CalPERS Trust Level Review

Investment Committee February 15, 2022



Performance – Key Figures (as of December 31, 2021)





Performance Summary (as of December 31, 2021)

	Ending 20-Yr		10	10-Yr		5-Yr		3-Yr		1-Yr		TD	
Funds Managed	Asset Value (MM)	Net Return	Excess bps	Net Return	Excess bps	Net Return	Excess bps	Net Return	Excess bps	Net Return	Excess bps	Net Return	Excess bps
Public Employees' Retirement Fund	500,712	7.3%	(41)	9.7%	1	10.8%	10	14.3%	39	13.3%	120	5.9%	104
CalPERS Health Care Bond Fund	519	3.9%	7	3.2%	35	3.6%	2	4.8%	(1)	-1.6%	(7)	0.0%	(4)
CEPPT Strategy 1	51		~ <u>e</u>	(2)			3	1	(7)	8.6%	(1)	3.0%	(0)
CEPPT Strategy 2	22	0.#1	:=:	-	-	0#1	-:	-	3 4 1	3.6%	5	1.6%	(4)
CERBT Strategy 1	14,784	37	15	9.5%	32	11.2%	29	16.2%	21	13.7%	13	4.4%	5
CERBT Strategy 2	2,010	9 <u>0</u> 1	12	8.1%	30	9.6%	25	13.7%	14	10.1%	9	3.7%	2
CERBT Strategy 3	880		-	6.6%	27	7.9%	20	11.5%	11	7.7%	3	3.4%	(2)
Judges' Retirement Fund	57	1.4%	11	0.7%	6	1.2%	8	1.0%	2	0.1%	4	0.0%	1
Judges' Retirement System II Fund	2,523	7.1%	7	9.3%	28	10.8%	29	15.4%	27	12.3%	19	4.2%	5
Legislators' Retirement System Fund	123	6.3%	2	6.8%	31	8.0%	20	11.5%	14	7.7%	6	3.4%	(1)
Long-Term Care Fund	5,623	5.5%	11	5.8%	18	7.2%	9	10.7%	5	7.9%	45	3.3%	3
Terminated Agency Pool	229	821	: ¥	5 2 7	14	6.7%	4 9	10.2%	1 <u>44</u> 11	3.3%	-	4.8%	12



PERF Performance Summary (as of December 31, 2021)

		nding	Current	Policy	20-Yr		10-Yr		5-Yr		3-Yr		1-Yr		FYTD	
Performance Summary	1	Asset lue (bil)	Allocation (%)	Target Weight (%)	Net Return	Excess bps										
Public Equity	\$	246.7	49.3%	50.0%	8.0%	(13)	12.1%	12	13.7%	(7)	19.0%	14	17.9%	26	5.7%	3
Cap Wtd.	\$	171.6	34.3%	35.0%	8.2%	(13)	12.6%	12	14.7%	(7)	21.0%	14	19.1%	32	5.3%	3
Factor Wtd.	\$	75.1	15.0%	15.0%	-	-	-	-	-	-	13.7%	5	14.7%	12	6.6%	3
Private Equity	\$	49.0	9.8%	8.0%	11.4%	(14)	13.9%	(220)	16.5%	55	17.3%	267	39.3%	792	16.7%	979
Income	\$	141.5	28.3%	28.0%	6.2%	60	4.4%	69	5.5%	42	7.5%	37	(1.4%)	15	1.3%	2
Long Spread	\$	72.6	14.5%	15.0%	-	-	-	-	-	-	7.0%	67	(0.6%)	28	0.4%	8
Long Treasury	\$	46.4	9.3%	10.0%	-	-	3.6%	(4)	5.2%	(6)	7.2%	(14)	(4.1%)	0	2.5%	(0)
Total Fund Income	\$	7.5	1.5%	-	-	-	-	-	-	-	-	-	(4.3%)	(19)	2.1%	(38)
High Yield	\$	15.0	3.0%	3.0%	-	-	-	-	-	-	8.2%	14	4.6%	8	1.7%	(1)
Real Assets	\$	55.1	11.0%	13.0%	5.8%	(262)	9.0%	53	6.8%	44	7.1%	116	15.8%	242	11.5%	134
Total Fund	\$	19.6	3.9%	-												
Opportunistic	\$	5.0	1.0%	-	-	-	-	-	-	-	-	-	15.2%	820	4.9%	141
LLER	\$	7.6	1.5%	-	-	-	-	-	2.8%	192	2.8%	214	1.8%	174	0.7%	68
Other	\$	7.0	1.4%	-	-	-	-	-	-	-	-	-	-	-	-	-
Financing & Liquidity	\$	(11.2)	-2.2%	-												
Trust Level Financing	\$	(22.8)	-4.6%	-	-	-	-	-	-	-	-	-	(0.1%)	-	(0.1%)	-
Liquidity	\$	11.6	2.3%	1.0%	1.8%	5	0.9%	(1)	1.3%	28	1.0%	21	0.1%	5	0.1%	3
Total PERF	\$	500.7	100.0%	100.0%	7.3%	(41)	9.7%	1	10.8%	10	14.3%	39	13.3%	120	5.9%	104



