



Trust Level Review

As of December 31, 2024

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Section I. PERF Summary

As of December 31, 2024

Public Employees' Retirement Fund (PERF) Metrics

\$523.4bn

Assets Under Management +6.7%

10-Yr Total Return +4.1%

Fiscal Year-to-Date
Total Return

\$(1.8)bn

5-Yr Cumulative Value Added \$(2.3)bn

Fiscal Year to-Date Value Added

13.7%

Forecasted Volatility

15bps

Forecasted
Actionable
Tracking Error

31.6%

Allocation to Private Assets

2.4x

30-Day Tier 1 Stress Liquidity Coverage Ratio 63.0%

Allocation to Actively Managed Assets

Quarter-End Highlights

Capital Markets

- The Capital Markets Group continued to increase active management within their portfolios given the backdrop of improving market breadth, which historically has been conducive to alpha generation.
- GPE average allocation to active strategies increased from 16% in CY 2023 to an average of 24% in CY 2024, aligning with the team's stated objective of increased allocation to active public equity strategies in the pursuit of alpha generation.
- Risk premiums across fixed income spread sectors remain historically tight driven by strong economic fundamentals and supportive technical, despite elevated tariff/trade policy and immigration uncertainty in the early days of the new Administration.

Private Markets

- Private Debt (14%), Infrastructure (13%), which is part
 of Real Asset, & Private Equity (12%) generated strong
 1-year absolute returns whilst Real Estate was a
 detractor.
- Real Assets (+202 bps) & Private Debt (+141 bps) generated strong 1-year relative return whilst Private Equity was a detractor.
- Allocation actively scaling up our smaller Private Debt & Infrastructure programs as well as deploying to our increased Private Equity allocation.

Total Fund Risk

 No significant changes in PERF risk profile over the past quarter. Current market volatility and funding conditions remain stable, and all key risk parameters are in expected ranges.

Investment Process

- The recruitment for the Managing Investment Director for the Private Debt program continues.
- Progression of the FY 2024-25 Initiatives of Talent & Culture, Data & Technology, Portfolio Resilience/ ALM & Sustainable Investments continues to remain on track.

As of December 31, 2024

End Value

PERF Returns

PERF returned + 9.0% for the trailing 1-Yr and + 6.3% for the trailing 5-Yr

- Public asset classes, which constitute nearly 70% of PERFs assets, returned negative performance in the December quarter but were partially offset by private markets' positive performance
- Private Equity and Real Assets relative returns continue to be significant drivers of PERF excess

| | End Value | | | | | | | | | | |
|-------------------|-----------|-----------|----|----------|--------------|------|----------|----|----------|----|----------|
| | (B) | 20-Yr | | 10-Yr | 5-Yr | | 1-Yr | | FYTD | : | 1-Qtr |
| Total PERF | \$ 523.4 | 6.5% | | 6.7% | 6.3% | | 9.0% | | 4.1% | | (1.1)% |
| Benchmark | | 7.0% | | 6.8% | 6.4% | | 10.9% | | 4.6% | | (0.7)% |
| Excess | | (53) bps | | (10) bps | (3) bps | (1 | 190) bps | | (46) bps | | (39) bps |
| Cumulative Value | Added (B) | \$ (22.2) | \$ | (4.5) | \$ (1.8) | \$ | (8.8) | \$ | (2.3) | \$ | (2.1) |
| Public Equity | \$ 206.0 | 7.6% | | 9.0% | 9.3% | | 16.0% | | 5.5% | | (1.8)% |
| Benchmark | ŷ 200.0 | 7.8% | | 9.0% | 9.1% | | 15.7% | | 5.5% | | (1.9)% |
| Excess | | (13) bps | | 7 bps | 21 bps | | 30 bps | | (8) bps | | 7 bps |
| Cumulative Value | Added (B) | \$ (0.4) | \$ | 1.3 | \$ 2.0 | \$ | 0.6 | \$ | (0.2) | \$ | 0.1 |
| Income | \$ 154.0 | 4.2% | | 1.9% | (0.4)% | 7 | 1.2% | 7 | 1.9% | 7 | (4.1)% |
| Benchmark | · | 3.7% | | 1.6% | (0.5)% | | 1.0% | | 1.8% | | (4.2)% |
| Excess | | 54 bps | | 34 bps | 17 bps | | 26 bps | | 13 bps | | 8 bps |
| Cumulative Value | Added (B) | \$ 5.3 | \$ | 2.8 | \$ 1.1 | \$ | 0.4 | \$ | 0.2 | \$ | 0.1 |
| Private Equity | \$ 89.0 | 12.0% | | 11.1% | 13.3% | | 11.9% | | 5.7% | | 2.5% |
| Benchmark | | 13.7% | | 12.2% | 14.1% | | 33.7% | | 10.4% | | 7.2% |
| Excess | | (169) bps | (| 108) bps | (86) bps | (2,1 | L77) bps | (4 | 169) bps | (4 | 173) bps |
| Cumulative Value | Added (B) | \$ (20.2) | \$ | (12.3) | \$ (10.4) | \$ | (14.4) | \$ | (3.8) | \$ | (4.1) |
| Real Assets | \$ 69.9 | 4.3% | | 5.5% | 3.3% | | (1.7)% | | 1.4% | | 2.5% |
| Benchmark | | 6.9% | | 4.9% | 2.0% | | (7.9)% | | (0.6)% | | 0.1% |
| Excess | | (263) bps | | 56 bps | 125 bps | | 621 bps | | 202 bps | | 239 bps |
| Cumulative Value | | \$ (9.7) | \$ | 2.7 | \$ 3.0 | \$ | 4.3 | \$ | 1.4 | \$ | 1.6 |
| Private Debt | \$ 19.0 | - | | - | - | | 14.5% | | 6.0% | | 2.8% |
| Benchmark | | - | | - | - | | 10.8% | | 4.6% | | 2.2% |
| Excess | | - | | - | - | | 364 bps | | 141 bps | | 58 bps |
| Cumulative Value | . , | - | | - | - | \$ | 0.4 | \$ | 0.2 | \$ | 0.1 |
| Net Financing | \$ (27.6) | - | | - | - | | - | | - | | - |
| Other Trust Level | \$ 13.0 | - | | - | - | | - | | - | | - |

Exhibit 2.1

All performance reported net of investment expenses and annualized for periods greater than 1-Yr unless noted as cumulative.

