CalPERS Trust Level Review

Investment Committee February 15, 2022



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



9.7%
PERF 10-yr
absolute return



+10 bps

PERF 5-yr excess return



Returns of Affiliate
Investment Program
funds across all time
periods were in-line with
their respective asset
allocations and reflect
varying risk levels



Performance Summary (as of December 31, 2021)

	Ending	ling 20-Yr		10-Yr		5-Yr		3-Yr		1-Yr		FYTD	
Funds Managed	Asset Value (MM)	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	-	-	-	-	-	-	-	-	8.6%	(1)	3.0%	(0)
CEPPT Strategy 2	22	-	-	-	-	-	-	-	-	3.6%	5	1.6%	(4)
CERBT Strategy 1	14,784	-	-	9.5%	32	11.2%	29	16.2%	21	13.7%	13	4.4%	5
CERBT Strategy 2	2,010	-	-	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	-	-	-	-	6.7%	-	10.2%	-	3.3%	-	4.8%	-



PERF Performance Summary (as of December 31, 2021)

	Ending		ng 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%	3 9	13.3%	120	5.9%	104

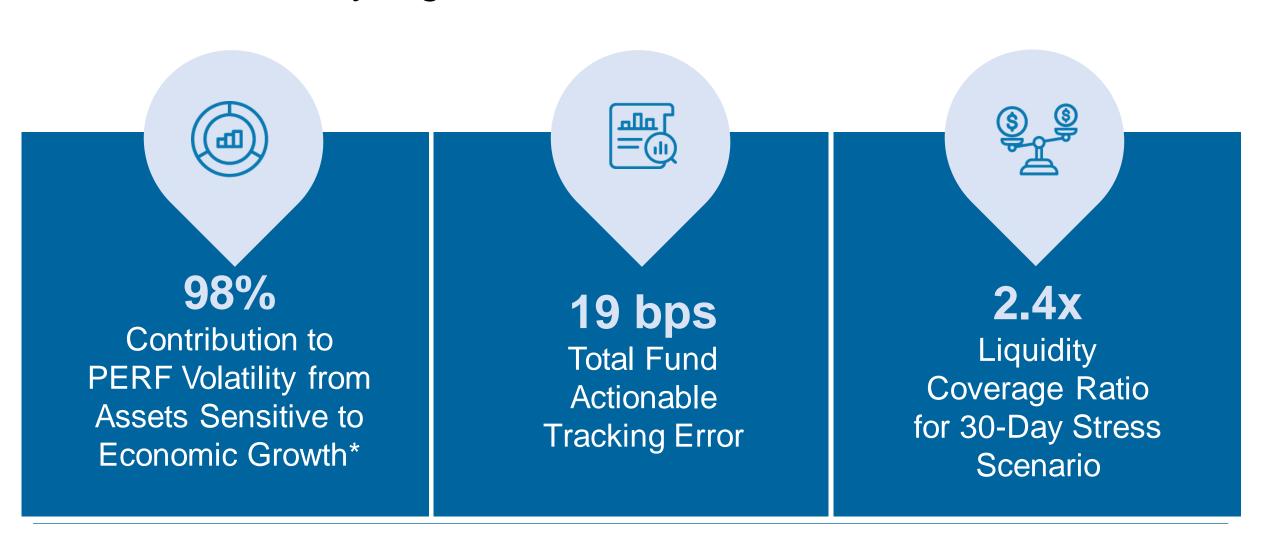


PERF Returns Closely Tied to Equity Markets