All returns are net of investment expenses.

PERF Returns Closely Tied to Equity Markets





PERF Risk – Key Figures (as of January 4, 2022)



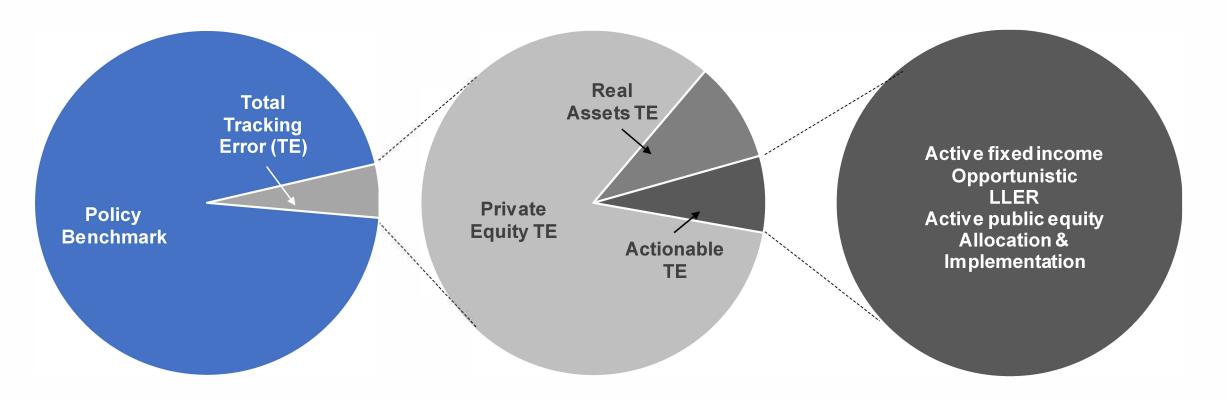


PERF Tracking Error in Total Fund Context (as of January 4, 2022)

Total Volatility = 10.6%

Total Tracking Error = 139 bps

Actionable Tracking Error = 19 bps





Investment Office Operating Model

		Functions	Sub-Functions											
Total INVO Operational Risk Score		Trust Level Management	Policy & Governance	Strategic & Dynamic Asset Allocations	Liquidity & Leverage	Risk Management	Fund Struct & Busines Model	e (Controls vironmen					
	Aligned	Portfolio Construction, Management & Trading	Portfolio Construction - Public Markets	Securities Trading - Public Markets	Private Asset Strategy & Transactions	Manager/ Partne Selection & Oversight	r							
	Industry	Investment Operations & Data	Trade Operations	Private Market Analysis & Operations	Valuation / Pricing	Investment Accounting & Custody	Performance Attribution & Reporting	Risk Ma	Data nagemen					
	CalPERS	Investment Technology & Support Services	Technology Management & Information Security	Vendor Utilization & Management	Business Continuity / Disaster Recovery	Resource Management	Financial Manageme							
		Engagement	Manager & Industry Peer Engagement	ESG Advocacy & Integration	Stakeholder Engagement									
							So Low Medium	cale Med-High	High					
CalPERS							1-3 4-5	6-7	8-10					



