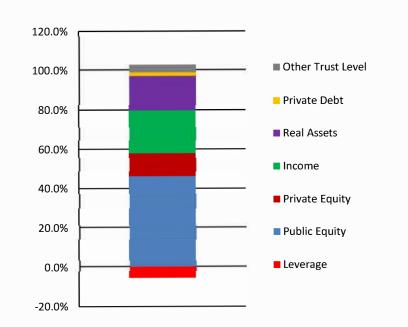
CalPERS

CalPERS Trust Level Quarterly Update - Performance & Risk

Public Employees' Retirement Fund (PERF) As of December 31, 2022

Asset Allocation

	nding Asset lue (bil)	Current Allocation (%)	SAA Interim Target Weight (%)	Variance (%)	Policy Range
Public Equity ¹	\$ 210.1	47.5%	52.8%	(5.3%)	± 7%
Private Equity ²	\$ 50.3	11.4%	9.0%	2.4%	± 5%
Income ¹	\$ 105.0	23.7%	24.8%	(1.1%)	± 6%
Real Assets ²	\$ 73.7	16.7%	13.4%	3.3%	± 5%
Private Debt ²	\$ 8.9	2.0%	1.0%	1.0%	± 5%
Other Trust Level	\$ 16.6	3.8%			
Leverage	\$ (22.4)	-5.1%			
Strategic	\$ (5.8)	-1.3%	(1.0%)	(0.3%)	
Active ³	\$ (16.6)	-3.8%			
Total PERF	\$ 442.2	100.0%	100.0%		



ТАР	\$ 0.2
PERF Plus TAP	\$ 442.4

Performance Summary

																		5-Yr
	F	Inding		10-Yr			5-Yr			3-Yr			1-Yr			FYTD		Realized
Performance		Asset	Total	BM	Excess	Total	BM	Excess	Total	BM	Excess	Total	BM	Excess	Total	BM	Excess	Information
Summary	Va	lue (bil)	Return	Return	Bps	Return	Return	Bps	Return	Return	Bps	Return	Return	Bps	Return	Return	Bps	Ratio ⁵
Public Equity	\$	210.1	8.5%	8.4%	13	5.3%	5.2%	4	4.1%	3.8%	27	(15.8%)	(16.0%)	18	2.3%	2.2%	8	-
Cap Wtd. ¹	\$	156.9	8.7%	8.5%	14	5.6%	5.5%	6	4.7%	4.4%	34	(17.9%)	(18.2%)	27	2.7%	2.6%	11	0.2
Factor Wtd.	\$	53.2	-	12	-	323	3 2 0	87 2 1	2.2%	2.1%	4	(11.0%)	(10.9%)	(8)	1.8%	1.8%	(2)	: 1 1
Private Equity ²	\$	50.3	12.4%	10.8%	154	12.1%	6.5%	565	15.3%	5.7%	959	(2.3%)	(19.6%)	1,728	(6.0%)	(20.6%)	1,462	·•.
Income	\$	105.0	1.6%	1.0%	52	(0.1%)	(0.4%)	25	(3.6%)	(3.7%)	17	(18.5%)	(18.4%)	(10)	(3.5%)	(3.4%)	(7)	
Treasury ¹	\$	14.7	0.2%	0.2%	(1)	(1.8%)	(1.7%)	(7)	(6.3%)	(6.1%)	(15)	(24.9%)	(24.9%)	0	(8.4%)	(8.4%)	0	2-6
MBS	\$	23.6	1.6%	0.8%	84	(0.2%)	(0.4%)	21	(3.0%)	(3.1%)	4	(11.8%)	(11.7%)	(8)	(3.2%)	(3.3%)	4	0.7
IG Corporates	\$	25.7	2.7%	2.1%	62	0.1%	(0.3%)	44	(4.5%)	(4.8%)	37	(22.8%)	(22.6%)	(24)	(3.1%)	(2.9%)	(14)	1.0
High Yield	\$	20.3	ē	10	E.	18. 1951	-	Ξ.	(0.4%)	(0.4%)	(1)	(10.2%)	(10.2%)	(1)	3.7%	3.7%	(2)	18. 19.
EM Sovereign Bonds	\$	14.5	× .	5 4 2	~	5 8 :	140	-	-		:+	-	-	246	(#1)		÷	5 = :
Total Fund Income	\$	6.2		276	~	3573	2.75	~		0 .	s.	(25.3%)	(24.9%)	(31)	(8.7%)	(8.4%)	(38)	s.#3
Real Assets ²	\$	73.7	9.2%	9.5%	(33)	7.9%	9.1%	(120)	9.8%	11.3%	(149)	14.3%	20.9%	(651)	2.7%	4.7%	(194)	3 2 8
Private Debt ²	\$	8.9	-		-	3.50	3.5	-	-	5 8 3	ie.	=		2000	1.8%	(3.5%)	527	s - 2
Other Trust Level	\$	16.6																
LLER ⁴	\$	14.2	· -		-	2.2%	1.2%	100	1.4%	1.0%	40	0.3%	2.0%	(165)	2.2%	1.6%	67	
Opportunistic ²	\$	0.2	5		i.	275	850	~	5	-	<i></i>	(2.8%)	2.0%	(474)	(5.9%)	1.6%	(751)	
Other	\$	2.2																
Leverage	\$	(22.4)																
Strategic	\$	(5.8)																
Active ³	\$	(16.6)																
Total PERF	\$	442.2	7.0%	6.7%	29	5.0%	4.7%	37	4.2%	3.3%	89	(11.2%)	(12.6%)	137	0.1%	(1.5%)	157	
[-								(2.001)			100.000			10.00()			
TAP	\$	0.2	-	(.		0.7%	3 7 6	-	(2.0%)	1.		[(21.4%)	25	5 .	<u>(6.0%)</u>			5 7 5

¹ Asset value of Public Equity Cap Weighted and Income Treasury segments includes notional exposure obtained via trust level Synthetic Cap Weighted and Synthetic Treasury portfolios respectively.

