

April 2025

BUILDING THE TRUST

Investment Management



**Teacher Retirement System of
Texas**

1000 Red River Street
Austin, Texas
78701-2698

**TEACHER RETIREMENT SYSTEM OF TEXAS MEETING
BOARD OF TRUSTEES
AND
INVESTMENT MANAGEMENT COMMITTEE**

*All or part of the April 10, 2025, meeting of the TRS Investment Management Committee and Board of Trustees may be held by telephone or video conference call as authorized under Sections 551.130 and 551.127 of the Texas Government Code. The Board intends to have a quorum and the presiding officer of the meeting physically present at the following location, which will be open to the public during the open portions of the meeting: **1000 Red River, Austin, Texas 78701 in the TRS East Building, 5th Floor, Boardroom.** T*

The open portions of the April 10, 2025, meeting are being broadcast over the Internet. Access to the Internet broadcast and agenda materials of the meeting is provided at www.trs.texas.gov. A recording of the meeting will be available at www.trs.texas.gov.

AGENDA

April 10, 2025 – 2:00 p.m.

1. Call roll of Committee members.
2. Consider the approval of the proposed minutes of the December 2024 committee meeting – Committee Chair.
3. CIO Update including Talent Management; Accomplishments; Notices; Awards; Key Dates and Upcoming Events – Jase Auby.
4. Discuss the Fourth Quarter 2024 Performance Review – Mike Comstock and Ashley Woeste, Aon.
5. Semi-Annual Risk Report – James Nield and Stephen Kim.
6. Annual Review of Public Markets – Dale West, Lulu Llano, Kyle Wynne and Ashley Baum.

NOTE: The Board of Trustees (Board) of the Teacher Retirement System of Texas will not consider or act upon any item before the Investment Management Committee (Committee) at this meeting of the Committee. This meeting is not a regular meeting of the Board. However, because the full Committee constitutes a quorum of the Board, the meeting of the Committee is also being posted as a meeting of the Board out of an abundance of caution.

Minutes of the Investment Management Committee December 5, 2024

The Investment Management Committee of the Board of Trustees of the Teacher Retirement System of Texas met on December 5, 2024, in the boardroom located on the Fifth Floor in the East Building of TRS' offices located at 1000 Red River Street, Austin, Texas, 78701.

Committee members who participated:

Mr. David Corpus, Chair
Ms. Brittney Allred
Mr. John Elliott
Ms. Nanette Sissney
Mr. Robert H. Walls, Jr.

Other TRS Board Members Present:

Mr. Mike Ball
Mr. James D. Nance
Mr. John R. Rutherford
Mr. Elvis Williams

Others present:

Brian Guthrie, TRS
Caasi Lamb, TRS
Heather Traeger, TRS
Jase Auby, TRS
Katy Hoffman, TRS
James Nield, TRS
Mark Telschow, TRS
Jamie Llano, TRS
Denise Lopez, TRS
Chris Bowlin, TRS
Katherine Farrell, TRS
Suzanne Dugan, Cohen Milstein
Dr. Keith Brown, Board Advisor
Mike Comstock, Aon
Ashley Woeste, Aon.

Investment Management Committee Chairman, Mr. David Corpus, called the meeting to order at 1:41 p.m.

1. Call roll of Committee members.

Ms. Farrell called the roll. A quorum was present.

2. Consider the approval of the proposed minutes of the September 2024, Investment Management Committee meeting – Chair David Corpus.

On a motion by Mr. Elliott, seconded by Ms. Allred, the committee unanimously voted to approve the proposed minutes for the September 2024 Investment Management Committee meeting as presented.

3. CIO Update including Talent Management; Accomplishments; Notices; Awards; Key Dates and Upcoming Events – Jase Auby.

Mr. Jase Auby provided an overview of IMD matters. He said as of third quarter the Trust ended one-year performance at 17 percent, 241 basis points of excess return. He noted for the three-year return with 4 percent, with 146 basis points of excess return. He noted having held the SPN Summit recently where U.S. Treasuries and the future of the market were examined. He said as of yesterday, the transition to the new SAA approved by the Trustees in September was completed.

4. Discuss the Third Quarter 2024 Performance Review – Mike Comstock and Ashely Woeste, AON.

Mr. Mike Comstock provided an overview of the Trust's performance. He reviewed the market performance noting the four major components of the Trust. He said global equity aided the Trust Fund growth with six percent for the quarter and 35 percent for the one-year period. He also noted a falling rate environment was good for long Treasuries. He said the Treasury portfolio has been a headwind over the long term for the Trust Fund. He reported real estate as an alpha generator for the Trust but the one year return for the ODCE was down 10 percent. In aggregate the total benchmark was up 4.7, and 14.7 for the one-year period. He reported the asset allocation was in line with the approved targets and certainly within the policy allowed ranges. He said the Trust Fund's absolute performance was 4.5 percent return for the third quarter. In regard to risk performance, he reported, the risk was in line with the median Fund but the return was short. He said this stemmed the long duration Treasury portfolio and an underweight in U.S. equities relative to non-U.S. equities. He said with the new SAA the spread between non and U.S. equities has narrowed.

5. Update of the Trading Group – Jaime Llano.

Mr. Jaime Llano provided an overview of the Trading Group. He said the group has three mandates, the first being implementation, effectively execute all IMD investment ideas. The second mandate he said is market intelligence such as pre-trade analysis, coming up with implementation solutions, transition management and corporate actions. The third mandate is index management, he said, this is done by replicating the benchmark index by owning all the eligible securities. He reviewed the life of an equity from the time the portfolio manager decides to trade a security to post-trade analysis. He reported over the year \$338 billion was traded, 9.6 billion shares, 246,000 trades, 2.1 million future contracts, over 50 countries, and over 17 currencies.

6. Update on the IMD Legal & Compliance – Heather Traeger, Denise Lopez and Chris Bowlin.

Ms. Heather Traeger reviewed the guiding principles that are followed by the Legal & Compliance (L&C) team. Mr. Chris Bowlin reviewed the make up of the L&C team. Ms. Denise Lopez noted the team are considered generalists in that they advise on any legal matter for any IMD portfolio. She said a substantial amount of work is retained in-house while outsourcing standard repetitive contracts that require little legal analysis. She said this optimizes not only internal and external counsels time but helps minimize costs and control legal costs. Mr. Bowlin stated Compliance similarly seeks to balance the use of external counsel for special projects versus the routine tasks. Ms. Lopez reported that private markets consistently has the highest number of legal compliance matters with 280 matters and real estate comes in second with 140 matters. She emphasized that even though a portfolio may have less overall matters, it did not equate to spending less time on matters for those groups. She gave the example of external private markets could have a matter that last months due to its complexity. She noted the number of matters are skewing back to pre-COVID numbers, having seen a peak in 2022 of over 800 matters. She reviewed how L&C is alongside IMD from the beginning of basically every investment made for the Trust. Mr. Bowlin then reviewed how Compliance is involved in the post-deal life of the Fund matters, such as actively monitoring holdings and advising on regulatory reports. Ms. Lopez and Mr. Bowlin concluded by reviewing L&C's 2024 accomplishments and 2025 goals.

7. Update of the Risk and Portfolio Management – James Nield and Mark Telschow.

Mr. James Nield reviewed the four mandates of the team. He said that the Risk Management team works to make sure all the different profit centers across the Trust come together to provide one cohesive portfolio. Second, the Portfolio Strategies team manages 21 percent of the Trust. Third, the Trust Management team works to keep the Trust on track in two ways. He said this is done by one, rebalancing the Trust as needed (managing the over and underweights throughout the Trust) and two, by raising cash and liquidity as needed to support operational or financing needs. The fourth mandate is the Trust Strategy Team that coordinates the Asset Allocation Study that informs decision making.

Mr. Mark Telschow reviewed the portfolios that account for the 21 percent of the Trust assets. He said the largest, government bonds nominal, has a 10 percent Trust target allocation. He said for Risk Parity, there was 10 basis points of alpha contribution. He said two-thirds of the portfolio is managed internally with a third allocated to external managers. Mr. Nield concluded by reviewing the upcoming year and the priorities of the team.

There being no more business before the Investment Management Committee, the committee adjourned at 2:57 p.m.

Approved by the Investment Management Committee of the Board of Trustees of the Teacher Retirement System of Texas on April __, 2025.

Katherine H. Farrell
Secretary of the TRS Board of Trustees

Date

CIO Update

Jase Auby, Chief Investment Officer

April 2025



CIO Update

IMD at a Glance

Priorities

- **Performance.** The Trust ended 2024 with a 1-year return of 7.9% and +239 bp of excess return. The 3-year return is 2.0% with +163 bp of excess return
- **Return to Office.** Starting March 31, 2025, the IMD returned to office five days per week
- **Legislative.** Engaging in the 89th Texas Legislative session to offer subject matter expertise
- **Quantitative Equity Group.** Established to reinforce our investment capabilities and team development
- **Compensation.** Conducting biennial base compensation study alongside OE and Mercer

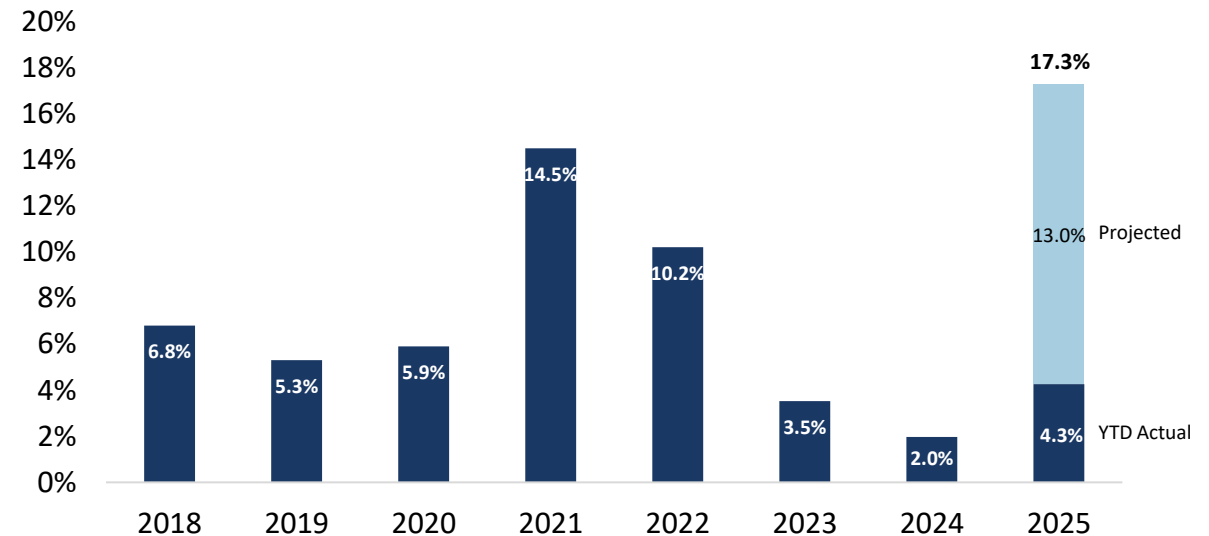
Our People

Snapshot as of March 2025

IMD FTEs	253
Contractors	4

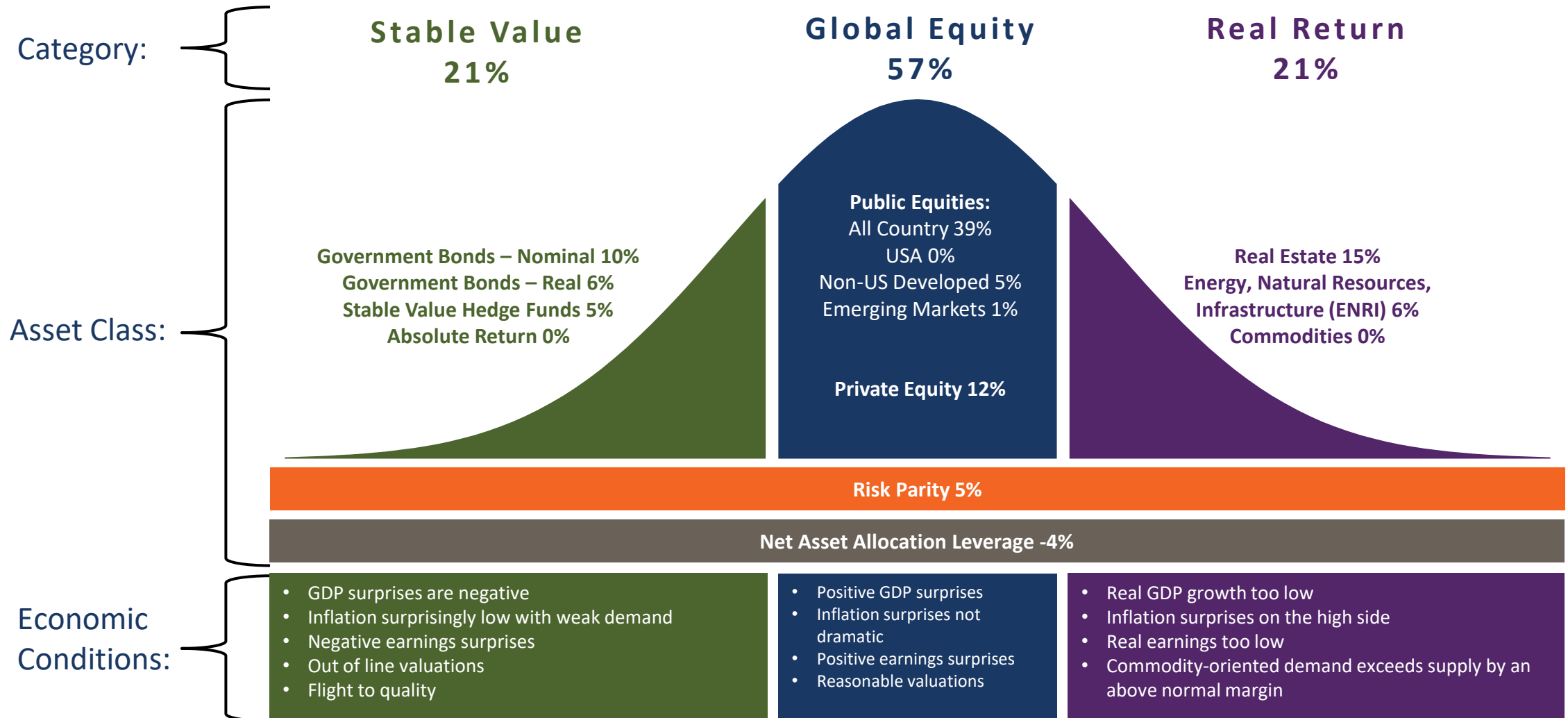
Attrition Trend 2018 – 2025

as of March 2025



Investment Management

Strategic Asset Allocation – Diversification Framework

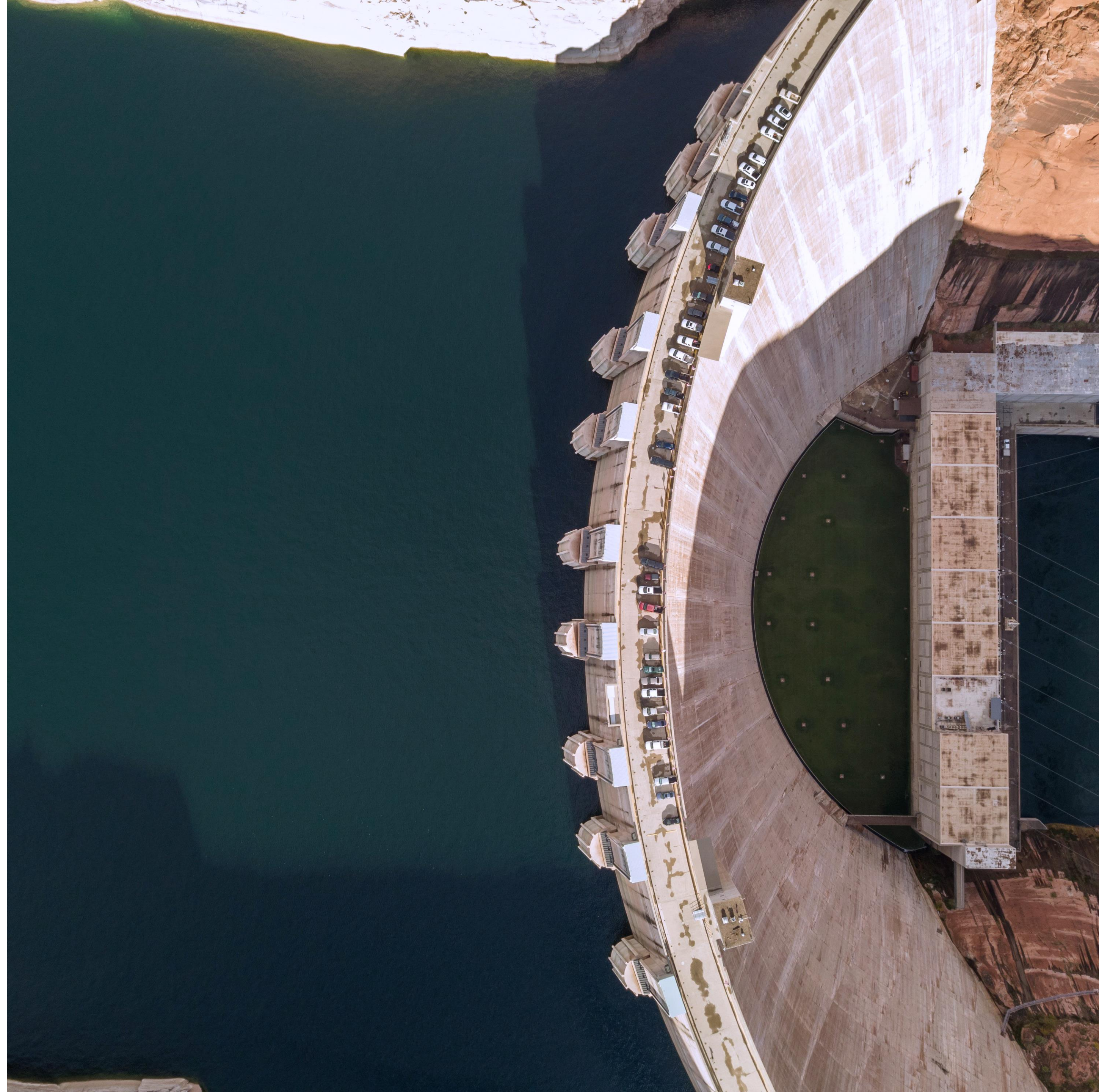




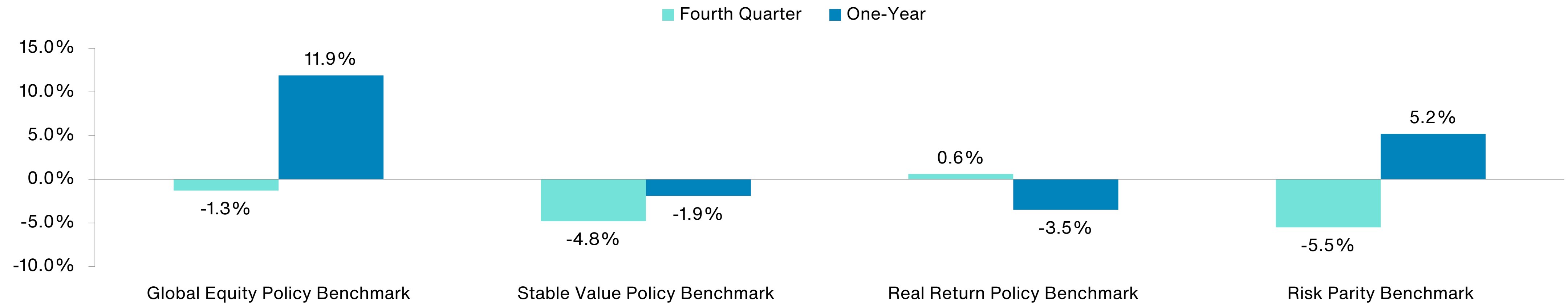
Teacher Retirement System of Texas

Performance Review:
Fourth Quarter 2024

Investment advice and consulting services provided by Aon Investments USA, Inc.
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Summary



In Q4 2024, the S&P 500 Index continued making new highs throughout the quarter in response to lowering interest rates by the Federal Reserve, range-bound inflation, better than expected economic growth, and a post-election “relief rally”. However, non-U.S. equities declined, largely driven by a stronger dollar.