Economic Update | Review

Excess demand in activity as it normalizes

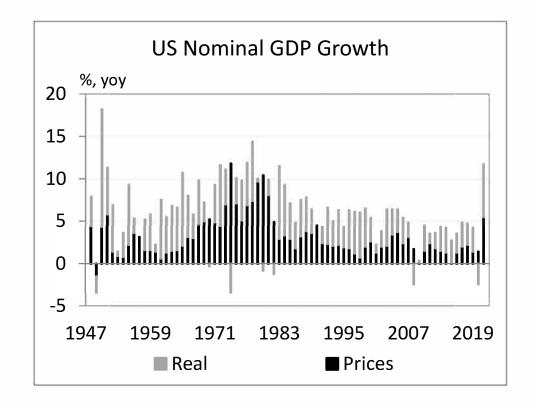
Underlying activity largely robust

Labor supply remains below pre-pandemic levels

Capacity pressures dissipating slowly

Result: excess demand in activity

Analysts' adjusting expectations for wage and price pressure





Sources: Bloomberg L.P., U.S. Bureau of Economic Analysis

Economic Update | Future outlook

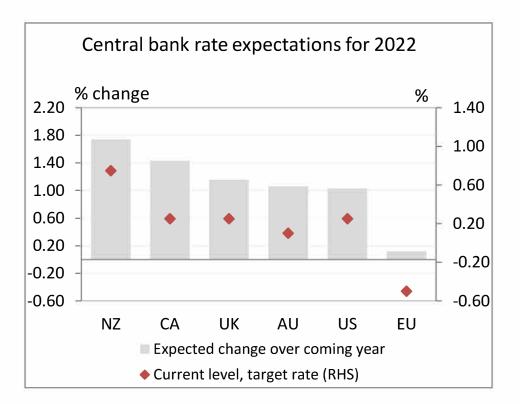
Policy setting and event risk a focus for 2022

Central banks are re-assessing the degree of policy accommodation

Fiscal policy less stimulative

Global recovery uneven

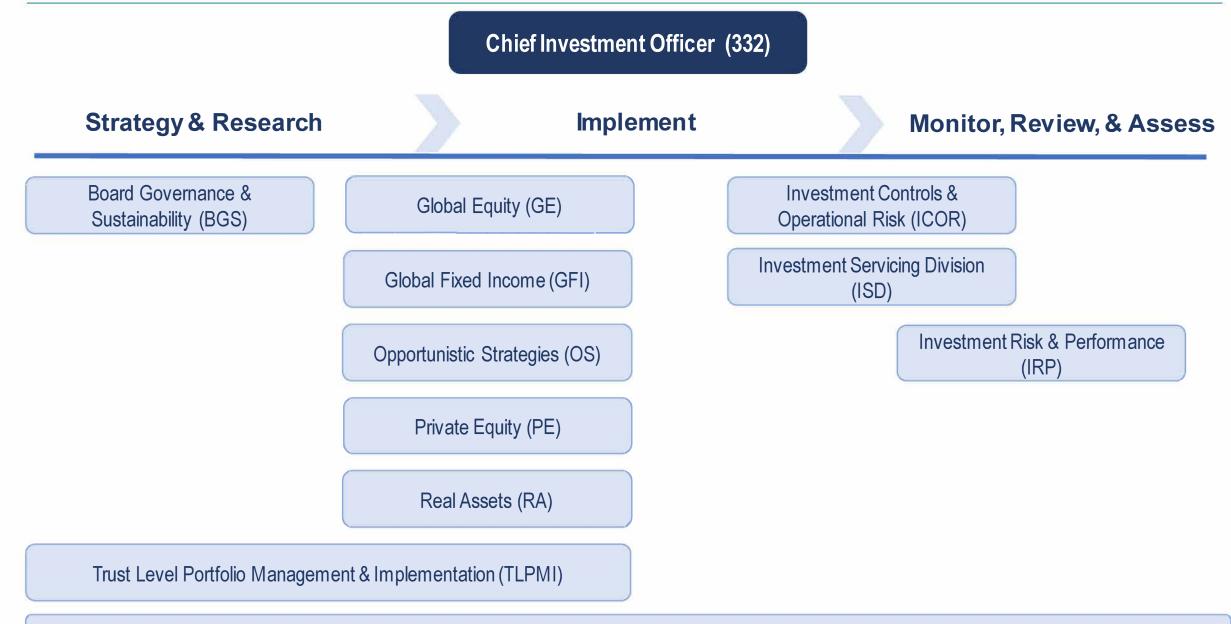
Both upside and downside risks to economic outlook





Appendix





Total Fund Business & Analytical Services (TFBAS)