As of December 31, 2024

PERF Capital Market Returns

End Value

Capital Market segments performance mixed across periods

- FYTD performance is positive for all Capital Market segments except Treasury
- 5-Yr performance is mixed with positive performance for Cap Weighted, Factor Weighted, and High Yield while Treasury, MBS, and IG Corporates experienced negative performance
- Treasury is the only Capital Markets segment with negative performance across all time periods

| | End Value | | | | | | |
|-----------------------------------|------------|----------|-------------|-------------|-----------|-------------|-------------|
| | (B) | 20-Yr | 10-Yr | 5-Yr | 1-Yr | FYTD | 1-Qtr |
| Cap Weighted | \$ 153.5 | 7.9% | 9.6% | 10.5% | 17.5% | 5.5% | (1.1)% |
| Benchmark | | 8.1% | 9.5% | 10.3% | 17.1% | 5.6% | (1.2)% |
| Excess | | (12) bps | 8 bps | 25 bps | 40 bps | (10) bps | 9 bps |
| Cumulative Value | Added (B) | \$ (0.6) | \$ 1.0 | \$ 1.7 | \$ 0.5 | \$ (0.2) | \$ 0.1 |
| Factor Weighted | \$ 52.6 | - | - | 5.7% | 11.9% | 5.3% | (4.1)% |
| Benchmark | | - | - | 5.7% | 11.8% | 5.3% | (4.1)% |
| Excess | | - | - | 6 bps | 3 bps | (2) bps | (0) bps |
| Cumulative Value | Added (B) | - | - | \$ 0.2 | \$ 0.0 | \$ (0.0) | \$ (0.0) |
| Treasury | \$ 38.1 | - | (0.3)% | (4.1)% | (4.6)% | (0.7)% | (7.3)% |
| Benchmark | | - | (0.3)% | (4.0)% | (4.6)% | (0.7)% | (7.3)% |
| Excess | | - | (2) bps | (9) bps | 0 bps | 0 bps | 0 bps |
| Cumulative Value | Added (B) | - | \$ (0.2) | \$ (0.3) | \$ 0.0 | \$ 0.0 | \$ 0.0 |
| MBS | \$ 27.6 | 3.5% | 1.4% | (0.4)% | 2.0% | 2.5% | (2.7)% |
| Benchmark | | 2.8% | 1.0% | (0.6)% | 1.5% | 2.3% | (3.0)% |
| Excess | | 64 bps | 44 bps | 16 bps | 49 bps | 20 bps | 27 bps |
| Cumulative Value | Added (B) | \$ 1.3 | \$ 0.7 | \$ 0.2 | \$ 0.1 | \$ 0.1 | \$ 0.1 |
| IG Corporates | \$ 33.0 | 5.1% | 2.7% | (0.9)% | (0.4)% | 2.1% | (5.2)% |
| Benchmark | | 4.6% | 2.3% | (1.1)% | (0.5)% | 1.9% | (5.2)% |
| Excess | | 55 bps | 32 bps | 17 bps | 10 bps | 10 bps | (1) bps |
| Cumulative Value | Added (B) | \$ 1.2 | \$ 0.5 | \$ 0.2 | \$ 0.0 | \$ 0.0 | \$ (0.0) |
| High Yield | \$ 27.7 | - | - | 3.6% | 7.0% | 4.4% | (0.1)% |
| Benchmark | | - | - | 3.5% | 7.0% | 4.4% | (0.1)% |
| Excess | | - | - | 3 bps | 3 bps | 7 bps | 3 bps |
| Cumulative Value | Added (B) | - | - | \$ 0.0 | \$ 0.0 | \$ 0.0 | \$ 0.0 |
| EM Sovereign Bond | ds \$ 27.6 | - | - | - | 3.6% | 2.5% | (3.6)% |
| Benchmark | | - | - | - | 2.9% | 2.2% | (3.7)% |
| Excess | | - | - | - | 71 bps | 35 bps | 14 bps |
| Cumulative Value I Exhibit 2.2 | Added (B) | - | - | - | \$ 0.2 | \$ 0.1 | \$ 0.0 |

All performance reported net of investment expenses and annualized for periods greater than 1-Yr unless noted as cumulative.

As of December 31, 2024

PERF Private Market Returns

Private Equity, Private Debt, and Infrastructure have positive returns over all periods

- Private Equity excess performance can fluctuate rapidly over short periods with mark to market changes in its public benchmark
- Private assets have positive performance over the trailing 5-Yr, 10-Yr, and 20-Yr periods except for Forestland's trailing 10-Yr return
- Infrastructure outperformed Real Estate over all periods

