4	3.1		537.4		2.06x	13.4%		1st
2005	28	1,513.1	1,608.0	2,563.4	9.0	1,043.6 2,572.4	964.4	2.06x 1.59x	2.06x 1.60x	8.8%	1.64 1.25	2nd
2007	11		462.1	785.6		816.4		1.70x				
2007	10	516.4 636.8	701.3	1,238.4	30.8 23.4	1,261.8	354.3 560.5	1.70x 1.77x	1.77x	11.5% 13.2%	1.20 1.21	2nd 2nd
2009	0		701.5	1,230.4		1,201.0		1.77X 	1.80x 	13.270		N/A
2010	2	450.0	475.1	739.9	234.3	974.2	499.1	1.56x	2.05x	15.5%	1.42	2nd
2010	7	390.3	423.5	822.4	146.2	968.6	545.1	1.94x	2.03x 2.29x	18.3%	1.42	2nd 2nd
2011	7	435.0	582.0	1,071.5	93.8	1,165.4	583.4	1.94x 1.84x	2.29x 2.00x	21.5%	1.46	2nd 2nd
2012	10	894.4	987.9	1,071.5	500.9	1,790.5	802.6	1.04x 1.31x	1.81x	14.9%	1.32	2nd 2nd
2013	11	1,244.2	1,404.7	1,552.9	1,193.0	2,745.9	1,341.2	1.11x	1.95x	16.8%	1.43	2nd
2014	10	1,087.0	1,273.8	1,440.8		2,743.9	1,448.0		2.14x	20.9%	1.62	2nd
2015	10	1,087.0	1,273.8	1,440.8	1,281.1 1,171.4	2,721.9	1,448.0	1.13x 0.94x	1.83x	17.5%	1.62	3rd
2017	8	594.0	597.8	436.0	671.4	1,107.4	509.6	0.94x 0.73x	1.85x	19.2%	1.43	3rd
2017	9	1,254.2	1,196.5	436.0	1,483.6	1,107.4	709.1	0.73x 0.35x	1.65x 1.59x	18.8%	1.43	3rd
2019	30	2,114.2	1,196.5	430.5	2,385.4	2,816.0	872.5	0.33x 0.22x	1.39x 1.45x	16.3%	1.40	2nd
2019	10	1,157.5	958.2	197.8	1,140.4	1,338.3	380.0	0.22x 0.21x	1.45x 1.40x	20.0%	1.28	2nd 2nd
2020 2021	30	3,009.8	1,944.3	197.8	2,146.3	2,263.4	380.0	0.21X 0.06x	1.40x 1.16x	11.3%	1.39	2na 2nd
2021	16	1,535.6	884.9	73.4	880.8	954.1	69.3	0.06x 0.08x	1.16x 1.08x	7.9%	1.18	1st
2022	13	1,755.1	206.9	73.4	209.8	954.1	69.3	0.08x 0.00x	1.08x 1.01x	2.8%	1.03	1st
2023	13	1,755.1	200.9		203.0			0.00x	1.01x	2.070	1.00	ist
Total Private Equity - Growth	405	24,158.8	21,589.1	23,327.4	13,609.0	36,936.3	15,347.2	1.08x	1.71x	16.3%	1.68	

- Based on best available cash flow adjusted market values.
- Investment counts for Co-Investments and Fund of Funds do not include underlying funds.
- Benchmark data used is latest available by Burgiss Private IQ. IRR quartile rankings are reported as not applicable (N/A) if no commitments were made for the respective vintage year.

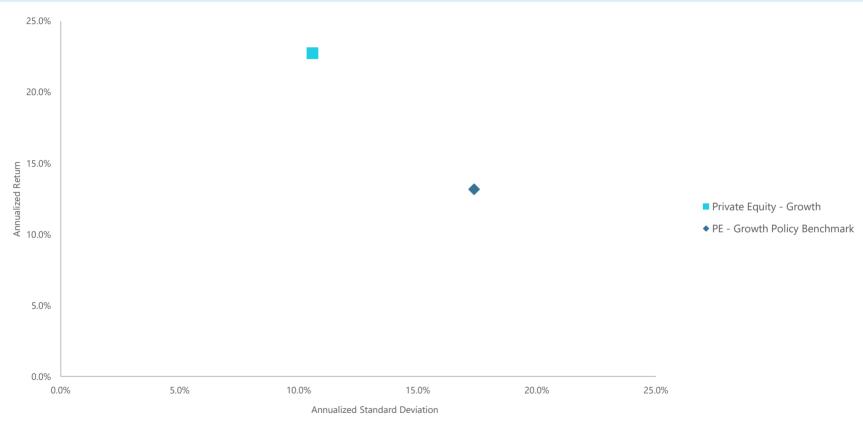
Risk vs. Return

Private Equity – Growth

for the quarter ended September 30, 2023







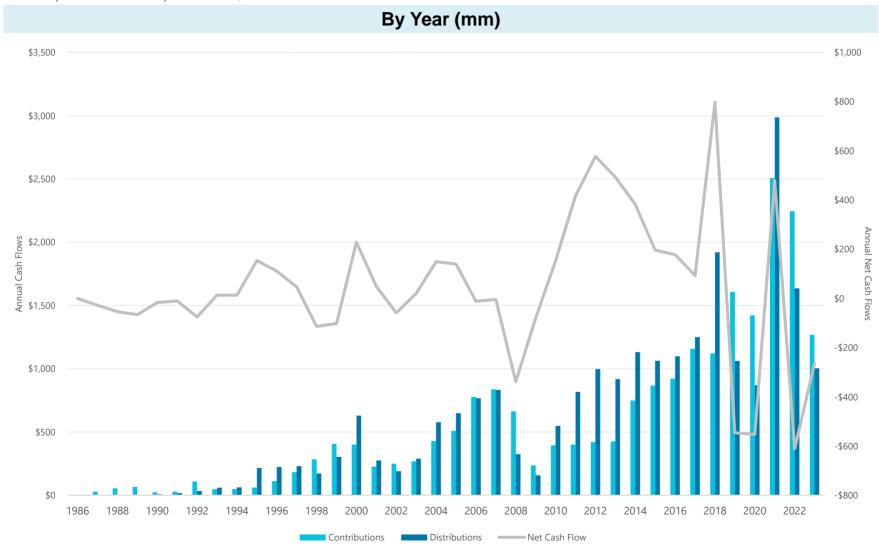
	Annualized	Standard	Sharpe	Information		Tracking
	Return	Deviation	Ratio	Ratio	Beta	Error
Private Equity - Growth	22.8%	10.6%				
PE - Growth Policy Benchmark	13.2%	17.4%	1.85	0.40	0.16	18.1%

Annual Cash Flow Activity

Private Equity

for the quarter ended September 30, 2023





Summary

Real Estate

for the quarter ended September 30, 2023



Performance (net) 10.0% 5.0% 0.0% -5.0% -10.0% -15.0% OTD YTD 1 Year 3 Year 5 Year 10 Year ITD ■ Real Estate ■ Benchmark

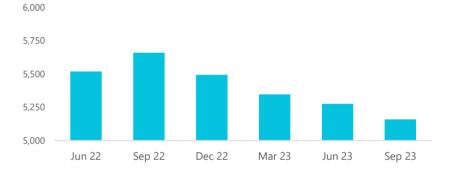
	QTD	YTD	1 Year	3 Year	5 Year	10 Year	ITD
Real Estate	-3.4%	-9.8%	-8.2%	8.0%	5.8%	7.6%	7.6%
Benchmark	-2.7%	-10.4%	-10.1%	7.5%	6.1%		
Excess	-0.7%	0.7%	1.8%	0.6%	-0.4%		

Cumulative Return



Asset Growth (mm)

	QTD	1 Year	3 Year
Beginning Market Value	5,275	5,660	5,299
Net Cash Flow	63	-51	-1,387
Gain/Loss	-179	-450	1,247
Ending Market Value	5,159	5,159	5,159



Top Performing Investments (since inception)¹



¹ Property names removed due to confidentiality reasons.

Historical Returns

Real Estate

for the quarter ended September 30, 2023



Time-Weighted Returns (net)





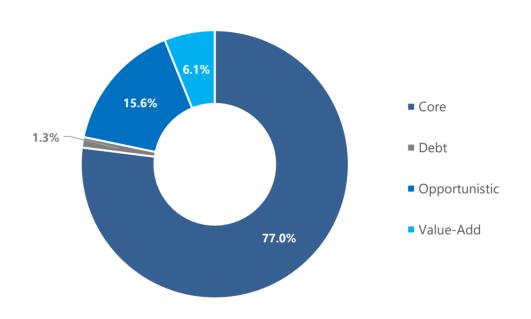
Performance by Strategy

Real Estate

for the quarter ended September 30, 2023



By Strategy^{1,2}



			Cumulative	Cumulative	Market	Total	Total				
	Number of	Commitments	Contributions	Distributions	Value	Value	Gain / (Loss)	Distributed to	Total Value to	Since Inception	Since Inception
	Investments	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	Paid-In	Paid-In	Net IRR	PME
Core	82	1,630.9	7,687.7	6,988.5	3,823.6	10,812.2	3,124.5	0.91x	1.41x	7.9%	1.13
Debt	7	0.0	158.6	140.3	62.8	203.1	44.5	0.88x	1.28x	8.7%	1.21
Opportunistic	18	1,845.8	1,289.1	803.5	776.5	1,580.1	291.0	0.62x	1.23x	5.2%	0.97
Value-Add	12	467.2	640.4	240.5	302.9	543.4	(97.0)	0.38x	0.85x	-3.7%	0.63
Total Real Estate	119	3,943.9	9,775.7	8,172.8	4,965.8	13,138.6	3,363.0	0.84x	1.34x	7.1%	1.08

¹ Based on best available cash flow adjusted market values and includes only active investments and sold assets with balance sheet residuals.