² Market exposure of private asset classes reported at NAV.

³ Active leverage may differ from other reporting given amounts do not include leverage taken by specific segments (e.g. – Real Asset Leverage).

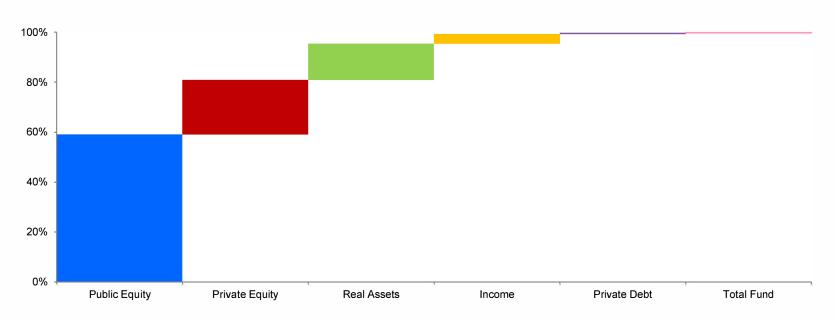
⁴ Low Liquidity Enhanced Return (LLER) was historically funded out of Cap Weighted and Treasury so returns are also reflected in the returns of Cap Weighted and Long Treasury through 12/21/2020; but are only recorded once in Total PERF returns. Returns prior to 12/21/2020 are for reference only.

⁵ Information Ratio is excess return divided by realized tracking error. This presents a perspective on risk adjusted performance. The metric is not meaningful for illiquid assets (where realized volatility tends to be muted by valuation based pricing and benchmark issues) or for indexed strategies.

Public Employees' Retirement Fund (PERF)

Total PERF Risk			
Risk Measure	12/30/2022	9/30/2022	Explanation of Risk Measures:
Forecasted Volatility ¹ Portfolio Benchmark	13.7% 12.6%	13.7% 12.5%	The total (absolute) volatility is the annualized standard deviation of the Portfolio total return distribution and is indicative of the plan's dispersion given the current environment. The metric is model-based and could underestimate potential drawdowns.
Forecasted Tracking Error (T Portfolio	otal Fund) ¹ 1.59%	1.62%	Forecasted tracking error is the annualized standard deviation of the differential return between the portfolio and an equal investment in the benchmark.
Forecasted Tracking Error (A Portfolio	octionable) ¹ 0.10%	0.11%	Excludes from the above measure the effect of active exposure from private asset classes (Private Equity, Real Assets and Private Debt) arising from the modeling challenges and the non-investible nature of their benchmarks. This metric focuses on controllable and measurable active exposures and captures all public markets strategies and asset allocation management.

December 30, 2022	Volatili	ity	Tracking	Error
	Annualized	5-Year	Annualized	5 -Year
Asset Class	Forecasted (%) ¹	Realized (%) ²	Forecasted (%) ¹	Realized (%) ²
Public Equity	17.4	16.9	0.1	0.5
Cap Weighted	18.7	18.0	0.2	0.3
Factor Weighted	13.8	-	0.1	-
Income	6.5	8.6	0.2	1.2
Treasury	11.2	11.1	0.2	0.6
MBS	6.1	4.7	0.5	0.3
IG Corp	9.5	11.2	0.6	0.4
High Yield	6.9	-	0.3	-
EM Sov Debt	7.9	-	0.4	-
Total Fund Income	11.1	-	0.6	-
Total Fund	2.7	-	2.7	-
LLER	2.9	2.9	2.9	2.9
Opportunistic	4.5	-	4.5	-
Other	3.3	-	3.3	-
Total PERF Actionable			0.10	0.24
Private Equity	27.4	10.7	10.9	13.2
Real Assets	13.5	4.5	4.2	2.5
Private Debt	6.7	-	2.2	-
Total PERF	13.7	9.3	1.59	1.60



Program Contribution to Forecasted Volatility

¹ Forecasted Volatility and Tracking Error are based on Aladdin risk model.

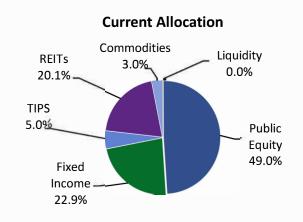
² Realized Volatility and Tracking Error for private asset classes are computed from quarterly net returns.

CERBT Strategy 1 Fund (CERBT 1) & CERBT Strategy 2 Fund (CERBT 2)

As of December 31, 2022

Asset Allocation, Performance & Realized Risk Summary - CERBT 1

Asset Allocation	Ending Asset Value (mil)	Current Allocation (%)	Policy Weight (%) ¹	Variance (%)	Policy Range
Public Equity	\$ 6,480.8	49.0%	49.0%	0.0%	± 5%
Fixed Income	\$ 3,022.4	22.9%	23.0%	(0.1%)	± 5%
TIPS	\$ 654.6	5.0%	5.0%	(0.0%)	± 3%
REITS	\$ 2,656.5	20.1%	20.0%	0.1%	± 5%
Commodities	\$ 395.7	3.0%	3.0%	(0.0%)	± 3%
Liquidity	\$ 3.4	0.0%	0.0%	0.0%	+ 2%
Total CERBT 1	\$13,213.5	100.0%	100.0%	0.0%	