| | End | d Value | | | | | | | | | | | |
|---------------------|-------|---------|--------|------|----|----------|--------------|------|----------|----|----------|----|---------|
| | | (B) | 20-Yı | • | : | 10-Yr | 5-Yr | | 1-Yr | | FYTD | 1 | Qtr |
| Private Equity | \$ | 89.0 | 12. | 0% | | 11.1% | 13.3% | | 11.9% | | 5.7% | | 2.5% |
| Benchmark | | | 13. | 7% | | 12.2% | 14.1% | | 33.7% | | 10.4% | | 7.2% |
| Excess | | | (169) | ops | (1 | L08) bps | (86) bps | (2,1 | .77) bps | (4 | 469) bps | (4 | 73) bps |
| Cumulative Value | Added | (B) | \$ (20 | 0.2) | \$ | (12.3) | \$ (10.4) | \$ | (14.4) | \$ | (3.8) | \$ | (4.1) |
| Private Debt | \$ | 19.0 | | - | | - | - | | 14.5% | | 6.0% | | 2.8% |
| Benchmark | | | | - | | - | - | | 10.8% | | 4.6% | | 2.2% |
| Excess | | | | - | | - | - | | 364 bps | | 141 bps | | 58 bps |
| Cumulative Value | Added | (B) | | - | | - | - | \$ | 0.4 | \$ | 0.2 | \$ | 0.1 |
| Infrastructure | \$ | 19.6 | | - | | 9.6% | 8.1% | | 13.1% | | 8.1% | | 6.1% |
| Benchmark | | | | - | | 3.7% | 2.0% | | (7.9)% | | (0.6)% | | 0.1% |
| Excess | | | | - | | 589 bps | 605 bps | 2, | 103 bps | | 869 bps | (| 606 bps |
| Cumulative Value | Added | (B) | | - | \$ | 5.6 | \$ 4.7 | \$ | 3.4 | \$ | 1.5 | \$ | 1.1 |
| Real Estate | \$ | 50.1 | 3. | 7% | | 4.9% | 1.9% | | (6.3)% | | (0.9)% | | 1.1% |
| Benchmark | | | 7. | 3% | | 5.1% | 2.0% | | (7.9)% | | (0.6)% | | 0.1% |
| Excess | | | (368) | ops | | (23) bps | (15) bps | | 165 bps | | (33) bps | : | 104 bps |
| Cumulative Value | Added | (B) | \$ (14 | 4.9) | \$ | (2.1) | \$ (1.6) | \$ | 0.8 | \$ | (0.2) | \$ | 0.5 |
| Forestland | \$ | 0.2 | | - | | 0.0% | 3.5% | | 1.6% | | (0.3)% | | 0.7% |
| Benchmark | | | | - | | 3.7% | 2.0% | | (7.9)% | | (0.6)% | | 0.1% |
| Excess | | | | - | (3 | 863) bps | 150 bps | | 950 bps | | 34 bps | | 65 bps |
| Cumulative Value | Added | (B) | | - | \$ | (0.9) | \$ (0.1) | \$ | 0.0 | \$ | 0.0 | \$ | 0.0 |

Exhibit 2.3

All performance reported net of investment expenses and annualized for periods greater than 1-Yr unless noted as cumulative.

As of December 31, 2024

Affiliate Investments Returns

Affiliate returns were in line with respective asset allocations

Fig. 1 1/5 | 1.15 / 1/4

- Affiliate funds are passively managed strategies, except for Long-Term Care Fund, with realized returns and volatility in line with the assigned asset allocation and benchmarks
- Positive excess returns are largely due to structural tax advantages of public equity and real estate investment trusts (REITs) funds vs their respective benchmarks

Defined Benefit, Health,

| and OPEB Plans | End | Value (M) | 20-Yr | 10-Yr | 5-Yr | 1-Yr | FYTD | 1-Qtr |
|-------------------------------------|-----|-----------|--------|--------|---------|----------|----------|----------|
| Judges' Retirement Fund | \$ | 59.6 | 1.8% | 1.9% | 2.6% | 5.5% | 2.6% | 1.2% |
| Benchmark | | | 1.7% | 1.8% | 2.5% | 5.3% | 2.6% | 1.2% |
| Excess | | | 16 bps | 16 bps | 18 bps | 21 bps | 7 bps | 6 bps |
| Judges' Retirement System Fund II | \$ | 2,752.4 | 6.3% | 6.1% | 5.6% | 8.9% | 4.1% | (3.8)% |
| Benchmark | | | 6.1% | 5.9% | 5.3% | 8.6% | 3.9% | (3.8)% |
| Excess | | | 17 bps | 26 bps | 28 bps | 30 bps | 13 bps | 9 bps |
| Legislators' Retirement System Fund | \$ | 90.6 | 4.9% | 3.7% | 2.2% | 3.2% | 2.1% | (4.0)% |
| Benchmark | | | 4.7% | 3.5% | 2.2% | 3.1% | 2.0% | (4.0)% |
| Excess | | | 21 bps | 15 bps | 8 bps | 9 bps | 4 bps | (1) bps |
| Health Care Fund | \$ | 75.4 | 3.2% | 1.4% | (0.2)% | 2.0% | 2.6% | 1.2% |
| Benchmark | | | 3.1% | 1.4% | (0.2)% | 1.8% | 2.6% | 1.2% |
| Excess | | | 12 bps | 2 bps | 0 bps | 17 bps | 3 bps | 1 bps |
| Long-Term Care Fund | \$ | 4,481.8 | 4.5% | 3.6% | 2.9% | 7.7% | 4.2% | (2.2)% |
| Benchmark | | | 4.4% | 3.6% | 2.9% | 8.0% | 4.6% | (1.9)% |
| Excess | | | 13 bps | 0 bps | (4) bps | (35) bps | (41) bps | (33) bps |
| CERBT Strategy 1 Fund | \$: | 19,690.4 | - | 6.2% | 5.7% | 8.8% | 4.3% | (3.6)% |
| Benchmark | | | - | 5.9% | 5.4% | 8.6% | 4.2% | (3.6)% |
| Excess | | | - | 29 bps | 22 bps | 25 bps | 12 bps | 8 bps |
| CERBT Strategy 2 Fund | \$ | 2,107.4 | - | 4.9% | 3.9% | 6.3% | 3.6% | (3.9)% |
| Benchmark | | | - | 4.7% | 3.7% | 6.1% | 3.5% | (4.0)% |
| Excess | | | - | 24 bps | 15 bps | 24 bps | 10 bps | 7 bps |
| CERBT Strategy 3 Fund | \$ | 786.2 | - | 3.9% | 2.7% | 4.6% | 3.0% | (4.1)% |
| Benchmark | | | - | 3.7% | 2.6% | 4.3% | 2.9% | (4.1)% |
| Excess | | | - | 19 bps | 10 bps | 21 bps | 8 bps | 5 bps |
| CEPPT Strategy 1 Fund | \$ | 209.6 | - | _ | 4.1% | 6.9% | 3.8% | (3.2)% |
| Benchmark | | | - | - | 4.0% | 6.8% | 3.7% | (3.3)% |
| Excess | | | - | - | 5 bps | 8 bps | 3 bps | 6 bps |
| CEPPT Strategy 2 Fund | \$ | 71.2 | - | - | 2.0% | 4.5% | 3.0% | (3.2)% |
| Benchmark | • | | - | - | 1.9% | 4.4% | 3.0% | (3.3)% |
| Excess | | | - | - | 3 bps | 11 bps | 7 bps | 6 bps |
| | | | | | | | | |

