

## Executive Summary of Performance for

California Public Employees' Retirement System

Judges II

Legislators' Fund

Long-Term Care

California Employers' Retiree Benefit Trusts

California Employers' Pension Prefunding Trust

Health Care Fund

Supplemental Income Plans

Fourth Quarter 2021

FOURTH QUARTER 2021

# Quarterly Market Commentary

## Market Dashboard

Multi-Asset	MTD (%)	QTD (%)	YTD (%)	1Y (%)
Global 60/40 (ACWI/U.S. Core Bonds)	2.30	4.02	10.20	10.20
Wilshire Risk Parity Index <sup>SM</sup> – 12% Volatility	2.73	5.26	15.12	15.12

Source: Bloomberg. Indexes are total return.

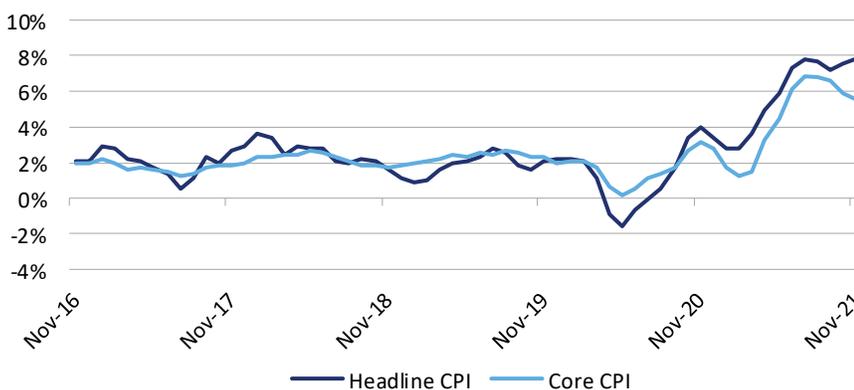
Strategic Allocation Themes	MTD (%)	QTD (%)	YTD (%)	1Y (%)
Growth <sup>i</sup>	4.00	6.68	18.54	18.54
Defensive Growth <sup>ii</sup>	3.45	3.76	11.05	11.05
Diversified Credit <sup>iii</sup>	1.49	0.22	2.26	2.26
Real Assets <sup>iv</sup>	4.65	5.88	23.61	23.61
Defensive <sup>v</sup>	(0.26)	0.01	(1.54)	(1.54)

Source: Bloomberg. Indexes are total return.

## Quarterly Insight

Sharply rising inflation will likely be remembered as the economic story of 2021. Increases in CPI have reached rates not seen in 40 years. Food and energy prices are up meaningfully, but so too are the major “core” CPI items of automobiles and apparel. Consumers’ ability to manage this period will help determine whether the U.S. can continue its economic progress. The employment picture is quite strong, including an unemployment rate approaching 4% and continued above-trend growth in wages. However, the personal savings rate has fallen to a level last seen in late-2017, suggesting that consumers are saving less as they adjust to rising prices. Inflation and new COVID variants are likely behind depressed consumer sentiment surveys.

### Inflation Rate (6-months Annualized)



Source: Bloomberg

## Economic highlights

**GDP:** Real GDP growth slowed during the third quarter, up an annualized 2.3%. The main drivers of growth were private investment (up 12.4%) and personal consumption (up 2.0%). Imports continue to rise while exports fell during the quarter, the net effect being a drag on economic growth of -1.3%. The Atlanta Fed’s GDPNow forecast for the fourth quarter currently stands at 7.6%.

Source: Bureau of Economic Analysis

**Interest Rates:** The Treasury curve rose meaningfully in the short end during the fourth quarter, while longer term rates were down. The 10-year Treasury closed at 1.51%, up two basis points since September. The 10-year real yield (i.e., net of inflation) fell 21 basis points to -1.10%. The Federal Open Market Committee left the Fed Funds rate unchanged this quarter. At the December meeting, the committee’s median outlook moved to three, 25 basis point increases in the overnight rate by the end of 2022.

Source: U.S. Treasury

**Inflation:** Consumer price changes have accelerated rapidly as the Consumer Price Index jumped 2.1% for the three months ending November. For the one-year period, the CPI is up 6.9%. The 10-year breakeven inflation rate increased to 2.59% in December versus 2.38% in September.

Source: Dept. of Labor (BLS), U.S. Treasury

**Employment:** Jobs growth has been quite strong this year, with an average of 378k jobs/month added during the three months ending in November. The unemployment rate continued to fall, dropping to 4.2%. Reported job openings continue to rise and are now above the number of unemployed persons.

Source: Dept. of Labor (BLS)

**Housing:** Low borrowing rates and a shortage of properties have driven home prices to record highs. The S&P Case-Shiller 20-city Home Price Index was up 3.0% and 18.4%, respectively, for the three- and 12-months ending October.

Source: Standard & Poor’s

## U.S. Economy and Markets

The U.S. stock market, represented by the FT Wilshire 5000 Index<sup>SM</sup>, was up 9.58% for the fourth quarter of 2021. Nearly all sectors were in positive territory, with Real Estate (+14.7%), Information Technology (+14.6%) and Materials (+14.4%) representing the best performing sectors. The only sector that was negative this quarter was Communication Services (-0.8%). From a size perspective, large-cap outperformed small-cap during the quarter. Growth stocks outperformed value within the large-cap segment of the market but underperformed in small-caps, while large-growth was the best performing market segment overall.

U. S. Equity	MTD (%)	QTD (%)	YTD (%)	1Y (%)
FT Wilshire 5000 Index <sup>SM</sup>	3.89	9.58	26.70	26.70
Standard & Poor's 500	4.48	11.03	28.71	28.71
Wilshire 4500 Completion Index <sup>SM</sup>	1.24	1.73	16.02	16.02
MSCI USA Minimum Volatility	6.79	10.41	21.01	21.01

Source: Bloomberg. Indexes are total return.

U. S. Equity by Size/Style	MTD (%)	QTD (%)	YTD (%)	1Y (%)
Wilshire US Large-Cap Index <sup>SM</sup>	3.97	10.24	27.46	27.46
Wilshire US Large-Cap Growth Index <sup>SM</sup>	2.24	11.56	28.86	28.86
Wilshire US Large-Cap Value Index <sup>SM</sup>	6.36	8.56	24.53	24.53
Wilshire US Small-Cap Index <sup>SM</sup>	3.23	3.28	19.17	19.17
Wilshire US Small-Cap Growth Index <sup>SM</sup>	1.67	1.78	10.12	10.12
Wilshire US Small-Cap Value Index <sup>SM</sup>	4.82	4.81	29.24	29.24
Wilshire US Micro-Cap Index <sup>SM</sup>	(1.56)	(8.36)	14.50	14.50

Source: Bloomberg. Indexes are total return.

GICS sector returns	MTD (%)	QTD (%)	YTD (%)	1Y (%)
Communication Services	2.12	(0.77)	20.40	20.40
Consumer Discretionary	(0.70)	11.11	23.47	23.47
Consumer Staples	9.87	12.39	17.81	17.81
Energy	2.60	6.36	56.35	56.35
Financials	3.00	4.82	35.45	35.45
Health Care	7.65	8.44	21.46	21.46
Industrials	4.64	8.04	19.57	19.57
Information Technology	2.62	14.61	30.85	30.85
Materials	7.15	14.37	27.86	27.86
Real Estate	9.60	14.74	40.39	40.39
Utilities	9.46	13.27	17.55	17.55

Source: Wilshire Atlas. Indexes are total return.

Large-Cap Growth was the best performing segment, up 11.6% this quarter

## International Economy and Markets

Performance results within international equity markets were mixed for the second straight quarter, with meaningful differences in return between developed and emerging markets. The MSCI EAFE Index was up 2.2% for the past six months, while the MSCI Emerging Markets Index was down -9.3%. The main sources of weakness were China, South Korea and Brazil. In China, the real estate market, which accounts for nearly a third of China’s GDP, has been experiencing a major slump and developers are heavily indebted. While their economic growth forecasts are on the decline, the economy is still expected to expand in 2021. In Europe, Germany is the area’s largest economy and is facing a potential recession as supply issues and new coronavirus cases weigh on growth. Germany’s Ifo Institute for Economic Research has forecasted a 0.5% drop in growth during the fourth quarter, with more weakness to begin 2022. Growth has slowed in the U.K., as well, and is expected to face additional headwinds.

Heavily indebted real estate developers in China are facing a major slump in prices

Non-U.S. Equity	MTD (%)	QTD (%)	YTD (%)	1Y (%)
MSCI ACWI	4.00	6.67	18.54	18.54
MSCI ACWI ex USA	4.13	1.82	7.82	7.82
MSCI ACWI ex USA Minimum Volatility	4.00	2.74	9.54	9.54
MSCI EAFE	5.12	2.69	11.26	11.26
MSCI Emerging Markets	1.88	(1.31)	(2.54)	(2.54)
MSCI ACWI ex USA Small Cap	4.23	0.62	12.93	12.93

Source: Bloomberg. Indexes are total return.

Non-U.S. Equity (local currency)	MTD (%)	QTD (%)	YTD (%)	1Y (%)
MSCI ACWI	3.71	7.03	20.90	20.90
MSCI ACWI ex USA	3.39	2.69	13.04	13.04
MSCI ACWI ex USA Minimum Volatility	3.54	3.20	13.71	13.71
MSCI EAFE	4.31	3.91	18.70	18.70
MSCI Emerging Markets	1.48	(0.91)	(0.19)	(0.19)
MSCI ACWI ex USA Small Cap	3.46	1.69	19.05	19.05

Source: Bloomberg. Indexes are total return.

## Fixed Income Markets

The U.S. Treasury yield curve was up 45 basis points in the short end (at the 2-year maturity) but down in the long end of the curve. The 10-year Treasury yield ended the quarter at 1.51%, up two basis points from September. Investment-grade credit spreads widened during the quarter, but the spread on the broad high yield tightened, closing the quarter at 2.83%. The Federal Open Market Committee met twice during the quarter, as scheduled, with no change to their overnight rate. Through the Fed’s “dot plot,” they are messaging that the current intent is for three 25 basis point increases in the overnight rate before the end of 2022. Their median forecast for year-end 2023 is for a Fed funds rate of 1.625%. During the December meeting, the committee announced that it would begin to reduce (i.e., taper) the monthly

pace of its asset purchases starting in January. Despite previously labeling increased inflation as “transitory,” Fed chair Jerome Powell acknowledged that increases have spread to a broader range of goods and that inflation may now be “more persistent.”

U.S. Fixed Income	MTD (%)	QTD (%)	YTD (%)	1Y (%)
Bloomberg U.S. Aggregate	(0.26)	0.01	(1.54)	(1.54)
Bloomberg Long Term Treasury	(1.42)	3.08	(4.65)	(4.65)
Bloomberg Long Term Corporate	(0.43)	1.47	(1.13)	(1.13)
Bloomberg U.S. TIPS	0.32	2.36	5.96	5.96
Bloomberg U.S. Credit	(0.08)	0.22	(1.08)	(1.08)
Bloomberg U.S. Corporate High Yield	1.87	0.71	5.28	5.28
S&P/LSTA Leveraged Loan	0.64	0.75	5.20	5.20

Source: Bloomberg. Indexes are total return.

Market Rates	Dec 31	Sept 30	June 30	Mar 31
10-Year Treasury	1.51	1.49	1.47	1.74
10-Year Breakeven Inflation	2.59	2.38	2.34	2.37

Source: Bloomberg. Indexes are total return.

Global Fixed Income	MTD (%)	QTD (%)	YTD (%)	1Y (%)
Bloomberg Global Aggregate	(0.14)	(0.67)	(4.71)	(4.71)
Bloomberg Global Aggregate (Hdg)	(0.41)	0.04	(1.39)	(1.39)
Bloomberg EM LC Gov't Universal	0.70	0.36	(1.15)	(1.15)
Bloomberg EM LC Gov't Universal (Hdg)	(0.09)	(0.47)	(1.58)	(1.58)

Source: Bloomberg. Indexes are total return.

Long-term bond prices were up as rates fell in the long portion of the curve

## Real Asset Markets

Real estate securities were up during the fourth quarter in both the U.S. and abroad. Commodity results were negative for the quarter, although crude oil was up slightly, 0.2% to \$75.21 per barrel. Commodities were quite strong for 2021, up broadly more than 27%. Natural gas prices rose dramatically during 2021, increasing by more than 100% during a six month period. Prices were down by -36%, however, during the fourth quarter, ending at \$3.73 per million BTUs. Gold prices were volatile in 2021 and were up 4.2% during the quarter, finishing at approximately \$1,829 per troy ounce.

Real Assets	MTD (%)	QTD (%)	YTD (%)	1Y (%)
Wilshire US Real Estate Securities Index <sup>SM</sup>	8.86	17.15	46.11	46.11
Wilshire Global Real Estate Securities Index <sup>SM</sup>	7.38	13.12	34.05	34.05
FTSE Global Core Infrastructure 50/50	7.36	7.72	15.71	15.71
Alerian Midstream Energy	1.13	(0.35)	38.42	38.42
Bloomberg Commodity	3.53	(1.56)	27.11	27.11
Gold	3.08	4.11	(3.64)	(3.64)
Bit coin	(18.91)	6.67	59.79	59.79

Source: Bloomberg. Indexes are total return.

## Alternatives

Liquid alternative managers posted a positive quarter, though sub-strategy performance was mixed. Equity Hedge managers led the way for the Index, posting strong returns for the quarter despite a difficult environment in late November. Multi-strategy managers also performed positively for the quarter. Global Macro managers struggled during the quarter as many managers struggled to navigate reversals and choppy trading environments in multiple asset classes, most notably equities and commodities. Event Driven managers also posted small losses for the quarter, with tightening deal spreads and elevated merger activity outweighed by the equity sell-off in late November. Relative Value managers ended the quarter in negative territory as rising yields had a negative impact on most credit markets.

Global macro managers struggled to navigate choppy trading environments

Alternatives	MTD (%)	QTD (%)	YTD (%)	1Y (%)
Wilshire Liquid Alternative Index <sup>SM</sup>	0.71	0.57	4.68	4.68
Wilshire Liquid Alternative Equity Hedge Index <sup>SM</sup>	1.89	3.25	12.75	12.75
Wilshire Liquid Alternative Event Driven Index <sup>SM</sup>	0.03	(0.35)	2.04	2.04
Wilshire Liquid Alternative Global Macro Index <sup>SM</sup>	0.33	(1.33)	2.67	2.67
Wilshire Liquid Alternative Multi-Strategy Index <sup>SM</sup>	0.78	0.91	5.32	5.32
Wilshire Liquid Alternative Relative Value Index <sup>SM</sup>	0.15	(0.65)	0.43	0.43

Source: Bloomberg. Indexes are total return.