² Commitment amounts reflect only commingled fund investments.

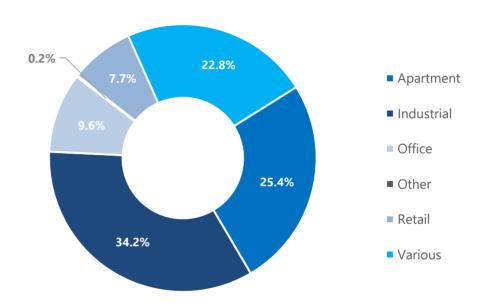
Performance by Property Type

Real Estate

for the quarter ended September 30, 2023



By Property Type^{1,2,3}



	Number of Investments	Commitments (mm)	Cumulative Contributions (mm)	Cumulative Distributions (mm)	Market Value (mm)	Total Value (mm)	Total Gain / (Loss)	Distributed to Paid-In	Total Value to Paid-In	Since Inception Net IRR	Since Inception PME
Apartment	36	384.1	3,102.9	2,666.8	1,261.9	3,928.7	825.8	0.86x	1.27x	6.3%	1.07
Industrial	21	230.9	1,697.8	1,592.1	1,700.4	3,292.5	1,594.7	0.94x	1.94x	12.7%	1.69
Office	19	0.0	2,019.6	1,943.6	478.4	2,422.0	402.3	0.96x	1.20x	4.9%	1.02
Other	4	100.0	170.6	199.0	9.3	208.3	37.7	1.17x	1.22x	4.3%	0.77
Retail	15	0.0	1,281.1	1,285.8	384.1	1,669.9	388.8	1.00x	1.30x	6.1%	0.83
Various	24	3,228.9	1,503.7	485.6	1,131.8	1,617.4	113.7	0.32x	1.08x	2.0%	0.87
Total Real Estate	119	3,943.9	9,775.7	8,172.8	4,965.8	13,138.6	3,363.0	0.84x	1.34x	7.1%	1.08

¹ Based on best available cash flow adjusted market values and includes only active investments and sold assets with balance sheet residuals.

² Commitment amounts reflect only commingled fund investments.

³ Various refers to commingled fund investments with more than one property type; Other refers to hotel and fund level market values for the debt program.

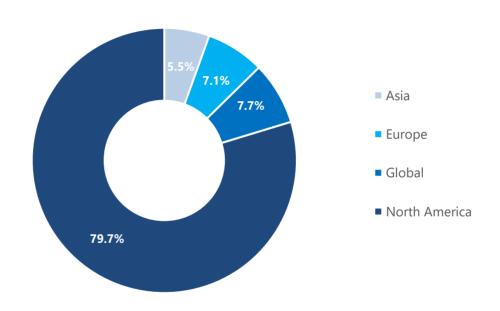
Performance by Geography

Real Estate

for the quarter ended September 30, 2023



By Geography (non-US)^{1,2}



	Number of	Commitments	Cumulative Contributions	Cumulative Distributions	Market Value	Total Value	Total Gain / (Loss)	Distributed to	Total Value to		Since Inception
	Investments	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	Paid-In	Paid-In	Net IRR	PME
Asia	4	300.0	310.7	126.0	273.7	399.7	89.0	0.41x	1.29x	5.3%	1.09
Europe	10	466.0	635.9	383.7	354.5	738.2	102.3	0.60x	1.16x	3.5%	0.87
Global	7	1,068.8	486.0	229.3	380.0	609.3	123.4	0.47x	1.25x	10.7%	1.11
North America	98	2,109.1	8,343.1	7,433.8	3,957.6	11,391.4	3,048.3	0.89x	1.37x	7.3%	1.09
Total Real Estate	119	3,943.9	9,775.7	8,172.8	4,965.8	13,138.6	3,363.0	0.84x	1.34x	7.1%	1.08

¹ Based on best available cash flow adjusted market values and includes only active investments and sold assets with balance sheet residuals.

² Commitment amounts reflect only commingled fund investments.

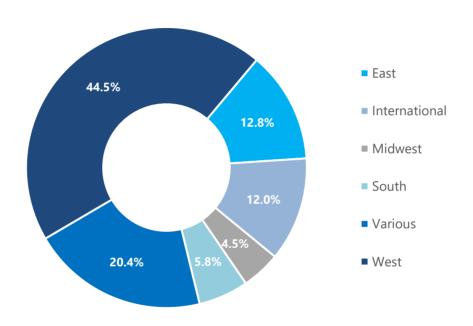
Performance by Geography

Real Estate

for the quarter ended September 30, 2023



By Geography (US NCREIF)^{1,2}



	Number of	Commitments	Cumulative Contributions	Cumulative Distributions	Market Value	Total Value	Total Gain / (Loss)	Distributed to	Total Value to	Since Inception Net IRR	Since Inception
East	26	0.0	2,476.7	2,310.5	637.9	2,948.5	471.7	0.93x	1.19x	5.0%	0.87
International	13	713.1	904.0	509.7	595.2	1,104.9	200.9	0.56x	1.22x	4.4%	0.95
Midwest	10	0.0	593.2	502.3	222.9	725.2	132.0	0.85x	1.22x	4.5%	0.83
South	11	0.0	1,199.1	1,318.8	286.1	1,604.9	405.8	1.10x	1.34x	7.7%	0.98
Various	16	2,846.7	1,108.2	370.8	1,011.4	1,382.2	274.0	0.33x	1.25x	6.0%	1.04
West	43	384.1	3,494.5	3,160.7	2,212.3	5,373.0	1,878.5	0.90x	1.54x	8.7%	1.37
Total Real Estate	119	3,943.9	9,775.7	8,172.8	4,965.8	13,138.6	3,363.0	0.84x	1.34x	7.1%	1.08

¹ Based on best available cash flow adjusted market values and includes only active investments and sold assets with balance sheet residuals.

² Commitment amounts reflect only commingled fund investments.

Performance by Vintage Year

Real Estate

for the quarter ended September 30, 2023



Los Angeles County Employees Retirement Association

By Vintage Year^{1,2,3}

			Cumanilation	Cumulative	Market	Total	Total					
	Number of	Commitments	Cumulative Contributions	Distributions	Value	Total Value	Total Gain / (Loss)	Distributed to	Total Value to	Since Inception	Since Incention	Quartile
	Investments	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	Paid-In	Paid-In	Net IRR	PME	Ranking
1990	1	0.0	249.9	305.4	94.0	399.4	149.5	1.22x	1.60x	6.0%	4.49	N/A
1991	3	0.0	33.2	127.7	100.6	228.3	195.1	3.85x	6.88x	12.4%	14.12	N/A
1992	0	0.0						5.05%	0.00x			N/A
1993	0	0.0										N/A
1994	1	0.0	15.5	68.4	35.7	104.0	88.5	4.40x	6.70x	12.8%	1.46	N/A
1995	1	0.0	67.3	114.3	90.0	204.3	137.0	1.70x	3.04x	11.4%	1.22	N/A
1996	1	0.0	24.1	38.9	26.3	65.2	41.1	1.61x	2.70x	7.2%	0.78	N/A
1997	1	0.0	18.5	69.1	72.7	141.8	123.3	3.74x	7.66x	15.8%	2.16	N/A
1998	1	0.0	48.9	103.8	8.4	112.2	63.2	2.12x	2.29x	6.2%	0.69	N/A
1999	0	0.0										N/A
2000	0	0.0										N/A
2001	1	0.0	143.7	80.2	85.4	165.6	21.9	0.56x	1.15x	3.6%	0.73	N/A
2001	0	0.0						0.50x		3.070		N/A
2002	1	0.0	142.9	133.8	53.9	187.7	44.7	0.94x	1.31x	3.7%	0.69	N/A
2003	0	0.0	142.9	133.0				0.54x	1.51x	3.776		N/A
2004	0	0.0										N/A
2003	0	0.0										N/A
2007	3	36.7	454.6	401.9	0.5	402.4	(52.2)	0.88x	0.89x	-5.5%	0.54	4th
2007	1	150.0	150.0	96.0	0.0	96.0	(53.9)	0.66x	0.64x	-5.7%	0.34	4th
2009	1	18.3	22.5	28.8	0.0	29.0	6.4	1.28x	1.29x	8.1%	0.34	3rd
2009	1	100.0	97.1	152.0	6.3	158.3	61.2	1.20x 1.57x	1.29x 1.63x	9.6%	0.64	3rd
2010	4	16.9	222.3	117.5	8.9	126.4	(96.0)	0.53x	0.57x	-22.9%	0.92	4th
2011	3	134.1	441.5	189.4	92.1	281.5		0.53x 0.43x	0.57x 0.64x	-22.9%	0.23	4th
2012	7	100.0	476.9	582.9	72.3	655.2	(159.9) 178.3	1.22x	1.37x	7.5%	0.51	3rd
2013	15	258.8	998.2	828.4	72.3 599.0	1,427.4	429.2	0.83x	1.37x 1.43x	7.5%	1.14	3rd
2014	9	0.0	955.6	767.4	645.9	1,427.4	457.6	0.80x	1.43x 1.48x	10.6%	1.14	2nd
2016	7	150.0	498.8	232.7	510.0	742.7	243.8	0.60x 0.47x	1.46x 1.49x	10.3%	1.36	
2016	12	177.9	1,343.1	938.5	801.4	1,740.0	396.8	0.47x 0.70x		8.5%	1.19	3rd
2017	10	150.0	379.0	218.7	241.1	459.8	80.8	0.70x 0.58x	1.30x 1.21x	6.6%	1.19	4th
2018	25	411.7			929.1		987.5	0.58X 1.02x		8.4%	1.14	4tn 3rd
2019	25	0.0	2,425.6 71.8	2,484.0 82.7		3,413.1 81.2	987.5	1.02x 1.15x	1.41x 1.13x	5.2%	1.02	3rd 3rd
					(1.6)		9.4 4.8					3rd 3rd
2021 2022	2 3	179.4 710.0	93.9	4.4 6.0	94.3 201.0	98.7 206.9	4.8 6.2	0.05x	1.05x	3.9% 5.2%	1.18	
	3		200.7					0.03x	1.03x		1.12	1st
2023	3	1,350.0	200.0	0.0	198.4	198.4	(1.6)	0.00x	0.99x	-0.8%	1.06	1st
Total Real Estate	119	3,943.9	9,775.7	8,172.8	4,965.8	13,138.6	3,363.0	0.84x	1.34x	7.1%	1.08	

- Based on best available cash flow adjusted market values.
- Commitment amounts reflect only commingled fund investments.
- Benchmark data used is latest available by Burgiss Private IQ. IRR quartile rankings exclude IMAs and Core Funds.