Exhibit 2.4

As of December 31, 2024

Affiliate Investments Returns

Target Date Fund returns were in line with respective asset allocations

- Target Date Funds closely tracked their respective benchmarks
- Positive excess returns are largely due to structural tax advantages of public equity and real asset investments vs their respective benchmarks

Supplemental Income Plans

| (457/SCP Plan) | End | Value (M) | 20-Yr | 10-Yr | 5-Yr | 1-Yr | FYTD | 1-Qtr |
|-------------------------------|-----|-----------|-------|--------|--------|---------|---------|---------|
| Target Income Fund | \$ | 188.0 | - | 3.9% | 3.8% | 6.7% | 3.2% | (2.1)% |
| Benchmark | | | - | 3.8% | 3.7% | 6.6% | 3.2% | (2.1)% |
| Excess | | | - | 12 bps | 14 bps | 9 bps | 0 bps | 2 bps |
| Target 2020 Fund | \$ | 165.8 | - | 4.6% | 4.9% | 7.6% | 3.4% | (2.0)% |
| Benchmark | | | - | 4.5% | 4.7% | 7.5% | 3.4% | (2.0)% |
| Excess | | | - | 13 bps | 16 bps | 8 bps | (1) bps | 1 bps |
| Target 2025 Fund | \$ | 236.3 | - | 5.6% | 6.1% | 9.7% | 4.0% | (1.7)% |
| Benchmark | | | - | 5.5% | 6.0% | 9.6% | 4.1% | (1.7)% |
| Excess | | | - | 14 bps | 17 bps | 5 bps | (2) bps | 1 bps |
| Target 2030 Fund | \$ | 273.4 | - | 6.4% | 7.1% | 11.3% | 4.3% | (1.7)% |
| Benchmark | | | - | 6.3% | 7.0% | 11.2% | 4.4% | (1.7)% |
| Excess | | | - | 11 bps | 11 bps | 3 bps | (3) bps | (0) bps |
| Target 2035 Fund | \$ | 205.5 | - | 7.3% | 8.3% | 13.0% | 4.8% | (1.5)% |
| Benchmark | | | - | 7.1% | 8.1% | 13.0% | 4.9% | (1.5)% |
| Excess | | | - | 13 bps | 13 bps | 1 bps | (5) bps | (1) bps |
| Target 2040 Fund | \$ | 194.1 | - | 8.1% | 9.3% | 15.0% | 5.3% | (1.3)% |
| Benchmark | | | - | 8.0% | 9.2% | 15.0% | 5.3% | (1.3)% |
| Excess | | | - | 13 bps | 12 bps | (2) bps | (6) bps | (2) bps |
| Target 2045 Fund | \$ | 123.4 | - | 8.5% | 9.6% | 15.8% | 5.6% | (1.1)% |
| Benchmark | | | - | 8.4% | 9.5% | 15.9% | 5.6% | (1.1)% |
| Excess | | | - | 13 bps | 12 bps | (3) bps | (7) bps | (2) bps |
| Target 2050 Fund | \$ | 79.1 | - | 8.5% | 9.6% | 15.8% | 5.6% | (1.1)% |
| Benchmark | | | - | 8.4% | 9.5% | 15.9% | 5.6% | (1.1)% |
| Excess | | | - | 13 bps | 12 bps | (3) bps | (7) bps | (2) bps |
| Target 2055 Fund | \$ | 32.9 | - | 8.5% | 9.6% | 15.8% | 5.6% | (1.1)% |
| Benchmark | | | - | 8.4% | 9.5% | 15.9% | 5.6% | (1.1)% |
| Excess | | | - | 13 bps | 12 bps | (3) bps | (7) bps | (2) bps |
| Target 2060 Fund | \$ | 15.6 | - | - | 9.6% | 15.8% | 5.6% | (1.1)% |
| Benchmark | | | - | - | 9.5% | 15.9% | 5.6% | (1.1)% |
| Excess | | | - | - | 10 bps | (3) bps | (7) bps | (2) bps |
| Target 2065 Fund ¹ | \$ | 5.0 | - | - | - | 15.8% | 5.6% | (1.1)% |
| Benchmark | | | - | - | - | 15.9% | 5.6% | (1.1)% |
| Excess | | | - | - | - | (4) bps | (7) bps | (2) bps |
| | | | | | | | | |

Exhibit 2.5

All performance reported net of investment expenses and annualized for periods greater than 1-Yr.