	10-Yr		5-Yr		3-Yr			1-Yr			FYTD				
Performance	Total	BM	Excess	Total	BM	Excess	Total	BM	Excess	Total	BM	Excess	Total	BM	Excess
Summary ²	Return	Return	Bps	Return	Return	Bps	Return	Return	Bps	Return	Return	Bps	Return	Return	Bps
Public Equity	8.3%	7.9%	33	5.3%	5.0%	29	4.2%	3.9%	29	(18.1%)	(18.4%)	28	2.7%	2.6%	12
Fixed Income	1.5%	1.0%	43	(0.7%)	(0.7%)	2	(4.6%)	(4.5%)	(8)	(20.2%)	(19.9%)	(23)	(5.3%)	(5.0%)	(30)
TIPS	1.1%	1.1%	(5)	2.1%	2.1%	(4)	1.1%	1.2%	(7)	(12.0%)	(11.8%)	(13)	(3.4%)	(3.2%)	(14)
REITs	3.5%	2.7%	80	0.6%	(0.2%)	85	(4.0%)	(4.9%)	83	(24.6%)	(25.1%)	50	(5.1%)	(5.5%)	38
Commodities	(3.4%)	(3.3%)	(13)	6.4%	6.5%	(4)	10.3%	10.5%	(15)	25.3%	26.0%	(67)	(7.5%)	(7.2%)	(23)
Total CERBT 1	5.9%	5.6%	31	3.7%	3.5%	20	1.9%	1.7%	19	(17.8%)	(17.9%)	8	(0.9%)	(0.9%)	(5)

5-Yr Realized Volatility: 13.3%

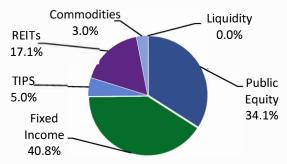
5-Yı

5-Yr Realized Tracking Error: 0.1%

Asset Allocation, Performance & Realized Risk Summary - CERBT 2

Asset Allocation	Ending Asset lue (mil)	Current Allocation (%)	Policy Weight (%) ¹	Variance (%)	Policy Range
Public Equity	\$ 573.5	34.1%	34.0%	0.1%	± 5%
Fixed Income	\$ 686.7	40.8%	41.0%	(0.2%)	± 5%
TIPS	\$ 83.5	5.0%	5.0%	(0.0%)	± 3%
REITS	\$ 288.2	17.1%	17.0%	0.1%	± 5%
Commodities	\$ 50.5	3.0%	3.0%	0.0%	± 3%
Liquidity	\$ 0.1	0.0%	0.0%	0.0%	+ 2%
Total CERBT 2	\$ 1,682.6	100.0%	100.0%	0.0%	





	10-Yr		5-Yr		3-Yr			1-Yr			FYTD				
Performance	Total	BM	Excess	Total	BM	Excess	Total	BM	Excess	Total	BM	Excess	Total	BM	Excess
Summary ²	Return	Return	Bps	Return	Return	Bps	Return	Return	Bps	Return	Return	Bps	Return	Return	Bps
Public Equity	8.3%	7.9%	32	5.3%	5.0%	29	4.2%	3.9%	27	(18.1%)	(18.4%)	28	2.7%	2.6%	12
Fixed Income	1.5%	1.0%	43	(0.7%)	(0.7%)	2	(4.6%)	(4.5%)	(9)	(20.2%)	(19.9%)	(23)	(5.3%)	(5.0%)	(30)
TIPS	1.1%	1.1%	(5)	2.1%	2.1%	(3)	1.1%	1.2%	(7)	(12.0%)	(11.8%)	(13)	(3.4%)	(3.2%)	(14)
REITs	3.5%	2.7%	78	0.6%	(0.2%)	84	(4.1%)	(4.9%)	81	(24.6%)	(25.1%)	50	(5.1%)	(5.5%)	38
Commodities	(3.3%)	(3.3%)	(4)	6.5%	6.5%	9	10.3%	10.5%	(15)	25.3%	26.0%	(67)	(7.5%)	(7.2%)	(23)
Total CERBT 2	4.6%	4.4%	27	2.8%	2.7%	14	0.6%	0.5%	10	(17.6%)	(17.6%)	(2)	(2.3%)	(2.2%)	(10)

5-Yr Realized Volatility:

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11.0%
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5-Yr Realized Tracking Error: 0.1%

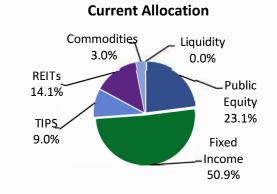
¹ Allocations approved by the Board of Administration at the March 2022 Investment Committee Meeting.

² Liquidity is for operational purposes rather than a strategic allocation target and is not included in the performance summary table due to negligible impact on performance. All performance is reported net of investment expenses.

CERBT Strategy 3 Fund (CERBT 3) & Legislators' Retirement System Fund (LRF) As of December 31, 2022

Asset Allocation, Performance & Realized Risk Summary - CERBT 3

Asset Allocation	1	nding Asset ue (mil)	Current Allocation (%)	Policy Weight (%) ¹	Variance (%)	Policy Range
Public Equity	\$	171.3	23.1%	23.0%	0.1%	± 5%
Fixed Income	\$	378.1	50.9%	51.0%	(0.1%)	±5%
TIPS	\$	66.9	9.0%	9.0%	(0.0%)	± 3%
REITs	\$	104.4	14.1%	14.0%	0.1%	± 5%
Commodities	\$	22.3	3.0%	3.0%	0.0%	± 3%
Liquidity	\$	0.1	0.0%	0.0%	0.0%	+ 2%
Total CERBT 3	\$	743.1	100.0%	100.0%	0.0%	



	10-Yr			5-Yr			3-Yr			1-Yr			FYTD		
Performance Summary ²	Total Return	BM Return	Excess Bps												
Public Equity	8.2%	7.9%	30	5.2%	5.0%	28	4.2%	3.9%	27	(18.1%)	(18.4%)	28	2.7%	2.6%	12
Fixed Income	1.4%	1.0%	40	(0.7%)	(0.7%)	2	(4.6%)	(4.5%)	(9)	(20.2%)	(19.9%)	(23)	(5.3%)	(5.0%)	(30)
TIPS	1.1%	1.1%	(3)	2.1%	2.1%	(2)	1.1%	1.2%	(7)	(12.0%)	(11.8%)	(13)	(3.4%)	(3.2%)	(14)
REITs	3.5%	2.7%	76	0.6%	(0.2%)	86	(4.1%)	(4.9%)	80	(24.6%)	(25.1%)	50	(5.1%)	(5.5%)	38
Commodities	(3.2%)	(3.3%)	9	6.7%	6.5%	24	10.3%	10.5%	(16)	25.3%	26.0%	(67)	(7.5%)	(7.2%)	(23)
Total CERBT 3	3.5%	3.3%	26	2.2%	2.1%	9	(0.1%)	(0.2%)	5	(16.4%)	(16.3%)	(7)	(3.1%)	(3.0%)	(11)