# SUMMARY REVIEW OF PLANS

Period Ended December 31, 2021

	Asset Value					
	(\$Million)	Quarter	1-Year	3-Year	5-Year	10-Year
<b>CalPERS PERF</b>	<b>\$ 500,711.7</b>	<b>4.7%</b>	<b>13.3%</b>	<b>14.3%</b>	<b>10.8%</b>	<b>9.7%</b>
CalPERS PERF Policy Benchmark <sup>1</sup>		4.1%	12.1%	13.9%	10.7%	9.7%
Actuarial Rate		1.7%	6.9%	7.0%	7.2%	7.3%
<b>Affiliate Funds:</b>						
<b>Judges I</b>	<b>\$ 57.3</b>	<b>0.0%</b>	<b>0.1%</b>	<b>1.0%</b>	<b>1.2%</b>	<b>0.7%</b>
91-Day Treasury Bill		0.0%	0.0%	1.0%	1.1%	0.6%
<b>Judges II</b>	<b>\$ 2,522.8</b>	<b>4.5%</b>	<b>12.3%</b>	<b>15.4%</b>	<b>10.8%</b>	<b>9.3%</b>
Weighted Policy Benchmark		4.5%	12.1%	15.1%	10.5%	9.0%
<b>Legislators' Retirement System</b>	<b>\$ 122.9</b>	<b>3.1%</b>	<b>7.7%</b>	<b>11.5%</b>	<b>8.0%</b>	<b>6.8%</b>
Weighted Policy Benchmark		3.1%	7.6%	11.4%	7.8%	6.5%
<b>Long-Term Care ("LTC")</b>	<b>\$ 5,623.0</b>	<b>2.9%</b>	<b>7.9%</b>	<b>10.7%</b>	<b>7.2%</b>	<b>5.8%</b>
Weighted Policy Benchmark		2.9%	7.4%	10.6%	7.1%	5.6%
<b>CERBT Strategy 1</b>	<b>\$ 14,783.8</b>	<b>4.9%</b>	<b>13.7%</b>	<b>16.2%</b>	<b>11.2%</b>	<b>9.5%</b>
CERBT Strategy 1 Policy Benchmark		4.8%	13.5%	16.0%	10.9%	9.2%
<b>CERBT Strategy 2</b>	<b>\$ 2,010.2</b>	<b>3.9%</b>	<b>10.1%</b>	<b>13.7%</b>	<b>9.6%</b>	<b>8.1%</b>
CERBT Strategy 2 Policy Benchmark		3.9%	10.0%	13.6%	9.3%	7.8%
<b>CERBT Strategy 3</b>	<b>\$ 879.9</b>	<b>3.1%</b>	<b>7.7%</b>	<b>11.5%</b>	<b>7.9%</b>	<b>6.6%</b>
CERBT Strategy 3 Policy Benchmark		3.1%	7.6%	11.4%	7.7%	6.3%
<b>CEPPT Strategy 1</b>	<b>\$ 50.7</b>	<b>3.4%</b>	<b>8.6%</b>	<b>-.-%</b>	<b>-.-%</b>	<b>-.-%</b>
CEPPT Strategy 1 Policy Benchmark		3.4%	8.6%	-.-%	-.-%	-.-%
<b>CEPPT Strategy 2</b>	<b>\$ 21.5</b>	<b>1.8%</b>	<b>3.6%</b>	<b>-.-%</b>	<b>-.-%</b>	<b>-.-%</b>
CEPPT Strategy 2 Policy Benchmark		1.8%	3.6%	-.-%	-.-%	-.-%
<b>Health Care Fund</b>	<b>\$ 518.5</b>	<b>0.0%</b>	<b>-1.6%</b>	<b>4.8%</b>	<b>3.6%</b>	<b>3.2%</b>
Barclays U.S. Aggregate		0.0%	-1.5%	4.8%	3.6%	2.9%
<b>Supplemental Contribution Plan</b>	<b>\$ 125.6</b>	<b>NM</b>	<b>NM</b>	<b>NM</b>	<b>NM</b>	<b>NM</b>
CalPERS Custom SCP Plan Index		NM	NM	NM	NM	NM
<b>457 Program</b>	<b>\$ 2,228.5</b>	<b>NM</b>	<b>NM</b>	<b>NM</b>	<b>NM</b>	<b>NM</b>
CalPERS Custom 457 Plan Index		NM	NM	NM	NM	NM

<sup>1</sup> CalPERS PERF Policy Benchmark is currently computed by weighting the System's major asset class benchmarks at their respective policy targets, rebalanced periodically.

# CALPERS PERF

Period Ended December 31, 2021

## PERF TOTAL FUND PERFORMANCE

	Asset Value						VaR (\$Billion)	5-Year Ratios	
	(\$Billion)	Quarter	1-Year	3-Year	5-Year	10-Year		Sharpe	Info
<b>CalPERS PERF</b>	\$ 500.7	4.7%	13.3%	14.3%	10.8%	9.7%	\$ 69.8	1.3	0.1
<i>CalPERS PERF Policy Benchmark</i>		4.1%	12.1%	13.9%	10.7%	9.7%		1.3	0.0
<i>Actuarial Rate</i>		1.7%	6.9%	7.0%	7.2%	7.3%			
<b>PUBLIC EQUITY*</b>	\$ 246.6	6.4%	17.9%	19.0%	13.7%	12.1%	\$ 52.0	0.9	-0.3
<i>Public Equity Policy Benchmark</i>		6.4%	17.6%	18.9%	13.8%	12.0%		0.9	0.0
<b>Public Equity - Cap Weighted*</b>	\$ 171.6	6.4%	19.1%	21.0%	14.7%	12.6%	\$ 39.5	0.9	-0.2
<i>CalPERS Custom FTSE Global Benchmark</i>		6.4%	18.8%	20.9%	14.7%	12.5%		0.9	0.0
<b>Public Equity - Factor Weighted</b>	\$ 75.1	6.3%	14.7%	13.7%	--%	--%	\$ 12.9	N/A	N/A
<i>MSCI ACWI Select Factor Weighted Index</i>		6.3%	14.5%	13.6%	--%	--%		N/A	N/A
<b>PRIVATE EQUITY</b>	\$ 49.0	5.9%	39.3%	17.3%	16.5%	13.9%	\$ 19.9	1.9	0.0
<i>Private Equity Policy Benchmark</i>		-0.7%	31.4%	14.6%	15.9%	16.1%		1.0	0.0
<b>INCOME*</b>	\$ 141.5	1.0%	-1.4%	7.5%	5.5%	4.4%	\$ 12.4	0.9	1.5
<i>Income Policy Benchmark</i>		1.1%	-1.6%	7.1%	5.1%	3.7%		0.8	0.0
<b>Spread</b>	\$ 72.6	0.2%	-0.6%	7.0%	--%	--%	\$ 5.4	N/A	N/A
<i>BBG Barc Custom Global Long Spread Index</i>		0.3%	-0.9%	6.3%	--%	--%		N/A	N/A
<b>Treasury*</b>	\$ 46.4	2.2%	-4.1%	7.2%	5.2%	3.6%	\$ 6.1	0.5	-0.2
<b>Total Fund Income</b>	\$ 7.5	1.9%	-4.3%	--%	--%	--%	\$ 1.0	N/A	N/A
<i>CalPERS Custom Treasury Benchmark</i>		2.2%	-4.1%	7.3%	5.3%	3.6%		0.5	0.0
<b>High Yield</b>	\$ 15.0	0.9%	4.6%	8.2%	--%	--%	\$ 1.9	N/A	N/A
<i>BBG Barclays US High Yield BB/B Liquid Index</i>		0.9%	4.5%	8.0%	--%	--%		N/A	N/A
<b>REAL ASSETS</b>	\$ 55.1	6.4%	15.8%	7.1%	6.8%	9.0%	\$ 8.0	1.7	0.1
<i>Real Assets Policy Benchmark</i>		6.3%	13.4%	6.0%	6.4%	8.5%		1.3	0.0
<b>TOTAL FUND</b>	\$ 19.6								
<b>LLER</b>	\$ 7.6	0.3%	1.8%	2.8%	2.8%	--%	\$ 1.1	0.6	0.7
<i>LIBOR 1 Month Rate</i>		0.0%	0.1%	0.7%	0.9%	--%		-1.5	0.0
<b>OPPORTUNISTIC STRATEGIES</b>	\$ 5.0	2.1%	15.2%	--%	--%	--%	\$ 0.3	N/A	N/A
<i>Custom Opportunistic Strategies Benchmark</i>		1.7%	7.0%	--%	--%	--%		N/A	N/A
<b>OTHER *</b>	\$ 7.0	NM	NM	NM	NM	NM		N/A	N/A
<b>LIQUIDITY</b>	\$ 11.6	0.0%	0.1%	1.0%	1.3%	0.9%	\$ (0.1)	0.5	3.6
<i>Liquidity Policy Benchmark</i>		0.0%	0.0%	0.8%	1.0%	0.9%		-0.5	0.0
<b>TRUST LEVEL FINANCING</b>	\$ (22.8)	-0.1%	-0.1%	--%	--%	--%		N/A	N/A
<b>TERMINATED AGENCY POOL</b>	\$ 0.2	3.4%	3.3%	10.2%	6.7%	--%		N/A	N/A
<b>CalPERS PERF PLUS TAP</b>	\$ 500.9	4.7%	13.3%	14.3%	10.8%	9.7%		N/A	N/A

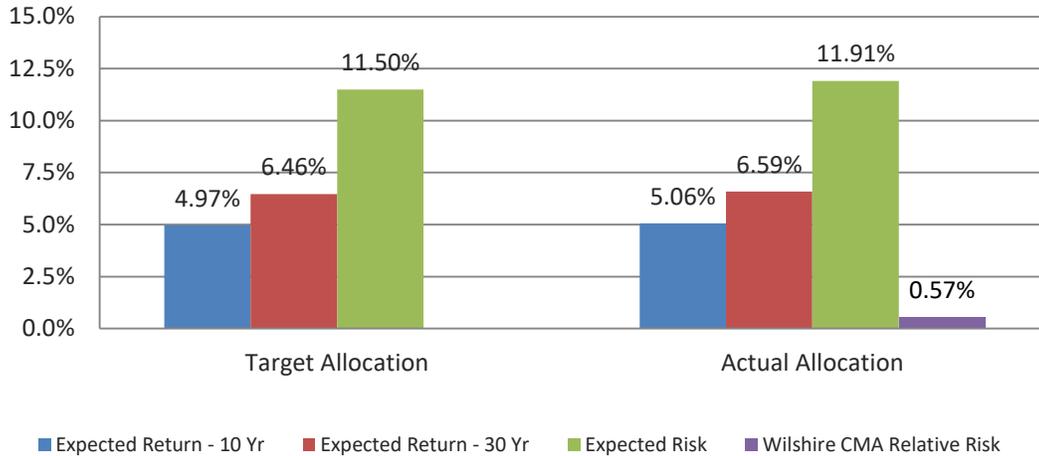
\* The CalPERS PERF asset values shown include derivative exposure.

\*\* More details of the OTHER program can be found in the program section, page 23

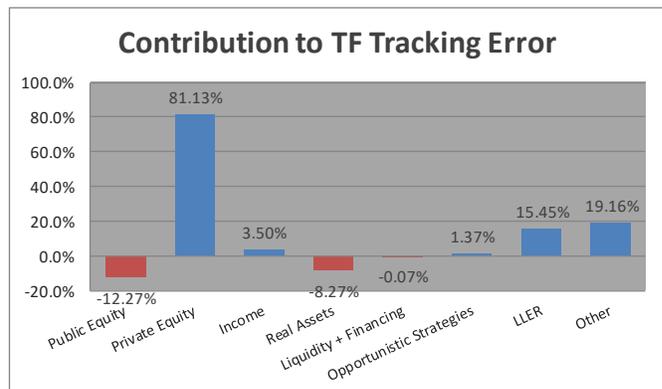
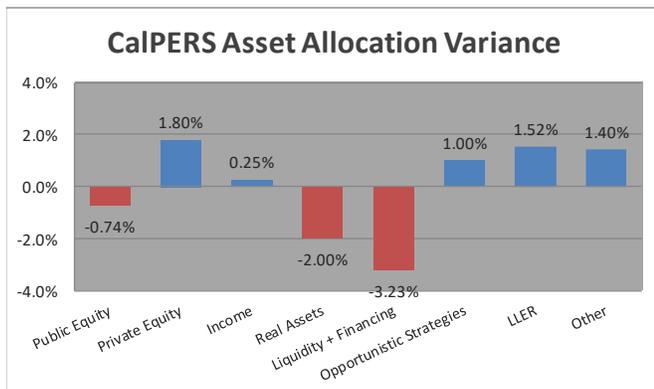
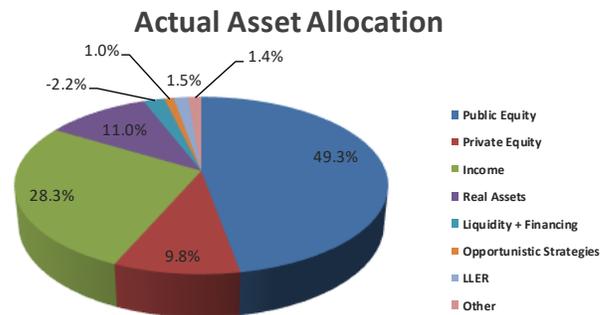
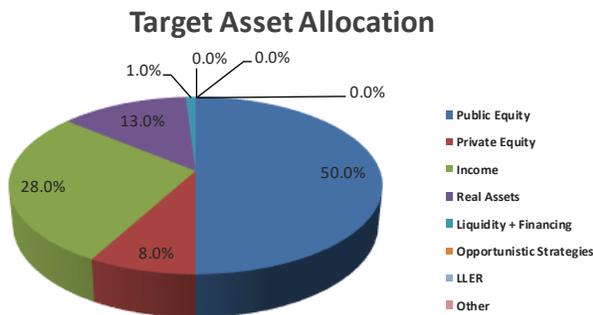
# CALPERS PERF

Period Ended December 31, 2021

## EXPECTED RETURN AND RISK<sup>2</sup>



## TOTAL FUND ASSET ALLOCATION BASED TRACKING ERROR



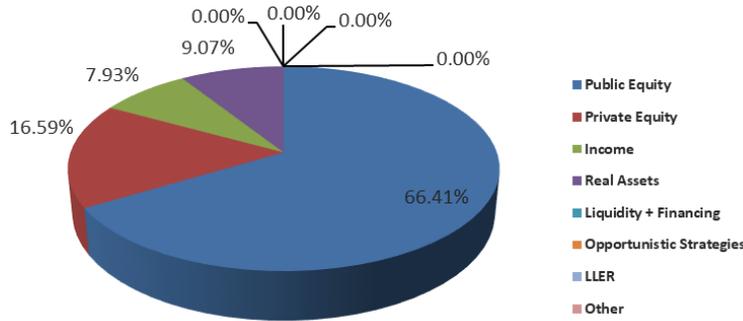
<sup>2</sup> Return and risk values expressed in this page are derived based on Wilshire Consulting Capital Market Assumptions, which are forward looking in nature.

# CALPERS PERF

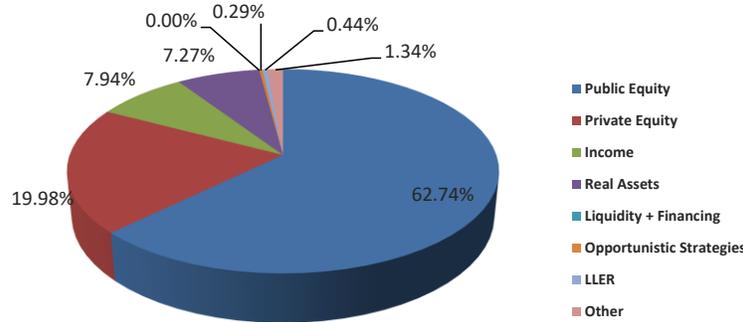
Period Ended December 31, 2021

## CONTRIBUTION TO TOTAL RISK<sup>3</sup>

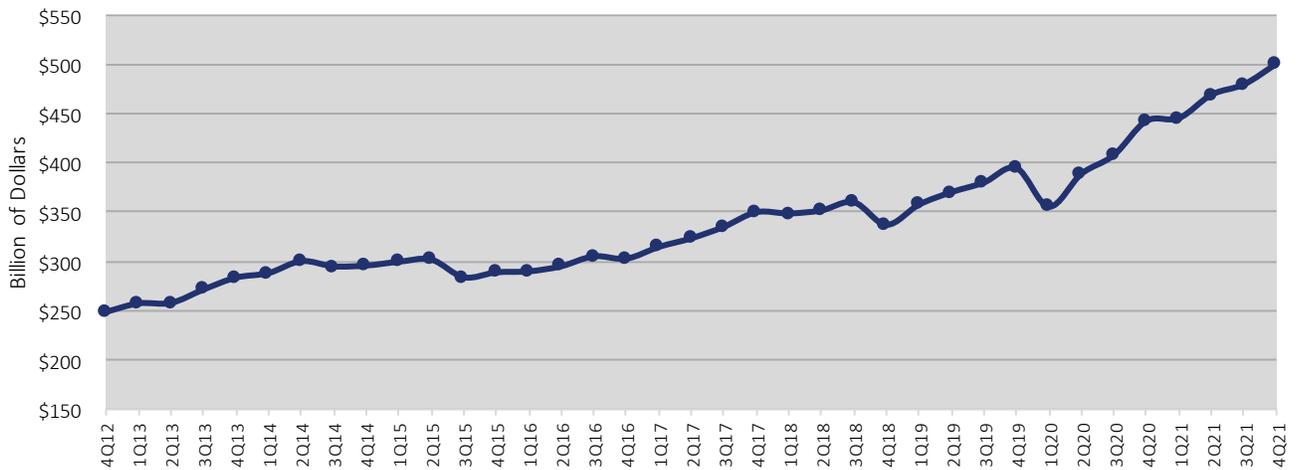
Contribution to Total Risk - Target Allocation



Contribution to Total Risk - Actual Allocation



## CHANGES IN ASSET VALUE



<sup>3</sup> Return and risk values expressed in this page are derived based on Wilshire Consulting Capital Market Assumptions, which are forward looking in nature.