As of December 31, 2024

Affiliate Investments Returns

Core Fund returns were in line with benchmarks

- Target Date Funds closely tracked their respective benchmarks
- Positive excess returns are largely due to structural tax advantages of public equity and real asset investments vs their respective benchmarks

Supplemental Income Plans

| (457/SCP Plan) (cont.) | End | Value (M) | 20-Yr | 10-Yr | 5-Yr | 1-Yr | FYTD | 1-Qtr |
|------------------------------------------------|-----|-----------|-------------|--------------------------------|--------------------------------|--------------------------------|------------------------------|------------------------------|
| SSgA STIF Benchmark Excess | \$ | 117.4 | | 2.0% 1.8% 20 bps | 2.7% 2.5% 19 bps | 5.5% 5.3% 23 bps | 2.6% 2.6% 8 bps | 1.2% 1.2% 7 bps |
| SIP US Short Term Bond Core Benchmark Excess | \$ | 38.9 | - | 1.6% 1.6% (7) bps | 1.5% 1.6% (3) bps | 4.3% 4.4% (3) bps | 2.9% 2.9% (1) bps | (0.0)% (0.0)% 0 bps |
| SIP US Bond Core Benchmark Excess | \$ | 51.2 | - | 1.4% 1.3% 3 bps | (0.3)% (0.3)% 2 bps | 1.4% 1.3% 14 bps | 2.0% 2.0% 3 bps | (3.0)% (3.1)% 4 bps |
| SIP Real Asset Core Benchmark Excess | \$ | 16.7 | - | 4.3% 4.3% (0) bps | 6.3% 6.2% 9 bps | 4.4% 4.4% 7 bps | 1.7% 1.7% 2 bps | (4.3)% (4.3)% 2 bps |
| SIP Russell All Cap Core Benchmark Excess | \$ | 858.6 | | 12.6% 12.5% 2 bps | 13.9% 13.9% 3 bps | 23.8% 23.8% (3) bps | 9.0% 9.0% 0 bps | 2.6% 2.6% (0) bps |
| SIP Global All Cap EX-US Benchmark Excess | \$ | 76.6 | - - - | 5.2% 4.9% 26 bps | 4.3% 4.1% 19 bps | 5.2% 5.2% (8) bps | (0.0)% | (7.7)% (7.6)% (6) bps |

Exhibit 2.6

All performance reported net of investment expenses and annualized for periods greater than 1-Yr.

Section III. Markets and Economy

As of December 31, 2024

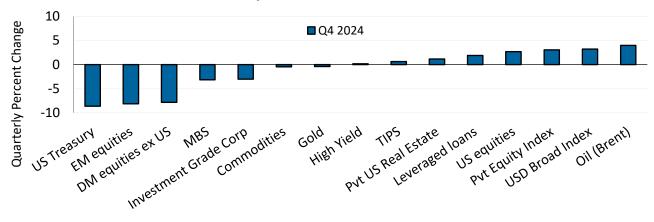
Macroeconomic Drivers and Outlook

Broad asset rally continued in Q4 but lost some momentum

Asset markets saw weak to modest gains amid a period of shifting narratives

- The major market-moving themes over the fourth quarter of 2024 were continued positive investor sentiment, in particular towards the US economy, coupled with burgeoning political and fiscal concerns. A strengthening belief that the US economy had managed a soft landing, in conjunction with a 25basis point reduction by the Federal Open Market Committee (FOMC) in December (after a 50basis point cut in September), and; nearer the end of the quarter, a decisive US election result, resulted in risk assets performing well. The top seven companies in the S&P500 equity index (Magnificent 7) outperformed, which also lifted US equity returns.
- By contrast, the nominal 10-year U.S. Treasury bond yield surged nearly 80 bps and closed the year at 4.56%, driven by the robust real economy, rising market-based measures of inflation, and increasing risk premia. Energy prices also recorded positive returns in Q4, supported by lingering inflation risks and geopolitical worries.
- Asset returns in the US have outperformed many of its peers, driven by robust US real economic
 activity and the economy's relative resilience to higher financing costs. Indeed, in Q4, US real GDP
 growth printed 2.6% yoy, around three times the pace experienced in other G7 countries, while
 China's economy struggles to move beyond its beleaguered residential sector. Global economic
 activity is expected to grow 3.3% in real terms over 2024.
- Since December 31, financial market pricing and asset returns have given back some of the Q4 moves. Many commentators attribute this to softer business sentiment related to policy uncertainty. The impact of tariffs and immigration controls on activity and inflation is highly uncertain: it depends on the form, size, and timing; while wider policy uncertainty, such as the next move by the FOMC and the impact of the New Administration's policies on the fiscal deficit, remains. The President and his advisor's approach to policy is different in style to the prior Administration with the same underlying drivers: protecting economic and security interests; ensuring the stability of supply chains; and an emphasis on strategic alliances. We expect the related global realignment to be a driver of returns over the medium-term.

Market-based asset returns over Q4 2024



Section IV. PERF Allocation

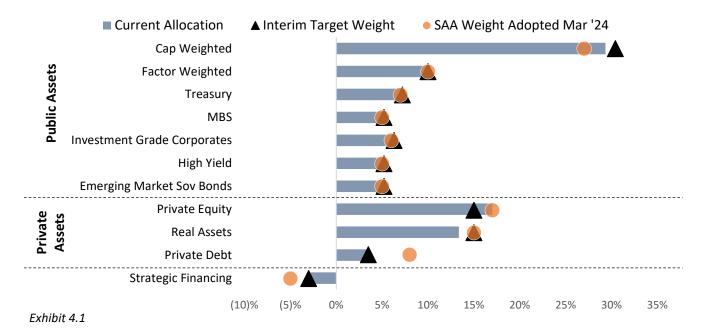
As of December 31, 2024

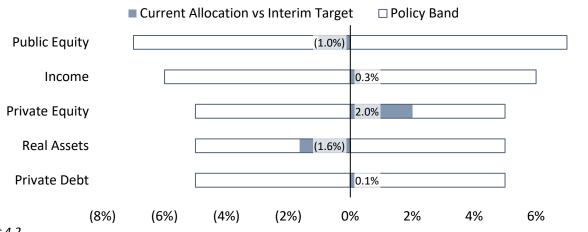
Strategic Asset Allocation

Allocation remains within policy bands

Interim Targets and Policy Bands

- The Board's General Pension Consultant, in consultation with the Investment Committee and staff, establishes Interim Allocation Targets to roughly reflect expected pacing towards the long-term SAA
- The charts below show current positioning versus current interim targets
- Illiquid Private allocations cannot be precisely targeted and fluctuate significantly due to public vs.
 private valuation changes. The policy bands exist in part to allow for a reasonable level of variation
 over time