Global equities fell -1.3% for the quarter, and they returned 11.9% over a trailing 1-year period.

The U.S. Fed cut its benchmark interest rate twice over the quarter by 0.25% each to a range of 4.25%- 4.50%. In its December 2024 meeting, the Federal Open Market Committee (FOMC) stated that the risks to achieving its employment and inflation targets are fairly balanced. The latest Fed "dot plot," showed FOMC members projecting a reduction of only half a percentage point in interest rates for 2025 with the rate expected to decline to 3% beyond 2027.

TRS returned -1.5% for the quarter which was about 0.5 percentage points above its benchmark.

–Outperformance at the asset class level for Public Equity, Stable Value, and Real Return were the primary driver for relative results.

For the trailing twelve months, TRS returned 7.9% versus the benchmark return of 5.5%.

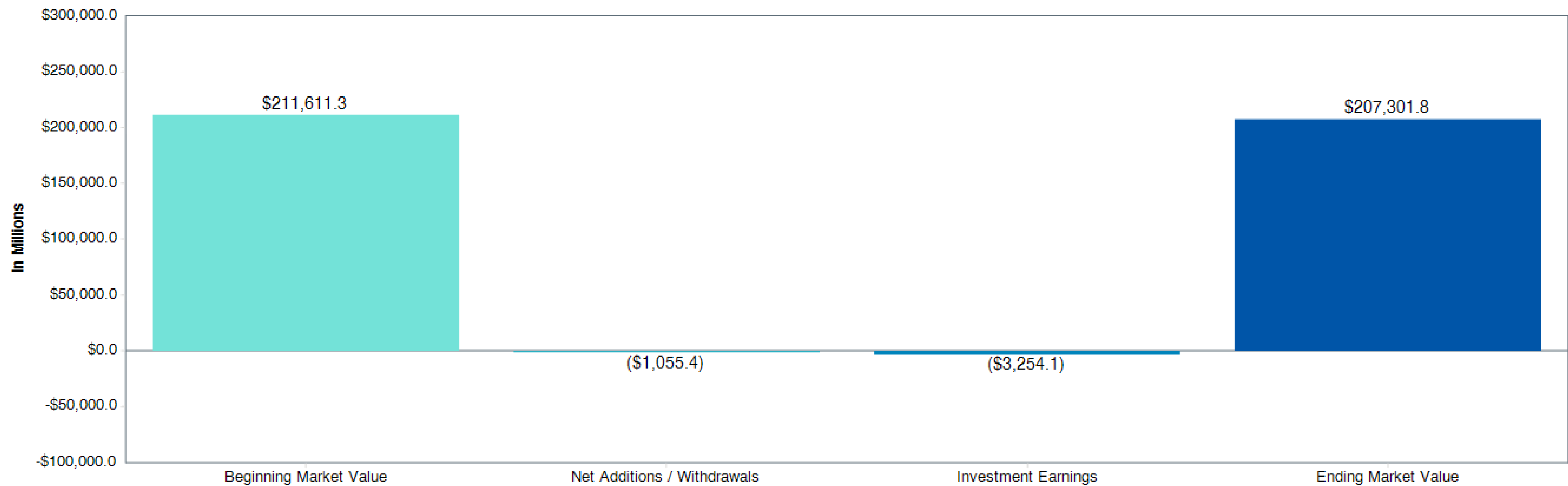
–Outperformance from the Global Equity, Stable Value, and Real Return asset classes were the primary drivers of relative performance.

1. Market Summary – Fourth Quarter 2024

	Fourth Quarter	One Year	Three Years	Five Years	Ten Years
Global Equity:					
TRS All Country Benchmark	-1.0%	--	--	--	--
TF USA Benchmark	2.6	23.8	8.0	14.0	12.7
TRS Non-US Developed Benchmark	-7.6	4.4	1.7	5.0	5.2
TRS Emerging Markets Benchmark	-8.3	5.3	-2.0	1.6	3.6
Customized State Street Private Equity Index (quarter lagged)	1.2	7.1	4.0	13.7	12.3
<i>Global Equity Policy Benchmark</i>	-1.3	11.9	4.1	10.1	9.3
Stable Value:					
Bloomberg Long Treasury Index	-8.6%	-6.4%	-12.0%	-5.2%	-0.6%
Bloomberg U.S. TIPS Index	-2.9	--	--	--	--
SOFR + 2.5%	1.8	--	--	--	--
Absolute Return Benchmark	2.2	9.7	8.4	6.0	4.7
90 Day U.S. Treasury Bill	1.2	5.4	4.1	2.5	1.8
<i>Stable Value Policy Benchmark</i>	-4.8	-1.9	-7.7	-2.3	0.7
Real Return:					
NCREIF ODCE (quarter lagged)	0.0%	-8.0%	-1.0%	2.1%	5.2%
Energy, Natural Resources & Infrastructure Benchmark	1.7	6.8	10.0	8.6	--
Goldman Sachs Commodities Index	3.8	9.2	9.6	7.1	1.2
<i>Real Return Policy Benchmark</i>	0.6	-3.5	2.2	4.0	5.0
Risk Parity:					
<i>Risk Parity Benchmark</i>	-5.5%	5.2%	-5.0%	0.8%	3.5%
TRS Policy Benchmark	-2.0%	5.5%	0.4%	5.8%	6.5%

2. Market Value Change

From September 1, 2024 to December 31, 2024



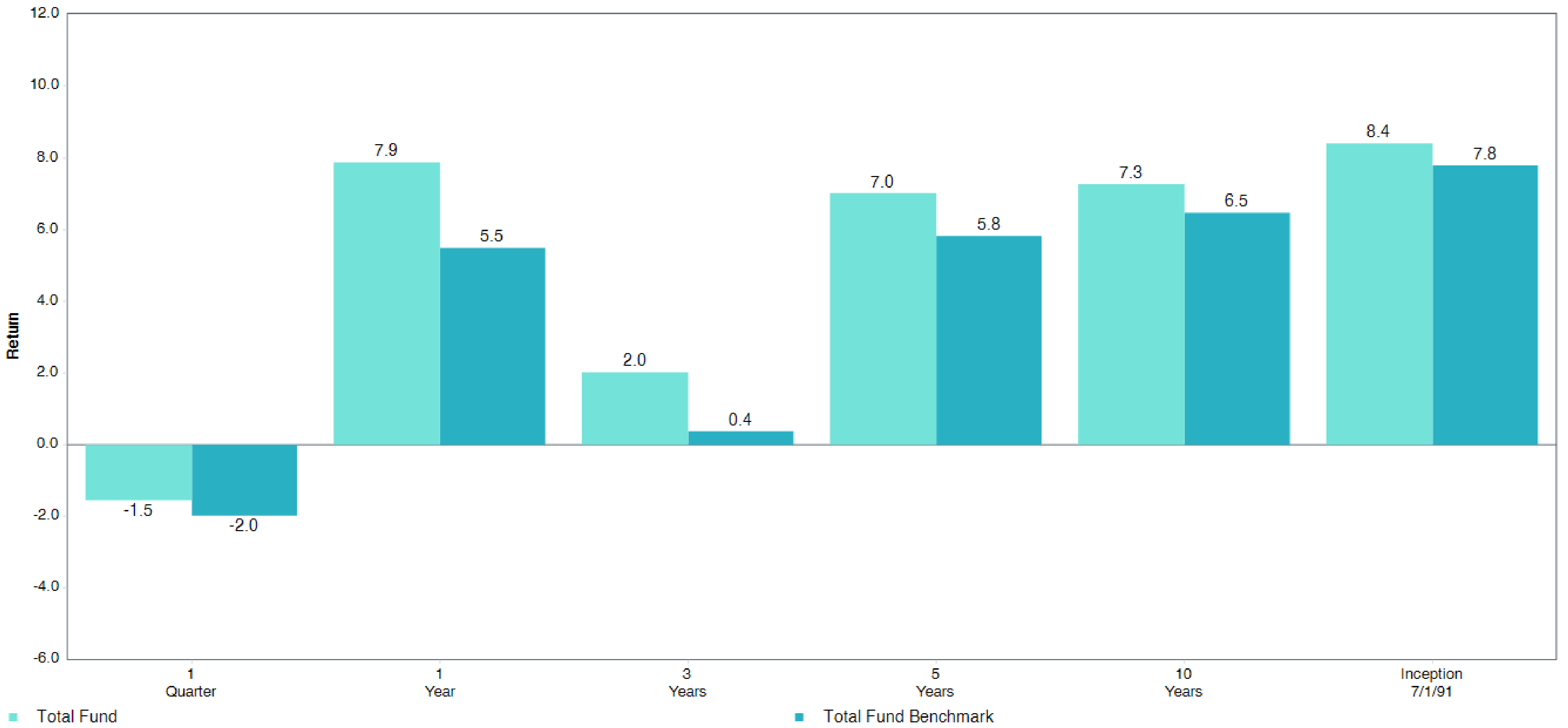
Summary of Cash Flows				
	1 Quarter	1 Year	3 Years	5 Years
Total Fund				
Beginning Market Value	211,611,346,875	192,953,353,892	204,712,889,318	162,585,302,761
+ Additions / Withdrawals	-1,055,435,192	-1,005,305,493	-9,031,806,072	-17,527,484,474
+ Investment Earnings	-3,254,128,000	15,353,735,284	11,620,700,437	62,243,965,397
= Ending Market Value	207,301,783,683	207,301,783,683	207,301,783,683	207,301,783,683

3. Asset Allocation Detail

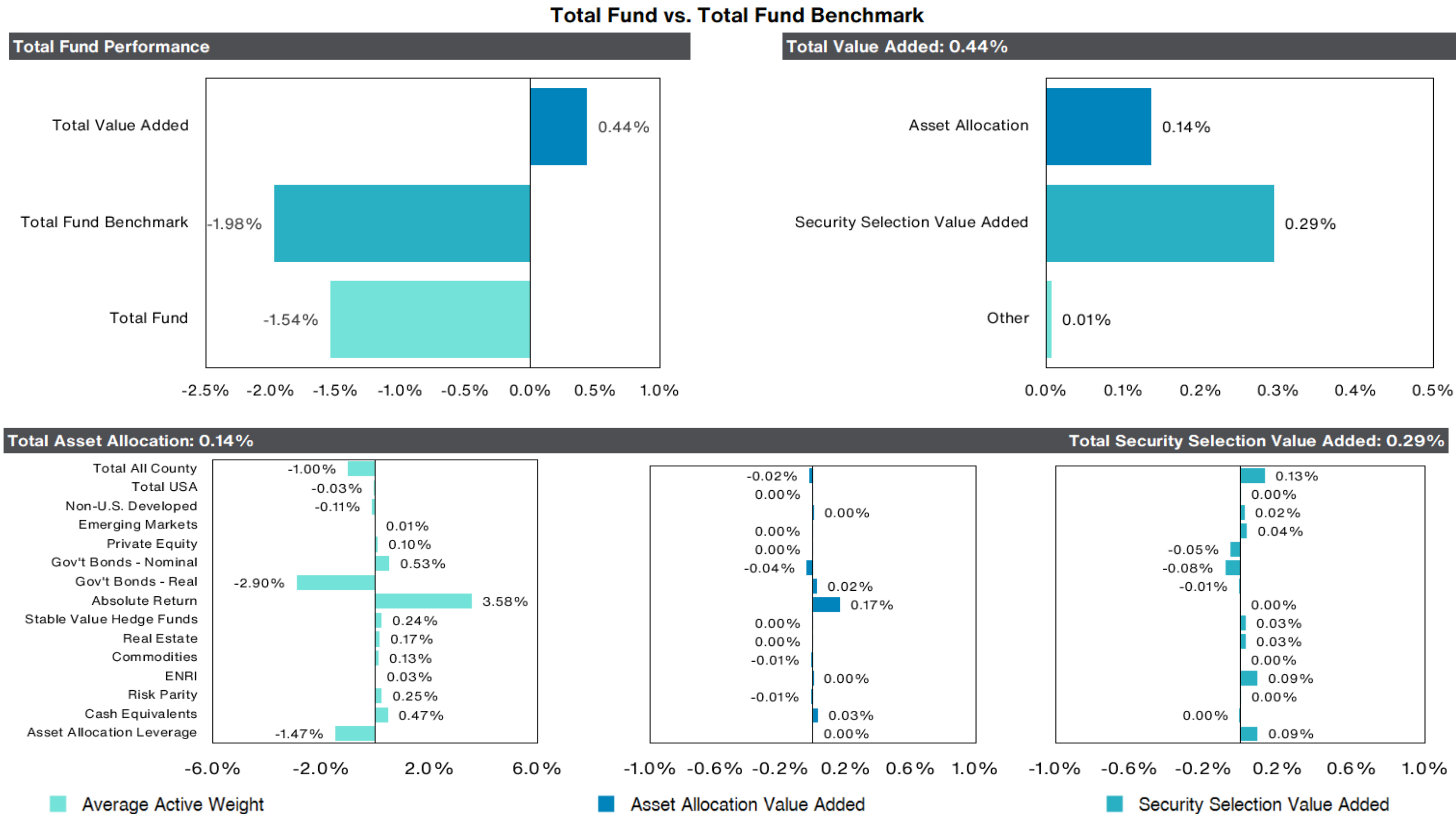
	Market Value \$ in millions) as of 12/31/2024		Interim Policy Target	Relative to Interim Policy Target	Long Term Policy Target	Long Term Policy Ranges
	(\$)	(%)				
Investment Exposure	--	105.2%	104.0%	+1.2%	104.0%	93-115%
Total All Country	\$74,042	35.7%	37.0%	-1.3%	39.0	34-44%
Non-U.S. Developed	\$9,640	4.7%	4.7%	0.0%	5.0	0-10%
Emerging Markets	\$1,931	0.9%	1.0%	-0.1%	1.0	-4-6%
Private Equity	\$32,646	15.7%	15.8%	-0.1%	12.0	7-19%
Global Equity	\$118,259	57.0%	58.3%	-1.3%	57.0%	50-64%
Government Bonds - Nominal	\$18,674	9.0%	9.5%	-0.5%	10.0	0-15%
Government Bonds - Real	\$6,281	3.0%	5.7%	-2.7%	6.0	0-11%
Stable Value Hedge Funds	\$11,075	5.3%	4.8%	+0.5%	5.0	0-10%
Absolute Return	\$7,327	3.5%	0.0%	+3.5%	0.0	0-10%
Stable Value	\$43,357	20.9%	20.1%	+0.8%	21.0%	14-28%
Real Estate	\$29,947	14.4%	14.1%	+0.3%	15.0	10-20%
Energy, Natural Resource and Inf.	\$14,261	6.9%	6.8%	+0.1%	6.0	1-11%
Commodities	\$241	0.1%	0.0%	+0.1%	0.0	0-5%
Real Return	\$44,449	21.4%	20.9%	+0.5%	21.0%	14-28%
Risk Parity	\$9,661	4.7%	4.7%	0.0%	5.0	0-10%
Risk Parity	\$9,661	4.7%	4.7%	0.0%	5.0%	0-10%
Cash	\$5,657	2.7%	2.0%	+0.7%	2.0	0-7%
Asset Allocation Leverage	-\$14,081	-6.8%	-6.0%	-0.8%	-6.0	--
Net Asset Allocation	-\$8,424	-4.1%	-4.0%	-0.1%	-4.0%	--
Total Fund	\$207,302			---	100.0%	--