# CALPERS PERF

Period Ended December 31, 2021

## CALPERS PERF ATTRIBUTION – QUARTER

Asset Class	Actual (%)		Benchmark (%)		Difference (%)		Total Fund Return Contribution (%)		
	Weight *	Return	Weight *	Return	Weight	Return	Actual Allocation	Active Management	Total
<b>Public Equity</b>	50.27	6.39	50.68	6.36	-0.42	0.03	-0.01	0.01	0.00
<b>Public Equity - Cap Weighted</b>	35.32	6.41	35.67	6.39	-0.35	0.02	-0.01	0.01	0.00
<b>Public Equity - Factor Weighted</b>	14.95	6.32	15.02	6.28	-0.07	0.04	0.00	0.01	0.00
<b>Private Equity</b>	9.39	5.87	9.07	-1.04	0.32	6.91	-0.03	0.64	0.61
<b>Income</b>	29.09	1.05	29.27	1.10	-0.18	-0.06	0.01	-0.02	0.00
<b>Spread</b>	14.86	0.24	14.85	0.30	0.02	-0.07	0.00	-0.01	-0.01
<b>Treasury</b>	9.79	2.20	11.47	2.20	-1.69	0.00	0.04	0.00	0.04
<b>Total Fund Income</b>	1.49	1.86	0.00	2.20	1.49	-0.34	-0.03	-0.01	-0.03
<b>High Yield</b>	2.95	0.92	2.95	0.92	0.00	0.00	0.00	0.00	0.00
<b>Real Assets</b>	10.28	6.38	9.99	6.31	0.29	0.08	0.03	0.00	0.02
<b>Total Fund</b>	2.39	NM	0.00	0.00	2.39	NM	-0.09	0.01	-0.08
<b>Opportunistic Strategies</b>	0.74	2.12	0.00	1.72	0.74	0.40	-0.02	0.00	-0.01
<b>LLER</b>	1.56	0.29	0.00	0.02	1.56	0.27	-0.06	0.00	-0.06
<b>Other</b>	0.04	NM **	0.00	0.00	0.04	NM **	0.00	0.00	0.00
<b>Liquidity</b>	1.53	0.02	0.99	0.02	0.55	0.01	-0.02	0.00	-0.02
<b>Trust Level Financing</b>	-2.96	-0.08	0.00	NM	-2.96	NM	0.13	0.00	0.13
<b>Monthly Linked Return</b>	<b>100.00</b>	<b>4.75</b>	<b>100.00</b>	<b>4.09</b>		<b>0.66</b>	<b>0.03</b>	<b>0.64</b>	<b>0.66</b>
<b>Residual</b>		-0.02		0.00		-0.02			<b>-0.02</b>
<b>Total PERF</b>		<b>4.74</b>		<b>4.09</b>		<b>0.64</b>			<b>0.64</b>

\* Average period weight displayed.

\*\* More details of the OTHER program can be found in the program section, page 23.

# CALPERS PERF

Period Ended December 31, 2021

## CALPERS PERF ATTRIBUTION – CALENDAR YEAR-TO-DATE

Asset Class	Actual (%)		Benchmark (%)		Difference (%)		Total Fund Return Contribution (%)		
	Weight *	Return	Weight *	Return	Weight	Return	Actual Allocation	Active Management	Total
<b>Public Equity</b>	51.61	17.86	51.87	17.60	-0.26	0.26	0.02	0.13	0.15
<b>Public Equity - Cap Weighted</b>	36.60	19.14	36.83	18.81	-0.23	0.32	0.02	0.12	0.13
<b>Public Equity - Factor Weighted</b>	15.01	14.67	15.04	14.55	-0.02	0.12	0.00	0.02	0.02
<b>Private Equity</b>	8.19	39.33	7.94	29.51	0.25	9.83	0.11	0.53	0.64
<b>Income</b>	29.13	-1.41	29.28	-1.56	-0.14	0.15	0.03	0.05	0.07
<b>Spread</b>	14.83	-0.64	14.88	-0.92	-0.05	0.28	0.00	0.05	0.05
<b>Treasury</b>	9.86	-4.14	11.42	-4.14	-1.57	0.00	0.27	0.00	0.27
<b>Total Fund Income</b>	1.48	-4.34	0.00	-4.14	1.48	-0.19	-0.25	0.00	-0.25
<b>High Yield</b>	2.97	4.61	2.98	4.53	-0.01	0.08	0.00	0.00	0.00
<b>Real Assets</b>	10.03	15.79	9.93	13.37	0.10	2.42	0.04	0.22	0.25
<b>Total Fund</b>	2.54	NM	0.00	0.00	2.54	NM	-0.29	0.06	-0.23
<b>Opportunistic Strategies</b>	0.44	15.20	0.00	7.00	0.44	8.20	-0.02	0.03	0.01
<b>LLER</b>	2.04	1.81	0.00	0.07	2.04	1.74	-0.26	0.04	-0.22
<b>Other</b>	0.05	NM **	0.00	0.00	0.05	NM **	-0.01	-0.02	-0.02
<b>Liquidity</b>	1.57	0.09	0.99	0.04	0.58	0.05	-0.06	0.00	-0.06
<b>Trust Level Financing</b>	-3.07	-0.09	0.00	NM	-3.07	NM	0.39	0.00	0.39
<b>Monthly Linked Return</b>	<b>100.00</b>	<b>13.29</b>	<b>100.00</b>	<b>12.07</b>		<b>1.22</b>	<b>0.24</b>	<b>0.98</b>	<b>1.22</b>
<b>Residual</b>		-0.01		0.00		-0.01			<b>-0.01</b>
<b>Total PERF</b>		<b>13.27</b>		<b>12.07</b>		<b>1.20</b>			<b>1.20</b>

\* Average period weight displayed.

\*\* More details of the OTHER program can be found in the program section, page 23.

# CALPERS PERF

Period Ended December 31, 2021

## CALPERS PERF ATTRIBUTION – FISCAL YEAR-TO-DATE

Asset Class	Actual (%)		Benchmark (%)		Difference (%)		Total Fund Return Contribution (%)		
	Weight *	Return	Weight *	Return	Weight	Return	Actual Allocation	Active Management	Total
<b>Public Equity</b>	50.72	5.68	51.08	5.65	-0.36	0.03	0.01	0.01	0.03
Public Equity - Cap Weighted	35.71	5.31	35.92	5.28	-0.21	0.03	0.01	0.01	0.02
Public Equity - Factor Weighted	15.00	6.58	15.03	6.54	-0.04	0.03	0.00	0.01	0.01
<b>Private Equity</b>	8.93	16.66	8.73	6.09	0.20	10.57	0.04	0.79	0.83
<b>Income</b>	29.25	1.33	29.47	1.31	-0.21	0.02	0.01	0.01	0.02
Spread	14.87	0.39	14.91	0.31	-0.04	0.08	0.00	0.01	0.01
Treasury	9.93	2.51	11.59	2.51	-1.66	0.00	0.05	0.00	0.05
<b>Total Fund Income</b>	1.50	2.12	0.00	2.51	1.50	-0.38	-0.03	-0.01	-0.04
High Yield	2.96	1.74	2.97	1.76	-0.01	-0.01	0.00	0.00	0.00
<b>Real Assets</b>	10.05	11.47	9.86	10.12	0.18	1.34	0.04	0.10	0.14
<b>Total Fund</b>	2.41	NM	0.00	0.00	2.41	NM	-0.10	0.02	-0.08
Opportunistic Strategies	0.63	4.87	0.00	3.47	0.63	1.41	-0.01	0.01	0.00
LLER	1.70	0.71	0.00	0.03	1.70	0.68	-0.08	0.01	-0.07
Other	0.04	NM **	0.00	0.00	0.04	NM **	0.00	-0.01	-0.01
<b>Liquidity</b>	1.55	0.05	0.99	0.02	0.56	0.03	-0.03	0.00	-0.03
<b>Trust Level Financing</b>	-2.90	-0.14	0.00	NM	-2.90	NM	0.15	0.00	0.15
<b>Monthly Linked Return</b>	<b>100.00</b>	<b>5.88</b>	<b>100.00</b>	<b>4.82</b>	<b>1.06</b>		<b>0.13</b>	<b>0.93</b>	<b>1.06</b>
<b>Residual</b>		-0.02		0.00		-0.02			<b>-0.02</b>
<b>Total PERF</b>		<b>5.86</b>		<b>4.82</b>		<b>1.04</b>			<b>1.04</b>

\* Average period weight displayed.

\*\* More details of the OTHER program can be found in the program section, page 23.

# CALPERS PERF

Period Ended December 31, 2021

## CALPERS PERF ATTRIBUTION – WILSHIRE COMMENT

The California Public Employees’ Retirement System (“CalPERS PERF, the System”) generated a total fund return of 4.74% for the quarter ended December 31, 2021. CalPERS’ return can be attributed as follows:

4.09%	Strategic Policy Allocation
0.03%	Actual/Tactical Asset Allocation
0.64%	Active Management
<u>-0.02%</u>	Residual (Trading/Currency Hedging)
<b>4.74%</b>	<b>Total Return</b>

The total fund attribution table in the previous pages display the return contribution of each asset class to the total fund. These tables allows the Board to see whether tactical allocation and active management within asset classes helped or hurt performance during the measured period.

- Strategic Policy: The contribution to total return from each asset class, calculated as the percentage allocated to each asset class multiplied by the benchmark return for that asset class
- Actual Allocation: The return contribution during the measured period due to differences in the actual allocation from the policy allocation (i.e. the actual allocation to total equity was higher than the policy allocation). A positive number would indicate an overweight benefited performance and vice versa
- Active Management: The return contribution from active management. The number would be positive if the asset class outperformed the designated policy index and vice versa (i.e. the Income segment outperformed its custom benchmark during a quarter and contributed positively to active management)
- Actual Return: The actual return of the asset classes if allocations to them were static during the quarter. These returns will not match exactly with the actual segment returns since asset class allocations change during the quarter due to market movement, cash flows, etc.

Wilshire attribution showed that active management was the primary contributor to the System achieving a +64 bps of outperformance in Q4. Among the major CalPERS investment programs, Private Equity was the standout that made the biggest impact, delivering sizable benchmark-beat that was well ahead of other smaller contributors, which included Public Equity as well as some of the sub-Total Fund programs.

## CALPERS PERF

Period Ended December 31, 2021

### RELATIVE TO CALPERS PERF POLICY BENCHMARK

**Public Equity:** Global equities sustained bouts of volatility in the last three months of 2021, as markets contended with headwinds brought on by the new omicron variant, stubbornly high inflation and an increasingly hawkish U.S. Fed pivot. But stocks prevailed in the end, emerging from a tepid September close to ultimately finish the fourth quarter on a high note while capping off another strong year. The CalPERS Public Equity program did not disappoint, either, turning in a solid 6.4% return for the quarter and concluded the year up 17.9%. Both figures were well ahead of the Total Fund Policy Benchmark (which was up 4.1% and 12.1%, respectively) while properly matching the pace of Public Equity's own policy benchmark; it was considered a contributor to Total Fund in both absolute and relative terms.

**Private Equity:** Thanks to cheap debt, strong corporate earnings and a continued robust economic recovery, private equity has been one of the highest returning assets since late 2020 and the CalPERS program was no exception. The System's PE investments led all other major asset classes in gains during the first three quarters of 2021, and followed up with another solid 5.9% return in Q4 to close the year with a near 40% cumulative gain (39.3%). In relative terms, these output topped both the Total Fund Policy Benchmark as well as the private equity program's own policy benchmark by a wide margin, therefore making it a major contributor in the latest calendar year from an attribution perspective.

**Income:** The fourth quarter of 2021 saw two opposing forces at work in the U.S. bond market, where intensifying concern over inflation outlook prompted the Fed to hasten its QE tapering plan and drove up short/intermediate rates, while the emergent of the fast-spreading Omicron variant caused investors to temporarily rethink growth projections which held down yields on the long-end. Within this macro environment, the CalPERS Income asset class performed respectably by managing a 1.0% total return for the quarter. While modest in size, this positive showing allowed Income to continue clawing back some of the steep losses it incurred back in Q1 (-6.2%) to end 2021 down just -1.4%. Not surprisingly both the quarterly and full-year returns came in below the Total Fund Policy Benchmark's pace, but Income's 1-year return did compare favorably to the Income policy benchmark (by +15 bps) and therefore was still considered a value-added to Total Fund in relative terms for 2021.

**Real Assets:** Historically the slow-and-steady program for CalPERS, Real Assets actually saw a notable pick up in momentum in the second half of 2021 where its 4.8% Q3 return and 6.4% Q4 return both ranked as the second highest output among all major CalPERS asset classes, benefiting from welcoming appreciations coming out of its real estate and infrastructure investments. The strong second half showing pushed Real Assets' full-year return to well over 15%, which marked this program's highest annual rate of gains in 15 years, and compared favorably to the Total Fund Policy Benchmark (by +372 bps) and against the program's own benchmark (by +242 bps), which in turn made it a net contributor at the Total Fund level for 2021.

**Liquidity:** The Liquidity asset class, which is solely comprised of short-term investment funds, ended Q4 on a muted note with virtually no gains, which has been the norm since coming out of the initial pandemic-driven drawdown nearly two years ago. Over time, this asset class has performed well within expectations, where its 0.1% trailing 1-year total return and long-term track record both continued to track close to its own benchmark measure.

# PUBLIC EQUITY

Period Ended December 31, 2021

## PUBLIC EQUITY ASSET ALLOCATION: ACTUAL VS. TARGET WEIGHTS

Asset Class	Actual Asset Allocation	Target Asset Allocation	Difference
<b>PUBLIC EQUITY</b>	<b>49.3%</b>	<b>50.0%</b>	<b>-0.7%</b>
Public Equity - Cap Weighted	34.3%	35.0%	-0.7%
Public Equity - Factor Weighted	15.0%	15.0%	0.0%

## PUBLIC EQUITY SEGMENT PERFORMANCE

	Asset Value						VaR (\$Billion)	5-Year Ratios	
	(\$Billion)	Quarter	1-Year	3-Year	5-Year	10-Year		Sharpe	Info
<b>PUBLIC EQUITY*</b>	\$ 246.6	6.4%	17.9%	19.0%	13.7%	12.1%	\$ 52.0	0.9	-0.3
<i>Public Equity Policy Benchmark</i>		6.4%	17.6%	18.9%	13.8%	12.0%		0.9	0.0
<b>Public Equity - Cap Weighted*</b>	\$ 171.6	6.4%	19.1%	21.0%	14.7%	12.6%	\$ 39.5	0.9	-0.2
<i>CalPERS Custom FTSE Global Benchmark</i>		6.4%	18.8%	20.9%	14.7%	12.5%		0.9	0.0
<b>Public Equity - Factor Weighted</b>	\$ 75.1	6.3%	14.7%	13.7%	--%	--%	\$ 12.9	N/A	N/A
<i>MSCI ACWI Select Factor Weighted Index</i>		6.3%	14.5%	13.6%	--%	--%		N/A	N/A

\* The CalPERS asset values shown include derivative exposure.

## PUBLIC EQUITY PORTFOLIOS PERFORMANCE

	Asset Value						VaR (\$Billion)	5-Year Ratios	
	(\$Billion)	Quarter	1-Year	3-Year	5-Year	10-Year		Sharpe	Info
<i>Public Equity - Cap Weighted</i>									
<b>Global Equity Index-Oriented Strategy</b>	\$ 159.9	6.5%	19.3%	21.3%	15.1%	12.8%		0.9	1.3
<i>GE Index-Oriented Strategy Benchmark</i>		6.5%	19.0%	21.1%	14.9%	12.7%		0.9	0.0
<b>Global Equity Alternative Beta</b>	\$ 1.5	7.5%	21.6%	19.9%	13.6%	11.7%		0.8	-0.7
<i>GE Alternative Beta Custom Index</i>		6.4%	18.8%	20.8%	14.7%	11.8%		0.9	0.0
<b>GE Public Equity - Traditional Active</b>	\$ 8.2	4.2%	17.6%	22.3%	15.3%	13.0%		0.9	0.7
<i>GE Active ex-Alt Beta Custom Index</i>		5.6%	16.8%	19.4%	13.8%	11.8%		0.8	0.0
<b>Other</b>	\$ 2.0	NM	NM	NM	NM	NM		N/A	N/A
<i>Public Equity - Factor Weighted (Min Volatility)</i>									
<b>Internal Factor Weighted Idx Oriented</b>	\$ 75.1	6.3%	14.7%	13.7%	--%	--%		N/A	N/A
<i>MSCI ACWI Select Factor Weighted Index</i>		6.3%	14.5%	13.6%	--%	--%		N/A	N/A

## PUBLIC EQUITY

Period Ended December 31, 2021

### PERFORMANCE NOTES – PUBLIC EQUITY

**Cap Weighted Public Equity – Index-Oriented Strategy:** By far the largest component within Public Equity representing 65% of the assets, Index-Oriented Strategy continue to set the tone for the entire asset class's performance. For the fourth quarter of 2021 this program properly tracked the flow of the global equity market, which navigated past several new stumbling blocks (another wave of rising COVID infection, an upward swing in inflation, and signaling of the end of the easy money era by the U.S. Fed) and notched another round of solid advance. Not only was its 6.5% return this quarter right on par with the assigned benchmark measure, but this also fed into a full-year return of 19.3% that came in well ahead of the Public Equity policy benchmark (by a +167 bps margin). Following this latest positive finish, Index-Oriented Strategy has now average annualized above 12% for all longer time periods shown; all of which compare favorably to the asset class benchmark while also tracking ahead of its own assigned benchmark measure.