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



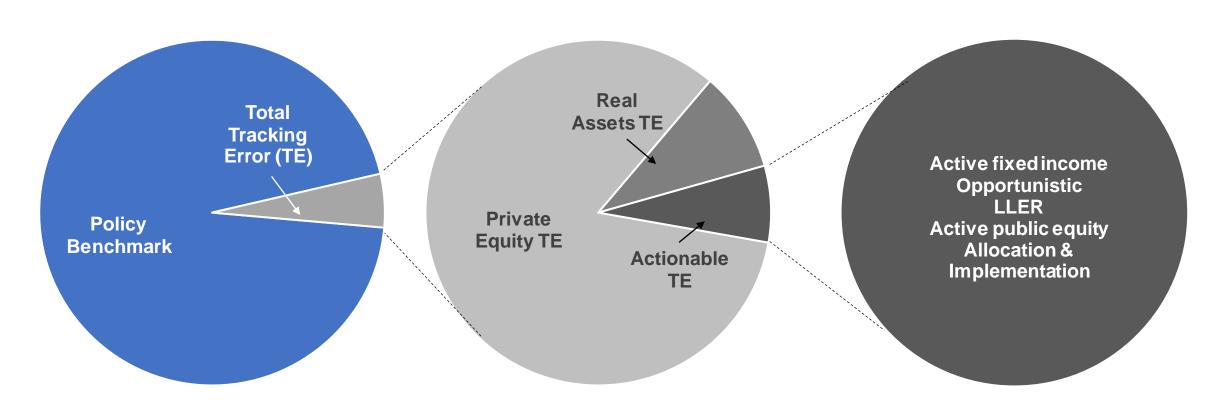


PERF Tracking Error in Total Fund Context (as of January 4, 2022)

Total Volatility = 10.6%

Total Tracking Error = 139 bps

Actionable Tracking Error = 19 bps

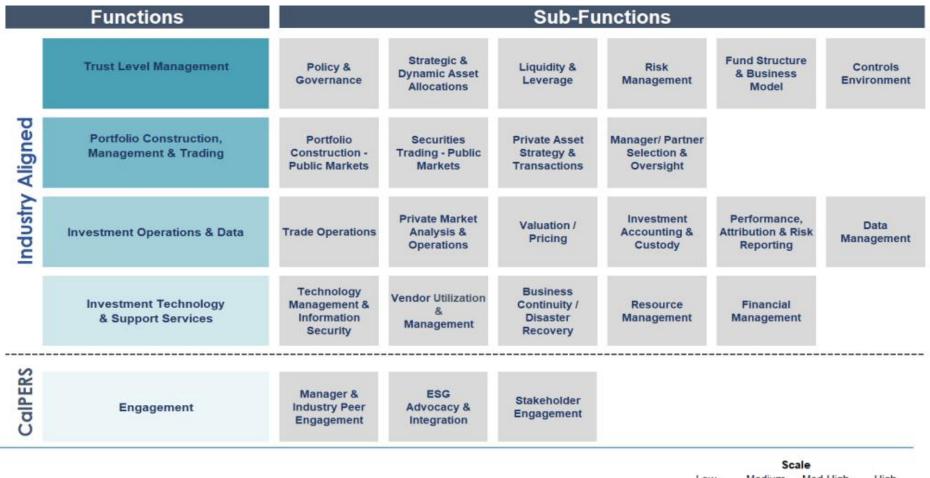




Investment Office Operating Model

Total INVO Operational Risk Score

4





 Scale

 Low
 Medium
 Med-High
 High

 1-3
 4-5
 6-7
 8-10



Economic Update | Review

Excess demand in activity as it normalizes

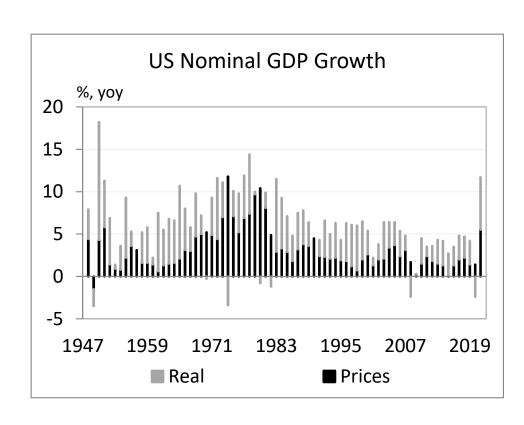
Underlying activity largely robust

Labor supply remains below pre-pandemic levels

Capacity pressures dissipating slowly

Result: excess demand in activity

Analysts' adjusting expectations for wage and price pressure





Economic Update | Future outlook

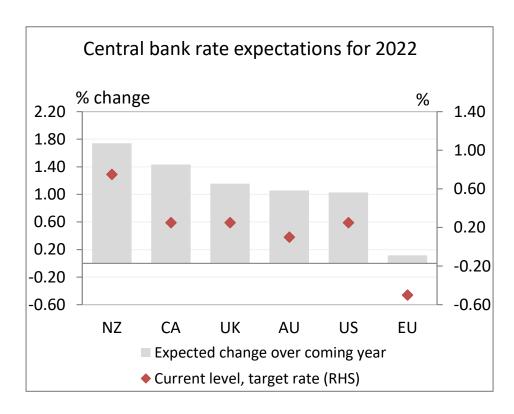
Policy setting and event risk a focus for 2022

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



Chief Investment Officer (332)

Strategy & Research

Implement

Monitor, Review, & Assess

Board Governance & Sustainability (BGS)