4. Total TRS Performance Ending 12/31/2024

Return Summary

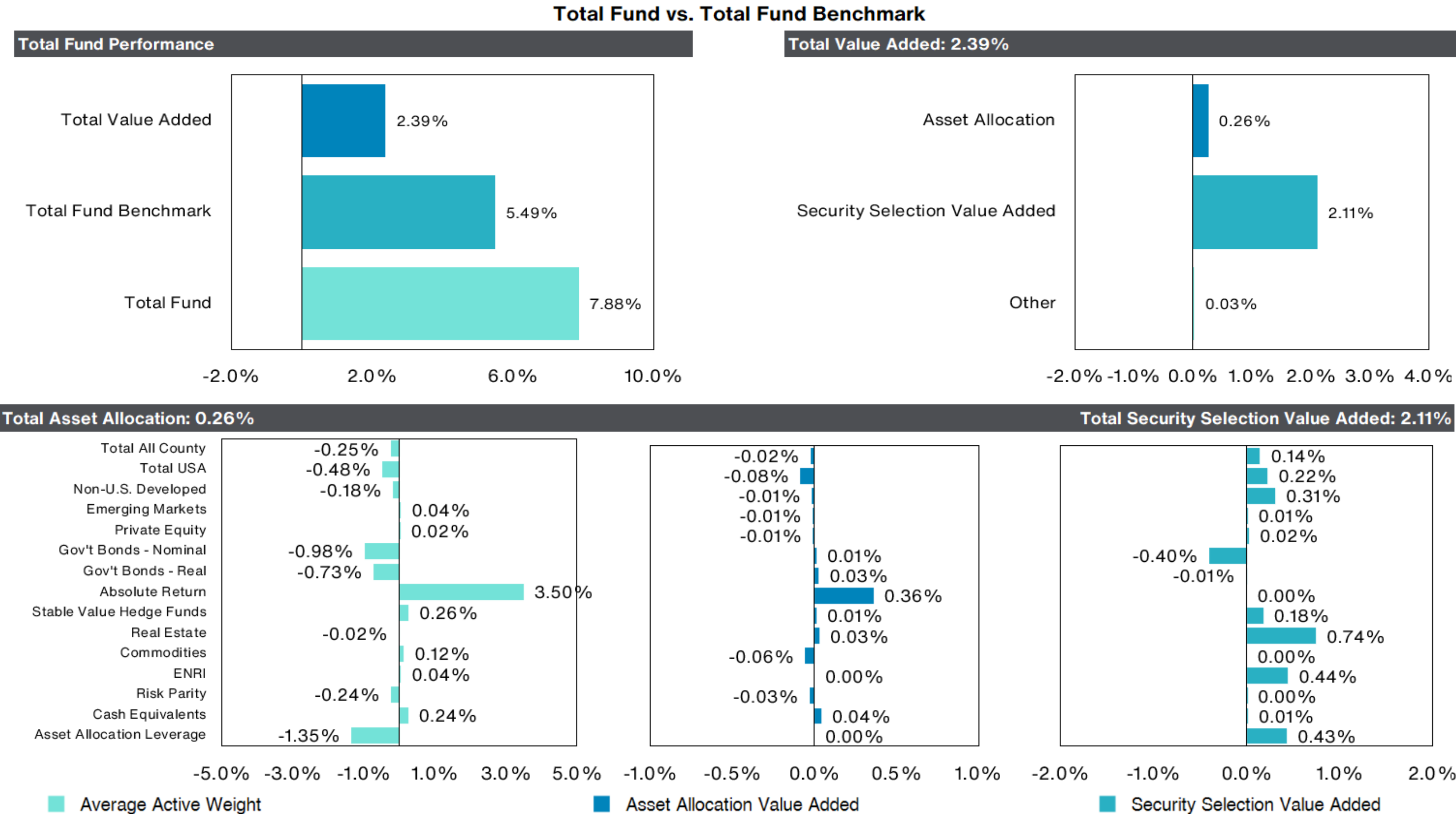


5. Total Fund Attribution – One Quarter Ending 12/31/2024



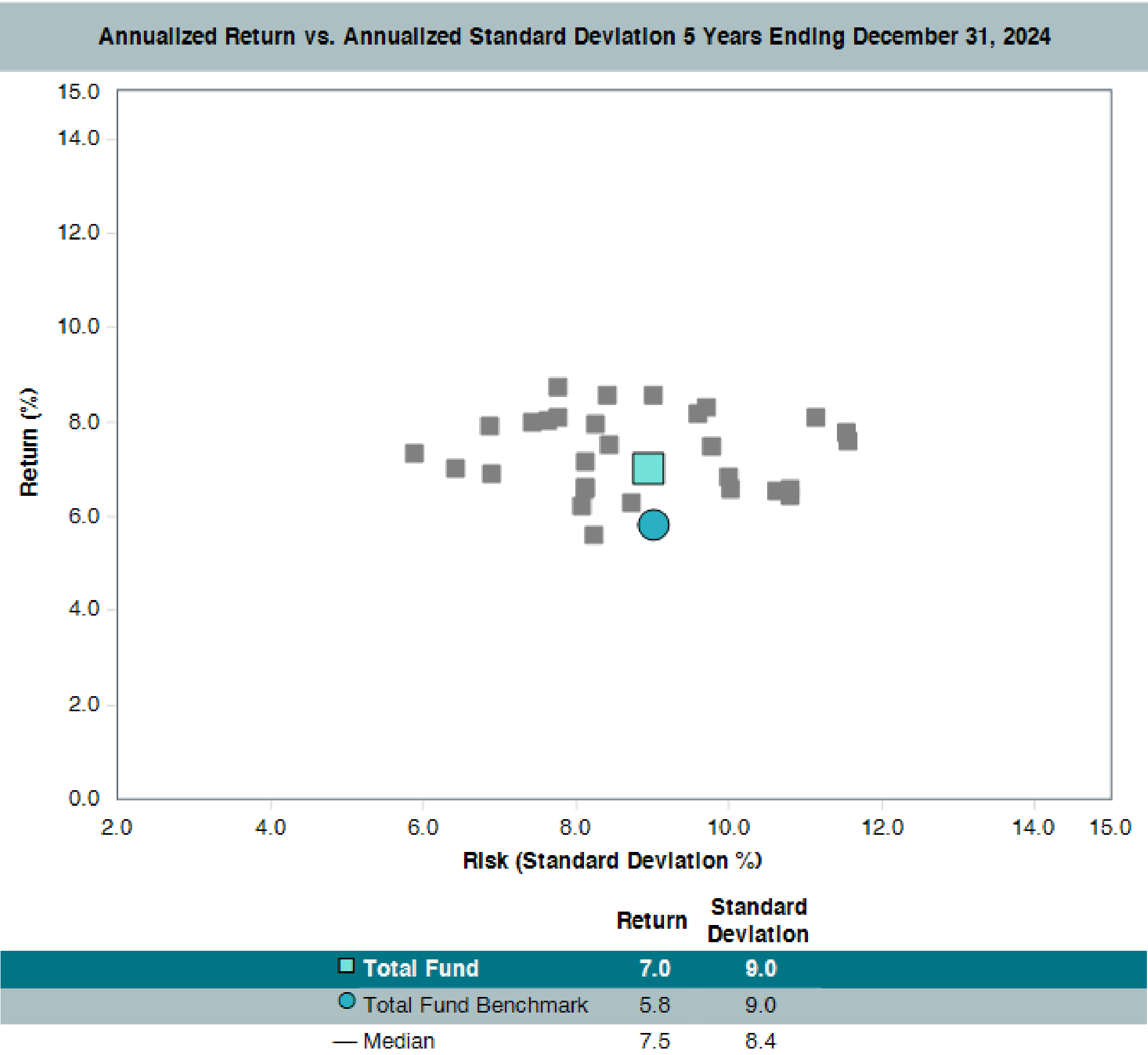
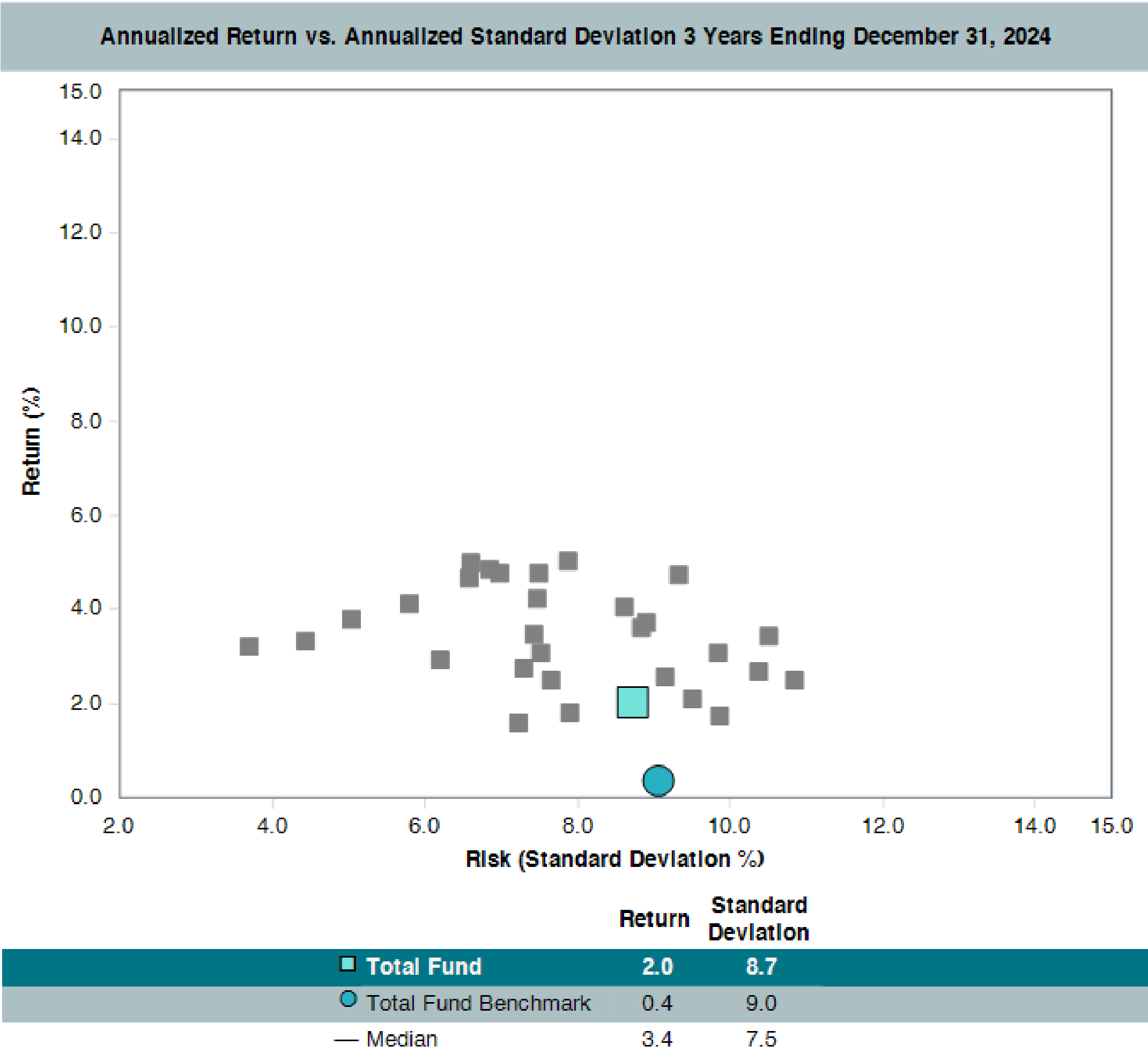
Note: Month-end market values for September, October, and November 2024 were adjusted to match the beginning market values reported by State Street on the first of the following month (October, November, and December, respectively). These adjustments were made to conform to the new asset allocation targets as outlined in the IPS that was approved in September 2024.

5. Total Fund Attribution – One Year Ending 12/31/2024



Note: Month-end market values for September, October, and November 2024 were adjusted to match the beginning market values reported by State Street on the first of the following month (October, November, and December, respectively). These adjustments were made to conform to the new asset allocation targets as outlined in the IPS that was approved in September 2024.

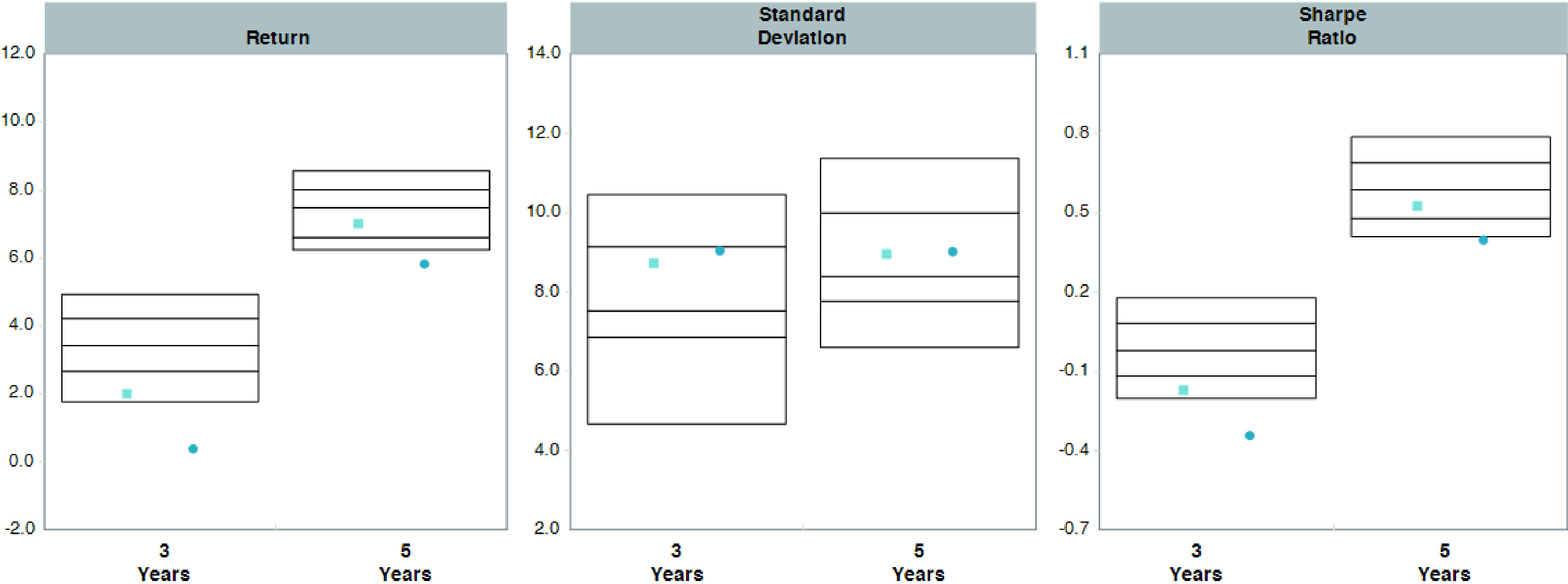
6. Risk Profile: Total Fund Risk-Return vs. Peers



Note: Public Plan peer group composed of 29 public funds, for 3- and 5-year periods, with total assets in excess of \$10B as of 12/31/2024. An exhibit outlining the asset allocation of the peer portfolios is provided in the appendix of this report.

6. Risk Profile: Trailing 3-Year and 5-Year Risk Metrics Peer Comparison

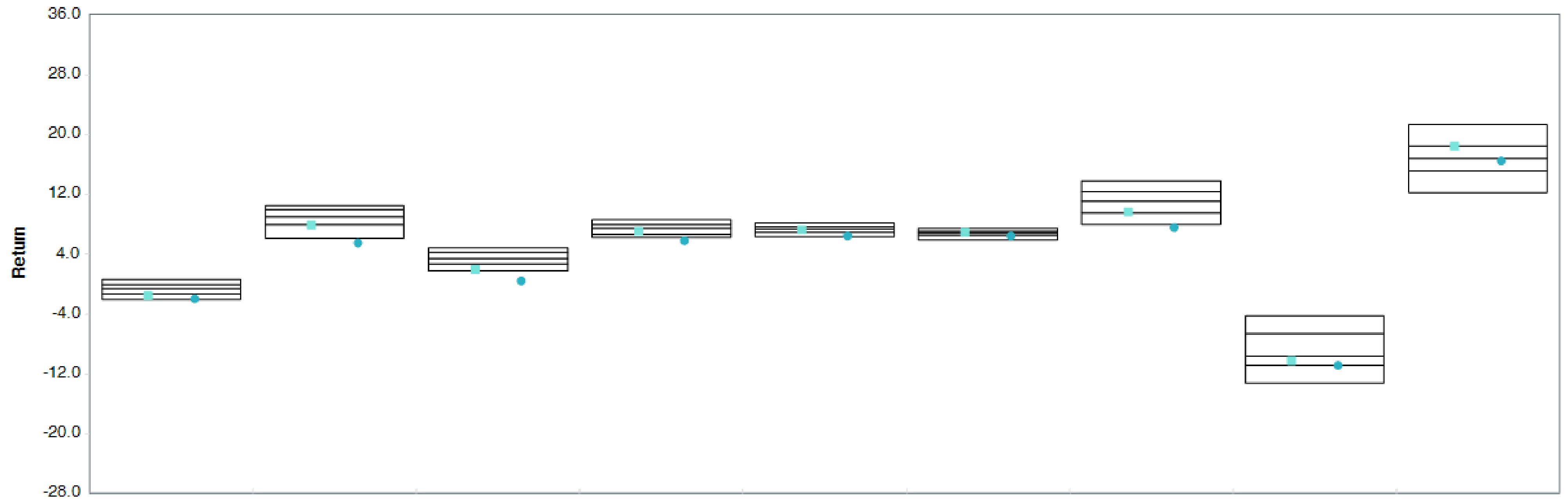
Total Fund vs. All Public Plans > \$10B



Total Fund	2.0 (91)	7.0 (61)	8.7 (34)	9.0 (40)	-0.2 (93)	0.5 (61)
Total Fund Benchmark	0.4 (100)	5.8 (99)	9.0 (27)	9.0 (40)	-0.3 (100)	0.4 (100)
5th Percentile	4.9	8.6	10.5	11.4	0.2	0.8
1st Quartile	4.2	8.0	9.1	10.0	0.1	0.7
Median	3.4	7.5	7.5	8.4	0.0	0.6
3rd Quartile	2.7	6.6	6.9	7.8	-0.1	0.5
95th Percentile	1.8	6.2	4.7	6.6	-0.2	0.4
Population	29	29	29	29	29	29

Parentheses contain percentile rankings.

6. TRS Performance vs. Peers (>\$10 Billion) as of 12/31/2024



	1 Quarter	1 Year	3 Years	5 Years	10 Years	20 Years	2023	2022	2021
■ Total Fund	-1.5 (88)	7.9 (80)	2.0 (91)	7.0 (61)	7.3 (56)	6.9 (39)	9.7 (74)	-10.3 (60)	18.5 (25)
● Total Fund Benchmark	-2.0 (95)	5.5 (100)	0.4 (100)	5.8 (99)	6.5 (92)	6.4 (85)	7.6 (98)	-10.9 (75)	16.5 (60)
5th Percentile	0.6	10.5	4.9	8.6	8.2	7.4	13.8	-4.2	21.4
1st Quartile	-0.1	10.0	4.2	8.0	7.7	7.1	12.4	-6.7	18.4
Median	-0.6	9.0	3.4	7.5	7.4	6.9	11.1	-9.6	16.8
3rd Quartile	-1.4	8.0	2.7	6.6	6.9	6.5	9.6	-10.9	15.2
95th Percentile	-2.0	6.1	1.8	6.2	6.3	6.0	8.0	-13.2	12.3
Population	30	30	29	29	27	25	62	63	75

Parentheses contain percentile rankings.

6. TRS Peer Ranking (>\$10 Billion) as of 12/31/2024



TRS' average 3-year peer ranking is in the 41st percentile

- TRS has ranked in the top half vs peers 61% of the time and in the top quartile 30% of the time

Since 2005, TRS has only ranked in the bottom quartile 4 times on a rolling 3-year basis

- All of which occurred in 2023-2024 as interest rates spiked post-COVID

7. IPS Stated Trust Return Objectives ending 12/31/2024

	Five Year	Seven Year	Ten Year	Twenty Year
Total Fund	7.0	6.8	7.3	6.9
Total Fund Benchmark	5.8	6.0	6.5	6.4
Difference	+1.2	+0.8	+0.8	+0.5
Total Fund	7.0	6.8	7.3	6.9
Assumed Rate of Return	7.1	7.2	7.5	7.7
Difference	-0.1	-0.4	-0.2	-0.8
Total Fund	7.0	6.8	7.3	6.9
CPI + 5%	9.4	8.8	8.1	7.7
Difference	-2.4	-2.0	-0.8	-0.8

Note: The excess returns shown in this presentation may differ from State Street statements due entirely to rounding. These differences are generally within a few basis points and are not material.

8. Global Equity: Performance Summary Ending 12/31/2024

	Fourth Quarter	One Year	Three Year	Five Year	Ten Year
Total Global Equity	-1.1	13.1	4.3	10.1	9.1
Total Global Equity Benchmark	-1.3	11.9	4.1	10.1	9.3
<i>Difference</i>	<i>+0.2</i>	<i>+1.2</i>	<i>+0.2</i>	<i>0.0</i>	<i>-0.2</i>
Total All Country	-0.6	--	--	--	--
TRS All Country Benchmark	-1.0	--	--	--	--
<i>Difference</i>	<i>+0.4</i>	<i>--</i>	<i>--</i>	<i>--</i>	<i>--</i>
Non-U.S. Developed	-7.2	7.2	2.6	5.8	5.7
TRS Non-U.S. Developed Benchmark	-7.6	4.4	1.7	5.0	5.2
<i>Difference</i>	<i>+0.4</i>	<i>+2.8</i>	<i>+0.9</i>	<i>+0.8</i>	<i>+0.5</i>
Emerging Markets	-7.6	5.8	-1.6	2.7	4.4
TRS Emerging Market Benchmark	-8.3	5.3	-2.0	1.6	3.6
<i>Difference</i>	<i>+0.7</i>	<i>+0.5</i>	<i>+0.4</i>	<i>+1.1</i>	<i>+0.8</i>

8. Global Equity: Performance Summary Ending 12/31/2024 (cont'd)

	Fourth Quarter	One Year	Three Year	Five Year	Ten Year
Total Public Equity	-1.9	16.0	5.1	9.0	8.1
Public Equity Benchmark	-2.3	14.2	4.2	8.6	8.2
<i>Difference</i>	<i>+0.4</i>	<i>+1.2</i>	<i>+0.9</i>	<i>+0.4</i>	<i>-0.1</i>
Total Private Equity	0.9	7.2	2.7	13.0	12.2
Private Equity Benchmark	1.2	7.1	4.0	13.7	12.3
<i>Difference</i>	<i>-0.3</i>	<i>+0.1</i>	<i>-1.3</i>	<i>-0.7</i>	<i>-0.1</i>

Note: The excess returns shown in this presentation may differ from State Street statements due entirely to rounding. These differences are generally within a few basis points and are not material.