Leverage Exposure

Real Estate

for the quarter ended September 30, 2023



Leverage Exposure^{1,2} Core 23.7% 25.2% 39.8% Debt 35.9% Opportunistic 35.2% 49.7% 95.5% Value-Add 4.0%

			Cumulative	Cumulative	Market	Total	Total			Since	Since	Total Debt-	Total Equity-	Total Debt-	Total Equity-
	Number of	Commitments	Contributions	Distributions	Value	Value	Gain / (Loss)	Distributed to	Total Value to	Inception	Inception	Fund Level	Fund Level	Fund Level	Fund Level
	Investments	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	Paid-In	Paid-In	Net IRR	PME	(mm)	(mm)	(%)	(%)
Core	82	1,630.9	7,687.7	6,988.5	3,823.6	10,812.2	3,124.5	0.91x	1.41x	7.9%	1.13	9,087.7	8,549.6	25.2%	23.7%
Debt	7	0.0	158.6	140.3	62.8	203.1	44.5	0.88x	1.28x	8.7%	1.21	109.3	98.5	39.8%	35.9%
Opportunistic	18	1,845.8	1,289.1	803.5	776.5	1,580.1	291.0	0.62x	1.23x	5.2%	0.97	15,502.1	10,977.0	49.7%	35.2%
Value-Add	12	467.2	640.4	240.5	302.9	543.4	(97.0)	0.38x	0.85x	-3.7%	0.63	5,981.1	142,298.6	4.0%	95.5%
Total Real Estate	119	3,943.9	9,775.7	8,172.8	4,965.8	13,138.6	3,363.0	0.84x	1.34x	7.1%	1.08	30,680.3	161,923.7	14.2%	74.8%

■ Total Equity ■ Total Debt

¹ Based on best available cash flow adjusted market values and includes only active investments and sold assets with balance sheet residuals.

² Commitment amounts reflect only commingled fund investments.

Risk vs. Return

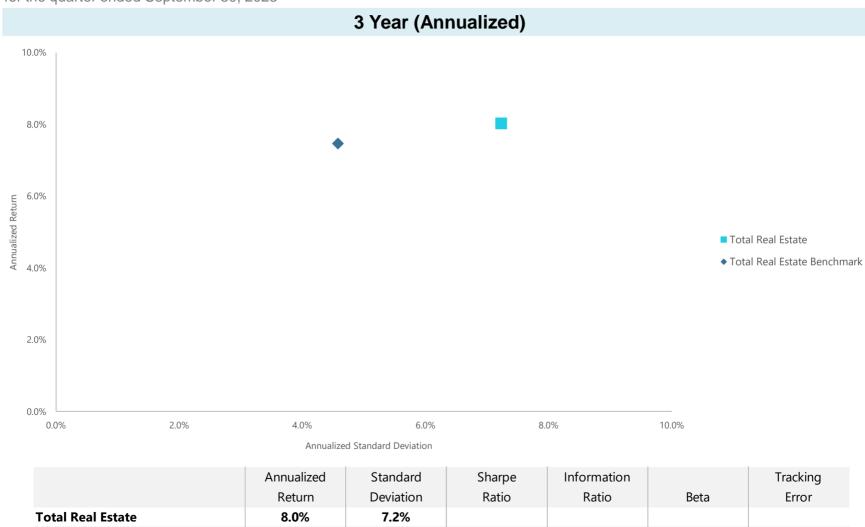
Total Real Estate Benchmark

7.5%

Real Estate

for the quarter ended September 30, 2023





4.6%

0.87

0.10

0.94

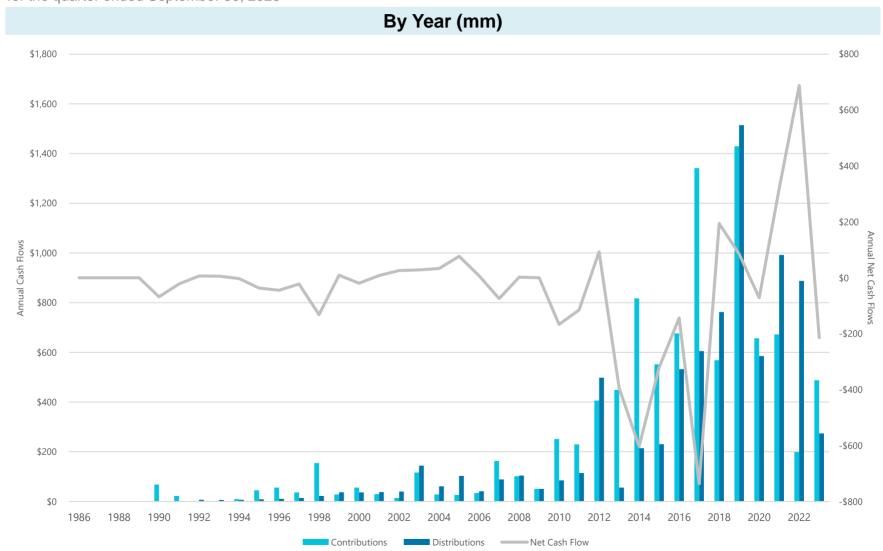
20.2%

Annual Cash Flow Activity

Real Estate

for the quarter ended September 30, 2023





Summary

Private Real Assets ex. Real Estate

for the quarter ended September 30, 2023



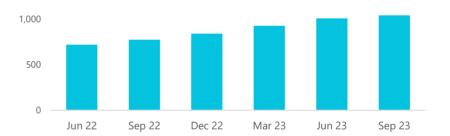
Performance (net)¹ 30.0% 20.0% 10.0% -10.0% OTD 3 Year 5 Year YTD 1 Year 10 Year ITD ■ Private Natural Resources & Commodities Benchmark QTD YTD 1 Year 3 Year 5 Year 10 Year ITD Private Natural Resources & Commodities 2.8% 14.7% 15.9% 10.2% -3.7% Benchmark -3.6% 8.4% 7.0% 20.1% 13.1% Excess 6.4% 6.3% 8.9% -9.9% -16.8%

Cumulative Return¹ 100.0% 73.3% 80.0% 60.0% 33.9% 40.0% 20.0% -20.0% Mar Jun Sep Dec 22 Trailing 3 Years Private Natural Resources & Commodities Benchmark

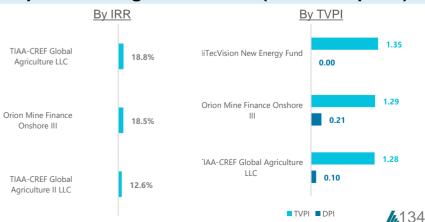
Asset Growth (mm)

	QTD	1 Year	3 Year
Beginning Market Value	1,007	772	72
Net Cash Flow	5	132	766
Gain/Loss	29	136.6	202.6
Ending Market Value	1,040	1,040	1,040

1.500



Top Performing Investments (since inception)¹



¹ Private natural resources & commodities funds reflect early-stage life cycle performance.

Summary

Private Real Assets ex. Real Estate

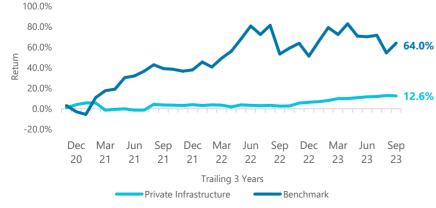
for the quarter ended September 30, 2023



Performance (net)¹ 15.0% 10.0% 5.0% -5.0% OTD ITD YTD 1 Year 3 Year 5 Year 10 Year ■ Private Infrastructure ■ Benchmark

	QTD	YTD	1 Year	3 Year	5 Year	10 Year	ITD
Private Infrastructure	0.8%	5.8%	9.6%				4.1%
Benchmark	-0.4%	12.3%	0.8%				7.1%
Excess	1.2%	-6.5%	8.8%				-3.0%

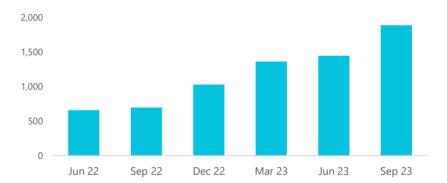
Cumulative Return¹



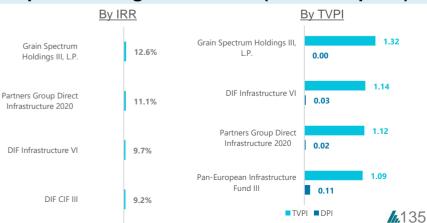
¹ Private infrastructure funds reflect early-stage life cycle performance.