**Cap Weighted Public Equity – Traditional Active:** With assets invested either directly by external managers or through models provided by external managers, the Traditional Active equity program finished comfortably in the black for Q4, coming in at 4.2% that marked its sixth quarterly advance over the past two years. In relative terms, however, this output exhibited some degree of weakness where it fell short of both the asset class policy benchmark (by -213 bps) as well as the program's own benchmark measure (by -133 bps). Despite this most recent stumble, Traditional Active equity's ability to capture broad equity market's forward momentum while adding additional alpha has worked well over time: this program currently holds a solid 17.6% 1-year return, while its 22.3% 3-year return, 15.3% 5-year return, and 13.0% 10-year return all paced other Public Equity components and represent sizable outperformance.

**Cap Weighted Public Equity – Alternative Beta:** As a small member component of Public Equity this internally managed program has done well for CalPERS this past year, repeatedly generating better-than-benchmark level of returns that also helped compensate for Traditional Active equity program whenever it comes up short. This happened in three of the four quarters in 2021, with Q4 being the latest occurrence where Alternative Beta's 7.5% gain was enough to offset Traditional Active's weaker showing and pulled Cap Weighted Public Equity (as well as total Public Equity) to a par finish. Despite the strong 2021 showing and having average annualized well in double digits for all measured time periods shown, Alternative Beta's historical relative track record remains a little soft, with its 3-, 5-, and 10-year returns all currently modestly trail its assigned benchmark measure.

**Factor Weighted Public Equity:** There were no surprises with the Factor Weighted Public Equity portfolio's results in Q4. With the ability to limit downside exposure while still participating on some market upside, this portfolio performed within expectations by producing a return pattern that mirrored those of its cap-weighted counterparts while predictably finishing with modestly milder level of gains amid the latest bouts of market volatility. Its 6.3% Q4 output was on par with the portfolio's own benchmark, but came in a little shy of the Public Equity Policy Benchmark, which was up 6.4%. Similar level of relative results were observed for the full-2021, with the Factor Weighted Public Equity portfolio's 14.7% 1-year return mildly outpacing its own benchmark, but did not keep up with any of the cap-weighted portfolios or the Public Equity Policy Benchmark.

# PRIVATE EQUITY

Period Ended December 31, 2021

## PRIVATE EQUITY ASSET ALLOCATION: ACTUAL VS. TARGET WEIGHTS

Asset Class	Actual Asset Allocation	Target Asset Allocation	Difference
<b>PRIVATE EQUITY</b>	<b>9.8%</b>	<b>8.0%</b>	<b>1.8%</b>
Private Equity	9.8%	8.0%	1.8%

## PRIVATE EQUITY SEGMENT PERFORMANCE <sup>4</sup>

	Asset Value						VaR	5-Year Ratios	
	(\$Billion)	Quarter	1-Year	3-Year	5-Year	10-Year		(\$Billion)	Sharpe
<b>PRIVATE EQUITY</b>	\$ 49.0	5.9%	39.3%	17.3%	16.5%	13.9%	\$ 19.9	1.9	0.0
<i>CalPERS Custom Private Equity Benchmark</i>		-0.7%	31.4%	14.6%	15.9%	16.1%		1.0	0.0

## PRIVATE EQUITY PORTFOLIOS PERFORMANCE

	Asset Value						VaR	5-Year Ratios	
	(\$Billion)	Quarter	1-Year	3-Year	5-Year	10-Year		(\$Billion)	Sharpe
<i>Private Equity</i>									
Private Equity Partnership Investments	\$ 49.0	5.9%	39.5%	17.4%	16.5%	14.0%		N/A	N/A
Private Equity Distribution Stock	\$ 0.0	-25.4%	-41.3%	-14.7%	1.2%	-16.8%		N/A	N/A

<sup>4</sup> Performance of CalPERS' private equity investments is 1-quarter lagged.

# INCOME

Period Ended December 31, 2021

## INCOME ASSET ALLOCATION: ACTUAL VS. TARGET WEIGHTS

Asset Class	Actual Asset Allocation	Target Asset Allocation	Difference
<b>INCOME</b>	<b>28.3%</b>	<b>28.0%</b>	<b>0.3%</b>
Spread	14.5%	15.0%	-0.5%
Treasury	10.8%	10.0%	0.8%
High Yield	3.0%	3.0%	0.0%

## INCOME SEGMENT PERFORMANCE

	Asset Value						VaR (\$Billion)	5-Year Ratios	
	(\$Billion)	Quarter	1-Year	3-Year	5-Year	10-Year		Sharpe	Info
<b>INCOME</b>	\$ 141.5	1.0%	-1.4%	7.5%	5.5%	4.4%	\$ 12.4	0.9	1.5
<i>Income Policy Benchmark</i>		1.1%	-1.6%	7.1%	5.1%	3.7%		0.8	0.0
<b>Spread</b>	\$ 72.6	0.2%	-0.6%	7.0%	-.-%	-.-%	\$ 5.4	N/A	N/A
<i>BBG Barc Custom Global Long Spread Index</i>		0.3%	-0.9%	6.3%	-.-%	-.-%		N/A	N/A
<b>Treasury*</b>	\$ 46.4	2.2%	-4.1%	7.2%	5.2%	3.6%	\$ 6.1	0.5	-0.2
<b>Total Fund Income</b>	\$ 7.5	1.9%	-4.3%	-.-%	-.-%	-.-%	\$ 1.0	N/A	N/A
<i>CalPERS Custom Treasury Benchmark</i>		2.2%	-4.1%	7.3%	5.3%	3.6%		0.5	0.0
<b>High Yield</b>	\$ 15.0	0.9%	4.6%	8.2%	-.-%	-.-%	\$ 1.9	N/A	N/A
<i>BBG Barclays US High Yield BB/B Liquid Index</i>		0.9%	4.5%	8.0%	-.-%	-.-%		N/A	N/A

\* The CalPERS asset values shown include derivative exposure.

## INCOME PORTFOLIOS PERFORMANCE

	Asset Value						VaR (\$Billion)	5-Year Ratios	
	(\$Billion)	Quarter	1-Year	3-Year	5-Year	10-Year		Sharpe	Info
<b>Spread</b>									
<b>Mortgages</b>	\$ 35.5	-0.5%	-0.9%	3.4%	3.0%	3.4%		1.0	1.3
<i>CalPERS Custom BBG Barc LPF Mortgage</i>		-0.4%	-1.0%	3.1%	2.6%	2.4%		0.7	0.0
<b>Investment Grade Corporate Bonds</b>	\$ 29.3	0.9%	-0.9%	11.0%	-.-%	-.-%		N/A	N/A
<i>CalPERS Corp x Sov x Tobacco Benchmark</i>		0.9%	-1.1%	10.3%	-.-%	-.-%		N/A	N/A
<b>Sovereign Bonds</b>	\$ 3.6	1.6%	-5.0%	8.1%	6.5%	5.1%		0.7	0.9
<i>CalPERS Sovereign Benchmark</i>		1.6%	-4.7%	7.8%	6.1%	4.7%		0.6	0.0
<b>High Yield (Cash Pay)</b>	\$ 3.7	0.8%	6.6%	8.6%	6.4%	7.6%		0.7	0.5
<i>CalPERS HY Cash Pay Benchmark</i>		0.8%	5.4%	8.2%	5.8%	6.4%		0.6	0.0
<b>Non-Core/Oppportunistic</b>	\$ 0.5	2.3%	2.8%	21.9%	-.-%	-.-%		N/A	N/A
<b>Treasury</b>									
<b>Internal US Treasury/Agency</b>	\$ 24.7	2.4%	-4.4%	7.1%	5.2%	3.5%		0.5	-0.2
<i>CalPERS Custom Treasury Benchmark</i>		2.2%	-4.1%	7.3%	5.3%	3.6%		0.5	0.0
<b>High Yield</b>									
<b>BB/B High Yield Fund of Funds</b>	\$ 15.0	0.9%	4.6%	8.2%	-.-%	-.-%		N/A	N/A
<i>BBG Barclays US High Yield BB/B Liquid Index</i>		0.9%	4.5%	8.0%	-.-%	-.-%		N/A	N/A

# INCOME

Period Ended December 31, 2021

## PERFORMANCE NOTES – INCOME

**Spread:** Performance of the CalPERS Spread program for Q4 was muted, coming in at 0.2% amid a mixed backdrop of stable UST yields and wider IG credit spreads. This made Spread the laggard within the Income asset class for the quarter, where it trailed both the Income Policy's 1.1% return and its own custom Spread Index's 0.3% pace. The full-year picture does improve somewhat, with Spread being mildly in the red but compares better against Income Policy's -1.6% drop and the custom Spread Index's -0.9% drop.

Within this program, most components finished the quarter in the black with various degree of gains, with the exception of the \$36 billion Mortgages portfolio, which is the largest component representing 49% of the Spread assets; it gave up grounds in all three months to end the quarter down -0.5%. All other portfolios generated excess returns above the Spread benchmark, with the small-sized Non-Core/Oppportunistic portfolio and the Sovereign Bonds portfolio leading the way at 2.3% and 1.6% returns, respectively.

**Treasury:** The Treasury program was the highest returning Income component in Q4, benefiting from some of the increased uncertainties/volatility during October and November to reach a 2.2% total return that easily outpaced the Income Policy's 1.1%. For the full year, however, the Treasury exposure was a drag to the Income asset class, as Treasuries suffered steep losses early on in the year when stimulus-driven fears on inflation drove a sharp rise in UST yields across the board. Unable to fully offset the early-on losses, Treasury carried a -4.1% return to close the year 2021. Short-term swings aside, this internally-managed program has performed in line with expectations over time, generating good returns for the CalPERS Income asset class while also holding its ground against the Treasury benchmark.

**High Yield:** The CalPERS Income High Yield program, built with a high quality focus, faced a growing wave of headwinds of growth/inflation/interest rate/new variant concerns during the quarter but fared quite well in the end, finishing with a modest 0.9% total return that was in line with its own benchmark measure. Thanks to good corporate earnings and benign spread movement underpinning this segment's fundamentals through most of the year, this program also strung together multiple quarters of positive returns to yield 4.6% for 2021, and has now annualized 8.2% over the past three years. These 1- and 3-year returns currently rank at the top of the leaderboard among the major Income programs, while comparing favorably to the Income Policy Benchmark as well as the high yield benchmark, demonstrating the High Yield program's ability to provide value-added while serving as a nice complement to the larger Spread and Treasury portfolios.

# REAL ASSETS

Period Ended December 31, 2021

## REAL ASSETS ASSET ALLOCATION: ACTUAL VS. TARGET WEIGHTS

Asset Class	Actual Asset Allocation	Target Asset Allocation	Difference
<b>REAL ASSETS</b>	<b>11.0%</b>	<b>13.0%</b>	<b>-2.0%</b>
Real Estate	9.0%	--	--
Forestland	0.2%	--	--
Infrastructure	1.8%	--	--

## REAL ASSETS SEGMENT & PORTFOLIOS PERFORMANCE <sup>5</sup>

	Asset Value							VaR (\$Billion)	5-Year Ratios	
	(\$Billion)	Quarter	1-Year	3-Year	5-Year	10-Year	Sharpe		Info	
<b>REAL ASSETS</b>	\$ 55.1	6.4%	15.8%	7.1%	6.8%	9.0%	\$ 8.0	1.7	0.1	
<i>Real Assets Policy Benchmark</i>		6.3%	13.4%	6.0%	6.4%	8.5%		1.3	0.0	
<b>Real Estate</b>	\$ 45.3	7.5%	16.5%	7.4%	6.8%	9.6%	\$ 6.6	1.5	0.1	
<i>CalPERS Custom Real Estate Benchmark</i>		6.3%	13.4%	6.0%	6.5%	9.0%		1.3	0.0	
<b>Infrastructure</b>	\$ 9.0	1.7%	14.9%	7.1%	10.1%	11.0%	\$ 1.3	1.3	0.5	
<i>CalPERS Custom Infrastructure Benchmark</i>		6.3%	13.4%	6.0%	6.2%	5.8%		1.4	0.0	
<b>Forestland</b>	\$ 0.8	0.0%	0.6%	1.1%	-1.5%	-1.6%	\$ 0.1	-0.5	-1.0	
<i>CalPERS Custom Forestland Benchmark</i>		6.3%	13.4%	6.0%	5.5%	6.2%		1.2	0.0	

## PERFORMANCE NOTES – REAL ASSETS

**Real Estate:** Currently representing 82% of the Real Assets asset class, the Real Estate program saw a material uptick in its total return in the second half of 2021. With the real estate market continued to be supported by sound fundamentals that included recovering supply/demand dynamic that is driving rising rents and values, this program generated return of 4.8% in Q3 and followed up by rising another 7.5% in Q4, both are multi-year highs that also topped the asset class policy benchmark. For the latest 1-year period, Real Estate currently holds a cumulative gain of 16.5% that shows favorably in relative terms, too, while continue to maintain a steady long-term track record that contributes to Real Assets’ success.

**Infrastructure:** The Infrastructure portfolio produced a small 1.7% gain in Q4 that did not look impressive in relative terms at first glance, but like Real Estate it actually enjoyed a strong year as well, with +5% returns in each of Q1 and Q3 that pushed its full-2021 result to 14.9% and was considered a notable boost to Real assets. Over longer time periods this portfolio also remains Real Assets’ best performing component.

**Forestland:** Real Assets’ smallest component did not have a strong year: it was essentially flat in the fourth quarter while closing out 2021 with a 0.6% total return. Both return figures ranked last among Real Assets’ three components and coupled with drag from the sale of a legacy timber investment that represented a markdown of portfolio value at the beginning of Q3 2018, this continued to weigh down Forestland’s longer-term track record, underperforming against the Real Assets Policy Benchmark.

<sup>5</sup> Performance of CalPERS’ Real Assets investments is reported on a 1-quarter lagged basis.

# LIQUIDITY

Period Ended December 31, 2021

## LIQUIDITY ASSET ALLOCATION: ACTUAL VS. TARGET WEIGHTS

Asset Class	Actual Asset Allocation	Target Asset Allocation	Difference
<b>LIQUIDITY (+ FINANCING)</b>	<b>-2.2%</b>	<b>1.0%</b>	<b>-3.2%</b>
LIQUIDITY - Internal Short Term Portfolio	2.3%	1.0%	1.3%
Trust Level Financing	-4.6%	0.0%	-4.6%

## LIQUIDITY SEGMENT & PORTFOLIO PERFORMANCE

	Asset Value						VaR (\$Billion)	5-Year Ratios	
	(\$Billion)	Quarter	1-Year	3-Year	5-Year	10-Year		Sharpe	Info
<b>LIQUIDITY</b>	\$ 11.6	0.0%	0.1%	1.0%	1.3%	0.9%	\$ (0.1)	0.5	3.6
<i>Liquidity Policy Benchmark</i>		0.0%	0.0%	0.8%	1.0%	0.9%		-0.5	0.0
<b>Internal Short Term Cash Portfolio</b>	\$ 11.6	0.0%	0.1%	1.1%	1.3%	0.8%	\$ (0.1)	0.5	3.6
<i>CalPERS Short Term Benchmark</i>		0.0%	0.0%	0.8%	1.1%	0.6%		-0.5	0.0
<b>Trust Level Financing</b>	\$ (22.8)	-0.1%	-0.1%	-.%	-.%	-.%		N/A	N/A

# LLER

Period Ended December 31, 2021

## LIQUIDITY ASSET ALLOCATION: ACTUAL VS. TARGET WEIGHTS

Asset Class/Program	Actual Asset Allocation	Target Asset Allocation	Difference
<b>LLER</b>	<b>1.5%</b>	<b>0.0%</b>	<b>1.5%</b>

## LLER SEGMENT & PORTFOLIO PERFORMANCE

	Asset Value						VaR (\$Billion)	5-Year Ratios	
	(\$Billion)	Quarter	1-Year	3-Year	5-Year	10-Year		Sharpe	Info
<b>LLER</b>	\$ 7.6	0.3%	1.8%	2.8%	2.8%	-.%	\$ 1.1	0.6	0.7
<i>LIBOR 1 Month Rate</i>		0.0%	0.1%	0.7%	0.9%	-.%		-1.5	0.0
<b>Enhanced Return</b>	\$ 6.1	0.3%	1.7%	2.9%	2.8%	-.%		N/A	N/A
<b>Direct Lending Financing</b>	\$ 1.3	0.3%	2.8%	2.7%	-.%	-.%		N/A	N/A
<b>Senior Lending in Private Cre Debt</b>	\$ 0.2	0.6%	2.4%	-.%	-.%	-.%		N/A	N/A
<i>LIBOR 1 Month + 20 Basis Points</i>		0.1%	0.3%	-.%	-.%	-.%		N/A	N/A
<b>Federated Trade Finance</b>	\$ 0.0	NM	NM	-.%	-.%	-.%		N/A	N/A
<b>Asset Based Lending</b>	\$ 0.0	NM	NM	-.%	-.%	-.%		N/A	N/A