9. Stable Value: Performance Summary Ending 12/31/2024

	Fourth Quarter	One Year	Three Year	Five Year	Ten Year
Total Stable Value	-4.0	-0.3	-5.6	-0.6	2.0
Total Stable Value Benchmark	-4.8	-1.9	-7.7	-2.3	0.7
<i>Difference</i>	<i>+0.8</i>	<i>+1.6</i>	<i>+2.1</i>	<i>+1.7</i>	<i>+1.3</i>
Government Bonds – Nominal	-9.3	-9.1	-14.0	-6.6	-1.3
Government Bonds Benchmark	-8.6	-6.4	-12.0	-5.2	-0.6
<i>Difference</i>	<i>-0.7</i>	<i>-2.7</i>	<i>-2.0</i>	<i>-1.4</i>	<i>-0.7</i>
Government Bonds – Real	-3.1	--	--	--	--
TIPS Benchmark	-2.9	--	--	--	--
<i>Difference</i>	<i>-0.2</i>				
Stable Value Hedge Funds	2.4	10.5	8.3	8.6	6.5
Hedge Funds Benchmark	1.8	7.0	4.1	5.3	3.8
<i>Difference</i>	<i>+0.6</i>	<i>+3.5</i>	<i>+4.2</i>	<i>+3.3</i>	<i>+2.7</i>
Absolute Return	2.8	16.1	9.9	9.5	7.7
Absolute Return Benchmark	2.2	9.7	8.4	6.0	4.7
<i>Difference</i>	<i>+0.6</i>	<i>+6.4</i>	<i>+1.5</i>	<i>+3.5</i>	<i>+3.0</i>



Note: The excess returns shown in this presentation may differ from State Street statements due entirely to rounding. These differences are generally within a few basis points and are not material.

Investment advice and consulting services provided by Aon Investments USA Inc.

10. Real Return: Performance Summary Ending 12/31/2024

	Fourth Quarter	One Year	Three Year	Five Year	Ten Year
Total Real Return	1.1	1.6	5.5	7.3	7.7
Real Return Benchmark	0.6	-3.5	2.2	4.0	5.0
<i>Difference</i>	<i>+0.5</i>	<i>+5.1</i>	<i>+3.3</i>	<i>+3.3</i>	<i>+2.7</i>
Real Estate	0.2	-3.3	2.2	6.1	8.6
Real Estate Benchmark	0.0	-8.0	-1.0	2.1	5.2
<i>Difference</i>	<i>+0.2</i>	<i>+4.7</i>	<i>+3.2</i>	<i>+4.0</i>	<i>+3.4</i>
Energy, Natural Resources, and Infrastructure	3.2	13.6	13.7	10.0	--
Energy and Natural Res. Benchmark	1.7	6.8	10.0	8.6	--
<i>Difference</i>	<i>+1.5</i>	<i>+6.8</i>	<i>+3.7</i>	<i>+1.4</i>	
Commodities	-10.2	-22.9	-5.2	2.1	-1.8
Commodities Benchmark	3.8	9.2	9.6	7.1	1.2
<i>Difference</i>	<i>-14.0</i>	<i>-32.1</i>	<i>-14.8</i>	<i>-5.0</i>	<i>-3.0</i>

Note: The excess returns shown in this presentation may differ from State Street statements due entirely to rounding. These differences are generally within a few basis points and are not material.

11. Risk Parity: Performance Summary Ending 12/30/2024

	Fourth Quarter	One Year	Three Year	Five Year	Ten Year
Total Risk Parity	-5.6	5.2	-3.2	0.8	3.9
Risk Parity Benchmark	-5.5	5.2	-5.0	0.8	3.5
<i>Difference</i>	<i>-0.1</i>	<i>0.0</i>	<i>+1.8</i>	<i>0.0</i>	<i>+0.4</i>

Note: The excess returns shown in this presentation may differ from State Street statements due entirely to rounding. These differences are generally within a few basis points and are not material.

12. Cash Equivalents: Performance Summary Ending 12/31/2024

	Fourth Quarter	One Year	Three Year	Five Year	Ten Year
Cash Equivalents	1.2	6.0	5.1	3.3	2.6
Cash Benchmark	1.2	5.4	4.1	2.5	1.8
<i>Difference</i>	<i>0.0</i>	<i>+0.6</i>	<i>+1.0</i>	<i>+0.8</i>	<i>+0.8</i>

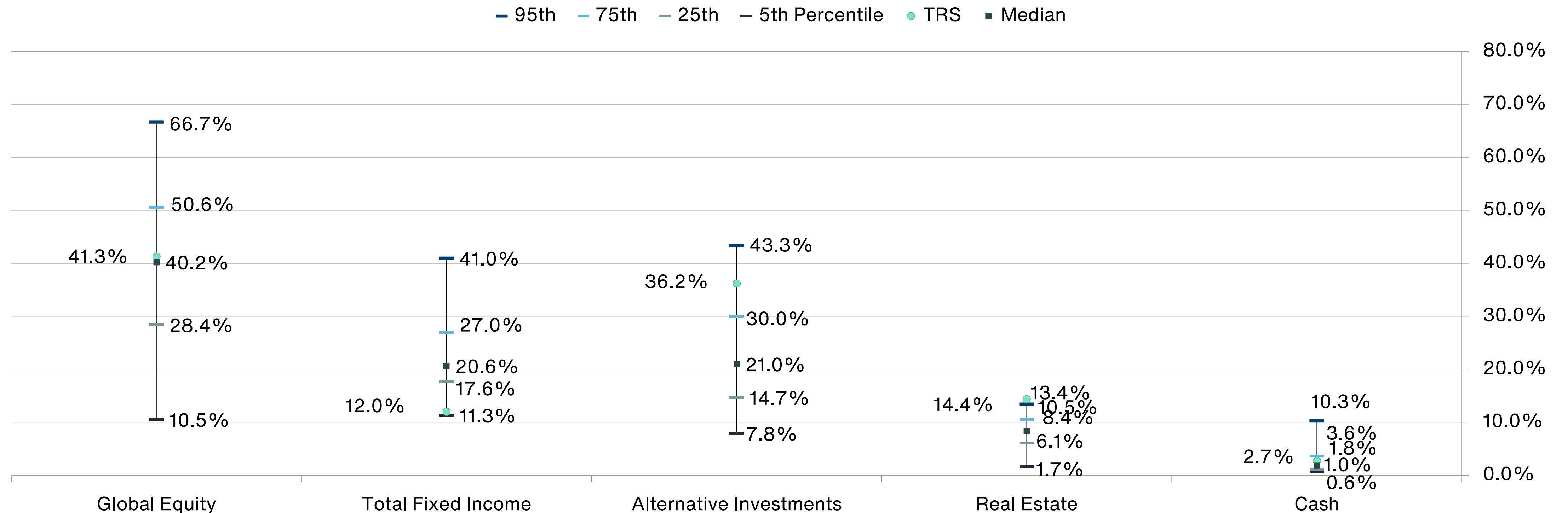
Note: The excess returns shown in this presentation may differ from State Street statements due entirely to rounding. These differences are generally within a few basis points and are not material.

Appendix – Supplemental Reporting



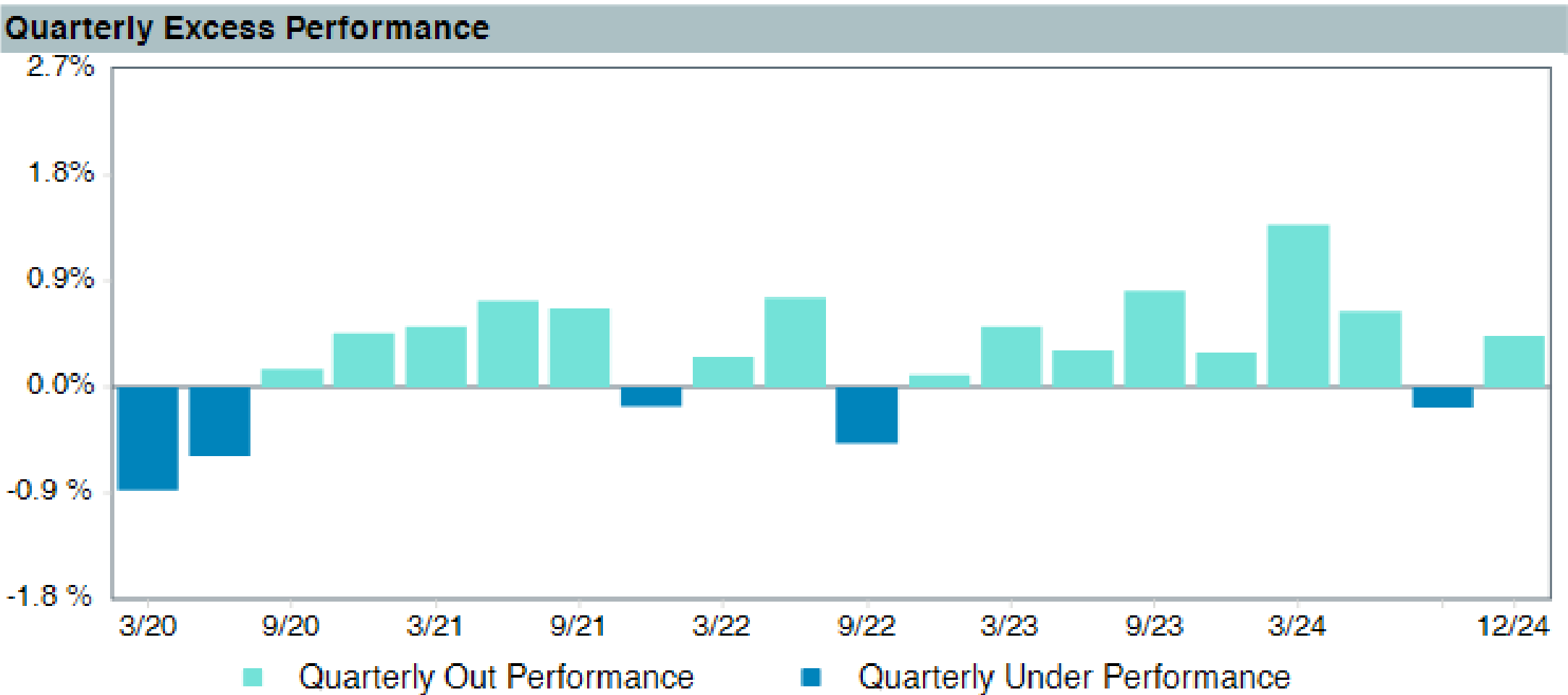
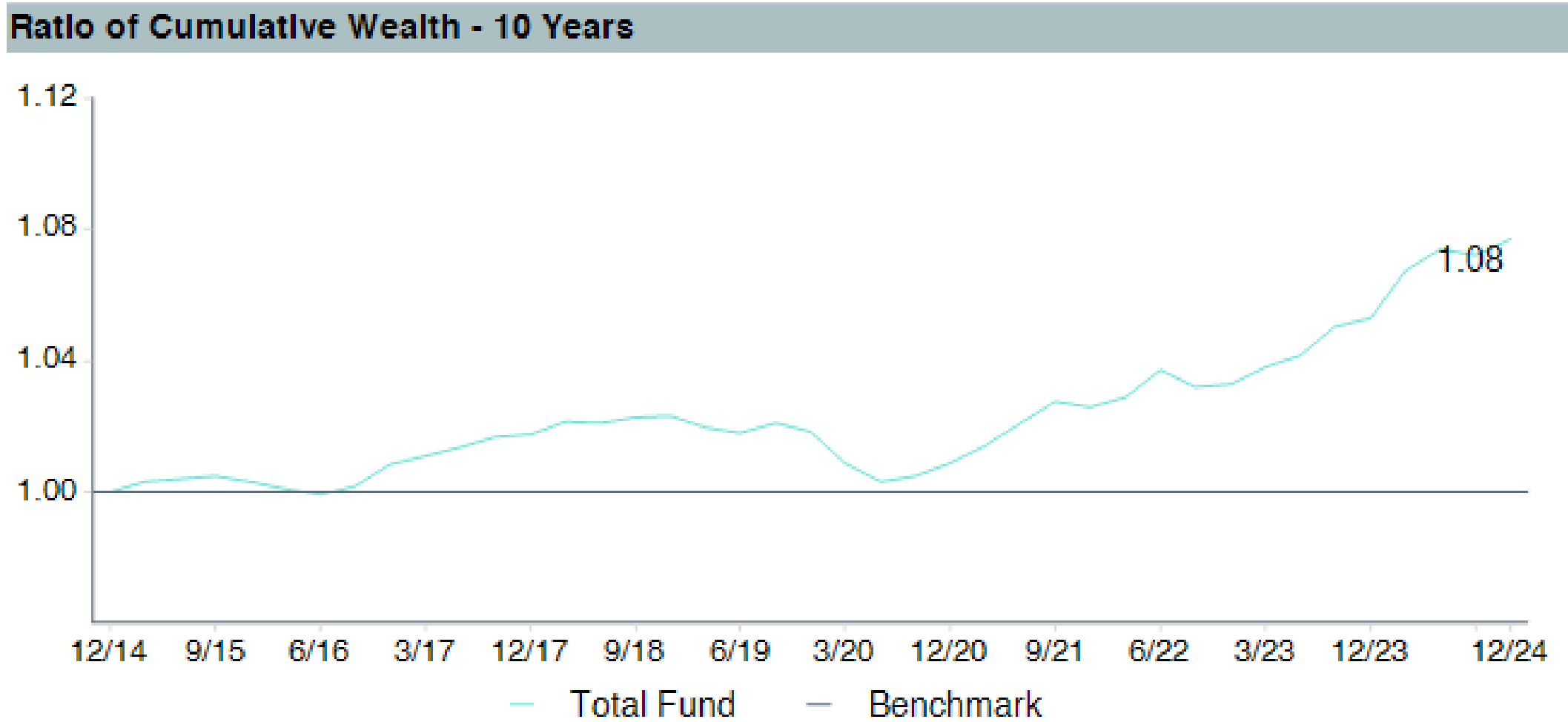
TRS Commitment Levels vs. Peers (>\$10 Billion) as of 12/31/2024

- The chart below depicts the asset allocation of peer public funds with assets greater than \$10 billion.
 - The ends of each line represent the 95th and 5th percentile of exposures, the middle light blue and grey lines represent the 75th and 25th percentile of exposures, the purple square represents the median, and the green dot represents TRS exposure.

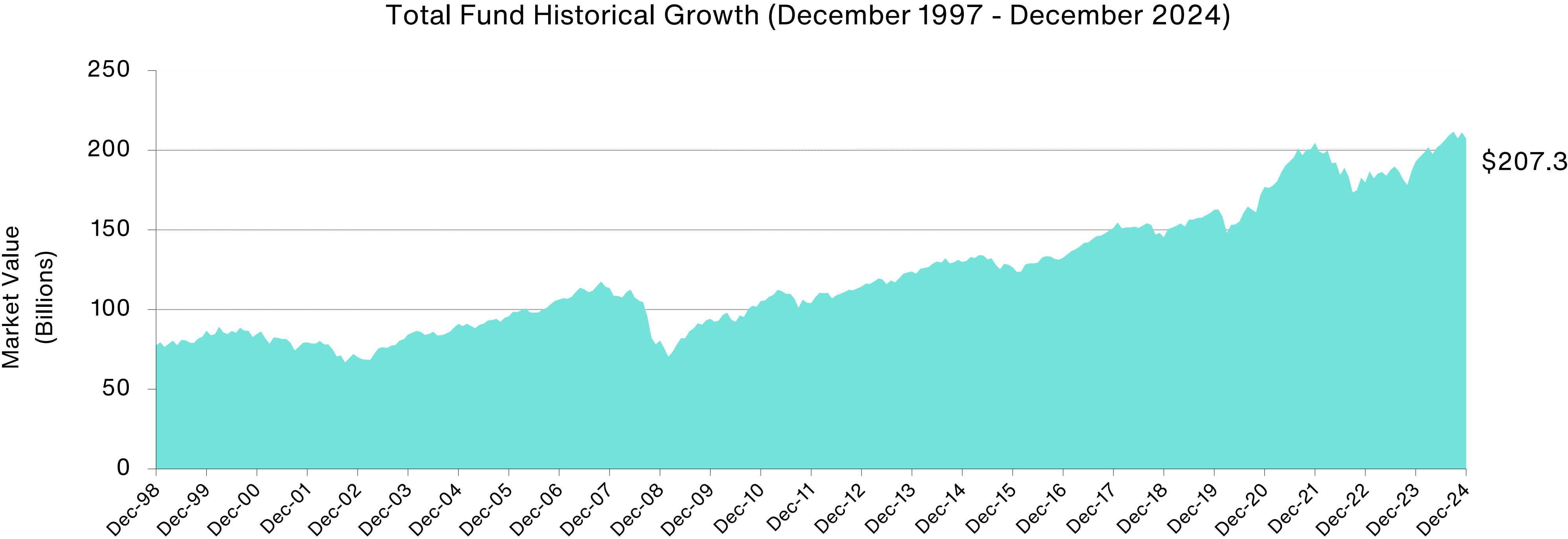


Historical Excess Performance Ending 12/31/2024

Total Fund vs. Total Fund Benchmark



TRS Asset Growth



External Manager Program: Public Equity Performance as of 12/31/2024

	Allocation (\$ in billions)	Fourth Quarter	One Year	Three Year	Five Year
EP Total Global Equity	\$38.3	0.3	18.9	6.4	11.0
EP Global Equity Benchmark	--	-1.1	15.9	4.7	9.2
<i>Difference</i>	--	+1.4	+3.0	+1.7	+1.8
EP All Country	\$26.7	1.4	24.2	9.9	14.1
EP All Country Benchmark	--	-1.0	16.9	5.4	10.3
<i>Difference</i>	--	+2.4	+7.3	+4.5	+3.8
EP U.S.A.	\$8.8	1.9	21.1	8.0	14.2
EP U.S.A. Benchmark	--	2.6	23.8	8.0	14.0
<i>Difference</i>	--	-0.7	-2.7	0.0	+0.2
EP Non-U.S. Developed	\$2.8	-8.5	8.1	3.3	7.3
MSCI EAFE + Canada Policy Index	--	-7.6	4.4	1.7	5.0
<i>Difference</i>	--	-0.9	+3.7	+1.6	+2.4
EP Emerging Markets	\$0.4	-29.0	-19.0	-9.8	-1.5
MSCI Emerging Markets Policy Index	--	-8.3	5.3	-2.0	1.6
<i>Difference</i>	--	-20.7	-24.3	-7.8	-3.1



Note: The excess returns shown in this presentation may differ from State Street statements due entirely to rounding. These differences are generally within a few basis points and are not material.

Investment advice and consulting services provided by Aon Investments USA Inc.

External Manager Program: Stable Value/Total Program Performance as of 12/31/2024

	Allocation (\$ in billions)	Fourth Quarter	One Year	Three Year
EP Total Stable Value	\$11.1	2.4	10.5	8.3
EP Stable Value Benchmark	--	1.8	7.0	4.1
<i>Difference</i>	--	+0.6	+3.5	+4.2
Total External Public Program	\$55.3	0.4	15.9	6.0
EP External Public Benchmark	--	-0.7	13.4	4.1
<i>Difference</i>	--	+1.1	+2.5	+1.9

Note: The excess returns shown in this presentation may differ from State Street statements due entirely to rounding. These differences are generally within a few basis points and are not material.

Public Strategic Partnership Program (SPN): Performance as of 12/31/2024

	Allocation (\$ in billions)	Fourth Quarter	One Year	Three Year
Public Strategic Partnership	\$5.9	-2.7	9.1	0.0
Public SPN Benchmark	--	-2.2	10.0	0.1
<i>Difference</i>	--	-0.5	-0.9	-0.1
BlackRock	\$3.0	-2.3	11.7	1.7
JP Morgan	\$2.9	-3.0	8.2	-0.8

Note: The excess returns shown in this presentation may differ from State Street statements due entirely to rounding. These differences are generally within a few basis points and are not material.