Asset Growth (mm)

	QTD	1 Year	3 Year
Beginning Market Value	1,449	699	
Net Cash Flow	426	1,077	
Gain/Loss	15	114	
Ending Market Value	1,890	1,890	



Top Performing Investments (since inception)¹



Historical Returns

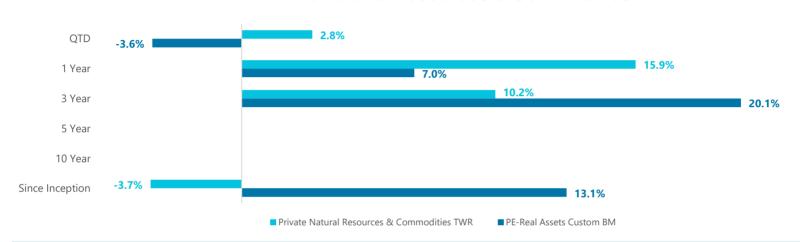
Private Real Assets ex. Real Estate

for the quarter ended September 30, 2023

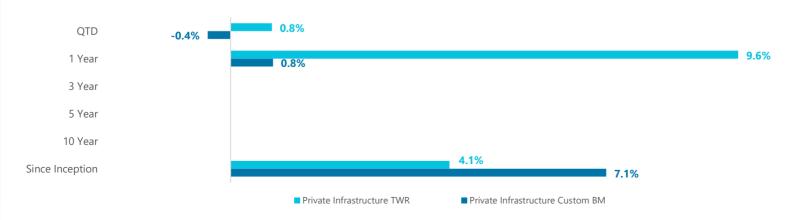


Time-Weighted Returns (net)¹





Private Infrastructure



¹ Private natural resources and infrastructure funds reflect early-stage life cycle performance.

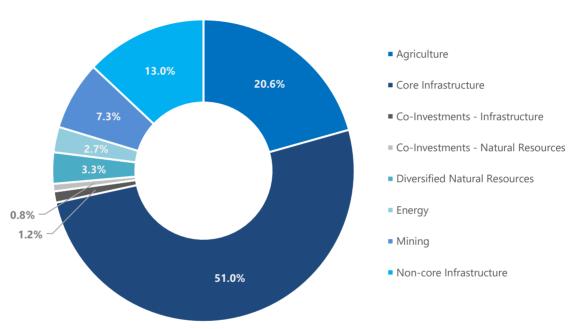
Performance by Strategy

Private Real Assets ex. Real Estate

for the quarter ended September 30, 2023



By Strategy¹



	Number of Investments	Commitments (mm)	Cumulative Contributions (mm)	Cumulative Distributions (mm)	Market Value	Total Value	Total Gain / Loss	Distributed to Paid-In	Total Value to	Since Inception Net IRR	Since Inception PME
Agriculture	4	750.0	573.3	84.4	611.9	696.3	123.0	0.15x	1.21x	14.4%	1.13
Core Infrastructure	5	1,656.7	1,466.4	41.8	1,510.0	1,551.8	85.3	0.03x	1.06x	7.1%	1.05
Co-Investments - Infrastructure	3	96.0	35.1	0.0	35.5	35.5	0.4	0.00x	1.01x	1.4%	1.03
Co-Investments - Natural Resources	3	140.1	24.0	0.0	23.9	23.9	(0.1)	0.00x	1.00x	-0.6%	0.92
Diversified Natural Resources	1	132.3	73.6	0.0	99.2	99.2	25.7	0.00x	1.35x	36.7%	1.26
Energy	3	325.0	205.6	119.3	80.6	199.9	(5.7)	0.58x	0.97x	-0.8%	0.75
Mining	4	425.0	215.4	29.2	217.6	246.7	31.4	0.14x	1.15x	11.7%	1.07
Non-core Infrastructure	7	798.1	363.0	10.3	384.8	395.0	32.1	0.03x	1.09x	6.1%	0.99
Total Private Real Assets ex. Real Estate	30	4,323.2	2,956.4	284.9	2,963.5	3,248.4	292.0	0.10x	1.10x	7.6%	1.03

¹ Based on best available cash flow adjusted market values.

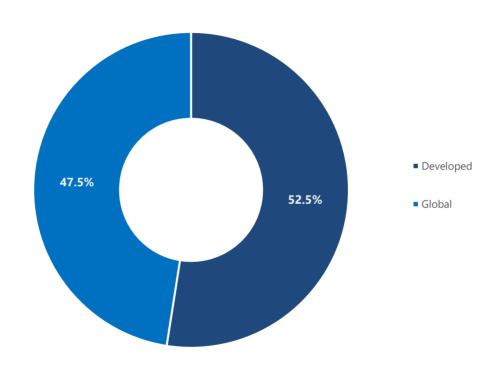
Performance by Geography

Private Real Assets ex. Real Estate

for the quarter ended September 30, 2023



By Geography¹



	Number of	Commitments	Cumulative Contributions	Cumulative Distributions	Market Value	Total Value	Total Gain / Loss	Distributed to			Since Inception
	Investments	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	Paid-In	Paid-In	Net IRR	PME
Developed	14	2,081.1	1,640.3	211.1	1,555.2	1,766.3	126.0	0.13x	1.08x	5.7%	0.99
Global	16	2,242.1	1,316.1	73.8	1,408.3	1,482.1	166.0	0.06x	1.13x	10.4%	1.08
Total Private Real Assets ex. Real Estate	30	4,323.2	2,956.4	284.9	2,963.5	3,248.4	292.0	0.10x	1.10x	7.6%	1.03

¹ Based on best available cash flow adjusted market values.

Performance by Vintage Year

Private Real Assets ex. Real Estate

for the quarter ended September 30, 2023



By Vintage Year^{1,2}

Private Natural Resources & Commodities

	Number of Investments	Commitments (mm)	Cumulative Contributions (mm)	Cumulative Distributions (mm)	Market Value	Total Value	Total Gain / Loss	Distributed to	Total Value to Paid-In	Since Inception Net IRR	Since Inception PME	Quartile Ranking
2004	1	50.0	50.0	91.4	0.0	91.4	41.4	1.83x	1.83x	31.1%	1.40	1st
2011	1	350.0	256.9	25.9	301.9	327.8	71.0	0.10x	1.28x	18.8%	1.19	1st
2014	2	450.0	435.7	86.4	357.8	444.2	8.5	0.20x	1.02x	0.5%	0.81	4th
2021	2	250.0	167.3	29.2	171.0	200.2	32.9	0.17x	1.20x	13.2%	1.11	
2022	4	247.4	125.0	0.0	147.1	147.1	22.1	0.00x	1.18x	18.5%	1.13	1st
2023	5	425.0	57.1	0.0	55.5	55.5	(1.7)	0.00x	0.97x	-3.9%	0.93	1st
Total Private Natural Resources & Commodities	15	1,772.4	1,092.0	232.8	1,033.3	1,266.1	174.2	0.21x	1.16x	8.2%	1.02	

^{1.} Based on best available cash flow adjusted market values.

Private Infrastructure

	Number of Investments	Commitments (mm)	Cumulative Contributions (mm)	Cumulative Distributions (mm)	Market Value	Total Value	Total Gain / Loss	Distributed to	Total Value to	Since Inception Net IRR	Since Inception PME	Quartile Ranking
2020	3	324.7	240.0	10.9	268.3	279.2	39.1	0.05x	1.16x	9.3%	1.02	3rd
2021	6	1,171.3	951.8	25.1	950.2	975.3	23.5	0.03x	1.02x	3.8%	1.02	3rd
2022	4	958.8	637.5	16.1	676.2	692.3	54.8	0.03x	1.09x	8.0%	1.06	
2023	2	96.0	35.1	0.0	35.5	35.5	0.4	0.00x	1.01x	1.4%	1.03	1st
Total Private Infrastructure	15	2,550.8	1,864.5	52.1	1,930.2	1,982.3	117.8	0.03x	1.06x	6.8%	1.03	

^{1.} Based on best available cash flow adjusted market values.

^{2.} Benchmark data used to generate IRR quartile rankings is latest available by Burgiss Private IQ.

^{2.} Benchmark data used to generate IRR quartile rankings is latest available by Burgiss Private IQ.

Risk vs. Return

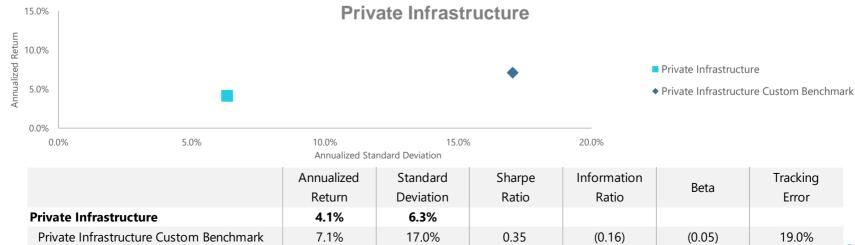
Private Real Assets ex. Real Estate

for the quarter ended September 30, 2023



Since Inception (Annualized)



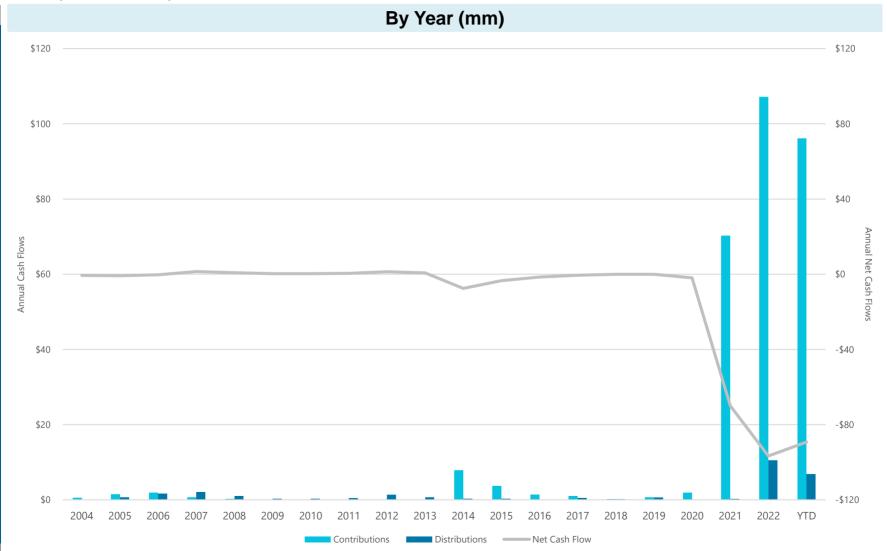


Annual Cash Flow Activity

Private Real Assets ex. Real Estate



for the quarter ended September 30, 2023



Summary

Diversified Hedge Funds

for the quarter ended September 30, 2023

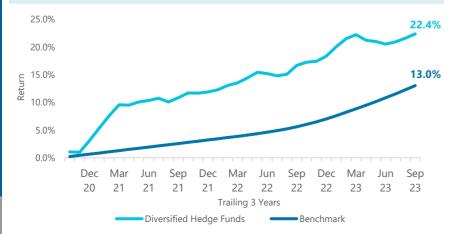


Performance (net)