# OPPORTUNISTIC STRATEGIES

Period Ended December 31, 2021

## OPPORTUNISTIC STRATEGIES ASSET ALLOCATION: ACTUAL VS. TARGET WEIGHTS

Asset Class/Program	Actual Asset Allocation	Target Asset Allocation	Difference
<b>OPPORTUNISTIC STRATEGIES</b>	<b>1.0%</b>	<b>0.0%</b>	<b>1.0%</b>

## OPPORTUNISTIC STRATEGIES SEGMENT & PORTFOLIOS PERFORMANCE

	Asset Value							VaR (\$Billion)	5-Year Ratios	
	(\$Billion)	Quarter	1-Year	3-Year	5-Year	10-Year	Sharpe		Info	
<b>OPPORTUNISTIC STRATEGIES</b>	\$ 5.0	2.1%	15.2%	-.%	-.%	-.%	\$ 0.3	N/A	N/A	
<i>Custom Opportunistic Strategies Benchmark</i>		1.7%	7.0%	-.%	-.%	-.%		N/A	N/A	

## OTHER (TLPM)

Period Ended December 31, 2021

### OTHER ASSET ALLOCATION: ACTUAL VS. TARGET WEIGHTS

Asset Class	Actual Asset Allocation	Target Asset Allocation	Difference
<b>OTHER</b>	<b>1.4%</b>	<b>0.0%</b>	<b>1.4%</b>
Absolute Return Strategies	0.0%	--	--
Other Plan Level - Fixed Income	0.0%	--	--
External Multi-Asset Class	0.0%	--	--
PE Premium Replication	0.0%	--	--
TLPM Strategic Completion Overlay	1.4%	--	--

### OTHER SEGMENT & PORTFOLIO PERFORMANCE

	Asset Value						VaR (\$Billion)	5-Year Ratios	
	(\$Billion)	Quarter	1-Year	3-Year	5-Year	10-Year		Sharpe	Info
<b>OTHER</b>	\$ 7.0	NM	NM	NM	NM	NM	\$ -	N/A	N/A
<b>Absolute Return Strategies</b>	\$ 0.2	1.4%	-5.5%	9.5%	6.1%	4.2%		0.2	0.0
<i>Total ARS Program Blended Benchmark</i>		1.0%	4.9%	6.6%	6.5%	5.9%		8.8	0.0
<b>MHLP Loans</b>	\$ 0.0	1.6%	3.9%	-0.3%	1.6%	--%		N/A	N/A
<i>Bloomberg LMTG</i>		-0.4%	-1.0%	3.1%	2.6%	--%		N/A	N/A
<b>External Multi-Asset Class</b>	\$ 0.0	--%	--%	--%	--%	--%		N/A	N/A
<i>CalPERS Reference Portfolio Benchmark</i>		--%	--%	--%	--%	--%		N/A	N/A
<b>PE Premium Replication</b>	\$ 0.0	0.4%	3.6%	4.2%	--%	--%		N/A	N/A
<i>CalPERS STIF</i>		0.0%	0.1%	1.0%	--%	--%		N/A	N/A
<b>TLPM Strategic Completion Overlay</b>	\$ 6.8	--%	--%	--%	--%	--%		N/A	N/A

## SECURITIES LENDING

Period Ended December 31, 2021

### SEC LENDING SEGMENT & PORTFOLIOS PERFORMANCE

	Asset Value						VaR (\$Billion)	5-Year Ratios	
	(\$Billion)	Quarter	1-Year	3-Year	5-Year	10-Year		Sharpe	Info
<b>Sec Lending Composite</b>	\$ 4.4	0.0%	0.1%	1.0%	1.3%	0.9%		N/A	N/A
<b>Internal Sec Lending Portfolio</b>	\$ 3.9	0.0%	0.1%	1.1%	1.3%	0.8%		N/A	N/A
<i>CalPERS GSTIF</i>		0.0%	0.1%	1.0%	1.2%	0.7%		N/A	N/A

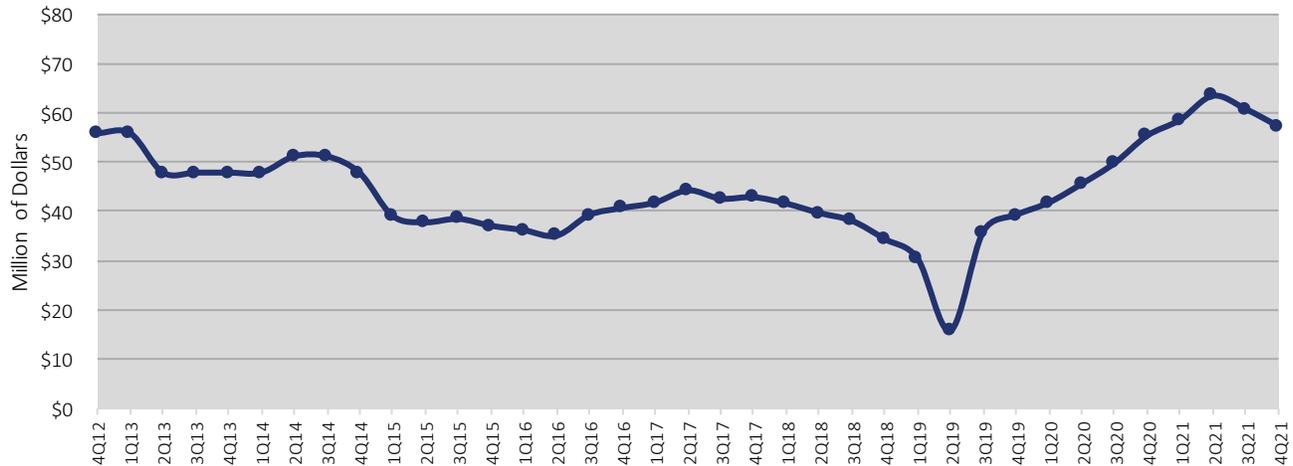
## AFFILIATE FUND INFORMATION

## JUDGES RETIREMENT SYSTEM I FUND

# JUDGES I PERFORMANCE

Period Ended December 31, 2021

## GROWTH IN ASSETS



## NET OF FEE PLAN PERFORMANCE RESULTS – JUDGES I <sup>6</sup>

	Asset Value					
	(\$Million)	Quarter	1-Year	3-Year	5-Year	10-Year
<b>Judges Retirement I Fund</b>	<b>\$ 57.3</b>	<b>0.0%</b>	<b>0.1%</b>	<b>1.0%</b>	<b>1.2%</b>	<b>0.7%</b>
<i>91-Day Treasury Bill</i>		<i>0.0%</i>	<i>0.0%</i>	<i>1.0%</i>	<i>1.1%</i>	<i>0.6%</i>
<b>Judges I Programs:</b>						
<b>Judges I Internal Short-Term</b>	<b>\$ 57.3</b>	<b>0.0%</b>	<b>0.1%</b>	<b>1.0%</b>	<b>1.2%</b>	<b>0.7%</b>
<i>91-Day Treasury Bill</i>		<i>0.0%</i>	<i>0.0%</i>	<i>1.0%</i>	<i>1.1%</i>	<i>0.6%</i>

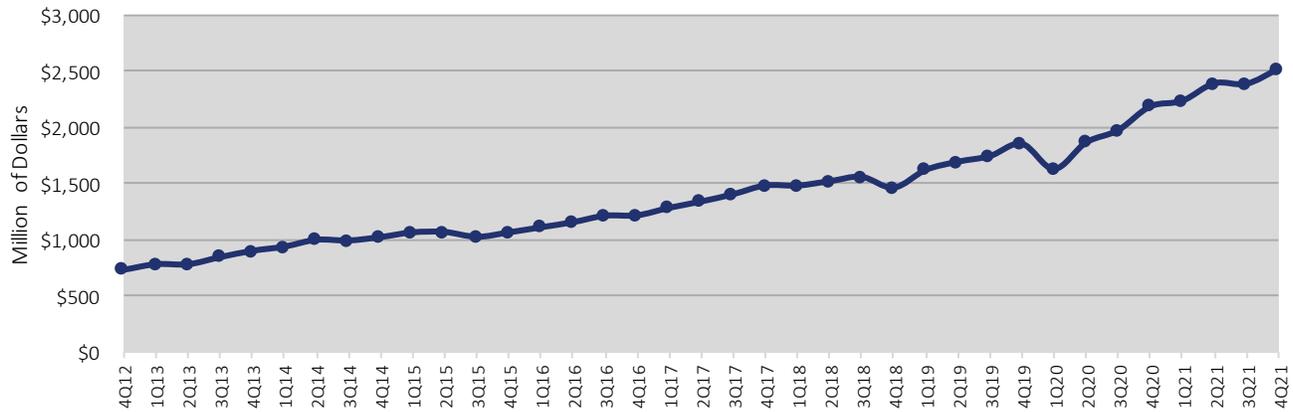
<sup>6</sup> JRS I maintains a reserve balance of approximately two months of benefit payments. Prior to 2009-2010 fiscal year, the fund held approximately one month of benefit reserve with the majority of funds held at the State Treasurer’s Office.

## JUDGES RETIREMENT SYSTEM II FUND

# JUDGES II PERFORMANCE

Period Ended December 31, 2021

## GROWTH IN ASSETS



## NET OF FEE PLAN PERFORMANCE RESULTS – JUDGES II <sup>7</sup>

	Asset Value					
	(\$Million)	Quarter	1-Year	3-Year	5-Year	10-Year
<b>Judges Retirement II Fund</b>	<b>\$ 2,522.8</b>	<b>4.5%</b>	<b>12.3%</b>	<b>15.4%</b>	<b>10.8%</b>	<b>9.3%</b>
<i>Weighted Policy Benchmark</i>		4.5%	12.1%	15.1%	10.5%	9.0%
<b>Judges II Programs:</b>						
<b>JRS II Global Equity</b>	<b>\$ 1,307.6</b>	<b>6.2%</b>	<b>18.6%</b>	<b>20.6%</b>	<b>14.6%</b>	<b>12.5%</b>
<i>Global Equity Benchmark</i>		6.1%	18.2%	20.2%	14.3%	12.3%
<b>JRS II US Fixed Income</b>	<b>\$ 811.6</b>	<b>1.0%</b>	<b>-2.3%</b>	<b>7.0%</b>	<b>5.2%</b>	<b>4.6%</b>
<i>Custom Benchmark</i>		1.1%	-2.2%	6.9%	5.0%	4.0%
<b>JRS II TIPS</b>	<b>\$ 126.4</b>	<b>2.3%</b>	<b>5.9%</b>	<b>8.4%</b>	<b>5.4%</b>	<b>3.1%</b>
<i>Bloomberg U.S. TIPS Index</i>		2.4%	6.0%	8.4%	5.3%	3.1%
<b>JRS II REITs</b>	<b>\$ 202.7</b>	<b>10.4%</b>	<b>27.2%</b>	<b>12.7%</b>	<b>8.9%</b>	<b>9.6%</b>
<i>Custom Benchmark</i>		10.2%	26.1%	11.8%	8.2%	9.3%
<b>JRS II Commodities</b>	<b>\$ 74.6</b>	<b>1.5%</b>	<b>40.2%</b>	<b>8.1%</b>	<b>2.9%</b>	<b>-5.5%</b>
<i>GSCI Total Return</i>		1.5%	40.4%	8.0%	2.8%	-5.5%
<b>JRS II Cash/Short-Term</b>	<b>\$ 0.1</b>	<b>NM</b>	<b>NM</b>	<b>NM</b>	<b>NM</b>	<b>NM</b>
<i>91-Day T-Bill</i>		0.0%	0.0%	1.0%	1.1%	0.6%

<sup>7</sup> JRS II weighted policy benchmark is calculated based on asset class index returns weighted at their respective asset class policy targets. JRS II Global Equity Benchmark is MSCI ACWI IMI Net starting 6/07/2018. Between 6/06/2018 and 9/08/2011 the custom benchmark was run by FTSE. Prior of that it was calculated as an asset weighted benchmark of its underlying domestic and international funds. Current US Fixed Income Custom Benchmark is the Bloomberg Long Liability Index. Bloomberg Long Liability ex TIPS was used as the benchmark between June 2005 and May 2007. Prior of that the benchmark was Citigroup LPF. The REIT Custom Benchmark is the FTSE EPRA/NAREIT Developed (Net) Index starting 3/27/2020. Between 3/26/2020 and 6/07/2018 it was FTSE EPRA/NAREIT Developed Liquid (Net) Index. Between 6/06/2018 and 9/08/2011 the it was FTSE EPRA/NAREIT Developed (TR) Index. Prior of that it was the Wilshire RESI and REIT Indices.

# JUDGES II PERFORMANCE

Period Ended December 31, 2021

## JUDGES II ASSET ALLOCATION: ACTUAL VS. TARGET WEIGHTS

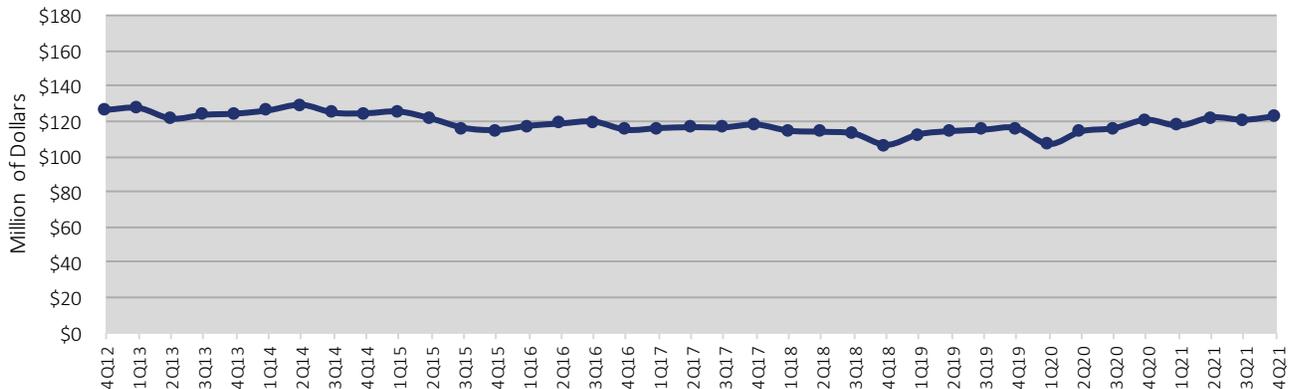
Asset Class	Actual Asset Allocation	Target Asset Allocation	Difference
<b>JUDGES II TOTAL FUND</b>	<b>100.0%</b>	<b>100.0%</b>	<b>0.0%</b>
Global Equity	51.8%	52.0%	-0.2%
US Fixed Income	32.2%	32.0%	0.2%
TIPS	5.0%	5.0%	0.0%
REITs	8.0%	8.0%	0.0%
Commodities	3.0%	3.0%	0.0%
Cash/Short-Term	0.0%	0.0%	0.0%

## LEGISLATORS' RETIREMENT SYSTEM FUND

# LEGISLATORS' RETIREMENT SYSTEM PERFORMANCE

Period Ended December 31, 2021

## GROWTH IN ASSETS



## NET OF FEE PLAN PERFORMANCE RESULTS – LEGISLATORS' <sup>8</sup>

	Asset Value					
	(\$Million)	Quarter	1-Year	3-Year	5-Year	10-Year
<b>Legislators' Retirement System Fund</b>	<b>\$ 122.9</b>	<b>3.1%</b>	<b>7.7%</b>	<b>11.5%</b>	<b>8.0%</b>	<b>6.8%</b>
<i>Weighted Policy Benchmark</i>		3.1%	7.6%	11.4%	7.8%	6.5%
<b>LRS Programs:</b>						
<b>LRS Global Equity</b>	<b>\$ 26.9</b>	<b>6.2%</b>	<b>18.6%</b>	<b>20.6%</b>	<b>14.6%</b>	<b>12.5%</b>
<i>Global Equity Benchmark</i>		6.1%	18.2%	20.2%	14.3%	12.3%
<b>LRS US Fixed Income</b>	<b>\$ 60.4</b>	<b>1.0%</b>	<b>-2.3%</b>	<b>7.0%</b>	<b>5.2%</b>	<b>4.6%</b>
<i>Custom Benchmark</i>		1.1%	-2.2%	6.9%	5.0%	4.0%
<b>LRS TIPS</b>	<b>\$ 19.7</b>	<b>2.3%</b>	<b>5.9%</b>	<b>8.4%</b>	<b>5.4%</b>	<b>3.1%</b>
<i>Custom Benchmark</i>		2.4%	6.0%	8.4%	5.3%	3.1%
<b>LRS REITs</b>	<b>\$ 9.9</b>	<b>10.4%</b>	<b>27.2%</b>	<b>12.7%</b>	<b>8.9%</b>	<b>9.6%</b>
<i>Custom Benchmark</i>		10.2%	26.1%	11.8%	8.2%	9.3%
<b>LRS Commodities</b>	<b>\$ 6.0</b>	<b>1.5%</b>	<b>40.2%</b>	<b>8.1%</b>	<b>3.1%</b>	<b>-5.4%</b>
<i>GSCI Total Return</i>		1.5%	40.4%	8.0%	2.8%	-5.5%
<b>LRS Cash/Short-Term</b>	<b>\$ 0.0</b>	<b>NM</b>	<b>NM</b>	<b>NM</b>	<b>NM</b>	<b>NM</b>
<i>91-Day T-Bill</i>		0.0%	0.0%	1.0%	1.1%	0.6%

<sup>8</sup> LRS weighted policy benchmark is calculated based on asset class index returns weighted at their respective asset class policy targets.