Benchmarks

Total Fund Performance Benchmark – 37.0% MSCI ACWI IMI ex CN ex HK, 4.7% MSCI EAFE plus Canada IMI ex HK, 1.0% MSCI Emerging Markets Index, 15.8% Customized State Street Private Equity Index (1 quarter lagged), 9.5% Blmbg. Long Term Treasury Index, 5.7% U.S. TIPS Daily, 4.7% SOFR + 2.5%, 2.0% Citigroup 3 Mo. T-Bill Index, 14.1% NCREIF ODCE Index (1 quarter lagged), 6.8% Energy and Natural Resources Benchmark, 4.7% Risk Parity Benchmark, and -6.0% Asset Allocation Leverage Benchmark.

Global Equity Benchmark – 63.2% MSCI ACWI IMI ex CN ex HK, 8.0% MSCI EAFE plus Canada IMI ex HK, 1.7% MSCI Emerging Markets Index, and 27.0% State Street Private Equity Index (1 quarter lagged)

- TRS All Country Benchmark – MSCI ACWI IMI ex CN ex HK
- Emerging Markets Equity Benchmark – MSCI Emerging Markets Index
- Non-US Developed Equity Benchmark– MSCI EAFE + Canada IMI ex HK
- Private Equity Benchmark – Customized State Street Private Equity Index (1 quarter lagged)*

**Effective September 2024, the SSPEI Index is modified to match the vintage year exposures of the PE portfolio and remove funds \$1 billion or less in size*

Benchmarks (cont'd)

Stable Value Benchmark – 47.7% Blmbg. Long Term Treasury Index, 28.6%, U.S. TIPS Daily, and 23.6% SOFR + 2.5%

- Government Bonds Nominal – Bloomberg Long Term Treasury Index
- Government Bonds Real – TIPS Benchmark
- Stable Value Hedge Funds – SOFR + 2.5%
- Absolute Return Benchmark - SOFR + 4%

Real Return Benchmark – 68.0% NCREIF ODCE Index and 32.0% Energy & Natural Resources Benchmark

- Real Estate Benchmark – NCREIF ODCE Index (1 quarter lagged)
- Energy and Natural Resources Benchmark – 75% Cambridge Associates Natural Resources Index (reweighted) and 25% quarterly Seasonally-Adjusted Consumer Price Index (1 quarter lagged)
- Commodities Benchmark – Goldman Sachs Commodity Index

Risk Parity Benchmark – 100% HFR Risk Parity Vol 12 Institutional Index

Asset Allocation Leverage Benchmark – SOFR + Fallback Rate

Description of Performance Attribution

- A measure of the source of the deviation of a fund's performance from that of its policy benchmark. Each bar on the attribution graph represents the contribution made by the asset class to the total difference in performance. A positive value for a component indicates a positive contribution to the aggregate relative performance. A negative value indicates a detrimental impact. The magnitude of each component's contribution is a function of (1) the performance of the component relative to its benchmark, and (2) the weight (beginning of period) of the component in the aggregate.
- The individual Asset Class effect, also called **Selection Effect**, is calculated as
$$\text{Actual Weight of Asset Class} \times (\text{Actual Asset Class Return} - \text{Asset Class Benchmark Return})$$
- The bar labeled **Allocation Effect** illustrates the effect that a Total Fund's asset allocation has on its relative performance. Allocation Effect calculation = $(\text{Asset Class Benchmark Return} - \text{Total Benchmark Return}) \times (\text{Actual Weight of Asset Class} - \text{Target Policy Weight of Asset Class})$.
- The bar labeled **Other** is a combination of Cash Flow Effect and Benchmark Effect:
 - **Cash Flow Effect** describes the impact of asset movements on the Total Fund results. Cash Flow Effect calculation = $(\text{Total Fund Actual Return} - \text{Total Fund Policy Return}) - \text{Current Selection Effect} - \text{Current Allocation Effect}$
 - **Benchmark Effect** results from the weighted average return of the asset classes' benchmarks being different from the Total Funds' policy benchmark return. Benchmark Effect calculation = $\text{Total Fund Policy Return} - (\text{Asset Class Benchmark Return} \times \text{Target Policy Weight of Asset Class})$
- **Cumulative Effect**
Cumulative Effect calculation = $\text{Current Effect } t \times (1 + \text{Cumulative Total Fund Actual Return } t-1) + \text{Cumulative Effect } t-1 \times (1 + \text{Total Fund Benchmark Return } t)$

Disclaimers and Notes



Disclaimers and Notes

Disclaimers:

- Please review this report and notify Aon Investments USA Inc. (Aon) with any issues or questions you may have with respect to investment performance or any other matter set forth herein.
- The client portfolio data presented in this report have been obtained from the custodian. Aon has compared this information to the investment managers' reported returns and believes the information to be accurate. Aon has not conducted additional audits and cannot warrant its accuracy or completeness. This document is not intended to provide, and shall not be relied upon for, accounting and legal or tax advice.
- Refer to Hedge Fund Research, Inc. www.hedgefundresearch.com for more information on HFR indices

Notes:

- The rates of return contained in this report are shown on an after-fees basis unless otherwise noted. They are geometric and time weighted. Returns for periods longer than one year are annualized.
- Universe percentiles are based upon an ordering system in which 1 is the best ranking and 100 is the worst ranking.
- Due to rounding throughout the report, percentage totals displayed may not sum up to 100.0%. Additionally, individual fund totals in dollar terms may not sum up to the plan totals.

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200 E. Randolph Street
Suite 700
Chicago, IL 60601
ATTN: Aon Investments Compliance Officer

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Investment Risk Report

James Nield, Chief Risk Officer

Stephen Kim, Director

April 2025



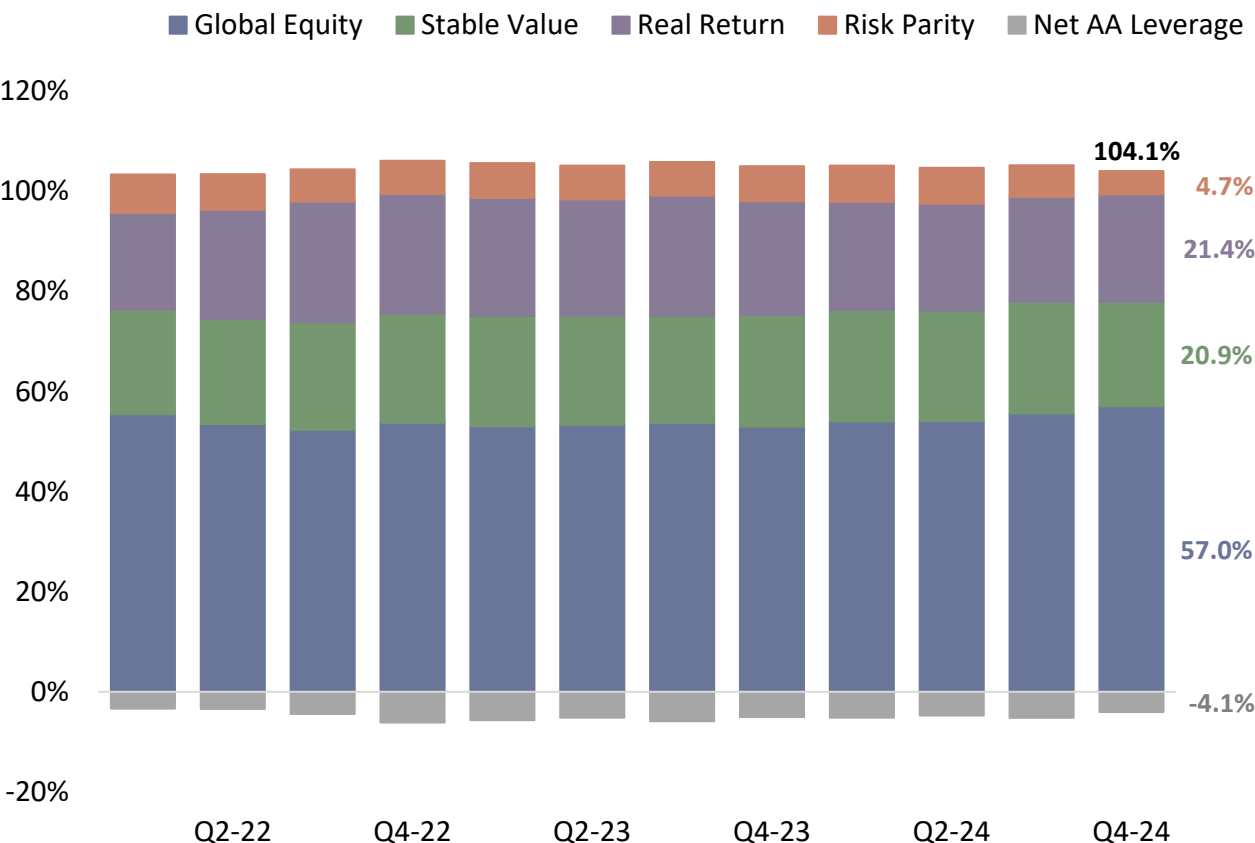
All Metrics in Compliance

<u>Risk Metric</u>	<u>Value</u>	<u>In Compliance?</u>	<u>Page(s)</u>
1. Asset Allocation (AA): Overweight Stable Value	Overweight 1.0%	✓	3 - 5
2. Drawdown Risk: VaR estimate decreased	6.3% VaR	✓	6 - 8
3. Tracking Error (TE): Public TE range bound	156 bp Realized	✓	9
4. Liquidity: Remained strong	5.7x Coverage Ratio	✓	10
5. Leverage: Trust gross leverage increased slightly	30.4% Gross	✓	11 - 12
6. Derivatives: Net notional exposure stable	12.7% Net Notional	✓	12
7. Counterparty Risk: Within Policy limits	Lowest Rating: A-	✓	13
8. Securities Lending: Earnings stable	17.8% Utilization	✓	14

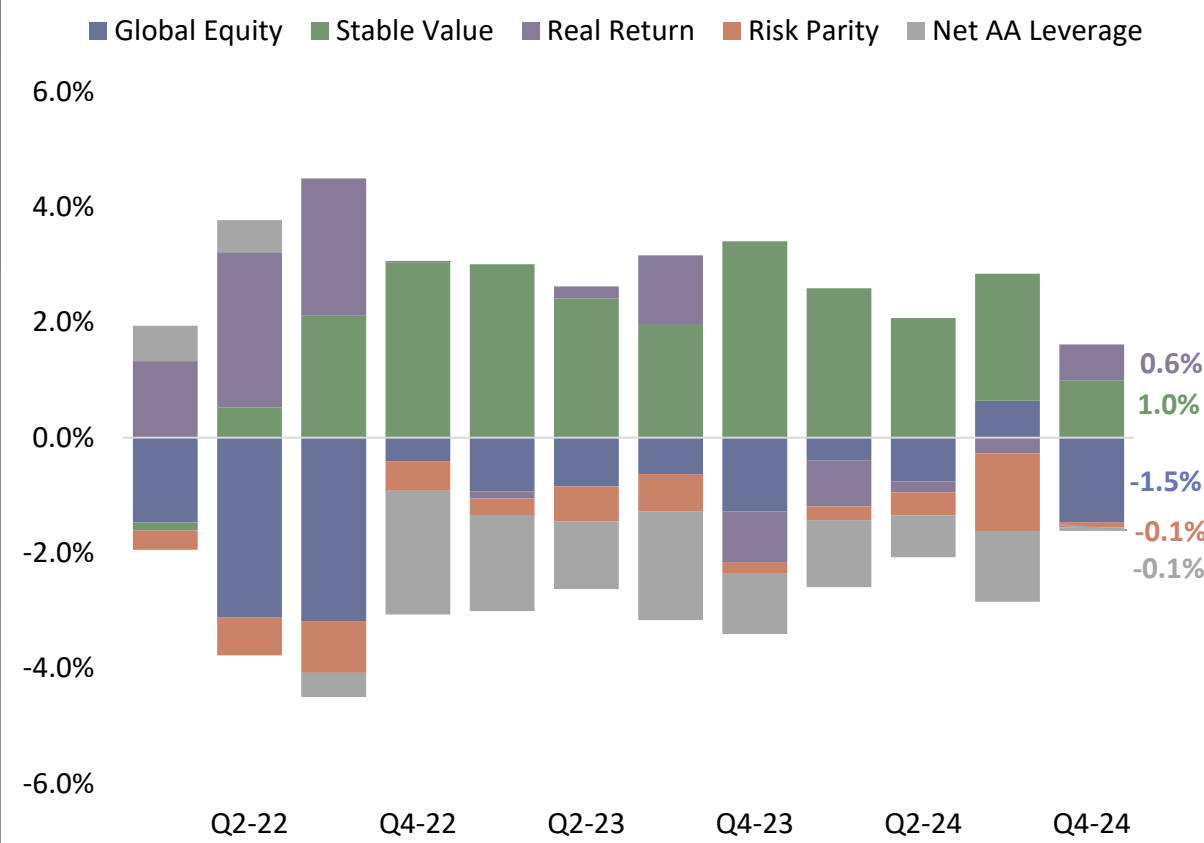
Unless otherwise noted, data presented as of December 31, 2024

Trust Investment Exposure on Target following SAA Transition

Asset Class Weights Trend

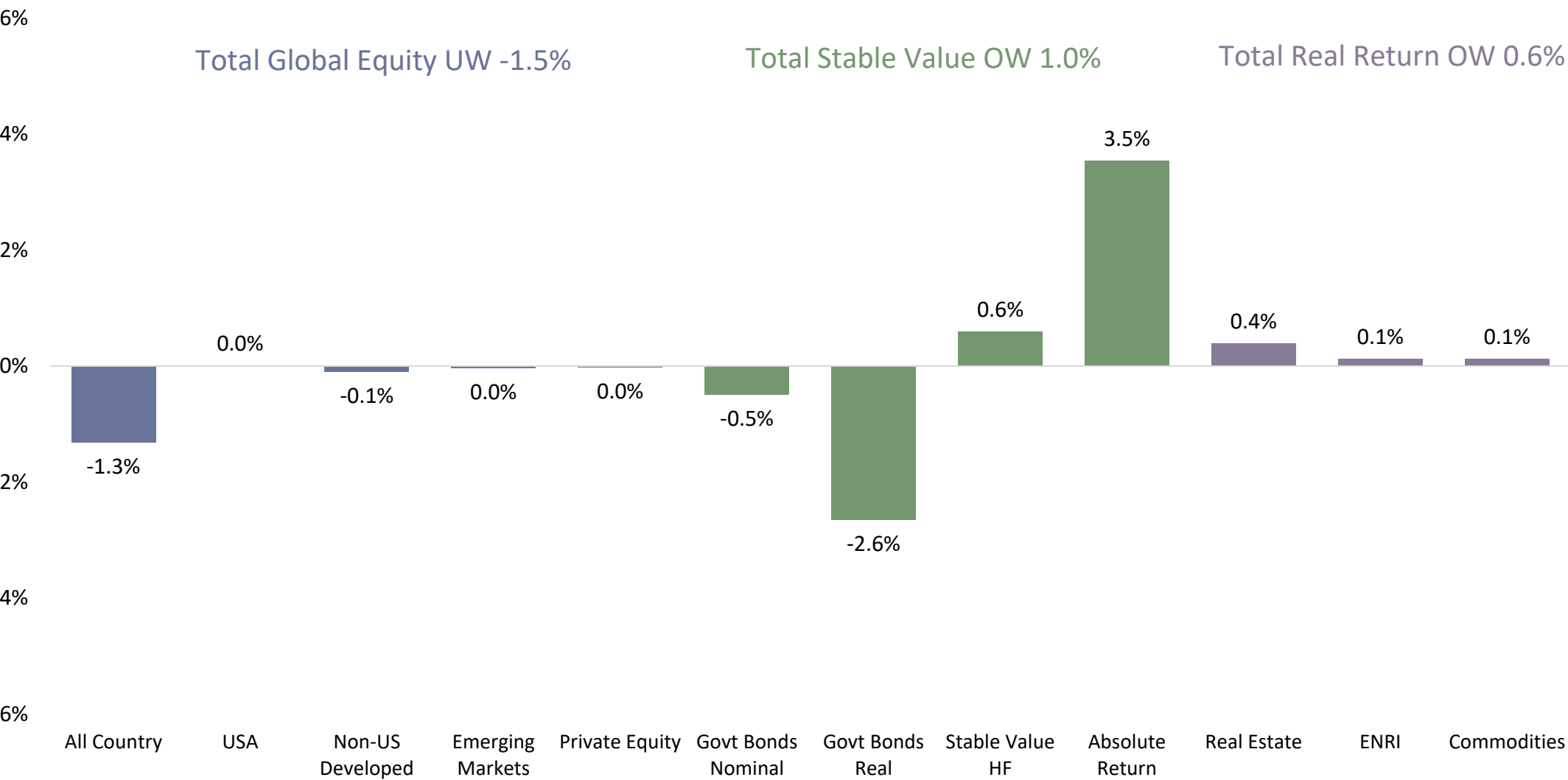


Asset Class Relative Weights

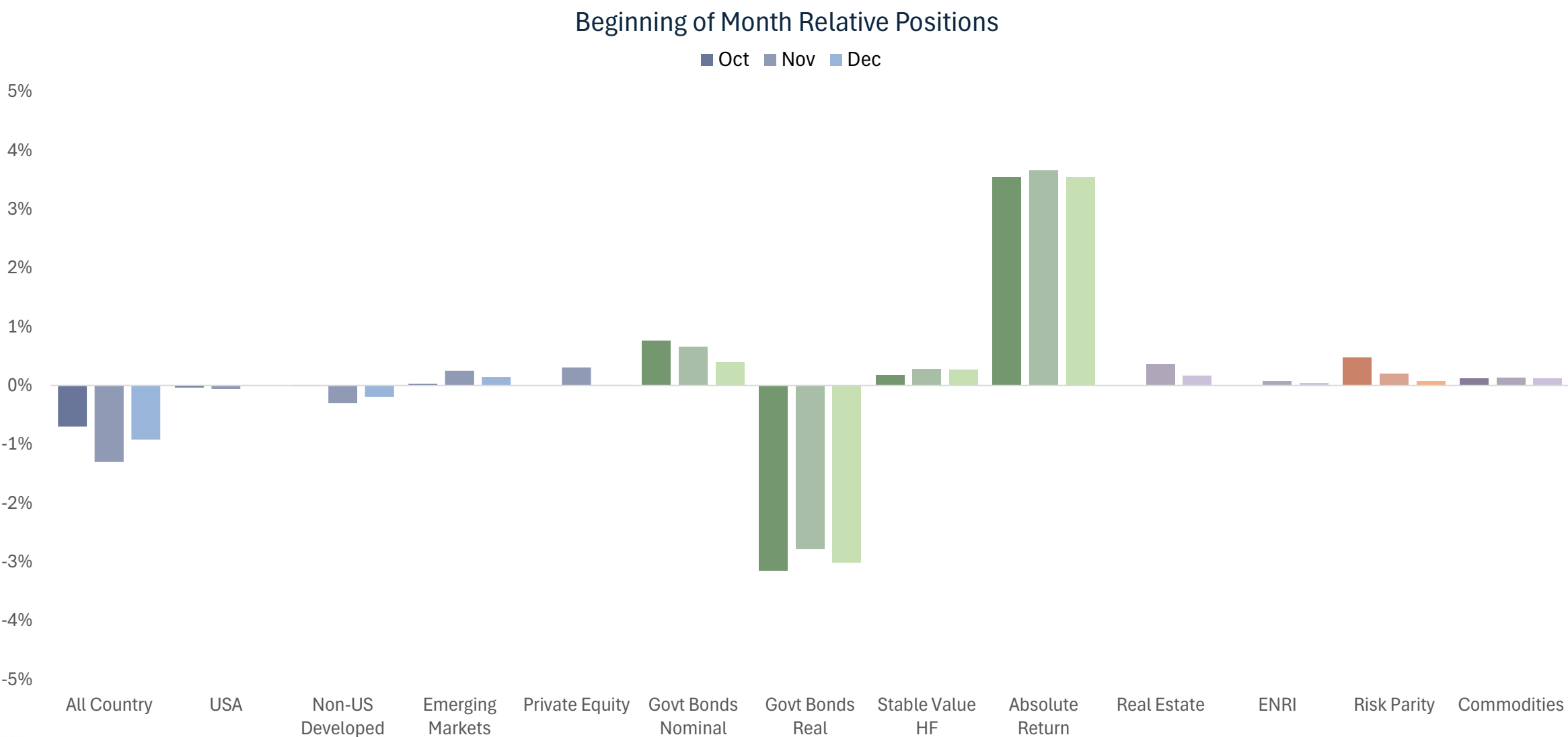


Source: State Street Bank; note: Net AA leverage is -4.1%, which indicates the Trust is levered by 4.1%. Relative positions shown in comparison to quarter-end Trust benchmark weights as defined in policy.