5-Yr Realized Volatility:

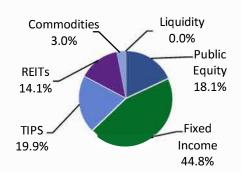
9.0%

5-Yr Realized Tracking Error: 0.1%

Asset Allocation, Performance & Realized Risk Summary - LRF

Asset Allocation	4	nding Asset ue (mil)	Current Allocation (%)	Policy Weight (%) ¹	Variance (%)	Policy Range
Public Equity	\$	17.3	18.1%	18.0%	0.1%	± 5%
Fixed Income	\$	42.9	44.8%	45.0%	(0.2%)	± 5%
TIPS	\$	19.1	19.9%	20.0%	(0.1%)	± 3%
REITS	\$	13.5	14.1%	14.0%	0.1%	± 5%
Commodities	\$	2.9	3.0%	3.0%	0.0%	± 3%
Liquidity	\$	0.0	0.0%	0.0%	0.0%	+ 2%
Total LRF	\$	95.6	100.0%	100.0%	0.0%	





		10-Yr			5-Yr			3-Yr			1-Yr			FYTD	
Performance	Total	BM	Excess	Total	BM	Excess	Total	BM	Excess	Total	BM	Excess	Total	BM	Excess
Summary ²	Return	Return	Bps	Return	Return	Bps	Return	Return	Bps	Return	Return	Bps	Return	Return	Bps
Public Equity	8.5%	8.3%	24	5.4%	5.1%	35	4.3%	3.9%	37	(18.0%)	(18.4%)	37	2.7%	2.6%	16
Fixed Income	1.5%	1.0%	42	(0.7%)	(0.7%)	1	(4.6%)	(4.5%)	(9)	(20.1%)	(19.9%)	(21)	(5.2%)	(5.0%)	(28)
TIPS	1.1%	1.1%	(3)	2.1%	2.1%	(1)	1.2%	1.2%	(5)	(12.0%)	(11.8%)	(13)	(3.4%)	(3.2%)	(15)
REITs	3.9%	3.5%	39	0.7%	(0.0%)	73	(4.1%)	(4.9%)	79	(24.6%)	(25.1%)	45	(5.2%)	(5.5%)	32
Commodities	(3.2%)	(3.3%)	10	6.7%	6.5%	22	10.3%	10.5%	(16)	25.3%	26.0%	(67)	(7.5%)	(7.2%)	(23)
Total LRF	3.6%	3.4%	23	2.2%	2.1%	11	(0.1%)	(0.2%)	7	(16.6%)	(16.5%)	(7)	(3.3%)	(3.2%)	(12)