	QTD	YTD	1 Year	3 Year	5 Year	10 Year	ITD
Diversified Hedge Funds	1.5%	3.4%	4.9%	7.0%			6.3%
Benchmark	2.0%	5.6%	7.0%	4.2%			4.2%
Excess	-0.4%	-2.2%	-2.2%	2.8%			2.2%

Cumulative Return

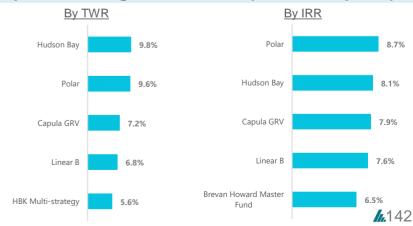


Asset Growth (mm)

	QTD	1 Year	3 Year
Beginning Market Value	4,570	4,281	1,978
Net Cash Flow	36	183	2,087
Gain/Loss	70	213	612
Ending Market Value	4,677	4,677	4,677



Top Performing Investments (since inception)



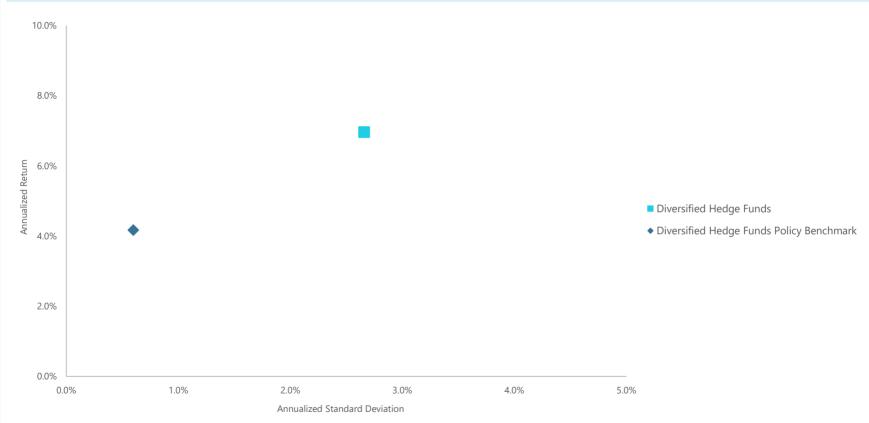
Risk vs. Return

Diversified Hedge Funds

for the quarter ended September 30, 2023







	Annualized Return	Standard Deviation	Sharpe Ratio	Information Ratio	Beta	Tracking Error
Diversified Hedge Funds	7.0%	2.7%				
Diversified Hedge Funds Policy Benchmark	4.2%	0.6%	1.92	0.95	(2.67)	2.8%

Performance Detail

Diversified Hedge Funds

for the quarter ended September 30, 2023



Annualized Net Returns

		Ending	Prior Ouarter								
	% of	Market Value	Ending MV								Inception
	Composite	(mm)	(mm)	QTD	YTD	1 Year	3 Year	5 Year	10 Year	ITD	Date
Diversified Hedge Funds	100.0%	4,677	4,570	1.5%	3.4%	4.9%	7.0%			6.3%	Apr-2019
Diversified Hedge Funds Policy Benchmark				2.0%	5.6%	7.0%	4.2%			4.2%	
LACERA HF Direct	88.2%	4,125	4,066	1.4%	3.4%	4.9%	7.0%	6.2%		5.0%	Apr-2019
Custom Hedge Fund Benchmark				2.0%	5.6%	7.0%	4.2%	4.5%		4.7%	
AM Asia Strategies	4.9%	230	245	-6.3%	6.0%	3.9%				0.8%	Jun-2021
Brevan Howard Master Fund	13.5%	631	625	1.0%	-3.0%	-2.6%				5.2%	Apr-2021
Capula GRV	14.8%	694	676	2.8%	8.1%	10.9%	7.3%			7.2%	Dec-2018
Caxton Global Investments	6.1%	283	282	0.5%	-4.5%	-3.0%				5.2%	Feb-2021
DK Institutional Partners	10.8%	506	497	1.9%	4.1%	4.0%	5.1%	4.9%		4.8%	May-2018
HBK Multi-strategy	12.9%	604	586	3.1%	4.5%	8.8%	7.1%	6.1%		5.6%	Jun-2018
Hudson Bay	14.6%	684	672	1.9%	5.3%	6.8%	9.6%			9.8%	Jul-2020
Polar	10.5%	491	484	1.5%	5.2%	6.4%	6.6%			9.6%	May-2020
HF Emerging Managers Program	11.4%	532	480	2.4%	3.2%	5.0%				1.3%	Aug-2021
Custom Hedge Fund Benchmark				2.0%	5.6%	7.0%				4.8%	
Stable Asset Management	11.4%	532	480	2.4%	3.2%	5.0%				1.3%	Aug-2021
Stable Fund Investments	11.4%	532	480	2.5%	3.4%	5.3%				1.6%	Aug-2021
Amundsen	1.4%	63	61	4.3%	0.1%	4.6%				-1.3%	Sep-2021
ClearAlpha	2.0%	96	93	2.9%						2.9%	May-2023
Clear Sky	1.8%	86	88	-2.1%	-6.8%	-6.5%				-2.9%	Apr-2022
Linear B	1.6%	74	72	2.7%	5.9%	6.8%				6.8%	Aug-2021
Quarry	1.9%	88	82	6.4%	6.7%	5.9%				5.7%	Sep-2022
ShadowFall	0.9%	40	0							0.0%	Sep-2023
Sparta	1.1%	53	52	1.1%	10.9%	11.4%				2.6%	Sep-2021
Trutino	0.7%	33	32	1.6%	11.7%	25.1%				4.3%	Aug-2021



emerging manager program

Emerging Manager Program

L//.CERA

for the quarter ended September 30, 2023

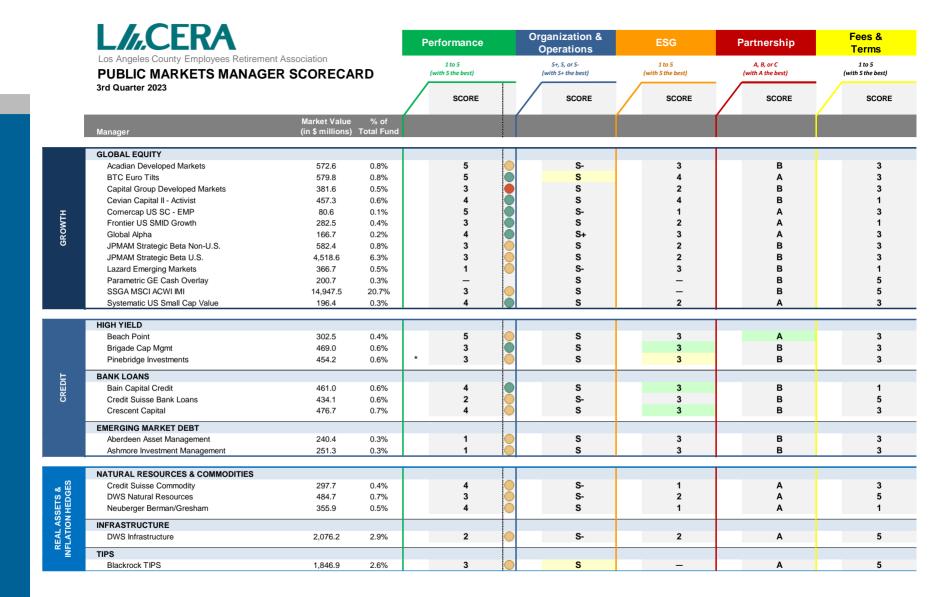
Los Angeles County Employees Retirement Association