Stable Value Overweight Offset by Global Equity Underweight



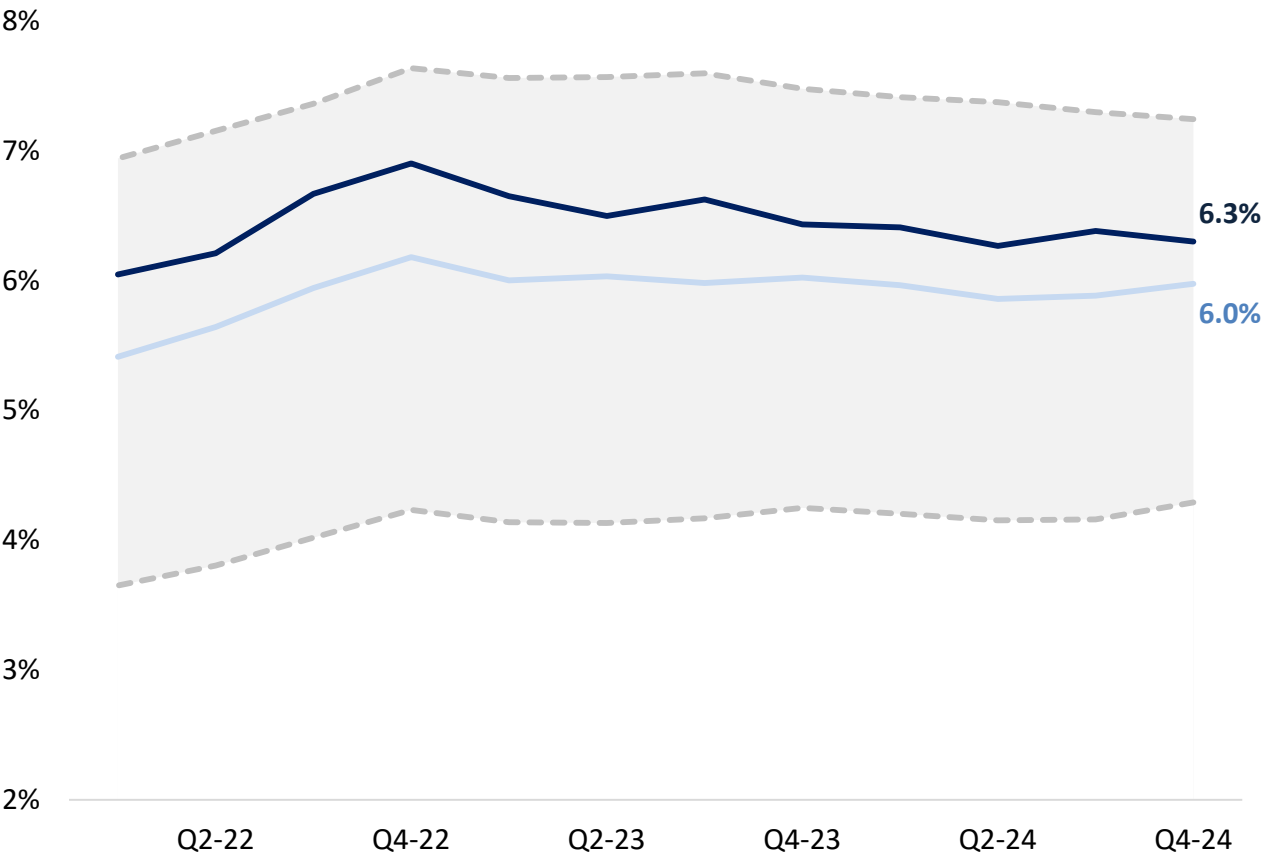
Relative Positions Steady Throughout the SAA Transition



Global Equity VaR Contribution Larger due to SAA changes

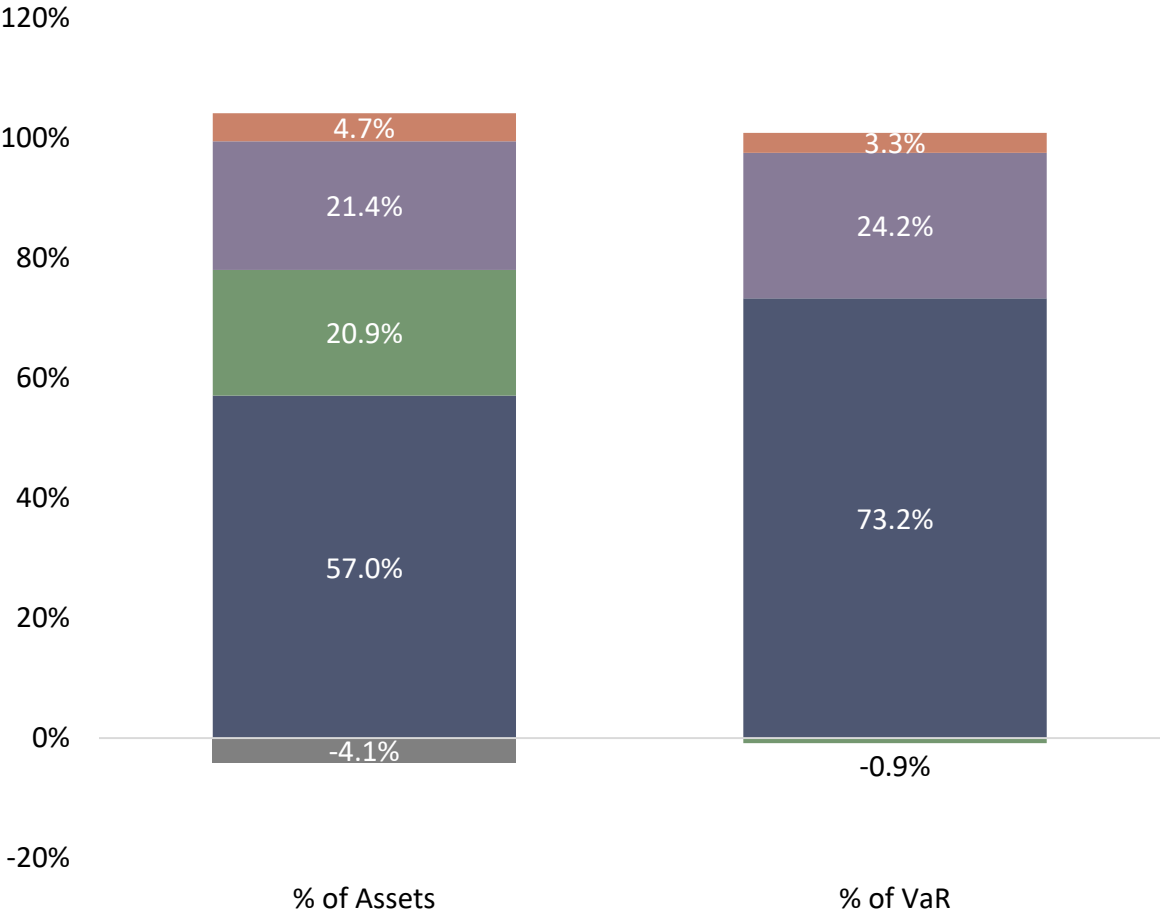
VaR History

Policy Max / Min Total Fund Benchmark



VaR Contribution

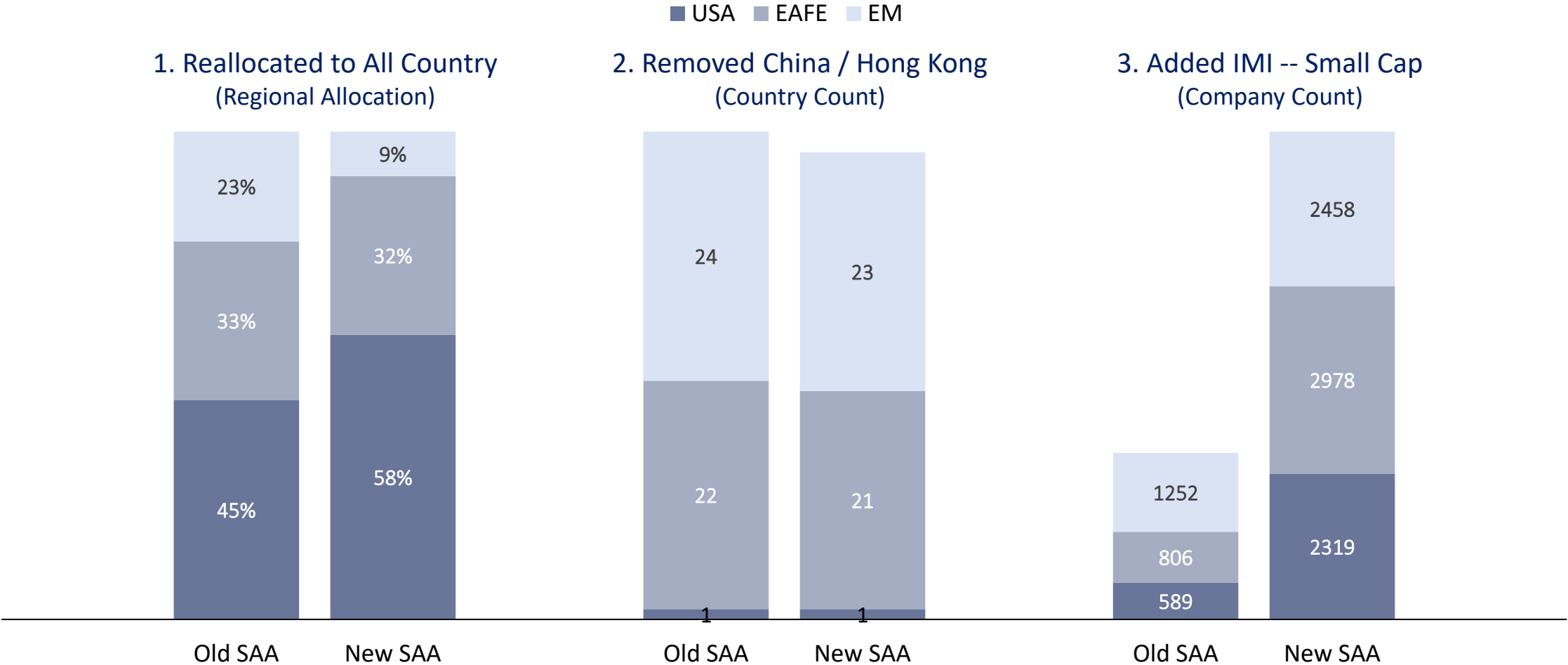
Global Equity Stable Value Real Return Risk Parity Net AA Leverage



Source: State Street Bank. VaR Contribution from derivatives was 0.7%

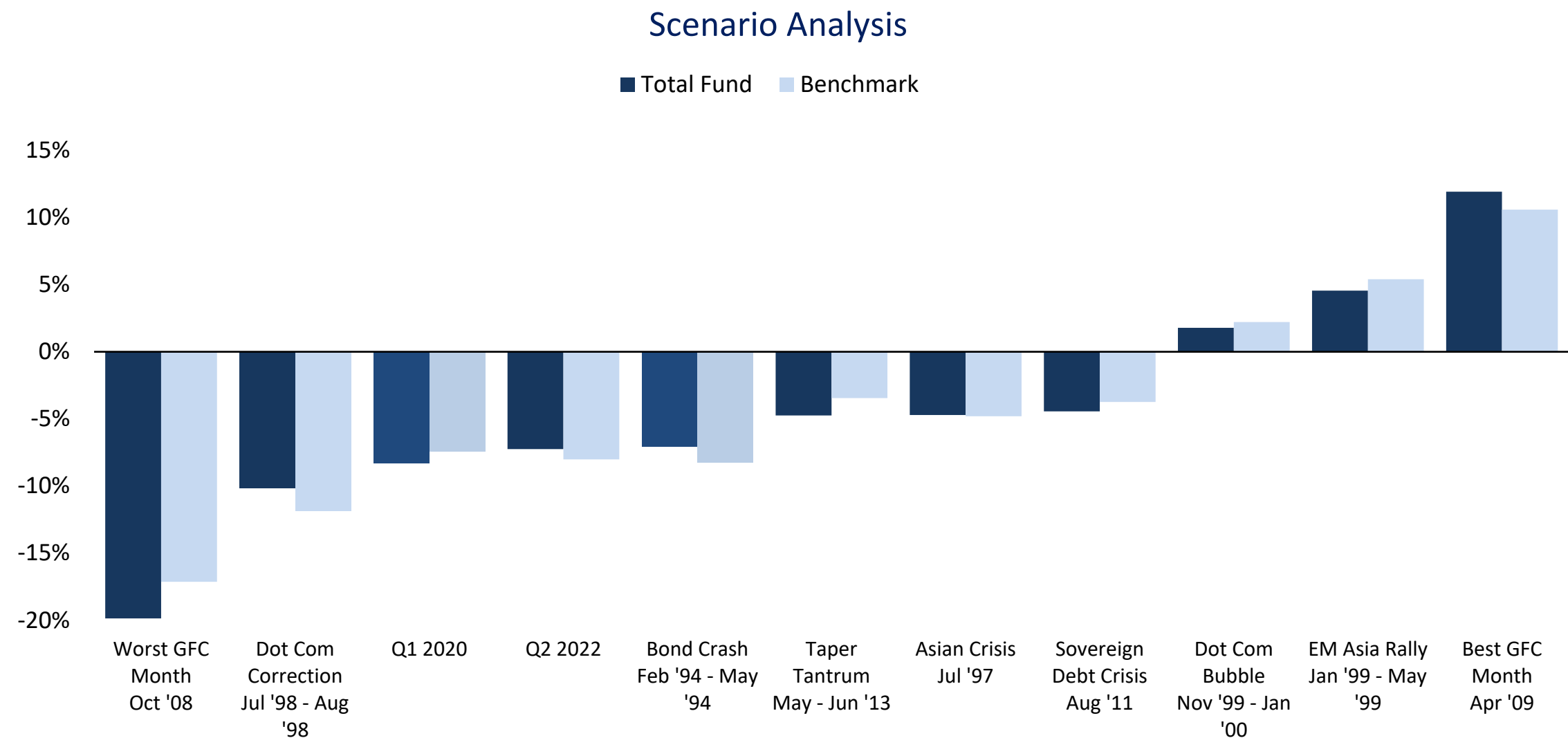
Public Equity Benchmark more US-centric and diversified across names

Policy Global Public Equity Composition



Source: FactSet /MSCI; note: weights for both benchmarks are as of December 31st, 2024

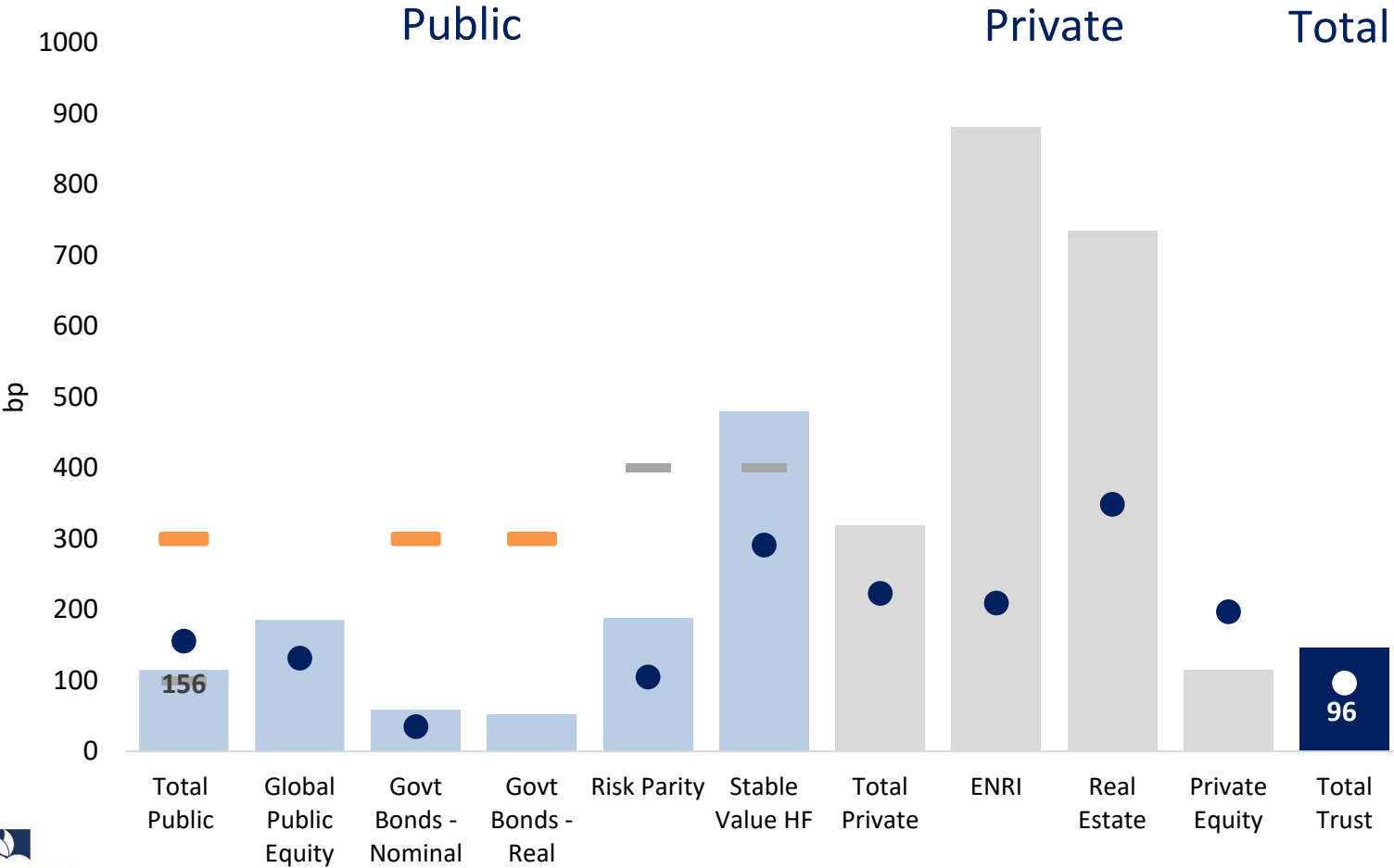
Predicted Trust Drawdowns in Line with Benchmark