5-Yr Realized Volatility:

```
8.9%
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5-Yr Realized Tracking Error:

0.1%

¹ Allocations approved by the Board of Administration at the March 2022 Investment Committee Meeting.

² Liquidity is for operational purposes rather than a strategic allocation target and is not included in the performance summary table due to negligible impact on performance. All performance is reported net of investment expenses.

5-Yr Realized Volatility:

Judges' Retirement Fund (JRF) & Judges' Retirement System Fund II (JRFII) As of December 31, 2022

Asset Allocation, Performance & Realized Risk Summary - JRF

Asset Allocation	A	nding Isset Ie (mil)	Current Allocation (%)	Policy Weight (%) ¹	Variance (%)	Policy Range
Cash	\$	47.6	100.0%	100.0%	0.0%	+ 0%
Total JRF	\$	47.6	100.0%	100.0%	0.0%	



		10-Yr			5-Yr			3-Yr			1-Yr			FYTD	
Performance Summary	Total Return	BM Return	Excess Bps	Total Return		Excess Bps	Total Return	BM Return	Excess Bps		BM Return	Excess Bps	Total Return	BM Return	Excess Bps
Cash	0.9%	0.8%	10	1.4%	1.3%	11	0.8%	0.7%	11	1.8%	1.5%	35	1.6%	1.3%	26
Total JRF	0.9%	0.8%	10	1.4%	1.3%	11	0.8%	0.7%	11	1.8%	1.5%	35	1.6%	1.3%	26

0.1%

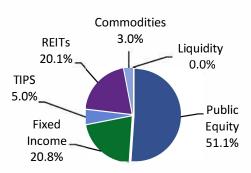
5-Yr Realized Tracking Error:

Asset Allocation, Performance & Realized Risk Summary - JRFII

0.3%

Asset Allocation	Ending Asset Value (mil)	Current Allocation (%)	Policy Weight (%) ¹	Variance (%)	Policy Range
Public Equity	\$ 1,090.0	51.1%	51.0%	0.1%	± 5%
Fixed Income	\$ 444.5	20.8%	21.0%	(0.2%)	± 5%
TIPS	\$ 105.9	5.0%	5.0%	(0.0%)	± 3%
REITS	\$ 429.5	20.1%	20.0%	0.1%	± 5%
Commodities	\$ 64.0	3.0%	3.0%	0.0%	± 3%
Liquidity	\$ 0.0	0.0%	0.0%	0.0%	+ 2%
Total JRFII	\$ 2,134.0	100.0%	100.0%	0.0%	

Current Allocation



		10-Yr			5-Yr			3-Yr			1-Yr			FYTD	
Performance	Total	BM	Excess	Total	BM	Excess	Total	BM	Excess	Total	BM	Excess	Total	BM	Excess
Summary ²	Return	Return	Bps	Return	Return	Bps	Return	Return	Bps	Return	Return	Bps	Return	Return	Bps
Public Equity	8.5%	8.3%	24	5.4%	5.1%	36	4.3%	3.9%	39	(18.0%)	(18.4%)	37	2.7%	2.6%	16
Fixed Income	1.5%	1.0%	45	(0.7%)	(0.7%)	7	(4.6%)	(4.5%)	(2)	(20.0%)	(19.9%)	(5)	(5.0%)	(5.0%)	(9)
TIPS	1.1%	1.1%	(4)	2.1%	2.1%	(3)	1.2%	1.2%	(6)	(12.0%)	(11.8%)	(13)	(3.4%)	(3.2%)	(15)
REITS	3.9%	3.5%	39	0.7%	(0.0%)	74	(4.1%)	(4.9%)	81	(24.6%)	(25.1%)	45	(5.2%)	(5.5%)	31
Commodities	(3.3%)	(3.3%)	(1)	6.4%	6.5%	(3)	10.3%	10.5%	(15)	25.3%	26.0%	(67)	(7.5%)	(7.2%)	(23)
Total JRFII	5.8%	5.5%	25	3.6%	3.4%	25	1.7%	1.5%	25	(17.2%)	(17.3%)	17	(0.5%)	(0.6%)	7

5-Yr Realized Volatility:

5-Yr Realized Tracking Error: 0.1%

¹ Allocations approved by the Board of Administration at the March 2022 Investment Committee Meeting.

² Liquidity is for operational purposes rather than a strategic allocation target and is not included in the performance summary table due to negligible impact on performance. All performance is reported net of investment expenses.

^{12.4%}

Health Care Fund (HCF) & Long-Term Care Fund (LTCF)

As of December 31, 2022

Asset Allocation, Performance & Realized Risk Summary - HCF

Asset Allocation	ļ	nding Asset ue (mil)	Current Allocation (%)	Policy Weight (%) ¹	Variance (%)	Policy Range
Fixed Income	\$	200.5	100.0%	100.0%	0.0%	+ 0%
Total HCF	\$	200.5	100.0%	100.0%	0.0%	



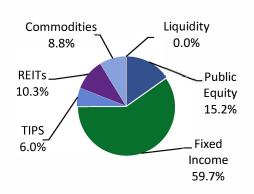


		10-Yr			5-Yr			3-Yr			1-Yr			FYTD	
Performance Summary	Total Return	BM Return	Excess Bps												
Fixed Income	1.2%	1.1%	16	(0.0%)	0.0%	(3)	(2.8%)	(2.7%)	(7)	(13.2%)	(13.0%)	(18)	(3.2%)	(3.0%)	(21)
Total HCF	1.2%	1.1%	16	(0.0%)	0.0%	(3)	(2.8%)	(2.7%)	(7)	(13.2%)	(13.0%)	(18)	(3.2%)	(3.0%)	(21)
5-Yr Realized V	olatility:	5.1%]	5-Yr I	Realized	Tracking	g Error:	0.1%]						

Asset Allocation, Performance & Realized Risk Summary - LTCF

Asset Allocation	Ending Asset Ilue (mil)	Current Allocation (%)	Policy Weight (%) ¹	Variance (%)	Policy Range
Public Equity	\$ 710.0	15.2%	15.0%	0.2%	± 4%
Fixed Income	\$ 2,793.0	59.7%	60.0%	(0.3%)	± 5%
TIPS	\$ 281.4	6.0%	6.0%	0.0%	± 2%
REITS	\$ 479.6	10.3%	11.0%	(0.7%)	± 4%