8%

Section V. Risk Detail

As of December 31, 2024

Volatility

Total portfolio volatility has been in line with expectations

Current Levels

- Total Fund Volatility and Actionable Tracking Error have been stable for the past year. Total Fund
 Tracking Error has been increasing in line with an increasing % of private assets that exhibit higher
 tracking errors, especially private equity
- The Actionable Tracking Error metric captures deviations from benchmarks for all public market programs, out-of-benchmark opportunistic investments, and asset allocation. The current level of 15 basis points relative to the Policy Limit of 100 basis points indicates available leeway to increase active management in these spheres. There is no equivalent quantitative metric for private programs due to inherent limitations in modeling, measurement, and benchmarking

| | | Current | Last Qtr | Last Year |
|---------------------------------|---------------------|------------|-----------|------------|
| | Policy Limit | 12/31/2024 | 9/30/2024 | 12/29/2023 |
| Total Fund Volatility (%) | - | 13.7 | 13.5 | 13.6 |
| Policy Benchmark Volatility (%) | - | 12.0 | 12.2 | 12.3 |
| Tracking Error (%) | | | | |
| Actionable | < 1.00 | 0.15 | 0.13 | 0.15 |
| Total Fund | - | 2.21 | 1.91 | 1.83 |
| Allocation | - | 0.02 | 0.02 | 0.02 |

Exhibit 5.1

Section V. Risk Detail

As of December 31, 2024

Risk Decomposition

Growth oriented asset classes dominate overall risk

Contribution to Total Portfolio Volatility

 Growth-oriented assets dominate Total Fund Volatility: public and private equities contribute approximately 82% and the remaining asset classes have also significant growth component. For Income, diversification benefits offset much of the inherent volatility



Exhibit 5.2

| Asset Class | Market Value ¹ (\$ Millions) | Total Forecasted Volatility (%) | % Contribution to Total Volatility | 5-Year Realized Volatility (%) |
|-----------------------|--------------------------------------------|------------------------------------|---------------------------------------|-----------------------------------|
| Public Asset Classes | | | | |
| Public Equity | 205,636 | 17.6 | 49.2 | 16.3 |
| Cap Weighted | 153,091 | 18.6 | 38.6 | 17.6 |
| Factor Weighted | 52 <i>,</i> 545 | 15.0 | 10.7 | 13.6 |
| Income | 153,965 | 6.4 | 4.9 | 9.1 |
| Treasury | 38,067 | 10.4 | -0.2 | 12.2 |
| IG Corp | 33,047 | 9.4 | 1.4 | 13.2 |
| High Yield | 27,658 | 5.2 | 1.4 | 9.2 |
| MBS | 27,618 | 6.0 | 0.4 | 6.6 |
| EM Sov Debt | 27,575 | 7.5 | 1.8 | - |
| Other Trust Level | 12,902 | 3.2 | 0.4 | - |
| LLER | 12,496 | 2.6 | 0.2 | 3.1 |
| Opportunistic | 238 | 2.5 | 0.0 | - |
| Other | 168 | - | 0.2 | - |
| Financing & Liquidity | (28,743) | 0.2 | 0.0 | - |
| Liquidity | 10,937 | 0.0 | 0.0 | 0.0 |
| Trust Level Financing | (39,681) | 0.2 | 0.0 | - |
| Private Asset Classes | | | | |
| Private Equity | 92,306 | 26.6 | 33.1 | 10.4 |
| Real Assets | 69,962 | 12.4 | 10.8 | 6.1 |
| Private Debt | 18,976 | 7.2 | 1.6 | - |
| TOTAL PERF | 525,003 | 13.7 | 100.0 | 9.6 |

Section V. Risk Detail

Risk Decomposition (cont.)

Active equities and LLER are the largest contributors to Actionable TE

% Contribution to Actionable Tracking Error

- Total Fund Actionable Tracking Error (TE) is at 15 basis points vs. a policy limit of 100 basis points
- The primary contributors are external public equity managers; other meaningful contributors are allocation management and the Low Liquidity Enhanced Return (LLER) program

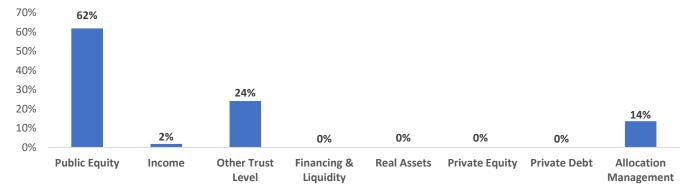


Exhibit 5.4

| Asset Class | Forecasted Tracking Error (basis points) | % Contribution to Actionable TE | 5-Year Realized TE (basis points) | |
|-----------------------|---------------------------------------------|------------------------------------|--------------------------------------|--|
| Public Equity | 32 | 62 | 19 | |
| Cap Weighted | 43 | 63 | 25 | |
| Factor Weighted | 11 | -1 | 12 | |
| Income | 21 | 2 | 22 | |
| Treasury | 9 | 0 | 35 | |
| IG Corp | 37 | -2 | 43 | |
| High Yield | 40 | -3 | 29 | |
| MBS | 64 | 4 | 33 | |
| EM Sov Debt | 37 | 3 | - | |
| Other Trust Level | 320 | 24 | - | |
| LLER | 262 | 15 | 294 | |
| Opportunistic | 253 | 0 | - | |
| Other | - | 8 | - | |
| Financing & Liquidity | - | 0 | - | |
| Liquidity | 17 | 0 | - | |
| Trust Level Financing | 19 | -1 | - | |
| Allocation Management | 2 | 14 | - | |
| TOTAL PERF Actionable | 15 | 100 | 14 | |
| Private Equity | 1,041 | | 1,340 | |
| Real Assets | 372 | | 280 | |
| Private Debt | 526 | | - | |
| TOTAL PERF | 220 | | 176 | |