LRS Global Equity Benchmark is MSCI ACWI IMI Net starting 6/07/2018. Between 6/06/2018 and 9/08/2011 the custom benchmark was run by FTSE. Prior of that it was calculated as an asset weighted benchmark of its underlying domestic and international funds.

Current US Fixed Income Custom Benchmark is the Bloomberg Long Liability Index. Bloomberg Long Liability ex TIPS was used as the benchmark between June 2005 and May 2007. Prior of that the benchmark was Citigroup LPF.

TIPS Benchmark is currently the Bloomberg U.S. TIPS Index. Prior of July 2017 it was the Bloomberg Long Liability TIPS Index.

The REIT Custom Benchmark is the FTSE EPRA/NAREIT Developed (Net) Index starting 3/27/2020. Between 3/26/2020 and 6/07/2018 it was FTSE EPRA/NAREIT Developed Liquid (Net) Index. Between 6/06/2018 and 9/08/2011 the benchmark was FTSE EPRA/NAREIT Developed (TR) Index. Prior of that it was the Wilshire RESI and REIT Indices.

# LEGISLATORS' RETIREMENT SYSTEM PERFORMANCE

Period Ended December 31, 2021

## LEGISLATORS' ASSET ALLOCATION: ACTUAL VS. TARGET WEIGHTS

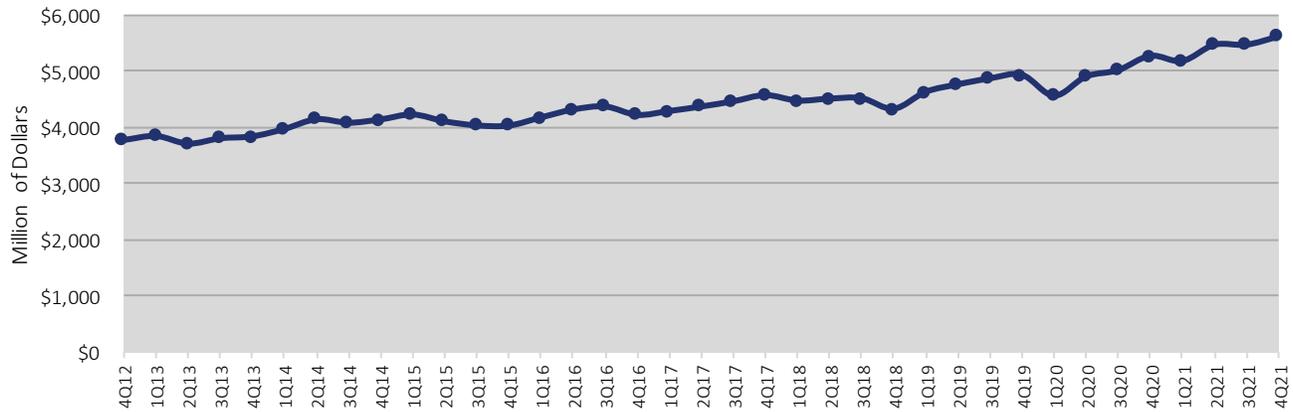
Asset Class	Actual Asset Allocation	Target Asset Allocation	Difference
<b>LEGISLATORS' RETIREMENT SYSTEM FUND</b>	<b>100.0%</b>	<b>100.0%</b>	<b>0.0%</b>
Global Equity	21.9%	22.0%	-0.1%
US Fixed Income	49.2%	49.0%	0.2%
TIPS	16.0%	16.0%	0.0%
REITs	8.0%	8.0%	0.0%
Commodities	4.9%	5.0%	-0.1%
Cash/Short-Term	0.0%	0.0%	0.0%

## LONG-TERM CARE FUND

# LONG-TERM CARE FUND PERFORMANCE

Period Ended December 31, 2021

## GROWTH IN ASSETS



## NET OF FEE PLAN PERFORMANCE RESULTS – LONG-TERM CARE FUND<sup>9</sup>

	Asset Value					
	(\$Million)	Quarter	1-Year	3-Year	5-Year	10-Year
<b>Long-Term Care Fund</b>	<b>\$ 5,623.0</b>	<b>2.9%</b>	<b>7.9%</b>	<b>10.7%</b>	<b>7.2%</b>	<b>5.8%</b>
<i>Weighted Policy Benchmark</i>		2.9%	7.4%	10.6%	7.1%	5.6%
<b>LTC Programs:</b>						
<b>LTC Global Equity</b>	<b>\$ 915.3</b>	<b>6.2%</b>	<b>18.5%</b>	<b>20.5%</b>	<b>14.4%</b>	<b>12.2%</b>
<i>Custom Benchmark</i>		6.1%	18.2%	20.2%	14.1%	11.9%
<b>LTC US Fixed Income</b>	<b>\$ 3,284.8</b>	<b>1.0%</b>	<b>-2.3%</b>	<b>7.0%</b>	<b>5.0%</b>	<b>4.1%</b>
<i>Custom Benchmark</i>		1.1%	-2.2%	6.9%	5.0%	4.0%
<b>LTC TIPS</b>	<b>\$ 315.0</b>	<b>2.4%</b>	<b>5.9%</b>	<b>8.4%</b>	<b>5.3%</b>	<b>3.1%</b>
<i>Bloomberg Barc. US TIPS Index</i>		2.4%	6.0%	8.4%	5.3%	3.1%
<b>LTC REITs</b>	<b>\$ 608.7</b>	<b>10.4%</b>	<b>27.2%</b>	<b>12.7%</b>	<b>8.7%</b>	<b>9.2%</b>
<i>Custom Benchmark</i>		10.2%	26.1%	11.8%	7.8%	8.4%
<b>LTC Commodities</b>	<b>\$ 499.1</b>	<b>1.5%</b>	<b>40.2%</b>	<b>8.0%</b>	<b>2.7%</b>	<b>-5.4%</b>
<i>GSCI Total Return</i>		1.5%	40.4%	8.0%	2.8%	-5.5%
<b>LTC Cash/Short-Term</b>	<b>\$ 0.1</b>	<b>NM</b>	<b>NM</b>	<b>NM</b>	<b>NM</b>	<b>NM</b>
<i>91-Day T-Bill</i>		0.0%	0.0%	1.0%	1.1%	0.6%

<sup>9</sup> LTC weighted policy benchmark is calculated based on asset class index returns weighted at their respective asset class policy targets.

LTC Global Equity Benchmark is MSCI ACWI IMI Net starting 12/12/2012. Prior of that it was calculated as an asset weighted benchmark of its underlying domestic and international funds.

Current US Fixed Income Custom Benchmark is the Bloomberg Long Liability Index. Bloomberg Long Liability ex TIPS ex High Yield was the benchmark between June 2007 and July 2005. Prior of that the benchmark was Bloomberg Aggregate Bond Index.

The REIT Custom Benchmark is the FTSE EPRA/NAREIT Developed (Net) Index starting 3/27/2020. Between 3/26/2020 and 12/12/2012 it was FTSE EPRA/NAREIT Developed Liquid (Net) Index.

# LONG-TERM CARE FUND PERFORMANCE

Period Ended December 31, 2021

## LONG-TERM CARE FUND ASSET ALLOCATION: ACTUAL VS. TARGET WEIGHTS

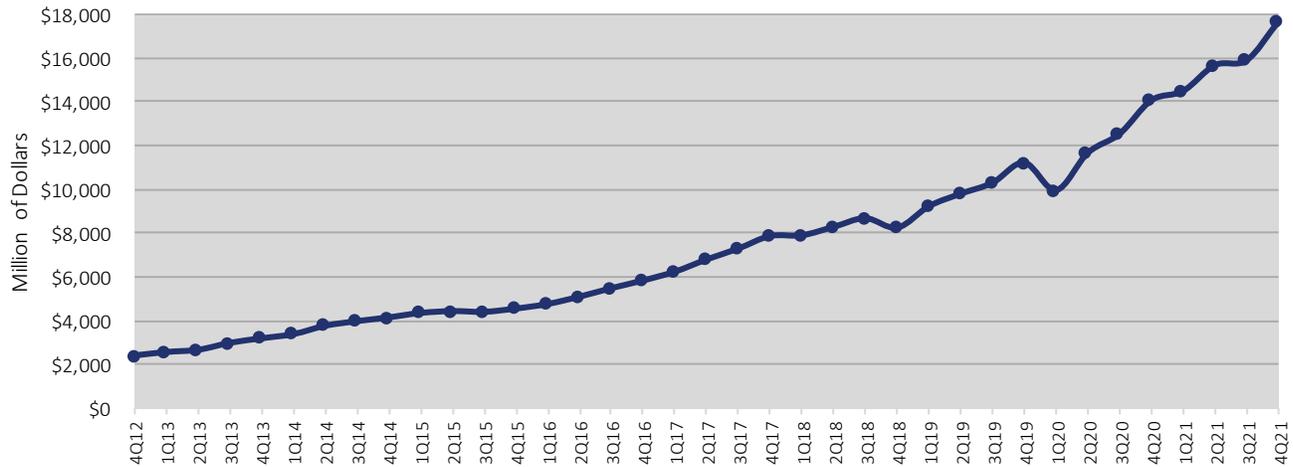
Asset Class	Actual Asset Allocation	Target Asset Allocation	Difference
<b>LONG-TERM CARE TOTAL FUND</b>	<b>100.0%</b>	<b>100.0%</b>	<b>0.0%</b>
Global Equity	16.3%	15.0%	1.3%
US Fixed Income	58.4%	60.0%	-1.6%
TIPS	5.6%	6.0%	-0.4%
REITs	10.8%	11.0%	-0.2%
Commodities	8.9%	8.0%	0.9%
Cash/Short-Term	0.0%	0.0%	0.0%

**CALIFORNIA EMPLOYERS' RETIREE  
BENEFIT TRUST**

# CALIFORNIA EMPLOYERS' RETIREE BENEFIT TRUST AGGREGATE

Period Ended December 31, 2021

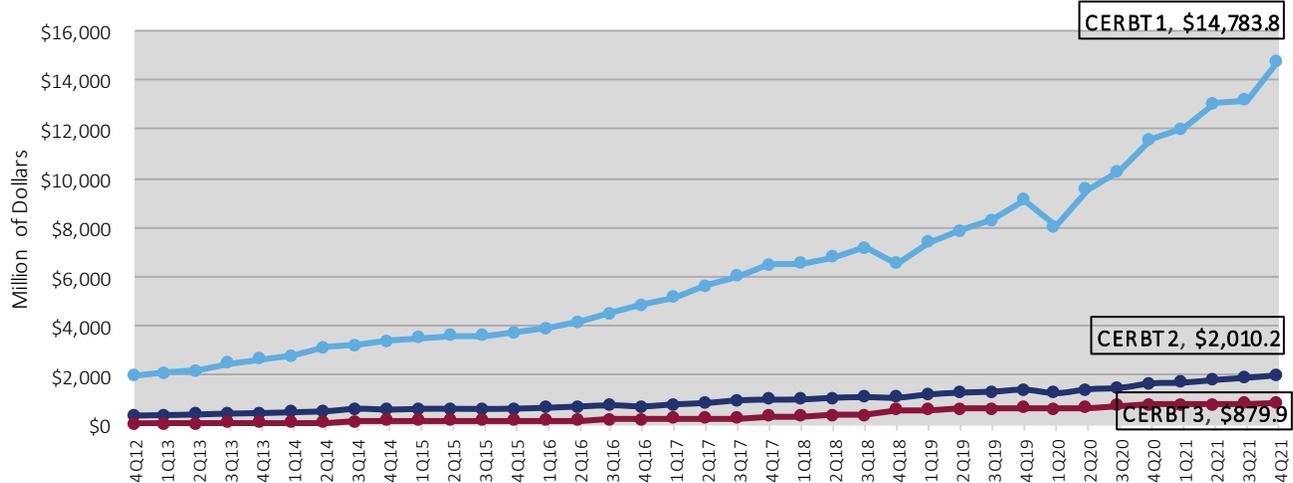
## GROWTH IN ASSETS – CERBT AGGREGATE



## NET OF FEE PLAN PERFORMANCE RESULTS – CERBT AGGREGATE

	Asset Value (\$Million)	Quarter	1-Year	3-Year	5-Year	10-Year
<b>CERBT Aggregate</b>	<b>\$ 17,673.8</b>	<b>4.7%</b>	<b>12.9%</b>	<b>15.6%</b>	<b>10.9%</b>	<b>9.2%</b>
<i>CERBT Trust Aggregate Benchmark</i>		<i>4.6%</i>	<i>12.8%</i>	<i>15.4%</i>	<i>10.6%</i>	<i>8.9%</i>

## GROWTH IN ASSETS – CERBT 1, 2, 3



# CALIFORNIA EMPLOYERS' RETIREE BENEFIT TRUST 1

Period Ended December 31, 2021

## CERBT 1 ASSET ALLOCATION: ACTUAL VS. TARGET WEIGHTS

Asset Class	Actual Asset Allocation	Target Asset Allocation	Difference
<b>TOTAL CERBT 1</b>	<b>100.0%</b>	<b>100.0%</b>	<b>0.0%</b>
Global Equity	58.8%	59.0%	-0.2%
US Fixed Income	25.1%	25.0%	0.1%
TIPS	5.0%	5.0%	0.0%
REITs	8.0%	8.0%	0.0%
Commodities	3.0%	3.0%	0.0%
Cash/Short-Term	0.0%	0.0%	0.0%

## NET OF FEE PLAN PERFORMANCE RESULTS – CERBT 1 <sup>10</sup>

	Asset Value (\$Million)	Asset Value				
		Quarter	1-Year	3-Year	5-Year	10-Year
<b>CERBT Strategy 1</b>	<b>\$ 14,783.8</b>	<b>4.9%</b>	<b>13.7%</b>	<b>16.2%</b>	<b>11.2%</b>	<b>9.5%</b>
<i>Total CERBT Strategy 1 Benchmark</i>		4.8%	13.5%	16.0%	10.9%	9.2%
<b>CERBT 1 Programs:</b>						
<b>Global Equity</b>	<b>\$ 8,697.5</b>	<b>6.2%</b>	<b>18.5%</b>	<b>20.5%</b>	<b>14.4%</b>	<b>12.2%</b>
<i>CERBT Global Equity Benchmark</i>		6.1%	18.2%	20.2%	14.1%	11.9%
<b>Domestic Fixed Income</b>	<b>\$ 3,716.6</b>	<b>1.0%</b>	<b>-2.3%</b>	<b>7.0%</b>	<b>5.2%</b>	<b>4.6%</b>
<i>CalPERS Custom Long Liability</i>		1.1%	-2.2%	6.9%	5.0%	4.0%
<b>TIPS</b>	<b>\$ 740.3</b>	<b>2.4%</b>	<b>5.9%</b>	<b>8.4%</b>	<b>5.3%</b>	<b>3.1%</b>
<i>CalPERS TIPS</i>		2.4%	6.0%	8.4%	5.3%	3.1%
<b>REITs</b>	<b>\$ 1,187.8</b>	<b>10.3%</b>	<b>27.2%</b>	<b>12.8%</b>	<b>8.8%</b>	<b>9.2%</b>
<i>Custom Benchmark</i>		10.2%	26.1%	11.8%	7.8%	8.4%
<b>Commodities</b>	<b>\$ 436.8</b>	<b>1.5%</b>	<b>40.2%</b>	<b>8.0%</b>	<b>2.9%</b>	<b>-5.6%</b>
<i>GSCI Total Return</i>		1.5%	40.4%	8.0%	2.8%	-5.5%
<b>Cash/Short-Term</b>	<b>\$ 4.8</b>	<b>NM</b>	<b>NM</b>	<b>NM</b>	<b>NM</b>	<b>NM</b>
<i>91-Day T-Bill</i>		0.0%	0.0%	1.0%	1.1%	0.6%

<sup>10</sup> CERBT Strategy 1 cash balances are inclusive of employer fund contributions that are in the process of being invested into asset classes. These contributions may occur daily, and tend to be higher at the end of each quarter.