Global Equity (GE)

Global Fixed Income (GFI)

Opportunistic Strategies (OS)

Private Equity (PE)

Real Assets (RA)

Trust Level Portfolio Management & Implementation (TLPMI)

Investment Controls & Operational Risk (ICOR)

Investment Servicing Division (ISD)

Investment Risk & Performance (IRP)

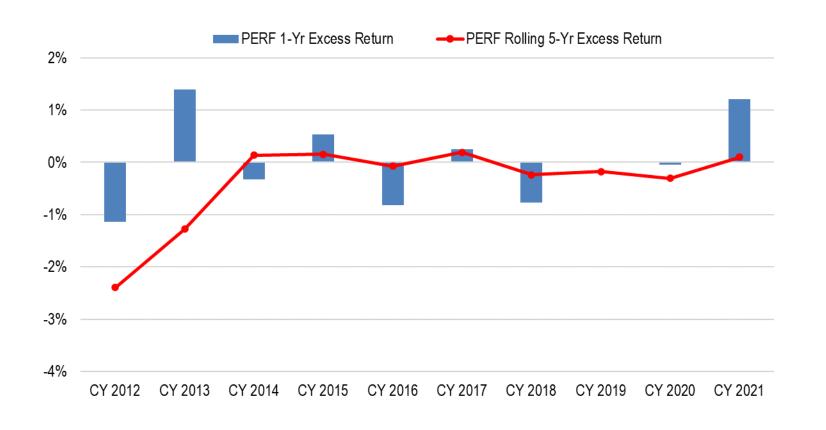
Total Fund Business & Analytical Services (TFBAS)

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

	Ending 20-Yr		10-Yr		5-Yr		3-Yr		1-Yr		FYTD		
	Asset Value	Net	Excess										
Funds Managed	(MM)	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 Glbl All Cap EX-US	78	-	-	-	-	10.1%	22	13.9%	24	8.7%	20	-0.9%	5



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



1 Year (+120 bps excess return)

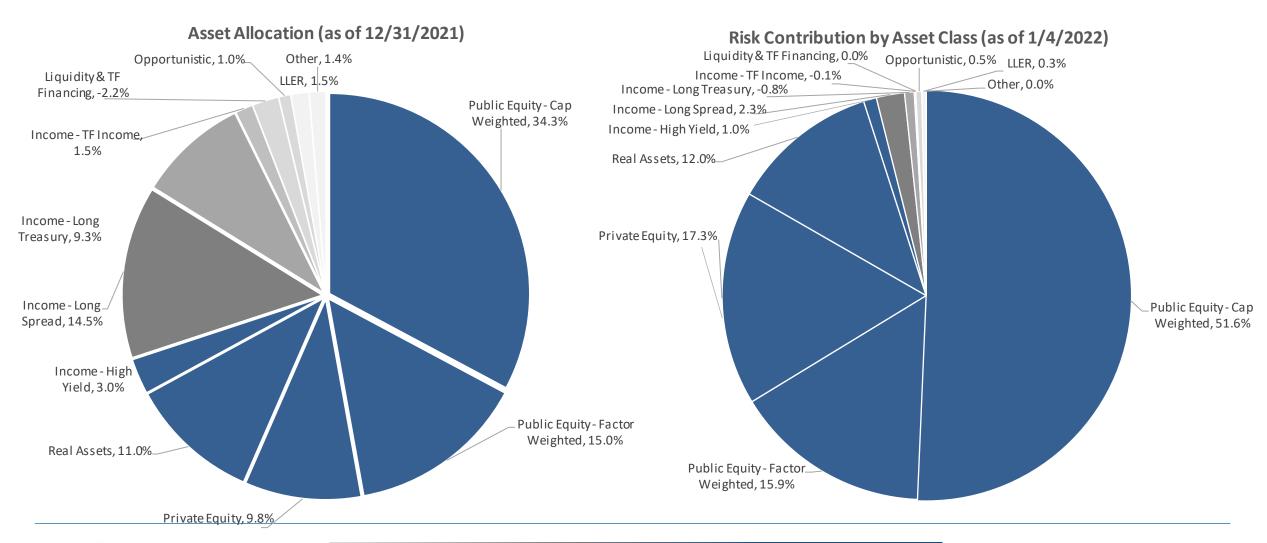
Primary Contributors
Private Equity (+61 bps)
Real Assets (+25 bps)
Public Equity – Cap Weighted (+12 bps)
Allocation (+7 bps)

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



Low