Annualized Net Returns

	Ending							
	Market Value							
	(mm)	QTD	1 Year	3 Year	5 Year	ITD TWR	ITD MWR	Inception Date
Growth		-						
Global Equity								
Cornercap	80.6	-1.8%	10.9%	16.5%	6.1%	6.1%	6.1%	Oct-2018
Global Equity Policy Benchmark		-3.4%	20.2%	6.9%		7.4%	7.4%	
Private Equity								
Hamilton Lane Emerging Managers Program	4.9	80.1%				88.8%	55.7%	Mar-2023
J.P. Morgan Emerging Managers Program	62.0	0.8%	7.4%	27.6%	21.9%	25.4%	22.5%	Jan-2010
J.P. Morgan Emerging Managers Program II	68.0	0.4%	-8.3%	16.1%	6.9%	25.5%	35.8%	Apr-2014
J.P. Morgan Emerging Managers Program III	101.7	0.2%	-2.9%	28.3%	26.5%	27.4%	31.3%	Jan-2017
J.P. Morgan Emerging Managers Program IV	255.0	4.4%	8.7%	19.8%		18.3%	16.0%	Nov-2018
Total Private Equity Custom Benchmark		1.7%	13.0%	11.3%	12.6%	13.6%	13.6%	
Non-Core Private Real Estate								
Cityview Bay Area Fund II	76.0	0.0%	-9.5%	1.4%	1.1%		10.0%	Nov-2012
Cityview Western Fund I, L.P	222.1	0.2%	-1.9%	15.0%	18.4%	-46.7%	12.1%	Jul-2016
CVBAF II Union City Co-Invest	23.6	0.2%	-0.9%	4.9%	-0.3%	4.9%	5.1%	Dec-2015
Non-Core Private RE Policy Benchmark		-2.3%	-8.7%	9.7%	8.4%	10.9%	10.9%	
Credit								
Illiquid Credit								
Stable Asset Management - IC	65.2	2.1%				2.0%	3.6%	Nov-2022
Illiquid Credit Policy Benchmark		4.1%				16.4%	16.4%	
Real Assets & Inflation Hedges								
Core Private Real Estate								
Cityview Core I.M.A	169.4	0.1%	-18.5%	-0.6%	-0.6%	2.5%	2.6%	Jun-2014
Core Private RE Policy Benchmark		-2.9%	-10.7%	7.2%	5.9%	6.7%	6.7%	
Risk Reduction & Mitigation								
Hedge Funds								
Stable Asset Management	532.1	2.4%	5.0%			1.3%	2.5%	Aug-2021
Custom Hedge Fund Benchmark		2.0%	7.0%			4.8%	4.8%	



manager scorecards



	L//CERA Los Angeles County Employees Retireme PUBLIC MARKETS MANAGI		RD		erformance 1 to 5 (with 5 the best)		Öp	anization & operations S+, S, or S- ith S+ the best)	ESG 1 to 5 (with 5 the best)	A, B, or C with A the best)	Fees & Terms 1 to 5 (with 5 the best)
	3rd Quarter 2023				SCORE			SCORE	SCORE	SCORE	SCORE
	Manager	Market Value (in \$ millions)	% of Total Fund								
	INVESTMENT GRADE BONDS										
∘ఠ	Allspring/Wells	1,242.6	1.7%		5			S	3	В	5
O Z	BTC US Debt Index Fund	2,804.2	3.9%		4			S	_	В	5
ATIC	Pugh Capital Mgmt	826.7	1.1%		3			S	2	Α	3
ED E	LONG-TERM GOVERNMENT BONDS										
RISK REDUCTION & MITIGATION	BlackRock	2,791.6	3.9%	*	3			S	_	В	5
₽	CASH					1					
	SSGA Cash	617.4	0.9%		3			S	_	Α	5
ంద	OVERI AVO					į					
OVERLAYS & HEDGES	OVERLAYS Parametric Cash Overlay	352.6	0.5%		-			s	-	В	5
展青	HEDGES										
6	BTC Passive Currency Hedge	128.9	0.2%		_			S	_	В	5

Exceeds 3-Year Net Excess Return
Meets 3-Year Net Excess Return
Below 3-Year Net Excess Return

For Organization, ESG, and Partnership

Downgrade from the prior quarter

Upgrade from the prior quarter

Footnotes

Pillar methodologies in refinement and may evolve over time

Category Descriptions

Performance

Quarterly score based on Sharpe and Information Ratios, which provide insight into a manager's risk-adjusted performance and performance relative to its benchmark, respectively

'*' denotes a manager with an inception date of less than 3 years, resulting in a neutral score of 3

Circle icons reflect trailing 3-year net excess returns against the manager's benchmark above or below a specified range

Organization & Operations

Includes factors such as organization, professional staff, diversity & inclusion, investment philosophy & process, risk management, legal & compliance framework 'S' stands for Satisfactory

ESG

Evaluates the extent to which material ESG factors are identified, assessed, and incorporated into risk/return analysis and portfolio construction

- '- denotes passive index funds and cash where ESG scores are not relevant and/or reflect strategies that do not incorporate active decisions, including ESG considerations, in portfolio construction
- '+' denotes mandates where ESG scores are currently under review

Partnership

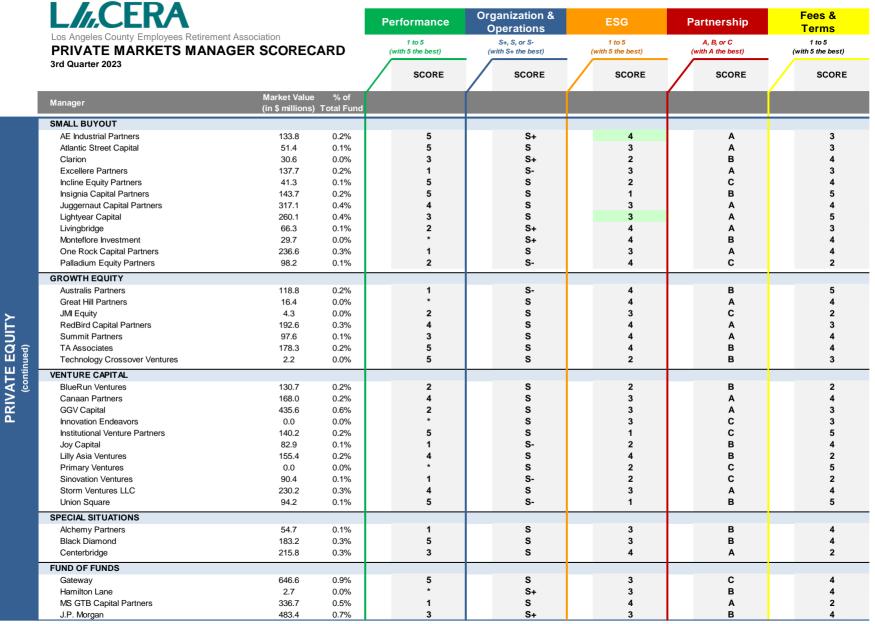
Blended score based on:

- Value added services e.g., providing education, distributing research, and performing analytics on portfolio
- Client service e.g., responsiveness, timeliness, competency, and approach
- Size of LACERA's investment relative to the firm's assets under management

Fees & Terms

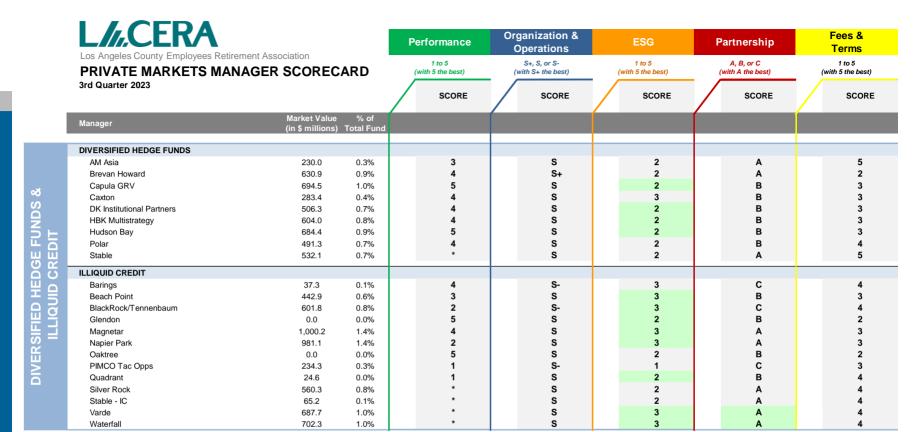
Compared to a benchmark of median fees by asset category and/or investment structure

L//CERA Los Angeles County Employees Retirement Ass	ociation		Pei	rformance	nization & erations		ESG	Pa	ırtnership		Fees & Terms
PRIVATE MARKETS MANAGEI		ARD	(w	1 to 5 ith 5 the best)	S+, S, or S- h S+ the best)	(w	1 to 5 vith 5 the best)	(w	A, B, or C rith A the best)		1 to 5 (with 5 the best)
3rd Quarter 2023				SCORE	SCORE		SCORE		SCORE	/	SCORE
Manager	Market Value (in \$ millions)	% of Total Fund									
GLOBAL/LARGE BUYOUT										<u> </u>	
Advent International Group	158.4	0.2%		4	S+		3		С		4
Blackstone Management	205.8	0.3%		2	S		4		В		5
CVC Capital Partners	551.3	0.8%		5	S		4		Α		4
Green Equity Investors	386.9	0.5%		5	S+		3		Α		4
Hellman & Friedman	477.4	0.7%		1	S+		3		В		4
MBK	315.1	0.4%		1	S		4		Α		2
Silver Lake Partners	589.0	0.8%		3	S+		3		Α		5
Thoma Bravo LLC	245.7	0.3%		*	S+		3		В		3
Vista Equity Partners	846.7	1.2%		3	S-		3		Α		2
MID-MARKET BUYOUT											
Accel-KKR Capital Partners	237.6	0.3%		2	S+		4		Α		3
Alpine Investors	0.0	0.0%		*	S+		3		В		2
BlackFin Capital Partners	65.0	0.1%		1	S		3		В		3
Carlyle Group	204.8	0.3%		3	S+		4		В		4
Clearlake Capital	536.1	0.7%		5	S		4		Α		4
GHO Capital	119.6	0.2%		*	S		3		Α		3
Gilde Partners	36.0	0.0%		5	S		2		Α		5
Harvest Partners	58.8	0.1%		5	S		1		С		3
Marlin Equity	25.7	0.0%		1	S-		2		С		3
Novacap	24.0	0.0%		*	S		3		В		3
Onex Partners	320.1	0.4%		2	S		4		Α		5
PAI	181.1	0.3%		4	S-		2		В		4
Revelstoke	177.5	0.2%		3	S		4		Α		2
Riverside Capital	107.8	0.1%		1	S		3		В		3
Siris Capital Group	164.0	0.2%		2	S		3		В		4
Sterling Partners	137.5	0.2%		4	S		3		Α		4
STG Partners	82.9	0.1%		*	s		3		Α		3
Triton	161.9	0.2%		5	S-		3		С		5
TSG	2.7	0.0%		*	S+		3		С		2
Veritas Capital	81.8	0.1%		*	S+		3		В		3
Vinci Partners	94.5	0.1%		3	S		4		В		5
Webster Equity Partners	93.5	0.1%		*	S		3		В		3
Wynnchurch Capital	63.1	0.1%		*	S+		3		С		3