The REIT Custom Benchmark is the FTSE EPRA/NAREIT Developed (Net) Index starting 3/27/2020. Prior to that it was the FTSE EPRA/NAREIT Developed Liquid (Net) Index.

# CALIFORNIA EMPLOYERS' RETIREE BENEFIT TRUST 2

Period Ended December 31, 2021

## CERBT 2 ASSET ALLOCATION: ACTUAL VS. TARGET WEIGHTS

Asset Class	Actual Asset Allocation	Target Asset Allocation	Difference
<b>TOTAL CERBT 2</b>	<b>100.0%</b>	<b>100.0%</b>	<b>0.0%</b>
Global Equity	39.8%	40.0%	-0.2%
US Fixed Income	43.1%	43.0%	0.1%
TIPS	5.0%	5.0%	0.0%
REITs	8.0%	8.0%	0.0%
Commodities	3.9%	4.0%	-0.1%
Cash/Short-Term	0.1%	0.0%	0.1%

## NET OF FEE PLAN PERFORMANCE RESULTS – CERBT 2 <sup>11</sup>

	Asset Value (\$Million)	Asset Value				
		Quarter	1-Year	3-Year	5-Year	10-Year
<b>CERBT Strategy 2</b>	<b>\$ 2,010.2</b>	<b>3.9%</b>	<b>10.1%</b>	<b>13.7%</b>	<b>9.6%</b>	<b>8.1%</b>
<i>Total CERBT Strategy 2 Benchmark</i>		3.9%	10.0%	13.6%	9.3%	7.8%
<b>CERBT 2 Programs:</b>						
<b>Global Equity</b>	<b>\$ 799.9</b>	<b>6.2%</b>	<b>18.5%</b>	<b>20.5%</b>	<b>14.4%</b>	<b>12.2%</b>
<i>CERBT Global Equity Benchmark</i>		6.1%	18.2%	20.2%	14.1%	11.9%
<b>Domestic Fixed Income</b>	<b>\$ 867.3</b>	<b>1.0%</b>	<b>-2.3%</b>	<b>7.0%</b>	<b>5.2%</b>	<b>4.6%</b>
<i>CalPERS Custom Long Liability</i>		1.1%	-2.2%	6.9%	5.0%	4.0%
<b>TIPS</b>	<b>\$ 100.4</b>	<b>2.4%</b>	<b>5.9%</b>	<b>8.4%</b>	<b>5.4%</b>	<b>3.1%</b>
<i>CalPERS TIPS</i>		2.4%	6.0%	8.4%	5.3%	3.1%
<b>REITs</b>	<b>\$ 161.2</b>	<b>10.3%</b>	<b>27.2%</b>	<b>12.7%</b>	<b>8.7%</b>	<b>9.2%</b>
<i>Custom Benchmark</i>		10.2%	26.1%	11.8%	7.8%	8.4%
<b>Commodities</b>	<b>\$ 79.0</b>	<b>1.5%</b>	<b>40.2%</b>	<b>8.0%</b>	<b>3.0%</b>	<b>-5.5%</b>
<i>GSCI Total Return</i>		1.5%	40.4%	8.0%	2.8%	-5.5%
<b>Cash/Short-Term</b>	<b>\$ 2.4</b>	<b>NM</b>	<b>NM</b>	<b>NM</b>	<b>NM</b>	<b>NM</b>
<i>91-Day T-Bill</i>		0.0%	0.0%	1.0%	1.1%	0.6%

<sup>11</sup> CERBT Strategy 2 cash balances are inclusive of employer fund contributions that are in the process of being invested into asset classes. These contributions may occur daily, and tend to be higher at the end of each quarter.

The REIT Custom Benchmark is the FTSE EPRA/NAREIT Developed (Net) Index starting 3/27/2020. Prior to that it was the FTSE EPRA/NAREIT Developed Liquid (Net) Index.

# CALIFORNIA EMPLOYERS' RETIREE BENEFIT TRUST 3

Period Ended December 31, 2021

## CERBT 3 ASSET ALLOCATION: ACTUAL VS. TARGET WEIGHTS

Asset Class	Actual Asset Allocation	Target Asset Allocation	Difference
<b>TOTAL CERBT 3</b>	<b>100.0%</b>	<b>100.0%</b>	<b>0.0%</b>
Global Equity	21.9%	22.0%	-0.1%
US Fixed Income	49.2%	49.0%	0.2%
TIPS	16.0%	16.0%	0.0%
REITs	8.0%	8.0%	0.0%
Commodities	4.9%	5.0%	-0.1%
Cash/Short-Term	0.1%	0.0%	0.1%

## NET OF FEE PLAN PERFORMANCE RESULTS – CERBT 3 <sup>12</sup>

	Asset Value					
	(\$Million)	Quarter	1-Year	3-Year	5-Year	10-Year
<b>CERBT Strategy 3</b>	<b>\$ 879.9</b>	<b>3.1%</b>	<b>7.7%</b>	<b>11.5%</b>	<b>7.9%</b>	<b>6.6%</b>
<i>Total CERBT Strategy 3 Benchmark</i>		3.1%	7.6%	11.4%	7.7%	6.3%
<b>CERBT 3 Programs:</b>						
<b>Global Equity</b>	<b>\$ 192.5</b>	<b>6.2%</b>	<b>18.5%</b>	<b>20.5%</b>	<b>14.4%</b>	<b>12.2%</b>
<i>CERBT Global Equity Benchmark</i>		6.1%	18.2%	20.2%	14.1%	11.9%
<b>Domestic Fixed Income</b>	<b>\$ 432.5</b>	<b>1.0%</b>	<b>-2.3%</b>	<b>7.0%</b>	<b>5.2%</b>	<b>4.6%</b>
<i>CalPERS Custom Long Liability</i>		1.1%	-2.2%	6.9%	5.0%	4.0%
<b>TIPS</b>	<b>\$ 140.7</b>	<b>2.4%</b>	<b>5.9%</b>	<b>8.4%</b>	<b>5.4%</b>	<b>3.1%</b>
<i>CalPERS TIPS</i>		2.4%	6.0%	8.4%	5.3%	3.1%
<b>REITs</b>	<b>\$ 70.5</b>	<b>10.3%</b>	<b>27.2%</b>	<b>12.7%</b>	<b>8.8%</b>	<b>9.2%</b>
<i>Custom Benchmark</i>		10.2%	26.1%	11.8%	7.8%	8.4%
<b>Commodities</b>	<b>\$ 43.2</b>	<b>1.5%</b>	<b>40.2%</b>	<b>8.1%</b>	<b>3.1%</b>	<b>-5.4%</b>
<i>GSCI Total Return</i>		1.5%	40.4%	8.0%	2.8%	-5.5%
<b>Cash/Short-Term</b>	<b>\$ 0.5</b>	<b>NM</b>	<b>NM</b>	<b>NM</b>	<b>NM</b>	<b>NM</b>
<i>91-Day T-Bill</i>		0.0%	0.0%	1.0%	1.1%	0.6%

<sup>12</sup> CERBT Strategy 3 cash balances are inclusive of employer fund contributions that are in the process of being invested into asset classes. These contributions may occur daily, and tend to be higher at the end of each quarter.

The REIT Custom Benchmark is the FTSE EPRA/NAREIT Developed (Net) Index starting 3/27/2020. Prior to that it was the FTSE EPRA/NAREIT Developed Liquid (Net) Index.

## CA EMPLOYERS' PENSION PREFUNDING TRUST

# CA PENSION PREFUNDING TRUST PERFORMANCE

Period Ended December 31, 2021

## CEPPT STRATEGY 1 ASSET ALLOCATION: ACTUAL VS. TARGET WEIGHTS

Asset Class	Actual Asset Allocation	Target Asset Allocation	Difference
<b>PENSION PREFUNDING TRUST-STRATEGY 1</b>	<b>100.0%</b>	<b>100.0%</b>	<b>0.0%</b>
Global Equity	40.0%	40.0%	0.0%
US Fixed Income	47.0%	47.0%	0.0%
REITs	8.0%	8.0%	0.0%
TIPS	5.0%	5.0%	0.0%
Cash/Short-Term	0.0%	0.0%	0.0%

## NET OF FEE PERFORMANCE RESULTS – CEPPT STRATEGY 1 <sup>13</sup>

	Asset Value (\$Million)	Performance				
		Quarter	1-Year	3-Year	5-Year	10-Year
<b>Pension Prefunding Trust - Strategy 1</b>	<b>\$ 50.7</b>	<b>3.4%</b>	<b>8.6%</b>	<b>-.-%</b>	<b>-.-%</b>	<b>-.-%</b>
<i>CEPPT Strategy 1 Policy Benchmark</i>		3.4%	8.6%	-.-%	-.-%	-.-%
<b>CEPPT Strategy 1 Programs:</b>						
<b>CEPPT S1 Equity</b>	<b>\$ 20.3</b>	<b>6.2%</b>	<b>18.5%</b>	<b>-.-%</b>	<b>-.-%</b>	<b>-.-%</b>
<i>MSCI ACWI IMI Net</i>		6.1%	18.2%	-.-%	-.-%	-.-%
<b>CEPPT S1 Fixed Income</b>	<b>\$ 23.8</b>	<b>0.0%</b>	<b>-1.6%</b>	<b>-.-%</b>	<b>-.-%</b>	<b>-.-%</b>
<i>Bloomberg Barc. US Aggregate Bond Idx</i>		0.0%	-1.5%	-.-%	-.-%	-.-%
<b>CEPPT S1 REITs</b>	<b>\$ 4.1</b>	<b>10.3%</b>	<b>27.1%</b>	<b>-.-%</b>	<b>-.-%</b>	<b>-.-%</b>
<i>Custom Benchmark</i>		10.2%	26.1%	-.-%	-.-%	-.-%
<b>CEPPT S1 TIPS</b>	<b>\$ 2.5</b>	<b>2.3%</b>	<b>5.9%</b>	<b>-.-%</b>	<b>-.-%</b>	<b>-.-%</b>
<i>CalPERS TIPS</i>		2.4%	6.0%	-.-%	-.-%	-.-%
<b>CEPPT S1 Cash</b>	<b>\$ 0.0</b>	<b>NM</b>	<b>NM</b>	<b>-.-%</b>	<b>-.-%</b>	<b>-.-%</b>
<i>91-Day Treasury Bill</i>		0.0%	0.0%	-.-%	-.-%	-.-%

<sup>13</sup> CEPPT Strategy 1 cash balances are inclusive of employer fund contributions that are in the process of being invested into asset classes. These contributions may occur daily, and tend to be higher at the end of each quarter.

The REIT Custom Benchmark is the FTSE EPRA/NAREIT Developed (Net) Index starting 3/27/2020. Prior to that it was the FTSE EPRA/NAREIT Developed Liquid (Net) Index.

# CA PENSION PREFUNDING TRUST PERFORMANCE

Period Ended December 31, 2021

## CEPPT STRATEGY 2 ASSET ALLOCATION: ACTUAL VS. TARGET WEIGHTS

Asset Class	Actual Asset Allocation	Target Asset Allocation	Difference
<b>PENSION PREFUNDING TRUST-STRATEGY 2</b>	<b>100.0%</b>	<b>100.0%</b>	<b>0.0%</b>
Global Equity	13.9%	14.0%	-0.1%
US Fixed Income	73.0%	73.0%	0.0%
REITs	8.0%	8.0%	0.0%
TIPS	5.0%	5.0%	0.0%
Cash/Short-Term	0.1%	0.0%	0.1%

## NET OF FEE PERFORMANCE RESULTS – CEPPT STRATEGY 2 <sup>14</sup>

	Asset Value (\$Million)	Asset Value				
		Quarter	1-Year	3-Year	5-Year	10-Year
<b>Pension Prefunding Trust - Strategy 2</b>	<b>\$ 21.5</b>	<b>1.8%</b>	<b>3.6%</b>	<b>-.-%</b>	<b>-.-%</b>	<b>-.-%</b>
<i>CEPPT Strategy 2 Policy Benchmark</i>		1.8%	3.6%	-.-%	-.-%	-.-%
<b>CEPPT Strategy 2 Programs:</b>						
<b>CEPPT S2 Equity</b>	<b>\$ 3.0</b>	<b>6.2%</b>	<b>18.5%</b>	<b>-.-%</b>	<b>-.-%</b>	<b>-.-%</b>
<i>MSCI ACWI IMI Net</i>		6.1%	18.2%	-.-%	-.-%	-.-%
<b>CEPPT S2 Fixed Income</b>	<b>\$ 15.7</b>	<b>0.0%</b>	<b>-1.6%</b>	<b>-.-%</b>	<b>-.-%</b>	<b>-.-%</b>
<i>Bloomberg Barc. US Aggregate Bond Idx</i>		0.0%	-1.5%	-.-%	-.-%	-.-%
<b>CEPPT S2 REITs</b>	<b>\$ 1.7</b>	<b>10.4%</b>	<b>27.1%</b>	<b>-.-%</b>	<b>-.-%</b>	<b>-.-%</b>
<i>Custom Benchmark</i>		10.2%	26.1%	-.-%	-.-%	-.-%
<b>CEPPT S2 TIPS</b>	<b>\$ 1.1</b>	<b>2.4%</b>	<b>5.9%</b>	<b>-.-%</b>	<b>-.-%</b>	<b>-.-%</b>
<i>CalPERS TIPS</i>		2.4%	6.0%	-.-%	-.-%	-.-%
<b>CEPPT S2 Cash</b>	<b>\$ 0.0</b>	<b>NM</b>	<b>NM</b>	<b>-.-%</b>	<b>-.-%</b>	<b>-.-%</b>
<i>91-Day Treasury Bill</i>		0.0%	0.0%	-.-%	-.-%	-.-%

<sup>14</sup> CEPPT Strategy 2 cash balances are inclusive of employer fund contributions that are in the process of being invested into asset classes. These contributions may occur daily, and tend to be higher at the end of each quarter.

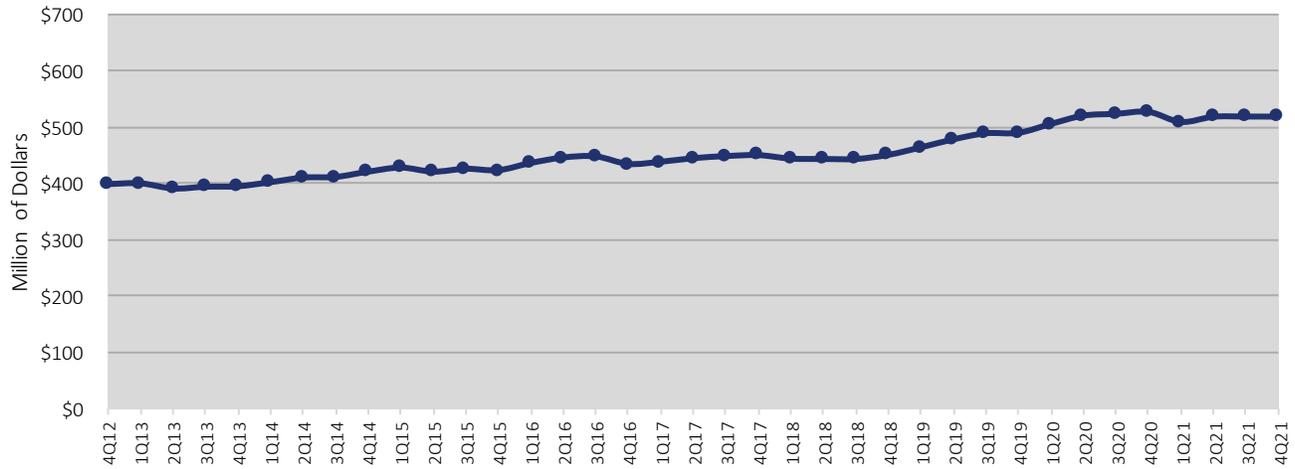
The REIT Custom Benchmark is the FTSE EPRA/NAREIT Developed (Net) Index starting 3/27/2020. Prior to that it was the FTSE EPRA/NAREIT Developed Liquid (Net) Index.