Commodities	\$ 410.9	8.8%	8.0%	0.8%	± 2%
Liquidity	\$ 0.2	0.0%	0.0%	0.0%	+ 2%
Total LTCF	\$ 4,675.1	100.0%	100.0%	0.0%	





		10-Yr			5-Yr			3-Yr			1-Yr			FYTD	
Performance	Total	BM	Excess	Total	BM	Excess	Total	BM	Excess	Total	BM	Excess	Total	BM	Excess
Summary ²	Return	Return	Bps	Return	Return	Bps	Return	Return	Bps	Return	Return	Bps	Return	Return	Bps
Public Equity	8.2%	7.9%	30	5.2%	5.0%	28	4.2%	3.9%	29	(18.1%)	(18.4%)	29	2.7%	2.6%	12
Fixed Income	1.0%	1.0%	(1)	(0.8%)	(0.7%)	(5)	(4.6%)	(4.5%)	(11)	(20.2%)	(19.9%)	(25)	(5.3%)	(5.0%)	(31)
TIPS	1.1%	1.1%	(2)	2.1%	2.1%	(4)	1.1%	1.2%	(6)	(12.0%)	(11.8%)	(13)	(3.3%)	(3.2%)	(14)
REITS	3.5%	2.7%	77	0.6%	(0.2%)	82	(4.1%)	(4.9%)	79	(24.6%)	(25.1%)	48	(5.2%)	(5.5%)	35
Commodities	(3.4%)	(3.3%)	(8)	6.3%	6.5%	(12)	10.3%	10.5%	(17)	25.3%	26.0%	(67)	(7.5%)	(7.2%)	(23)
Total LTCF	2.7%	2.5%	13	1.7%	1.6%	3	(0.7%)	(0.8%)	6	(16.3%)	(16.2%)	(3)	(4.1%)	(4.0%)	(12)

5-Yr Realized Volatility: 9.0%

5-Yr Realized Tracking Error: 0.4%

¹ Allocations approved by the Board of Administration at the March 2022 Investment Committee Meeting.

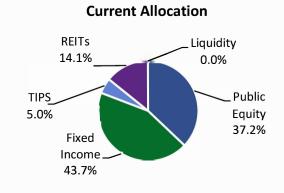
² Liquidity is for operational purposes rather than a strategic allocation target and is not included in the performance summary table due to negligible impact on performance. All performance is reported net of investment expenses.

Affiliate Investment Programs CEPPT Strategy 1 Fund (CEPPT 1) & CEPPT Strategy 2 Fund (CEPPT 2)

As of December 31, 2022

Asset Allocation & Performance Summary - CEPPT 1

Asset Allocation	A	nding Isset Je (mil)	Current Allocation (%)	Policy Weight (%) ¹	Variance (%)	Policy Range
Public Equity	\$	26.5	37.2%	37.0%	0.2%	± 5%
Fixed Income	\$	31.2	43.7%	44.0%	(0.3%)	±5%
TIPS	\$	3.5	5.0%	5.0%	(0.0%)	± 3%
REITs	\$	10.1	14.1%	14.0%	0.1%	± 5%
Liquidity	\$	0.0	0.0%	0.0%	0.0%	+ 2%
Total CEPPT 1	\$	71.4	100.0%	100.0%	0.0%	

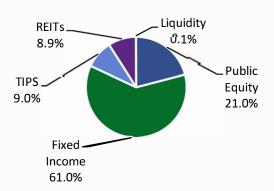


		10-Yr		5-Yr		3-Yr		1-Yr			FYTD				
Performance Summary ²	Total Return	BM Return	Excess Bps												
Public Equity	-	-	-	-	-	-	4.1%	3.9%	25	(18.1%)	(18.4%)	27	2.7%	2.6%	11
Fixed Income	-	-	-	-	-	-	(2.8%)	(2.7%)	(5)	(13.1%)	(13.0%)	(13)	(3.1%)	(3.0%)	(18)
TIPS	-	-	-	-	-	-	1.1%	1.2%	(7)	(12.0%)	(11.8%)	(13)	(3.3%)	(3.2%)	(14)
REITs	-	-	-	-	-	-	(4.1%)	(4.9%)	73	(24.6%)	(25.1%)	45	(5.2%)	(5.5%)	31
Total CEPPT 1	-	-	-	-	-	-	0.6%	0.6%	1	(15.8%)	(15.9%)	8	(0.9%)	(0.9%)	(6)

Asset Allocation & Performance Summary - CEPPT 2

Asset Allocation	A	nding sset ıe (mil)	Current Allocation (%)	Policy Weight (%) ¹	Variance (%)	Policy Range
Public Equity	\$	7.0	21.0%	21.0%	0.0%	± 5%
Fixed Income	\$	20.3	61.0%	61.0%	0.0%	± 5%
TIPS	\$	3.0	9.0%	9.0%	0.0%	± 3%
REITS	\$	3.0	8.9%	9.0%	(0.1%)	± 5%
Liquidity	\$	0.0	0.1%	0.0%	0.1%	+ 2%
Total CEPPT 2	\$	33.2	100.0%	100.0%	0.0%	





	10-Yr		5-Yr		3-Yr		1-Yr			FYTD					
Performance	Total	BM	Excess	Total	BM	Excess	Total	BM	Excess	Total	BM	Excess	Total	BM	Excess
Summary ²	Return	Return	Bps	Return	Return	Bps	Return	Return	Bps	Return	Return	Bps	Return	Return	Bps
Public Equity	-	-	-	-	-	-	4.1%	3.9%	25	(18.1%)	(18.4%)	27	2.7%	2.6%	11
Fixed Income	-	-	-	-	-	-	(3.0%)	(2.7%)	(28)	(13.1%)	(13.0%)	(13)	(3.1%)	(3.0%)	(18)
TIPS	-	-	-	-	-	-	1.1%	1.2%	(7)	(12.0%)	(11.8%)	(13)	(3.3%)	(3.2%)	(14)
REITs	-	-	-	-	-	-	(4.1%)	(4.9%)	77	(24.6%)	(25.1%)	46	(5.2%)	(5.5%)	33
Total CEPPT 2	-	-	-	-	-	-	(1.1%)	(1.1%)	(1)	(14.2%)	(14.1%)	(10)	(2.0%)	(1.8%)	(17)

¹ Allocations approved by the Board of Administration at the March 2022 Investment Committee Meeting.

² Liquidity is for operational purposes rather than a strategic allocation target and is not included in the performance summary table due to negligible impact on performance. All performance is reported net of investment expenses.

Affiliate Investment Programs Supplemental Income Plans (SIP)

As of December 31, 2022 Asset Allocation - SIP

	Ending Asset	Global Equity			US Fixed Income			Real Assets			Cash and Cash Equivalents		
	Value	6 . t l	Dell's 1	Policy	Actual	Dellau ¹	Policy	Actual	Policy ¹	Policy	Actual	Policy ¹	Policy Range