	L///CERA Los Angeles County Employees Retirement Ass	ociation		Pe	rformance		ganization & Operations		ESG	Pa	artnership	Fees & Terms
	PRIVATE MARKETS MANAGER		RD	(и	1 to 5 vith 5 the best)	(v	S+, S, or S- with S+ the best)	(wi	1 to 5 th 5 the best)	(w	A, B, or C tith A the best)	1 to 5 (with 5 the best)
	3rd Quarter 2023				SCORE		SCORE		SCORE		SCORE	SCORE
	Manager	Market Value (in \$ millions)	% of Total Fund									
	COMMINGLED FUNDS											
	AERMONT Real Estate Fund IV	32.2	0.0%		3		S		4		В	3
	AEW Value Investors Asia III	28.9	0.0%		1		S		4		В	4
	AG Asia Realty Fund IV	73.1	0.1%		4		S		3		В	3
	AG Europe Realty Fund II	44.4	0.1%		3		S		3		В	3
	Bain Capital Real Estate Fund I	77.6	0.1%		5		S		3		Α	3
	Bain Capital Real Estate Fund II	52.5	0.1%		*		S		3		Α	3
	Blackstone Real Estate Partners Fund X	11.3	0.0%		*		S		3		В	3
	Brookfield Strategic Real Estate Partners Fund IV	159.5	0.2%		*		S		3		В	3
	CapMan Nordic Real Estate Fund II	41.7	0.1%		1		S		4		Α	3
	CapMan Nordic Real Estate Fund III	36.3	0.1%		*		S		4		Α	3
	CBRE US Core Partners	99.7	0.1%		*		S+		3		Α	5
	CityView Bay Area Fund II	71.0	0.1%		1		S-		3		В	3
ш	CityView Western Fund I, L.P.	234.0	0.3%		5		S-		3		В	3
ESTAT	Core Property Index Fund	114.5	0.2%		3		S		2		Α	5
_	Europa Fund IV	11.9	0.0%		1		S-		3		С	2
ဟ	Heitman Asia-Pacific Property Investors	31.8	0.0%		2		S		3		В	4
	Invesco Real Estate Asia Fund	150.2	0.2%		2		S		4		В	5
EAL	Prologis European Logistics Fund (PELF)	188.5	0.3%		2		S		4		Α	1
⋖	RREEF Core Plus Industrial Fund (CPIF)	287.4	0.4%		5		S-		3		В	5
2	Starwood Capital Hospitality Fund	6.3	0.0%		4		S		3		С	3
	TPG Real Estate Partners III	38.2	0.1%		4		S		2		В	3
	TPG Real Estate Partners IV	4.1	0.0%		*		S		2		В	3
	SEPARATE ACCOUNTS											
	Cityview Core I.M.A.	169.1	0.2%		2		S-		3		В	2
	Clarion I.M.A.	495.2	0.7%		5		S		3		Α	4
	Clarion Takeover Core IMA	322.0	0.4%		*		S		3		Α	4
	Clarion Takeover Value IMA	8.6	0.0%		*		S		3		Α	3
	Heitman I.M.A.	374.7	0.5%		4		S		3		В	4
	RREEF Core/High Return I.M.A. III	1,251.2	1.7%		2		S-		3		С	5
	RREEF Takeover I.M.A.	0.1	0.0%		2		S-		3		С	4
	Stockbridge I.M.A.	622.3	0.9%		3		s		2		В	4
	Stockbridge High I.M.A. Vintage 2014	59.1	0.1%		*		S		2		В	5
	Stockbridge Value I.M.A. Vintage 2014	24.6	0.0%		*		S		2		В	3

	L//CERA Los Angeles County Employees Retirement A	Association		Pe	erformance		anization & perations	ESG	Р	artnership		Fees & Terms
	PRIVATE MARKETS MANAGER SCORECARD 3rd Quarter 2023		<u>(</u>	1 to 5 with 5 the best)	(w	S+, S, or S- ith S+ the best)	1 to 5 (with 5 the best)	(1	A, B, or C with A the best)	(1 to 5 with 5 the best)	
				SCORE		SCORE	SCORE		SCORE		SCORE	
	Manager	Market Value (in \$ millions)	% of Total Fund									
	NATURAL RESOURCES & COMMODITIES											
	Appian III	2.2	0.0%		*		S	3		В		3
	Ara III	0.0	0.0%		*		S	4		В		3
	Cibus Enterprise II	4.1	0.0%		*		S	3		В		3
	Cibus Fund II	28.7	0.0%		*		S	3		В		3
	EMG	80.9	0.1%		2		S	3		В		1
ည	HiTecVision	99.2	0.1%		*		S	3		Α		3
10	Orion Mine Finance Onshore III	149.6	0.2%		*		S	4		В		4
S	Orion Mineral Royalty Fund I	27.9	0.0%		*		S	4		В		4
e) (e)	Sprott	44.4	0.1%		*		S	3		В		5
tat	TIAA-CREF Global Agriculture	301.9	0.4%		5		S+	4		Α		5
AL Es	TIAA-CREF Global Agriculture II	277.2	0.4%		5		S+	4		Α		5
TE REAL ASSET (ex. Real Estate)	INFRASTRUCTURE											
&	Antin Mid Cap	48.9	0.1%		*		S	3		В		2
Ш×	Axium Infrastructure Canada II	149.8	0.2%		*		S	4		Α		3
A S	Axium Infrastructure US II	267.8	0.4%		*		S	4		Α		3
PRIVATE (ex. F	DIF CIF III	45.8	0.1%		*		S	3		Α		4
₩.	DIF Infrastructure VI	123.0	0.2%		4		S	3		Α		2
<u> </u>	Grain Communications Opportunity Fund III	41.1	0.1%		*		S-	3		С		2
	Grain Spectrum Holdings III	70.5	0.1%		3		S-	3		С		2
	Guardian Smart Infrastructure	0.0	0.0%		*		S	3		В		4
	KKR Diversified Core Infrastructure Fund	514.6	0.7%		*		S	3		В		4
	Macquarie Global Infrastructure Fund	413.8	0.6%		*		S	3		Α		4
	Pan-European Infrastructure Fund III	74.9	0.1%		2		S-	3		В		3
	Partners Group Direct Infrastructure 2020	104.3	0.1%		*		S	3		Α		3



For Organization, ESG, and Partnership

Downgrade from the prior quarter

Upgrade from the prior quarter

Footnotes

Pillar methodologies in refinement and may evolve over time

Category Descriptions

Performance

Quarterly score based on risk-adjusted performance metrics over time

'*' denotes a manager with an inception date of less than 3 years

Organization & Operations

Includes factors such as organization, professional staff, investment philosophy & process, risk management, legal & compliance framework, diversity & inclusion 'S' stands for Satisfactory

ESG

Evaluates the extent to which material ESG factors are identified, assessed, and incorporated into risk/return analysis and portfolio construction

'+' denotes mandates where ESG scores are currently under review

Partnership Assesses the o

Assesses the quality of investment manager relationships both quantitatively and qualitatively

Fees & Terms

Compares various fees and terms within each asset category, strategy and/or investment structure



appendix

Summary

Securities Lending Income

for the quarter ended September 30, 2023



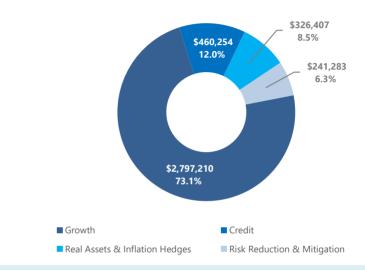
Earnings by Quarter



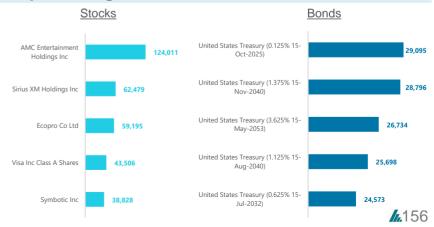
Top Earning Funds

	% of Total	Total	Cash	Non-Cash
	Fund Earnings	Earnings	Earnings	Earnings
SSGA MSCI ACWI IMI	53.3%	2,039,120	1,407,508	631,612
JPMAM Strategic Beta US	10.4%	399,472	333,095	66,377
BlackRock TIPS	7.3%	279,373	51,340	228,033
Blackrock Long Tresury Bonds	6.5%	248,362	57,951	190,411
Frontier US SMID Growth	4.6%	176,723	132,844	43,879

Earnings by Functional Category



Top Earning Securities



for the quarter ended September 30, 2023



Growth

	Average Market Value (\$ mm)	Fees ¹	Annualized Effective Rate (bps)
Active			
Acadian Asset Management	\$589.2	\$553,093	37.5
BTC Europe Alpha Tilts	\$584.5	\$515,681	35.3
Capital Guardian	\$403.2	\$349,638	34.7
Cevian Capital	\$460.4	\$1,266,494	110.0
CornerCap	\$84.1	\$110,787	52.7
Frontier Capital Management	\$300.9	\$564,096	75.0
Global Alpha	\$176.4	\$314,206	71.2
Lazard Asset Management	\$385.0	\$615,051	63.9
Parametric GE Market Cap	\$974.5	\$64,833	2.7
Parametric GE Region	\$598.0	\$39,784	2.7
Systematic	\$203.7	\$280,036	55.0
Subtotal:	\$4,759.9	\$4,673,700	39.3
Factor-Based			
JPMAM Strategic Beta Non-US	\$602.2	\$50,859	3.4
JPMAM Strategic Beta US	\$4,690.0	\$396,060	3.4
Subtotal:	\$5,292.2	\$446,919	3.4
Passive			
SSGA MSCI ACWI IMI	\$15,605.1	\$285,032	0.7
Subtotal:	\$15,605.1	\$285,032	0.7

¹ Reflects estimated investment management fees.