Realized Tracking Error Near Historical Norms

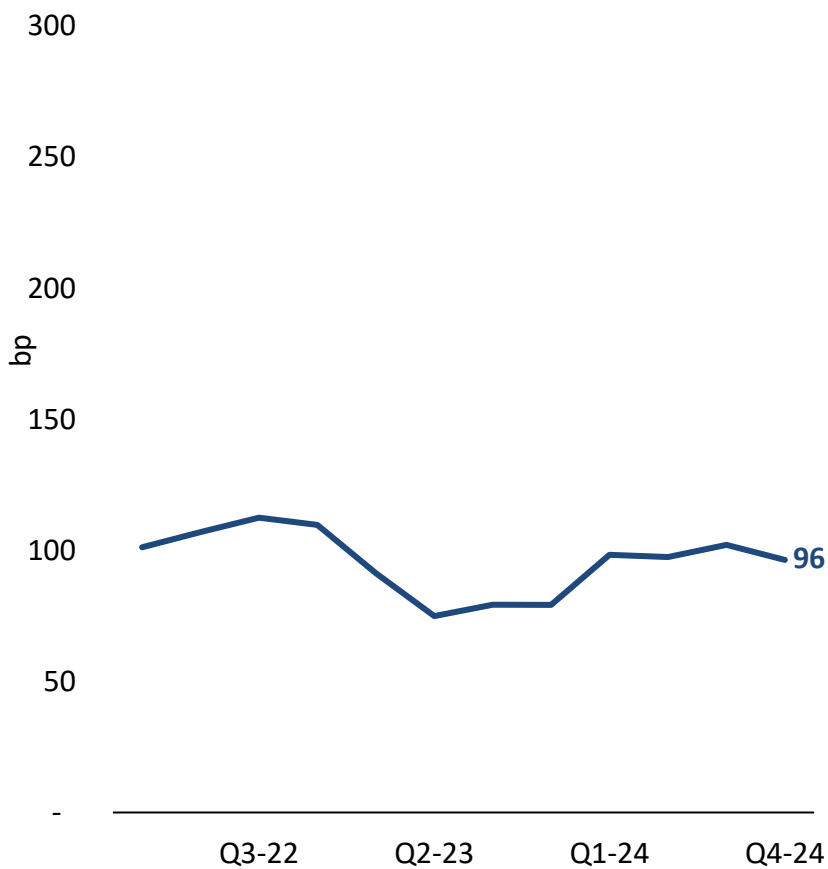
Asset Class Tracking Error

Current Forecast TE 3-Year Realized TE Policy Maximum Policy Neutral



Historical Trust TE

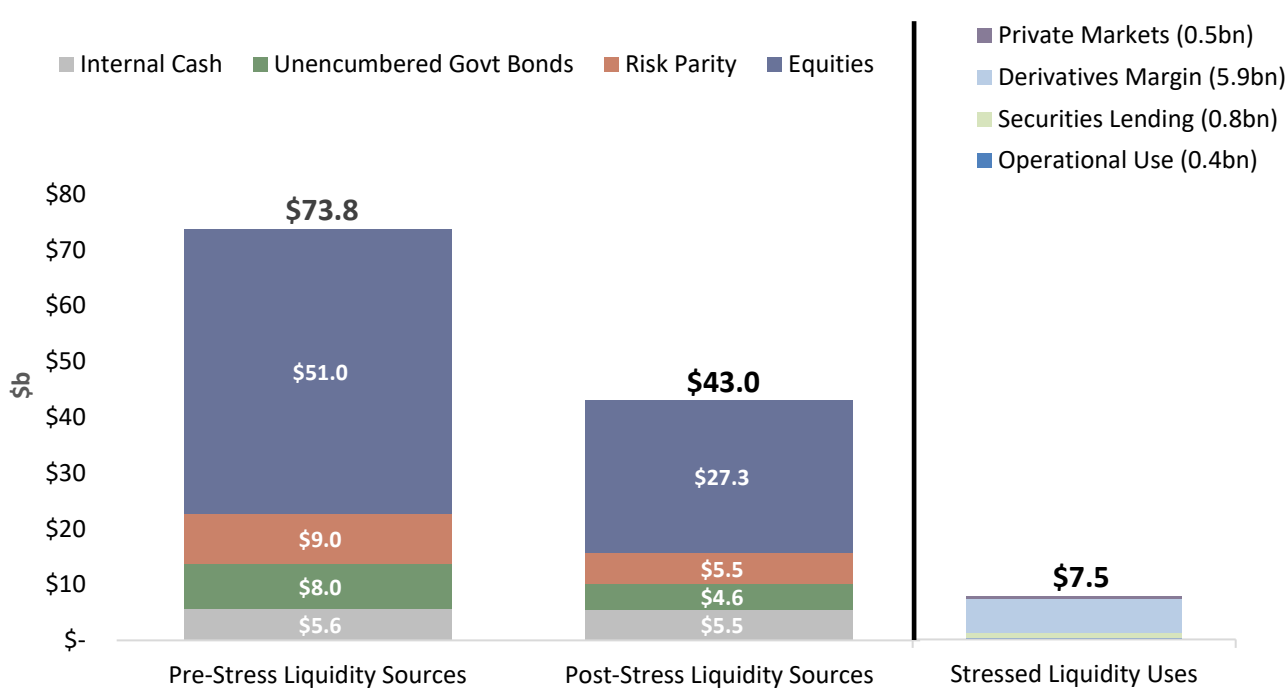
3-Year Realized Total Trust TE



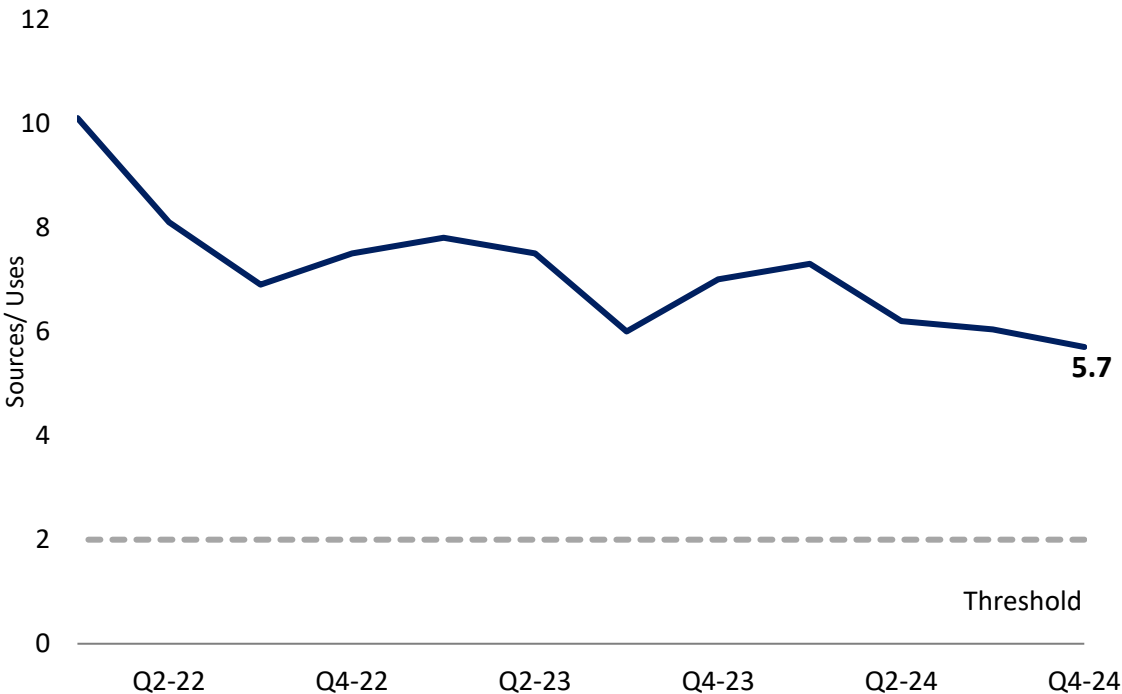
Source: State Street Bank; note: current forecast tracking error uses past experiences from January 1, 2008 to December 31, 2024 and therefore includes the effects of the Global Financial Crisis; Non-US Developed had tracking error of 153 bp realized, 209 bp forecasted with a policy neutral of 300. Emerging Markets had tracking error of 239 bp realized, 153 bp forecasted with a policy neutral of 300. All Country had 159 bp forecasted with a policy neutral of 300. USA has a policy neutral TE target of 300bp but is not reported above due to its immaterial NAV balance. Govt Bonds - Real and All Country realized tracking error will be reported once 36 months of history is accumulated.

Trust Monthly Liquidity Ratio Remained Strong

Liquidity Sources and Uses



Liquidity Ratio

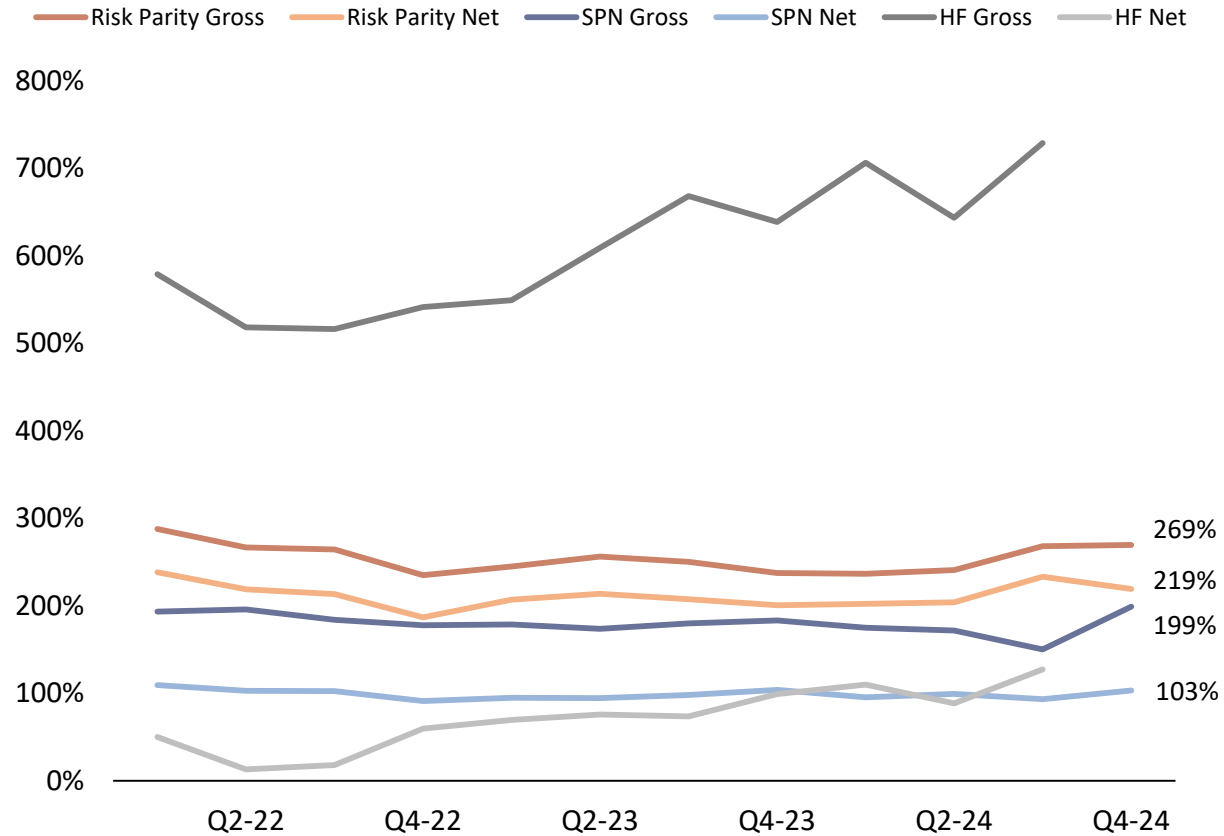


Sources (\$43.0) / Uses (\$7.5) = Liquidity Ratio (5.7)

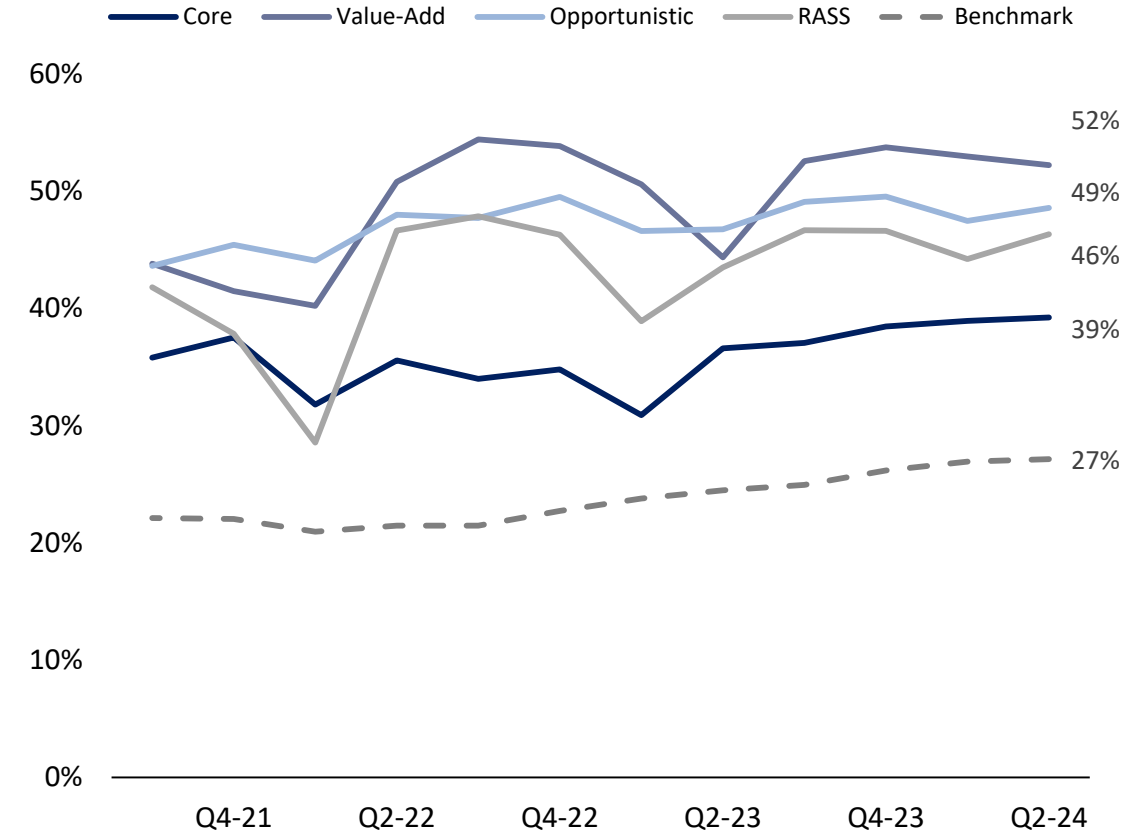
Source: State Street Bank, TRS IMD
Assumptions: The stress case assumes liquid assets experience 1.5x the worst rolling monthly return since 2008 plus an additional liquidity stress. Operational uses of liquidity reflects forecasted monthly benefit payments. Stressed securities lending reflects potential costs associated with termination including a liquidity stress. Stressed non-collateralized assets and derivatives reflect margin calls based on the same market stress applied to Liquid Assets. Stressed Private Market investment estimates are informed by historical capital calls and distributions. Pre-Stress Liquidity Sources = Total Trust NAV minus illiquid assets, bond collateral, and Hedge Funds.

Hedge Fund Leverage Increased

Risk Parity, Public Strategic Partners, Hedge Funds



Real Estate Loan to Value

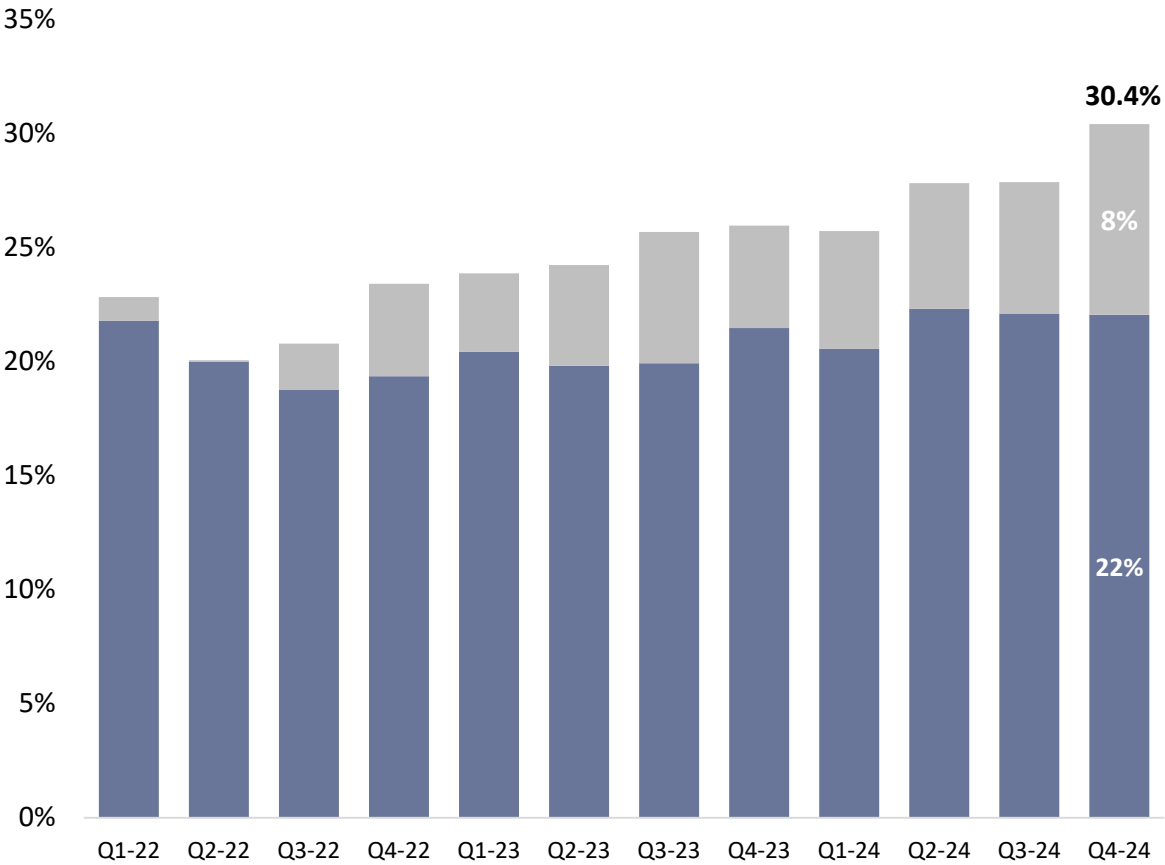


Source: MSCI RiskMetrics, State Street Bank, TRS RE manager data, NCREIF; note: Directional Hedge Fund overlay program includes one non-Hedge Fund. HF leverage is reported on a quarter lag; DHF overlay was 83.3% on a total program size of 12.8bn ; Total Real Estate Loan to Value was 47% as of June 30, 2024 ; Real Estate Loan-to-Values are estimates based on self-reported manager data

Gross Notional from Derivatives Remained Constant

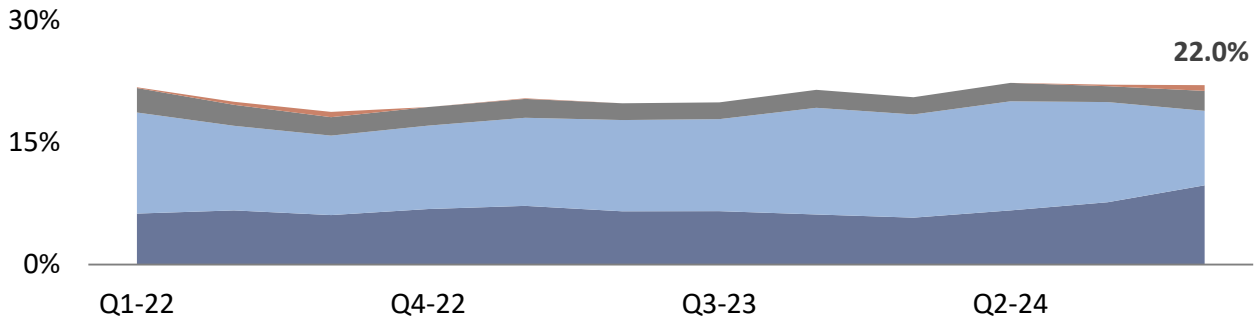
Total Trust Gross Leverage

■ Gross Derivatives ■ Other



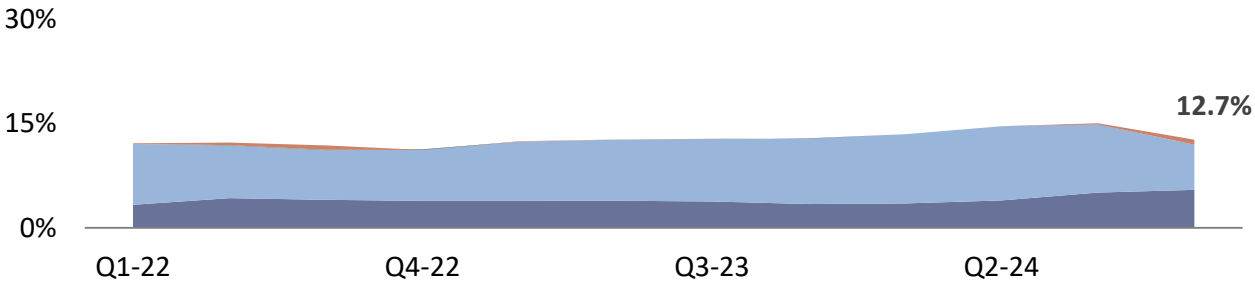
Gross Derivative Notional by Instrument
(% of Total Trust)

■ Swaps ■ Futures ■ Forwards ■ Options



Net Derivative Notional by Instrument
(% of Total Trust)

■ Swaps ■ Futures ■ Forwards ■ Options



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In conclusion...