Appendix 1: PERF Benchmarks

| Asset Class | Policy Benchmark |
|---------------------------------|---------------------------------------------------------------------------|
| Public Equity – Cap Weighted | Custom FTSE All World, All Cap Equity |
| Public Equity – Factor Weighted | Custom FTSE Factor Weighted Index |
| Private Equity | Custom FTSE All World, All Cap Equity + 150 basis points, Quarter Lag |
| Income - Treasury | Custom Bloomberg Government |
| Income - MBS | Custom Bloomberg Mortgage |
| Income - IG Corporates | 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), Quarter Lag |
| Private Debt | Morningstar LSTA U.S. Leveraged Loan 100 Index + 125 bps, Quarter Lag |
| Strategic Leverage | ICE BofA US 3-Month Treasury Bill Index +50 bps |

Appendix 2: Definitions

| <u>Term</u> | <u>Definition</u> |
|--------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 10 Year U.S. Treasury | The 10-Yr Treasury note (bond) is a debt obligation issued by the United States government with a maturity of 10 years upon initial issuance. A 10-Yr Treasury note pays interest at a fixed rate once every six months and pays the face value to the holder at maturity. The "10-Yr" is viewed as a sign of investor sentiment about the economy. A rising yield for the 10-Yr indicates falling demand for Treasury bonds, which means investors prefer higher-risk, higher-reward investments. A falling yield suggests the opposite. |
| Annual average percent change (aapc) | The change in a variable between one entire year and the prior entire year. This differs to an annual percent change, which looks at one point in time compared with the same point in time a year earlier. |
| Actionable Tracking Error | Investment Policy definition of the Total Fund tracking error that excludes the effect of active exposure from private asset classes arising from the modeling challenges and the non-investible nature of their benchmarks. |
| Active Leverage | The portion of Total Fund leverage that is controlled by staff and used to fund exposures incremental to the Strategic Asset Allocation. |
| Alpha | The measure of the return of an investment relative to an appropriate benchmark. |
| Basis Point (BP) | 1 basis point is 1/100 of a percent or 0.01. |
| Beta | A statistical measure of investment or portfolio return sensitivity to the market where the market is typically defined by a market index. A beta of 1.0 means the investment moves in synch with the market. A beta of 0.5 means the investment moves 50 as much as the market. A beta of 1.5 means the investment moves 150 as much as the market. For example, a portfolio with a beta of 0.8 is expected to have an 8 return when the market returns 10. |
| Benchmark | A collection of assets to compare against the portfolio's assets. These are typically market indices (e.g., SP500 or Bloomberg Barclays Global Aggregate). Benchmarks can be a useful tool to evaluate performance and risk. |
| Central Banks | The principal monetary authority of a nation, a central bank performs several key functions, including issuing currency and regulating the supply of credit in the economy. The Federal Reserve is the central bank of the United States. |

| <u>Term</u> | <u>Definition</u> |
|----------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Consensus Economics | Consensus Economics is a global macroeconomic survey firm that polls more than 700 economists monthly for their forecasts for over 2,000 macroeconomic indicators in 115 countries. The company is headquartered in London, United Kingdom. |
| Consumer Prices Index (CPI) | An index which measures changes in the prices of a (weighted average) basket of goods and services. This basket is representative of aggregate U.S. consumer spending and is a common reference point for inflation. |
| Counterparty | The legal entity that holds the other side of a contract or financial transaction. |
| Economic Activity | Any action that involves producing, distributing, or consuming products or services is an economic activity. Used synonymously with real GDP growth. |
| Event Risk | Refers to any future potential occurrence that can cause losses for investors or other stakeholders in a company or investment. |
| Excess Return | The portfolio return minus the portfolio benchmark return. Time-weighted excess return is not affected by the amount of capital invested. |
| Federal Reserve Open Market Committee (FOMC) | A twelve-member committee made up of the seven members of the Board of Governors; the president of the Federal Reserve Bank of New York; and, on a rotating basis, the presidents of four other Reserve Banks. The FOMC meets eight times a year to set Federal Reserve guidelines regarding the purchase and sale of government securities in the open market and the policy (overnight) interest rate as a means of influencing the volume of bank credit and money in the economy. |
| Financial Market Pricing | Current price at which an asset or service can be bought or sold. The market price of an asset or service is determined by the forces of supply and demand and, when traded in real time on global financial markets, can be influenced by (unrealized) expectations around the future. |
| Future Commission Merchant (FCM) | Highly regulated entities that accept orders for exchange traded contracts in Central Counterparty Clearing House (CCPs). Collateral posted at the FCM is mostly used to meet the margin requirements at the CCPs. The collateral in the counterparty section has been provided to the FCM to post at the CCPs on behalf of CalPERS and bridging operational timing and processing gaps in collateral transfer. |
| High Yield (HY) | Compared to Investment Grade, these bonds have a lower credit rating meaning they have a relatively higher risk of default. Due to their higher probability of default, they pay a higher yield to compensate investors for the additional risk. |