Credit

	Average Market Value (\$ mm)	Fees ¹	Annualized Effective Rate (bps)
Liquid Credit			
Aberdeen Standard Investments	\$276.2	\$275,550	39.9
Ashmore Investment Management	\$251.3	\$322,887	51.4
Bain Capital	\$461.0	\$609,644	52.9
Beach Point Capital	\$303.8	\$341,788	45.0
Brigade Capital Management	\$470.2	\$501,499	42.7
Credit Suisse Bank Loan	\$500.1	\$275,028	22.0
Crescent Capital Group	\$475.2	\$556,485	46.8
Pinebridge	\$456.8	\$376,892	33.0
Subtotal:	\$3,194.7	\$3,259,772	40.8





Real Assets & Inflation Hedges

	Average Market Value (\$ mm)	Fees ¹	Annualized Effective Rate (bps)
Natural Resources & Commodities			
Credit Suisse	\$300.9	\$203,042	27.0
DWS Natural Resources	\$489.2	\$229,108	18.7
Neuberger Berman/Gresham	\$352.7	\$329,312	37.3
Subtotal:	\$1,142.8	\$761,462	26.7
Infrastructure			
DWS Infrastructure	\$2,242.4	\$1,050,103	18.7
Subtotal:	\$2,242.4	\$1,050,103	18.7
Treasury Inflation-Protected Securities			
BlackRock TIPS	\$1,875.9	\$47,283	1.0
Subtotal:	\$1,875.9	\$47,283	1.0

for the quarter ended September 30, 2023



Risk Reduction & Mitigation

	Average Market Value (\$ mm)	Fees ¹	Annualized Effective Rate (bps)
Investment Grade Bonds			
Allspring/Wells	\$1,266.7	\$335,833	10.6
Pugh Capital Management	\$843.0	\$282,352	13.4
Subtotal: ²	\$4,968.8	\$679,441	5.5
Long-Term Government Bonds			
BlackRock	\$2,900.9	\$72,483	1.0
Subtotal:	\$2,900.9	\$72,483	1.0
Cash			
SSGA Cash	\$765.4	\$76,542	4.0
Subtotal:	\$765.4	\$76,542	4.0

¹ Reflects estimated investment management fees.

² Includes BTC US Debt Index account.

for the quarter ended September 30, 2023



Overlays & Hedges

	Average Market Value (\$ mm)	Fees ¹	Annualized Effective Rate (bps)
Overlays			
Parametric Cash Overlay	\$2,132.5	\$141,878	2.7
Subtotal:	\$2,132.5	\$141,878	2.7
Hedges			
BlackRock Developed Markets Currency Hedge	\$7,179.3	\$271,437	1.5
Subtotal:	\$7,179.3	\$271,437	1.5



Current Composition

	MA - 1 - 1 - 4	•
	Weight	Component
Total Fund		
Total Fund Policy Benchmark		
	53%	Growth Policy Benchmark
	11%	Credit Policy Benchmark
	17%	RA & IH Policy Benchmark
		·
	19%	RR & M Policy Benchmark
Growth		
Growth Policy Benchmark		
	60%	Global Equity Policy Benchmark
	32%	Private Equity – Growth Policy BM
	8%	Non-Core Private RE Policy Benchmark
Global Equity Policy Benchmark		, and the second
	100%	MSCI ACWI IMI Net
Private Equity – Growth Policy BM		
	100%	MSCI ACWI IMI Net + 200 bps (3-month lagged)
Non-Core Private RE Policy Benchmark		
	100%	NFI ODCE + 225 bps (3-month lagged)



Current Composition

	Weight	Component
Credit		
Credit Policy Benchmark		
	36% 64%	Liquid Credit Policy Benchmark Illiquid Credit Policy Benchmark
Liquid Credit Policy Benchmark		
	40% 40% 10% 5% 5%	Bloomberg U.S. Corporate High Yield CS Leveraged Loan Index JPMorgan EMBI Global Diversified Index JPM GBI-EM Global Diversified Index JPM CEMBI Broad Diversified
Illiquid Credit Policy Benchmark		
	100%	Liquid Credit Policy BM + 150 bps (1-month lagged)
Bank Loans Custom Benchmark	100%	CS Leveraged Loan Index
Beachpoint Custom Benchmark	100%	Bloomberg U.S. Corporate High Yield
Brigade Custom Index	100%	Bloomberg U.S. Corporate High Yield
EMD Custom Benchmark	50% 25% 25%	JPMorgan EMBI Global Diversified Index JPM CEMBI Broad Diversified JPM GBI-EM Global Diversified Index

Benchmark Definitions



Current Composition

	Weight	Component
Real Assets & Inflation Hedges		
RA & IH Policy Benchmark		
	35% 18% 29% 18%	Core Private RE Policy Benchmark Nat Res & Comm Policy Benchmark DJ Brookfield Global Infra Comp Bloomberg U.S. Treasury: U.S. TIPS
Core Private RE Policy Benchmark		
	100%	NFI ODCE (3-month lagged)
Nat Res & Comm Policy Benchmark		
	33% 66%	Bloomberg Commodity Index Total Return S&P Global Natural Resources Index
	00%	S&P Global Natural Resources Index
Private Equity – Real Assets Custom BM	100%	S&P Glb LargeMidCap Commod & Resources (3-month lagged)
Private Infrastructure Custom BM	100%	DJ Brookfield Global Infra Comp (3-month lagged)
Risk Reduction & Mitigation		
RR & M Policy Benchmark		
	37%	Bloomberg U.S. Aggregate
	32%	Diversified Hedge Funds Policy Benchmark
	26%	Bloomberg U.S. Treasury: Long
	5%	FTSE 3-Month US Treasury Bill
Diversified Hedge Funds Policy Benchmark		
	100%	FTSE 3-Month US Treasury Bill + 250 bps (1-month lagged)
Cash Policy Benchmark		
	100%	FTSE 3-Month US Treasury Bill
Custom Hedge Fund BM	100%	Diversified Hedge Funds Policy Benchmark



A

ANNUAL RETURN

The total return of a security over a specified period, expressed as an annual rate of interest.

ACTIVE RISK

The expected standard deviation of the differential return between the portfolio and the benchmark. Active total risk arises from active management, and it is the result of active weights (deviations from the benchmark at the asset level) and therefore active exposures; for passively managed portfolios, it is referred to as "total tracking error."

ACTIVE RISK CONTRIBUTION

Percent contribution to active total risk (or tracking error). The percent of active total risk that an individual asset or risk source contributes. For example, a % CR to Active Total Risk of 10% indicates that 10% of the portfolio's active total risk is arising from the active position in that particular asset.

B

BASIS POINTS (BPS)

One one-hundredth of one percent. One hundred basis points equal one percent.

BETA

A measure of the volatility of a stock relative to the overall market. A beta of less than one indicates lower risk than the market; a beta of more than one indicates higher risk than the market. D

DURATION

A measure of the price sensitivity of a bond portfolio to changes in interest rates.

DISTRIBUTED TO PAID-IN (DPI)

A measure of distributions received relative to contributed capital.



F

FUTURES CONTRACT

Agreement to buy or sell a specific amount of a commodity or financial instrument at a particular price and a stipulated future date.



HIGH YIELD BOND

A bond with a low investment quality and credit worthiness, usually with a rating of BB or less.



INFORMATION RATIO

The excess return (alpha) per unit of active risk (tracking error).

INTERNAL RATE OF RETURN (IRR)

A total rate of return that gives full weight to the size and timing of cash flows over the period measured and fully reflects unrealized gains and losses in addition to realized gains and losses, interest and dividend income. K

KAPLAN & SCHOAR PUBLIC MARKET EQUIVALENT (KS-PME)

A ratio that benchmarks the performance of a fund against an appropriate public market index while accounting for the timing of a fund's cash flows.

M

MC TO TOTAL TRACKING ERROR

This value represents the change in the active risk of an asset's portfolio or group that would result from a one percent increase in the asset's effective position plus an equal short position in the benchmark.

S

SHARPE RATIO

Measures the performance of an investment compared to a risk-free asset, after adjusting for its risk. It is the difference between the returns of the investment and the risk-free return, divided by the standard deviation of the investment.

STANDARD DEVIATION

Statistical measure of the degree to which an individual value in a probability distribution tends to vary from the mean of the distribution. The greater the degree of dispersion, the greater the risk.



Т

TIME-WEIGHTED RATE OF RETURN (TWR)

A measure of the compound rate of growth in a portfolio. Often used to compare the returns of investment managers because it eliminates the distorting effects on growth rates created by inflows and outflows of money.

TOTAL RISK

The total (gross) risk to an asset (or portfolio), which is the standard deviation of the asset's total return distribution, expressed in percent. Total risk is forecasted using MSCI Barra's multiple factor models. The total risk for an asset depends on the asset's exposures to the risk factors, the factor variance/covariance matrix, and the forecast selection risk of the asset.

TOTAL RISK CONTRIBUTION

The percent of total risk that an individual asset or risk source contributes. For example, a % CR to Total Risk of 10% indicates that 10% of the portfolio's total risk is arising from the portfolio's position in that particular asset.

TOTAL VALUE TO PAID-IN (TVPI)

A measure of total value created relative to capital invested.

TRACKING ERROR

The volatility of a manager's excess return. It is measured by subtracting the benchmark return from the manager's return and calculating the standard deviation.



YIELD TO MATURITY

The return a bond earns on the price at which it was purchased if it were held to maturity. It assumes that coupon payments can be reinvested at the yield to maturity.