# HEALTH CARE FUND

# HEALTH CARE FUND PERFORMANCE

Period Ended December 31, 2021

## GROWTH IN ASSETS



## NET OF FEE PLAN PERFORMANCE RESULTS – HEALTH CARE FUND

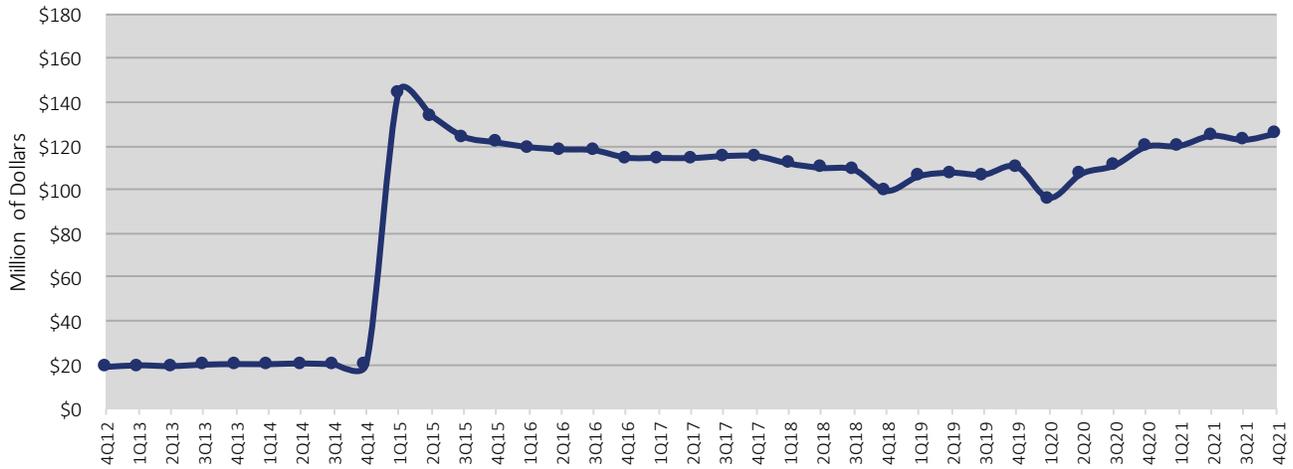
	Asset Value					
	(\$Million)	Quarter	1-Year	3-Year	5-Year	10-Year
<b>CalPERS Health Care Bond Fund</b>	<b>\$ 518.5</b>	<b>0.0%</b>	<b>-1.6%</b>	<b>4.8%</b>	<b>3.6%</b>	<b>3.2%</b>
<i>Bloomberg Barc. US Aggregate Bond Idx</i>		<i>0.0%</i>	<i>-1.5%</i>	<i>4.8%</i>	<i>3.6%</i>	<i>2.9%</i>

## SUPPLEMENTAL INCOME PLANS

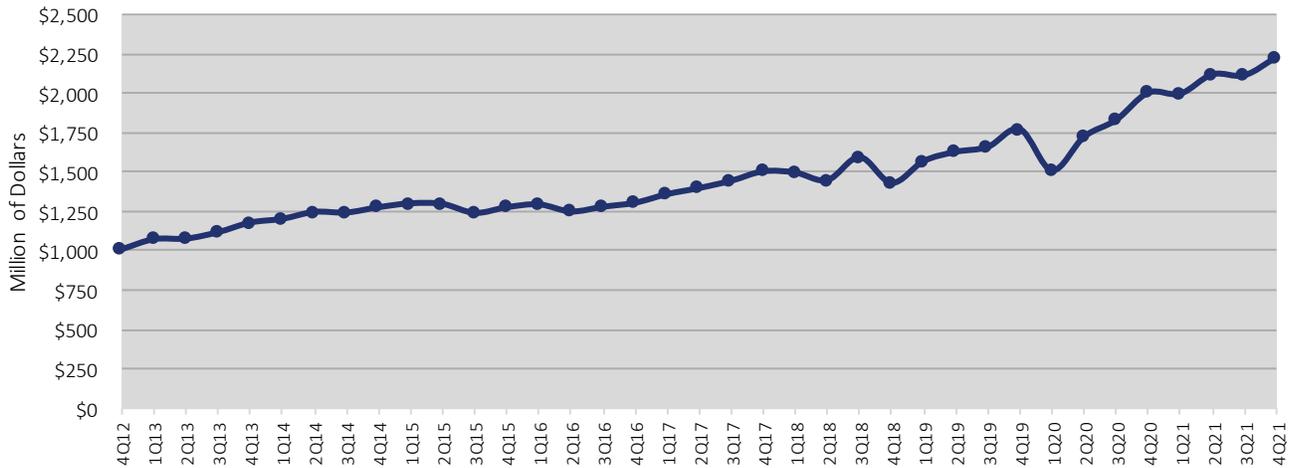
# SUPPLEMENTAL INCOME PLANS

Period Ended December 31, 2021

## GROWTH IN ASSETS – SUPPLEMENTAL CONTRIBUTION PLAN <sup>15</sup>



## GROWTH IN ASSETS – 457 PROGRAM



<sup>15</sup> SCP experienced a steep increase in assets during the 1<sup>st</sup> quarter of 2015. This was due to the termination of the State Peace Officers' and Firefighters' (POFF) Defined Contribution Plan, which took place June 1, 2014. The termination required distributions of participants' money in the POFF DC Plan in accordance with state and federal law, and SCP was designated as the default plan for participants who did not make an affirmative election to take a distribution.

# SUPPLEMENTAL CONTRIBUTION PLAN PERFORMANCE

Period Ended December 31, 2021

## NET OF FEE PLAN PERFORMANCE RESULTS – SCP

	Asset Value (\$Million)	Quarter	1-Year	3-Year	5-Year	10-Year
<b>CalPERS Target Income Fund</b>	<b>\$ 18.2</b>	<b>2.1%</b>	<b>5.3%</b>	<b>10.2%</b>	<b>6.7%</b>	<b>5.4%</b>
<i>SIP Income Policy</i>		2.0%	5.3%	10.0%	6.6%	5.2%
<b>CalPERS Target 2015 Fund</b>	<b>\$ 16.2</b>	<b>2.1%</b>	<b>5.5%</b>	<b>10.7%</b>	<b>6.8%</b>	<b>6.1%</b>
<i>SIP 2015 Policy</i>		2.0%	5.5%	10.5%	6.6%	6.0%
<b>CalPERS Target 2020 Fund</b>	<b>\$ 23.7</b>	<b>2.8%</b>	<b>7.9%</b>	<b>12.7%</b>	<b>7.8%</b>	<b>7.0%</b>
<i>SIP 2020 Policy</i>		2.8%	7.9%	12.5%	7.6%	6.8%
<b>CalPERS Target 2025 Fund</b>	<b>\$ 23.2</b>	<b>3.7%</b>	<b>10.3%</b>	<b>14.6%</b>	<b>9.2%</b>	<b>8.1%</b>
<i>SIP 2025 Policy</i>		3.5%	10.2%	14.4%	9.1%	8.0%
<b>CalPERS Target 2030 Fund</b>	<b>\$ 18.0</b>	<b>4.4%</b>	<b>12.7%</b>	<b>16.4%</b>	<b>10.3%</b>	<b>9.0%</b>
<i>SIP 2030 Policy</i>		4.3%	12.6%	16.2%	10.2%	8.9%
<b>CalPERS Target 2035 Fund</b>	<b>\$ 9.4</b>	<b>5.1%</b>	<b>15.1%</b>	<b>18.2%</b>	<b>11.5%</b>	<b>-.%</b>
<i>SIP 2035 Policy</i>		5.0%	15.0%	18.0%	11.4%	-.%
<b>CalPERS Target 2040 Fund</b>	<b>\$ 5.1</b>	<b>5.9%</b>	<b>17.3%</b>	<b>19.5%</b>	<b>12.6%</b>	<b>10.7%</b>
<i>SIP 2040 Policy</i>		5.7%	17.2%	19.3%	12.5%	10.6%
<b>CalPERS Target 2045 Fund</b>	<b>\$ 1.2</b>	<b>5.9%</b>	<b>17.3%</b>	<b>19.5%</b>	<b>13.1%</b>	<b>-.%</b>
<i>SIP 2045 Policy</i>		5.7%	17.2%	19.3%	13.0%	-.%
<b>CalPERS Target 2050 Fund</b>	<b>\$ 0.2</b>	<b>5.9%</b>	<b>17.3%</b>	<b>19.5%</b>	<b>13.1%</b>	<b>-.%</b>
<i>SIP 2050 Policy</i>		5.7%	17.2%	19.3%	13.0%	-.%
<b>CalPERS Target 2055 Fund</b>	<b>\$ 0.1</b>	<b>5.9%</b>	<b>17.3%</b>	<b>19.5%</b>	<b>13.1%</b>	<b>-.%</b>
<i>SIP 2055 Policy</i>		5.7%	17.2%	19.3%	13.0%	-.%
<b>CalPERS Target 2060 Fund</b>	<b>\$ 0.0</b>	<b>6.0%</b>	<b>-.%</b>	<b>-.%</b>	<b>-.%</b>	<b>-.%</b>
<i>SIP 2060 Policy</i>		5.7%	-.%	-.%	-.%	-.%
<b>SSgA Russell All Cap Index SL</b>	<b>\$ 6.2</b>	<b>9.3%</b>	<b>25.8%</b>	<b>25.8%</b>	<b>18.0%</b>	<b>-.%</b>
<i>Russell 3000</i>		9.3%	25.7%	25.8%	18.0%	-.%
<b>SSgA Global All Cap ex-US SL</b>	<b>\$ 0.7</b>	<b>2.1%</b>	<b>8.7%</b>	<b>13.9%</b>	<b>10.1%</b>	<b>-.%</b>
<i>MSCI ACWI ex-US IMI (N)</i>		1.6%	8.5%	13.6%	9.8%	-.%
<b>SSgA US Bond Index SL</b>	<b>\$ 0.7</b>	<b>0.0%</b>	<b>-1.6%</b>	<b>4.8%</b>	<b>3.6%</b>	<b>-.%</b>
<i>Bloomberg Barc. US Aggregate Bond Idx</i>		0.0%	-1.5%	4.8%	3.6%	-.%
<b>SSgA US Short Term Bond</b>	<b>\$ 0.5</b>	<b>-0.6%</b>	<b>-0.5%</b>	<b>2.2%</b>	<b>1.8%</b>	<b>-.%</b>
<i>Bloomberg Barc. US Gov/Credit</i>		-0.6%	-0.5%	2.3%	1.9%	-.%
<b>SSgA Real Asset NL</b>	<b>\$ 0.8</b>	<b>4.8%</b>	<b>21.0%</b>	<b>12.4%</b>	<b>7.4%</b>	<b>-.%</b>
<i>Real Assets Blended Index</i>		4.7%	21.2%	12.2%	7.4%	-.%
<b>SSgA STIF</b>	<b>\$ 1.5</b>	<b>0.0%</b>	<b>0.1%</b>	<b>1.0%</b>	<b>1.3%</b>	<b>-.%</b>
<i>BofAML 3 Months US T-Bill</i>		0.0%	0.0%	1.0%	1.1%	-.%
<b>SCP AGGREGATE</b>	<b>\$ 125.6</b>					

# 457 PROGRAM PERFORMANCE

Period Ended December 31, 2021

## NET OF FEE PLAN PERFORMANCE RESULTS – 457

	Asset Value (\$Million)	Quarter	1-Year	3-Year	5-Year	10-Year
<b>CalPERS Target Income Fund</b>	<b>\$ 103.3</b>	<b>2.1%</b>	<b>5.3%</b>	<b>10.2%</b>	<b>6.7%</b>	<b>5.5%</b>
<i>SIP Income Policy</i>		2.0%	5.3%	10.0%	6.6%	5.2%
<b>CalPERS Target 2015 Fund</b>	<b>\$ 83.3</b>	<b>2.1%</b>	<b>5.5%</b>	<b>10.7%</b>	<b>6.8%</b>	<b>6.1%</b>
<i>SIP 2015 Policy</i>		2.0%	5.5%	10.5%	6.6%	6.0%
<b>CalPERS Target 2020 Fund</b>	<b>\$ 164.3</b>	<b>2.8%</b>	<b>7.9%</b>	<b>12.7%</b>	<b>7.8%</b>	<b>7.0%</b>
<i>SIP 2020 Policy</i>		2.8%	7.9%	12.5%	7.6%	6.8%
<b>CalPERS Target 2025 Fund</b>	<b>\$ 211.7</b>	<b>3.6%</b>	<b>10.3%</b>	<b>14.6%</b>	<b>9.2%</b>	<b>8.1%</b>
<i>SIP 2025 Policy</i>		3.5%	10.2%	14.4%	9.1%	8.0%
<b>CalPERS Target 2030 Fund</b>	<b>\$ 208.2</b>	<b>4.4%</b>	<b>12.7%</b>	<b>16.4%</b>	<b>10.3%</b>	<b>9.0%</b>
<i>SIP 2030 Policy</i>		4.3%	12.6%	16.2%	10.2%	8.9%
<b>CalPERS Target 2035 Fund</b>	<b>\$ 134.6</b>	<b>5.1%</b>	<b>15.1%</b>	<b>18.2%</b>	<b>11.5%</b>	<b>9.9%</b>
<i>SIP 2035 Policy</i>		5.0%	15.0%	18.0%	11.4%	9.9%
<b>CalPERS Target 2040 Fund</b>	<b>\$ 130.1</b>	<b>5.9%</b>	<b>17.3%</b>	<b>19.5%</b>	<b>12.6%</b>	<b>10.7%</b>
<i>SIP 2040 Policy</i>		5.7%	17.2%	19.3%	12.5%	10.6%
<b>CalPERS Target 2045 Fund</b>	<b>\$ 75.8</b>	<b>5.9%</b>	<b>17.3%</b>	<b>19.5%</b>	<b>13.1%</b>	<b>11.0%</b>
<i>SIP 2045 Policy</i>		5.7%	17.2%	19.3%	13.0%	10.9%
<b>CalPERS Target 2050 Fund</b>	<b>\$ 43.9</b>	<b>5.9%</b>	<b>17.3%</b>	<b>19.5%</b>	<b>13.1%</b>	<b>11.0%</b>
<i>SIP 2050 Policy</i>		5.7%	17.2%	19.3%	13.0%	10.9%
<b>CalPERS Target 2055 Fund</b>	<b>\$ 15.9</b>	<b>5.9%</b>	<b>17.3%</b>	<b>19.5%</b>	<b>13.1%</b>	<b>--%</b>
<i>SIP 2055 Policy</i>		5.7%	17.2%	19.3%	13.0%	--%
<b>CalPERS Target 2060 Fund</b>	<b>\$ 9.1</b>	<b>5.9%</b>	<b>17.3%</b>	<b>19.5%</b>	<b>--%</b>	<b>--%</b>
<i>SIP 2060 Policy</i>		5.7%	17.2%	19.3%	--%	--%
<b>SSgA Russell All Cap Index SL</b>	<b>\$ 751.3</b>	<b>9.3%</b>	<b>25.8%</b>	<b>25.8%</b>	<b>18.0%</b>	<b>--%</b>
<i>Russell 3000</i>		9.3%	25.7%	25.8%	18.0%	--%
<b>SSgA Global All Cap ex-US SL</b>	<b>\$ 77.0</b>	<b>2.1%</b>	<b>8.7%</b>	<b>13.9%</b>	<b>10.1%</b>	<b>--%</b>
<i>MSCI ACWI ex-US IMI (N)</i>		1.6%	8.5%	13.6%	9.8%	--%
<b>SSgA US Bond Index SL</b>	<b>\$ 62.8</b>	<b>0.0%</b>	<b>-1.6%</b>	<b>4.8%</b>	<b>3.6%</b>	<b>--%</b>
<i>Bloomberg Barc. US Aggregate Bond Idx</i>		0.0%	-1.5%	4.8%	3.6%	--%
<b>SSgA US Short Term Bond</b>	<b>\$ 37.7</b>	<b>-0.6%</b>	<b>-0.5%</b>	<b>2.2%</b>	<b>1.8%</b>	<b>--%</b>
<i>Bloomberg Barc. US Gov/Credit</i>		-0.6%	-0.5%	2.3%	1.9%	--%
<b>SSgA Real Asset NL</b>	<b>\$ 13.6</b>	<b>4.8%</b>	<b>21.0%</b>	<b>12.4%</b>	<b>7.4%</b>	<b>--%</b>
<i>Real Assets Blended Index</i>		4.7%	21.2%	12.2%	7.4%	--%
<b>SSgA STIF</b>	<b>\$ 106.0</b>	<b>0.0%</b>	<b>0.1%</b>	<b>1.0%</b>	<b>1.3%</b>	<b>--%</b>
<i>BofAML 3 Months US T-Bill</i>		0.0%	0.0%	1.0%	1.1%	--%
<b>457 AGGREGATE</b>	<b>\$ 2,228.5</b>					

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COMPLIANCE CODE

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<sup>i</sup> 100% Global Equity

<sup>ii</sup> 60% Low Vol Global Equity, 40% US Convertibles

<sup>iii</sup> 42.5% U.S. High Yield, 42.5% EMD, 15% Banks Loans

<sup>iv</sup> 43% Global REITS/GLI, 33% Commodities, 48% TIPS, 9% Gold, -31% Cash

<sup>v</sup> 100% US Core Bonds

## More information

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