Asset Allocation	(mil)	Actual	Policy ¹	Range	Actual		Range			Range	9.6%	10.0%	± 1%
Target Income Fund	\$ 178.8	33.8%	32.0%	± 4%	53.6%	55.0%	± 4%	3.1%	3.0%	±1%	1		
Target 2020 Fund	\$ 152.8	43.9%	42.0%	± 4%	44.5%	46.0%	± 4%	3.1%	3.0%	± 1%	8.6%	9.0%	± 1%
Target 2025 Fund	\$ 204.8	56.9%	55.0%	± 4%	34.5%	36.0%	± 4%	2.0%	2.0%	± 1%	6.6%	7.0%	± 1%
Target 2030 Fund	\$ 197.1	67.7%	66.0%	± 4%	24.7%	26.0%	± 2%	2.0%	2.0%	± 1%	5.6%	6.0%	± 1%
Target 2035 Fund	\$ 129.2	81.2%	80.0%	± 4%	14.1%	15.0%	± 2%	1.0%	1.0%	± 1%	3.7%	4.0%	+ 0.25%
Target 2040 Fund	\$ 120.0	92.5%	92.0%	± 4%	4.7%	5.0%	± 1%	1.0%	1.0%	±1%	1.8%	2.0%	+ 0.25%
Target 2045 Fund	\$ 71.5	94.4%	94.0%	± 4%	2.8%	3.0%	±1%	1.0%	1.0%	± 1%	1.8%	2.0%	+ 0.25%
Target 2050 Fund	\$ 43.5	94.4%	94.0%	± 4%	2.8%	3.0%	± 1%	1.0%	1.0%	± 1%	1.8%	2.0%	+ 0.25%
Target 2055 Fund	\$ 16.1	94.4%	94.0%	± 4%	2.8%	3.0%	± 1%	1.0%	1.0%	±1%	1.8%	2.0%	+ 0.25%
Target 2060 Fund	\$ 8.5	94.4%	94.0%	± 4%	2.8%	3.0%	± 1%	1.0%	1.0%	± 1%	1.8%	2.0%	+ 0.25%
Target 2065 Fund	\$ 0.3	94.4%	94.0%	± 4%	2.8%	3.0%	± 1%	1.0%	1.0%	± 1%	1.8%	2.0%	+ 0.25%
SSgA STIF	\$ 121.1	846	-	24.5	520	22	14	-	121	322	100.0%	100.0%	-
SIP US ST Bond Core	\$ 37.8	321	i -	200	100.0%	100.0%	27	2	627	6 <u>2</u> 5		127	2
SIP US Bond Core	\$ 52.3	्रत्यः	đ	100 C	100.0%	100.0%	de.		÷.	1	π	555	73
SIP Real Asset Core	\$ 21.5	375	17	570	:52	77	.53	100.0%	100.0%	:5	~		-
SIP Russell All Cap Core	\$ 583.9	100.0%	100.0%		100	~	17.4		17.5	17		1.72	5
SIP GIbl All Cap EX-US	\$ 64.6	100.0%	100.0%	1.000		π				18) 19	-	155	=

Performance Summary - SIP

10-Yr			5-Yr			3-Yr			1-Yr			FYTD			
Performance	Total	BM	Excess	Total	BM	Excess	Total	BM	Excess	Total	BM	Excess	Total	BM	Excess
Summary	Return ²	Return	Bps	Return ²	Return	Bps	Return ²	Return	Bps	Return ²	Return	Bps	Return ²	Return	Bps
Target Income Fund	3.2%	3.0%	15	2.4%	2.3%	11	0.7%	0.6%	16	(12.9%)	(12.9%)	2	(0.9%)	(0.8%)	(7)
Target 2020 Fund	4.3%	4.1%	15	3.1%	2.9%	13	1.7%	1.5%	20	(13.7%)	(13.8%)	5	(0.4%)	(0.3%)	(6)
Target 2025 Fund	5.1%	5.0%	18	3.6%	3.4%	15	2.4%	2.2%	23	(14.6%)	(14.7%)	8	0.3%	0.3%	(5)
Target 2030 Fund	5.8%	5.7%	15	4.0%	3.9%	9	3.0%	2.9%	13	(15.4%)	(15.5%)	11	0.9%	0.9%	(3)
Target 2035 Fund	6.5%	6.4%	16	4.4%	4.3%	12	3.6%	3.4%	17	(16.4%)	(16.5%)	14	1.5%	1.6%	(2)
Target 2040 Fund	7.1%	7.0%	18	4.8%	4.7%	12	4.1%	3.9%	17	(17.2%)	(17.3%)	17	2.2%	2.2%	(1)
Target 2045 Fund	7.4%	7.2%	18	4.9%	4.8%	13	4.1%	4.0%	17	(17.0%)	(17.2%)	18	2.4%	2.4%	(0)
Target 2050 Fund	7.4%	7.2%	17	4.9%	4.8%	13	4.1%	4.0%	17	(17.0%)	(17.2%)	18	2.4%	2.4%	(0)
Target 2055 Fund	-	-	-	4.9%	4.8%	13	4.1%	4.0%	17	(17.0%)	(17.2%)	18	2.4%	2.4%	(0)
Target 2060 Fund	-	-	-	-	-	-	4.1%	4.0%	13	(17.0%)	(17.2%)	18	2.4%	2.4%	(0)
Target 2065 Fund	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SSgA STIF	0.9%	0.8%	13	1.4%	1.3%	17	0.8%	0.7%	12	1.8%	1.5%	36	1.6%	1.3%	27
SIP US ST Bond Core	-	-	-	0.9%	0.9%	(6)	(0.4%)	(0.3%)	(5)	(3.7%)	(3.7%)	(6)	(0.6%)	(0.6%)	(3)
SIP US Bond Core	-	-	-	0.0%	0.0%	(1)	(2.7%)	(2.7%)	(3)	(13.1%)	(13.0%)	(11)	(3.1%)	(3.0%)	(16)
SIP Real Asset Core	-	-	-	6.3%	6.3%	5	8.8%	8.7%	14	3.1%	3.2%	(6)	1.2%	1.3%	(6)
SIP Russell All Cap Core	-	-	-	8.8%	8.8%	2	7.1%	7.1%	5	(19.1%)	(19.2%)	12	2.4%	2.4%	1
SIP GIbl All Cap EX-US	-	-	-	1.1%	0.8%	23	0.4%	0.2%	24	(16.3%)	(16.6%)	29	3.1%	3.1%	(2)

¹ Allocations approved by the Board of Administration at the June 2022 Investment Committee Meeting.

 $^{\rm 2}$ Performance is net of the average investment management fees & expenses incurred by the 457/SCP plans.

Supplemental Income Plans (SIP) As of December 31, 2022

Realized Risk - SIP

Realized Risk	Annualized 5-Yr Realized Volatility	Tracking Error ¹
Target Income Fund	7.5%	0.2%
Target 2020 Fund	9.7%	0.2%
Target 2025 Fund	11.6%	0.2%
Target 2030 Fund	13.5%	0.2%
Target 2035 Fund	15.5%	0.2%
Target 2040 Fund	17.0%	0.2%
Target 2045 Fund	17.0%	0.2%
Target 2050 Fund	17.0%	0.2%
Target 2055 Fund	17.0%	0.2%
Target 2060 Fund	×	-
Target 2065 Fund		(x)
SSgA STIF	0.4%	0.2%
SIP US ST Bond Core	1.6%	0.0%
SIP US Bond Core	5.1%	0.1%
SIP Real Asset Core	13.2%	0.3%
SIP Russell All Cap Core	19.2%	0.1%
SIP GIbl All Cap EX-US	17.9%	0.4%