| <u>Term</u> | <u>Definition</u> |
|--------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Inflation | A rate of increase in the general price level of goods and services. The general term 'inflation' usually refers to the change in the CPI index over one year. |
| International Monetary Fund (IMF) | An international organization with 146 members, including the United States. The main functions of the IMF are to lend funds to member nations to finance temporary balance of payments problems, to facilitate the expansion and balanced growth of international trade, and to promote international monetary cooperation among nations. The IMF also creates special drawing rights (SDR's), which provide member nations with a source of additional reserves. Member nations are required to subscribe to a Fund quota, paid mainly in their own currency. The IMF grew out of the Bretton Woods Conference of 1944. |
| International Swaps and Derivatives Association (ISDA) | A trade organization of market participants that facilitates standardization of contractual agreements to trade over-the-counter derivative contacts. CalPERS enters into ISDA agreements to trade derivatives; for example, FX forwards, total return and interest rate swaps. |
| Investment Grade (IG) | Bonds with a higher credit rating meaning they have a relatively low risk of default. |
| Liquidity Coverage Ratio | Metric refers to the proportion of liquid assets to meet short term obligations under a stress scenario (within 30 days). The ratio divides Sources of Liquidity by Uses of Liquidity. |
| Liquidity (sources of) | Includes: Cash Equivalents, Pension Contributions & Other Inflows, Internal Funding and Liquidity on Demand. |
| Liquidity (uses of) | Includes: Pension Benefits, Private Asset Funding, Contingent uses and Maturing Derivatives/Repos & Others. |
| Macroeconomics | A branch of economics that studies how an overall economy (markets, businesses, consumers, and governments) behave. Macroeconomics examines economy-wide phenomena such as inflation, price levels, rate of economic growth, national income, gross domestic product (GDP), and changes in unemployment. |
| Master Repurchase Agreement (MRA) | The bilateral agreement that governs the collateralized loans of securities. CalPERS uses this contract to enter into forward purchase/repurchase of US Treasuries and Mortgage securities and to post/receive collateral in return (also known as Repo and Reverse Repo). |

| <u>Term</u> | <u>Definition</u> |
|---------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Master Securities Forward Transaction Agreement (MFSTA) | The bilateral agreement that CalPERS uses to enter into forward purchase or sale of mortgage bonds and "TBA" instruments. |
| Net Asset Value (NAV) | The value of an investment fund's assets less its liabilities. |
| Net Return | Performance net of internal and external investment office management expenses. CalPERS' performance uses a daily Modified-Dietz methodology which is geometrically linked to produce time-weighted returns for longer periods. |
| | Daily Rate of Return Formula 6/30/2016 & Prior: Dollar Value Added / (Beginning Market Value + Net Cash Flows) 7/1/2016 to Present: Dollar Value Added / Beginning Market Value Dollar Value Added = Gains/losses due to price appreciation and income |
| | Daily returns are geometrically linked to produce longer period returns. |
| Unfunded Commitments | A legally binding commitment to a private asset investment fund/vehicle for which the capital has not yet been drawn. |
| Oil (Brent) | A crude oil blend commonly referred to as Brent Blend, London Brent, or Brent petroleum. It is the main global benchmark for oil prices. |
| Oil (WTI) | West Texas Intermediate is also crude oil blend. It serves as the main US benchmark for oil prices. |
| Over the Counter (OTC) | A decentralized market where participants trade stocks, bonds, currencies, or derivatives without a centralized exchange or broker. |
| Public Employee's Retirement Fund (PERF) | An investment fund created under California state statute and exclusively controlled by the CalPERS Board. The fund is managed with the expressed purpose of paying retirement benefits to participating members. |
| Policy Rate | The policy interest rate is that at which the central bank will pay or charge commercial banks for their deposits or loans. This rate affects the interest rate that commercial banks apply with their customers, both borrowers and depositors, and more generally, impacts on the general price (rate) of credit |

in the economy.

| Term | <u>Definition</u> |
|-----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <u>ieim</u> | <u>Seminaria</u> |
| Portfolio Market Value | The sum of the underlying investment values +/- any open receivables or payables (uninvested assets), consistent with the Net Asset Value or Total Net Assets reported in accounting. Public Asset Market Values are calculated as units held x price per unit + accrued income. Private Asset Market Values represent an opinion of value as of a certain date as stated by either the investment advisor or independent appraiser. Market value differs from amount funded or net investment in that the value includes unrealized gains or losses during the holding period. |
| Real Gross Domestic Product (GDP) | Measures the total economic output of a country over a specified period (often a year) adjusted for changes in price. The total economic output refers to the volume of all goods and services produced by an economy. It is often referred to as constant-price GDP or constant dollar GDP. |
| SLA/Sec Lending | Refers to the Securities Lending Agreement ("SLA") under which CalPERS lends securities and receives either cash or other securities as collateral. |
| Supply-Chain | A network of individuals and companies who are involved in creating a product and delivering it to the consumer. Links on the chain begin with the producers of the raw materials and end when the finished product is delivered to the end user. |
| Supplemental Income Plans (SIP) | Refers to the combined program for the Public Employees' Deferred Compensation Fund and the Supplemental Contributions Program. |
| Tracking Error | Standard deviation of the differential return between the portfolio and an equal investment in the benchmark. |
| Uncertainty | The range of possible values or paths. These are unknown. |
| Value Added | The incremental gain or loss in dollars resulting from portfolio implementation, active management, and imperfectly investible benchmarks. Over shorter time horizons, the benchmark component can create significant variability in outcomes. Unlike a time-weighted excess return which does not account for the size of the investment, value added will vary with the amount of capital invested. Also referred to as "Dollar Value Added". |
| Volatility | A measure of the distribution of portfolio returns (or a given security). It is |

typically defined as the statistical standard deviation of returns, annualized.

| <u>Term</u> | <u>Definition</u> |
|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Wage Growth | Wages are the compensation paid to employees for the work or services they perform over a specified period. In the US it is often described as average hourly earnings. Wage growth typically refers to the annual change in wages. |
| Yield Curve | A yield curve is a line that plots yields (interest rates) of bonds having equal credit quality but differing maturity dates. The slope of the yield curve gives an idea of future interest rate changes and economic activity. There are three main yield curve shapes: normal (upward sloping curve), inverted (downward sloping curve), and flat. |