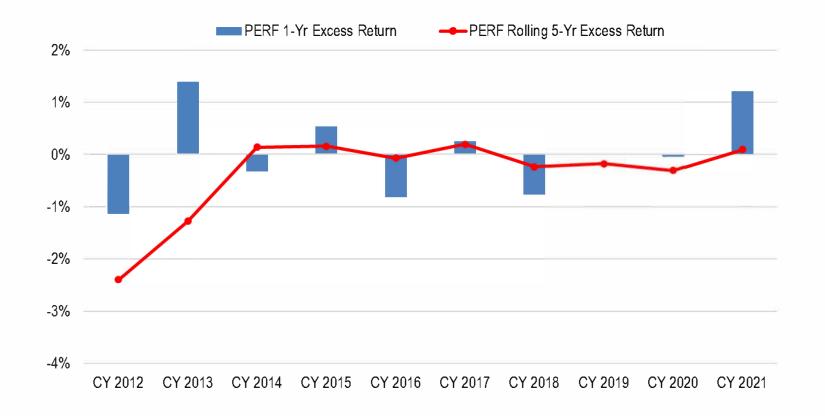
Supplemental Income Plan Performance (as of December 31, 2021)

	Ending	20)-Yr	10	-Yr	5-	5-Yr 3-		Yr	1-	1-Yr		TD
	Asset Value	Net	Excess	Net	Excess	Net	Excess	Net	Excess	Net	Excess	Net	Excess
Funds Managed	(MM)	Return	bps	Return	bps	Return	bps	Return	bps	Return	bps	Return	bps
Target Income Fund	122	-	-	5.4%	21	6.7%	14	10.2%	15	5.3%	(2)	1.8%	(2)
Target 2015 Fund	100	-	-	6.1%	13	6.8%	14	10.7%	15	5.5%	(2)	1.8%	(2)
Target 2020 Fund	188	-	-	7.0%	15	7.8%	16	12.7%	19	7.9%	1	2.4%	(1)
Target 2025 Fund	235	-	-	8.1%	14	9.2%	17	14.6%	22	10.3%	3	2.9%	(0)
Target 2030 Fund	226	-	-	9.0%	9	10.3%	10	16.4%	11	12.7%	6	3.5%	1
Target 2035 Fund	144	-	-	9.9%	7	11.5%	12	18.2%	15	15.1%	10	4.1%	2
Target 2040 Fund	135	-	-	10.7%	7	12.6%	11	19.5%	15	17.3%	12	4.7%	3
Target 2045 Fund	77	-	-	11.0%	6	13.1%	11	19.5%	15	17.3%	12	4.7%	3
Target 2050 Fund	44	-	-	11.0%	6	13.1%	11	19.5%	14	17.3%	12	4.7%	3
Target 2055 Fund	16	-	-	-	-	13.1%	11	19.5%	14	17.3%	12	4.7%	3
Target 2060 Fund	9	-	-	-	-	-	-	19.4%	10	17.3%	12	4.7%	3
SSgA STIF	108	-	-	0.7%	9	1.3%	14	1.0%	4	0.1%	4	0.0%	1
SIP US ST Bond Core	38	-	-	-	-	1.8%	(8)	2.2%	(6)	-0.5%	(6)	-0.5%	(3)
SIP US Bond Core	63	-	-	-	-	3.6%	2	4.8%	2	-1.6%	(9)	0.0%	(5)
SIP Real Asset Core	14	-	-	-	-	7.4%	5	12.4%	14	21.0%	(13)	6.8%	(4)
SIP Russell All Cap Core	757	-	-	-	-	18.0%	(2)	25.8%	(1)	25.8%	10	9.2%	4
SIP GIbI All Cap EX-US	78	-	-	-	-	10.1%	22	13.9%	24	8.7%	20	-0.9%	5



All returns are net of investment expenses.

PERF Excess Returns | Rolling 5-Year (as of December 31, 2021)



1 Year (+120 bps excess return) Primary Contributors Private Equity (+61 bps) Real Assets (+25 bps) Public Equity – Cap Weighted (+12 bps) Allocation (+7 bps)

5 Year (+10 bps/yr excess return)

Primary Contributor Income – Spread (+9 bps)

Primary Detractors Public Equity – Cap Weighted (-7 bps) Private Equity (-4 bps)



Assets Sensitive to Economic Growth Dominate Risk