¹ Due to the impact of Fair Value Pricing adjustment, the tracking error is based on a rolling 12 month calculation.

CalPERS Trust Level

Trust Level Benchmarks

As of December 31, 2022

Public Employees' Retirement Fund and Affiliate Investment Programs Policy Benchmarks

Trust	Asset Class	Policy Benchmark					
	Public Equity - Cap Weighted	CalPERS Custom FTSE All World, All Cap Equity Benchmark					
	Public Equity - Factor Weighted	CalPERS Custom MSCI ACWI Factor Weighted Index					
	Private Equity	CalPERS Custom FTSE Global Benchmark + 150 bps, Quarter Lag					
	Income - Treasury	Custom Bloomberg Government					
	Income - MBS	-					
Dublic Freedoused Detirement Fried		Custom Bloomberg Mortgage					
Public Employees' Retirement Fund	Income - IG Corporate	Custom Bloomberg Corporate ex Sov					
	Income - High Yield	Custom Bloomberg High Yield					
	Income - EM Sovereign Bonds	Custom JP Morgan EMBIG Diversified					
	Real Assets	MSCI/PREA U.S. ACOE Quarterly Property Fund Index (Unfrozen)					
	Private Debt	S&P/LSTA U.S. Leverage Loan 100 Index + 125 bps, Quarter Lag					
	Strategic Leverage	ICE BofA US 3-Month Treasury Bill Index + 50 bps					
Judges' Retirement System Fund	Cash	91-day Treasury Bill					
	Global Equity	MSCI ACWI IMI (Net)					
	U.S. Fixed Income	Bloomberg Long Liability Index					
Judges' Retirement System II Fund	TIPS	Bloomberg U.S. TIPS Index, Series L					
	Commodities	S&P GSCI Total Return Daily					
	REITS	FTSE EPRA/NAREIT Developed Index					
	Global Equity	MSCI ACWI IMI (Net)					
	U.S. Fixed Income	Bloomberg Long Liability Index					
Legislators' Retirement System Fund	TIPS	Bloomberg U.S. TIPS Index, Series L					
Legislators Retrement System Fund	Commodities						
		S&P GSCI Total Return Daily					
	REITS	FTSE EPRA/NAREIT Developed Index					
Public Employees' Health Care Fund	U.S. Fixed Income	Bloomberg U.S. Aggregate Bond Index					
	Global Equity	MSCI ACWI IMI (Net)					
	U.S. Fixed Income	Bloomberg Long Liability Index					
Long-Term Care Fund	TIPS	Bloomberg U.S. TIPS Index, Series L					
	Commodities	S&P GSCI Total Return Daily					
	REITs Global Equity	FTSE EPRA/NAREIT Developed Index MSCI ACWI IMI (Net)					
	U.S. Fixed Income	Bloomberg Long Liability Index					
California Employers' Retiree Benefit Trust	TIPS	Bloomberg U.S. TIPS Index, Series L					
(CERBT) Funds 1, 2 & 3	Commodities	S&P GSCI Total Return Daily					
	REITS	FTSE EPRA/NAREIT Developed Index					
	Global Equity	MSCI ACWI IMI (Net)					
California Employers' Pension Prefunding	U.S. Fixed Income	Bloomberg U.S. Aggregate Bond Index					
Trust (CEPPT) Funds 1 & 2	TIPS	Bloomberg U.S. TIPS Index, Series L					
	REITs	FTSE EPRA/NAREIT Developed Index					

CalPERS Trust Level

Trust Level Benchmarks

As of December 31, 2022

Supplemental Income Plans Policy Benchmarks

		Pc	licy Weights					
	Global Equity	US Equity	Int'l Equity	US Inco	ome	Real Assets	Cash & Cash Equivalents	
Supplemental Income Plans	Russell 3000 / MSCI ACWI ex US	Russell 3000 Index	MSCI ACWI ex US IMI Index (Net)	Bloomberg U.S. Aggregate Bond Index	Bloomberg U.S. 1-3 Year Govt/Credit Bond Index	SSGA Real Asset	BofA Merrill Lynch 3- Month Treasury Bill Index	
Target Income Fund	32.0%	19.0%	13.0%	55.0%	-	3.0%	10.0%	
Target 2020 Fund	42.0%	25.0%	17.0%	46.0%	-	3.0%	9.0%	
Target 2025 Fund	55.0%	33.0%	22.0%	36.0%	2	2.0%	7.0%	
Target 2030 Fund	66.0%	39.0%	27.0%	26.0%	2	2.0%	6.0%	
Target 2035 Fund	80.0%	48.0%	32.0%	15.0%		1.0%	4.0%	
Target 2040 Fund	92.0%	55.0%	37.0%	5.0%		1.0%	2.0%	
Target 2045 Fund	94.0%	56.0%	38.0%	3.0%	E	1.0%	2.0%	
Target 2050 Fund	94.0%	56.0%	38.0%	3.0%	-	1.0%	2.0%	
Target 2055 Fund	94.0%	56.0%	38.0%	3.0%	-	1.0%	2.0%	
Target 2060 Fund	94.0%	56.0%	38.0%	3.0%	-	1.0%	2.0%	
Target 2065 Fund	94.0%	56.0%	38.0%	3.0%	ŝ	1.0%	2.0%	
SSgA STIF	3		(j. 1	i.	20 		100.0%	
SIP US ST Bond Core	2	-			100.0%	(2)		
SIP US Bond Core				100.0%		:5		
SIP Real Asset Core	-	-		-	-	100.0%	÷	
SIP Russell All Cap Core	100.0%	100.0%	(1 1)	-	×	5 .6 1	. *	
SIP Global All Cap ex US	100.0%	-	100.0%	-	-	3×0	×	