- Trust investment exposure in line with policy target
- Overweight to Absolute Return offset by underweight to Nominal Bonds and All Country
- Global Equity now a larger percentage of Trust but diversified
- Trust liquidity remains strong

Annual Review of Public Markets

Dale West, Senior Managing Director, Public Markets
Kyle Wynne, Managing Director, Quantitative Equity Group
Lulu Llano, Director, External Public Markets

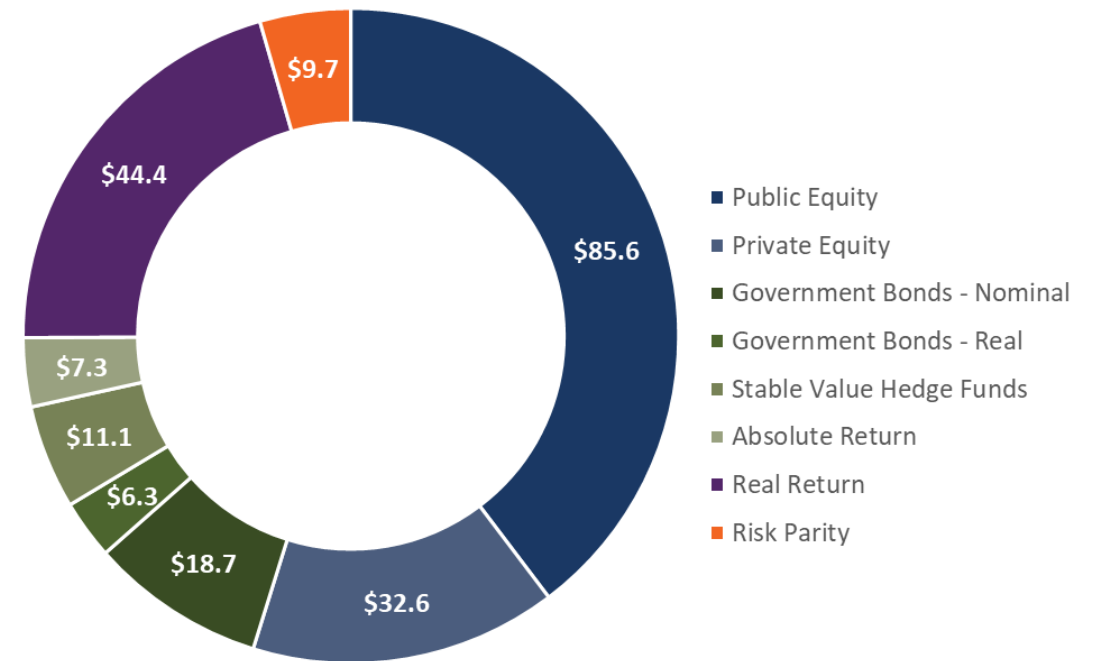
April 2025



Agenda

- I. Public Equity
- II. Stable Value Hedge Fund
- III. Absolute Return

**TOTAL TRUST as of
December 31, 2024**



Trust Investment Exposure
Asset Allocation Leverage
Total Trust

\$215.7
(\$8.4)
\$207.3 billion

Public Markets Overview

External Public Markets (EPU)

No. of People: 12

AUM: \$55.3B

Mission: Identify and invest with external managers to access strategies which complement internal TRS capabilities. Mandates include equity funds, hedge funds and Strategic Partnerships.

Quantitative Equity Group (QEG)

No. of People: 18

AUM: \$24.9B

Mission: Create value managing equities, using quantitative analysis to systematically identify and capitalize on opportunities, while maintaining a disciplined and risk-managed approach.
Provide timely, high-quality quantitative analysis to enhance investment understanding and decisions across Public Markets.

Internal Fundamental (IFM)

No. of People: 22

AUM: \$11.5B

Mission: Develop and invest across a collection of boutique strategies implemented by internal teams using predominantly fundamental research.

Special Opportunities (SO)

No. of People: 6

AUM: \$7.4B

Mission: Capture unique and niche investments for the Trust. Investments are predominantly public market co-investments and illiquid credit.

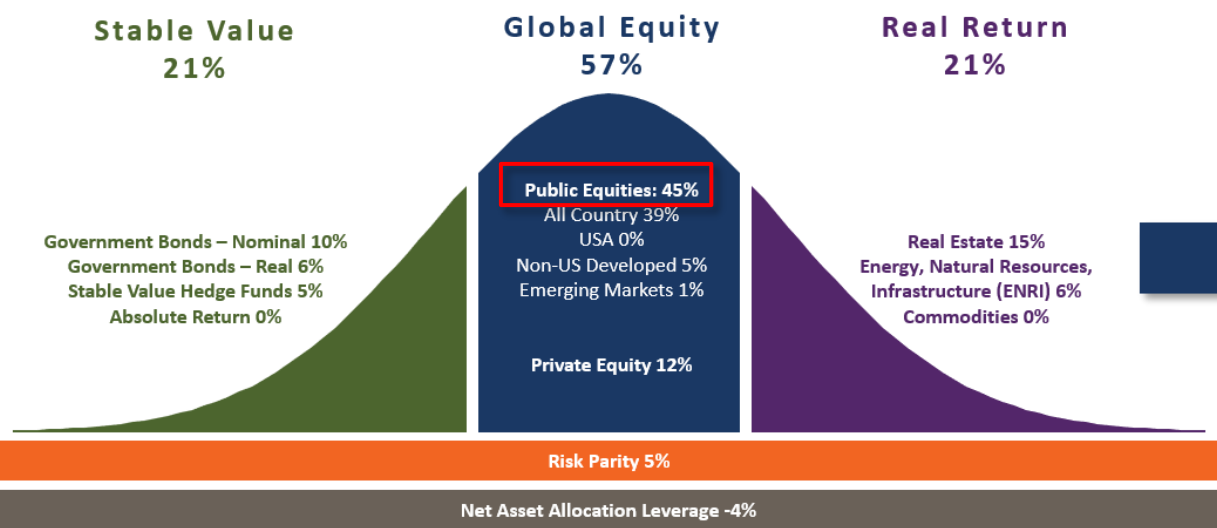
Rotational Analyst Program (RAP)

No. of People: 7

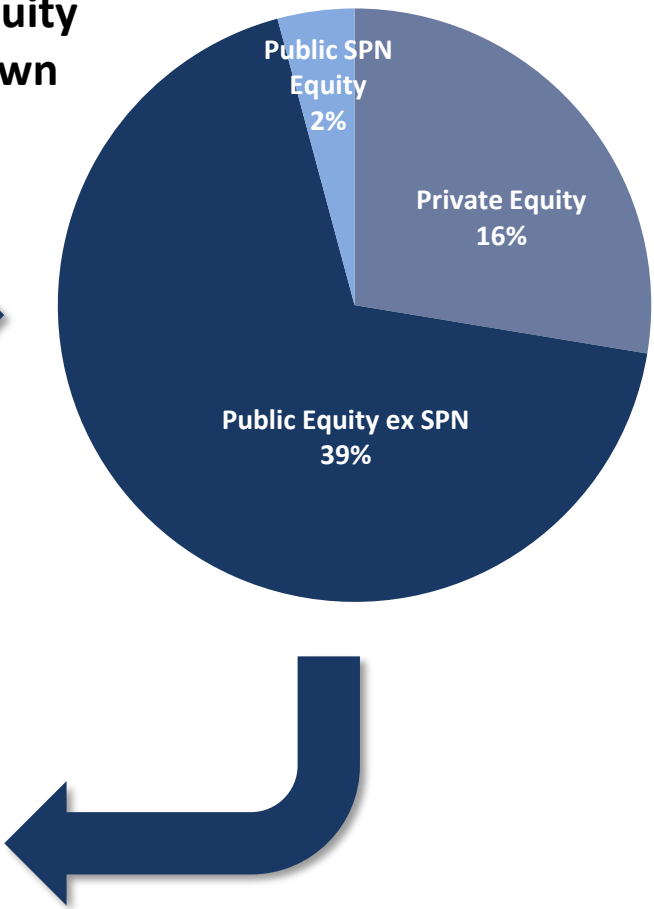
Mission: Attract and train high-potential early career investors who rotate among Public Markets groups during a 3-year program.

Global Equity Overview

Global Equity's role in the Trust:



Global Equity Breakdown



Public Equity Portfolio		
As of 12/31/2024	Assets (in billions)	Assets % of Trust
External Manager/ Public SPN	\$43.3	21%
Multi-Asset Strategies	24.9	12%
Internal Fundamental	11.5	6%
Passive & Transition	5.8	3%
Total Public Equity	\$85.5	41%

Philosophy

Active Management

We believe active management will add value over time

Factors

Targeting factors that are compensated in the long run, such as value, is a key active strategy

Internal

We prefer to manage strategies internally when we have the resources and skills to compete with external managers

External

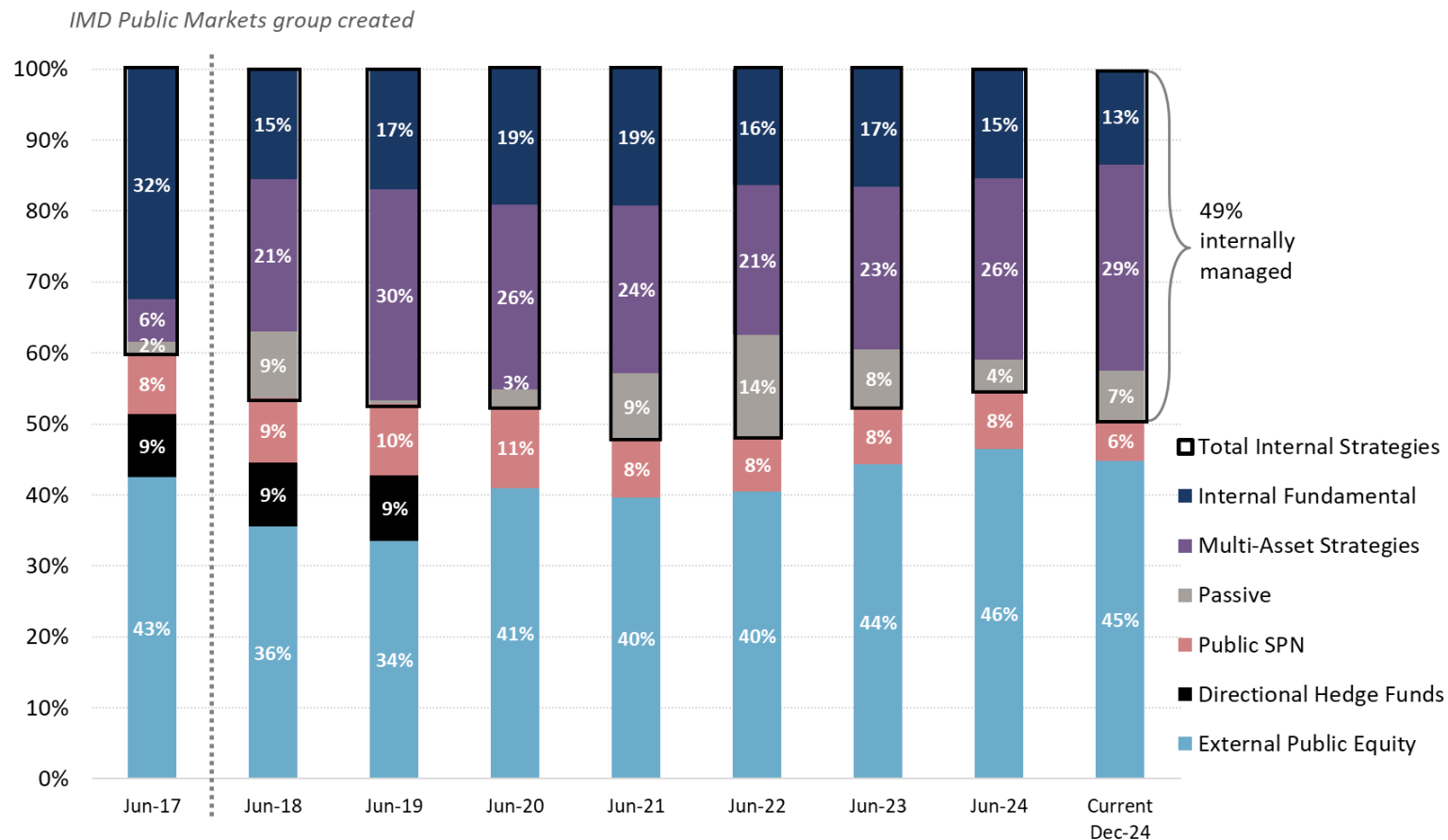
When we don't have internal capabilities, we can select external managers who will add value net of fees

Efficient Markets

Active management is most successful in less efficient markets, including international and small caps

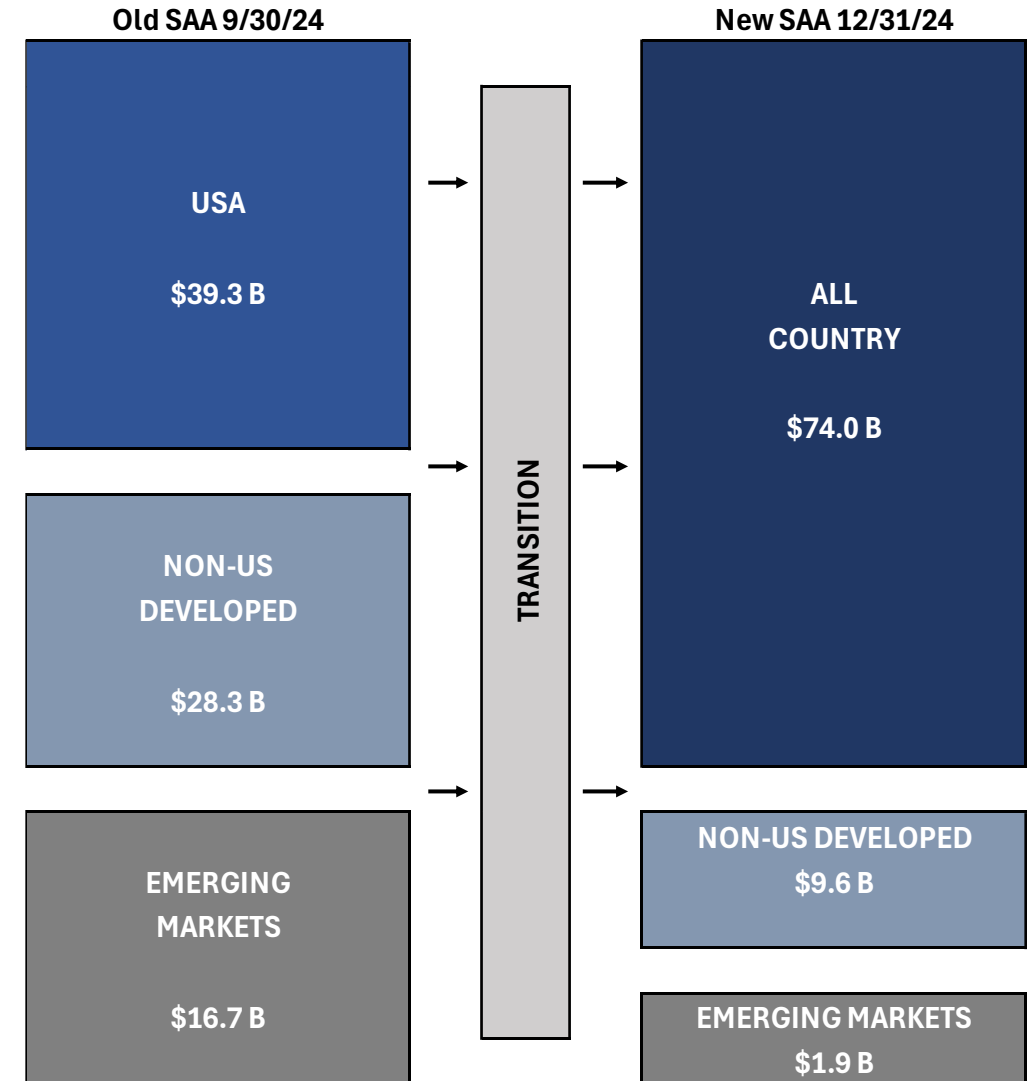
Internal & External Management

Public Equity Split by Strategy Group



SAA Transition in Public Equity

- 2024 SAA changes were material:
 - Long-term target allocation to Public Equity increased from 40% to 45%
 - Regional portfolios combined in an All Country allocation alongside smaller regional portfolios
 - Non-US and EM allocations added small-cap and fully excluded China and Hong Kong
- Over \$20 billion in trades over three months
- New completion and enhanced index strategies fill beta gaps, providing more flexibility to pursue high conviction active management
- Despite heavy trading volume over a short period, public equity generated +53 bp alpha during Q4



Public Equity Performance

Public Equity Portfolios excluding Strategic Partnership

As of December 31, 2024

	Assets (\$ millions)	Assets (percent of Trust)	Return (%)	Alpha (bp)	Return (%)	Alpha (bp)	Return (%)	Alpha (bp)
			Q4 2024		1-Year (Annualized)		3-Year (Annualized)	
All Country	\$69,001	33.3	-0.5	44				
TRS All Country Benchmark			-1.0					
Non-US Developed	9,640	4.7	-7.2	44	6.9	256	2.1	39
TRS Non-US Developed Benchmark			-7.6		4.4		1.7	
Emerging Markets	1,931	0.9	-7.3	100	5.9	63	-1.8	25
TRS Emerging Market Benchmark			-8.3		5.3		-2.0	
Total Public Equity	\$80,569	38.9	-1.9	53	16.0	207	5.1	94
TRS Public Equity Policy Benchmark			-2.5		13.9		4.1	

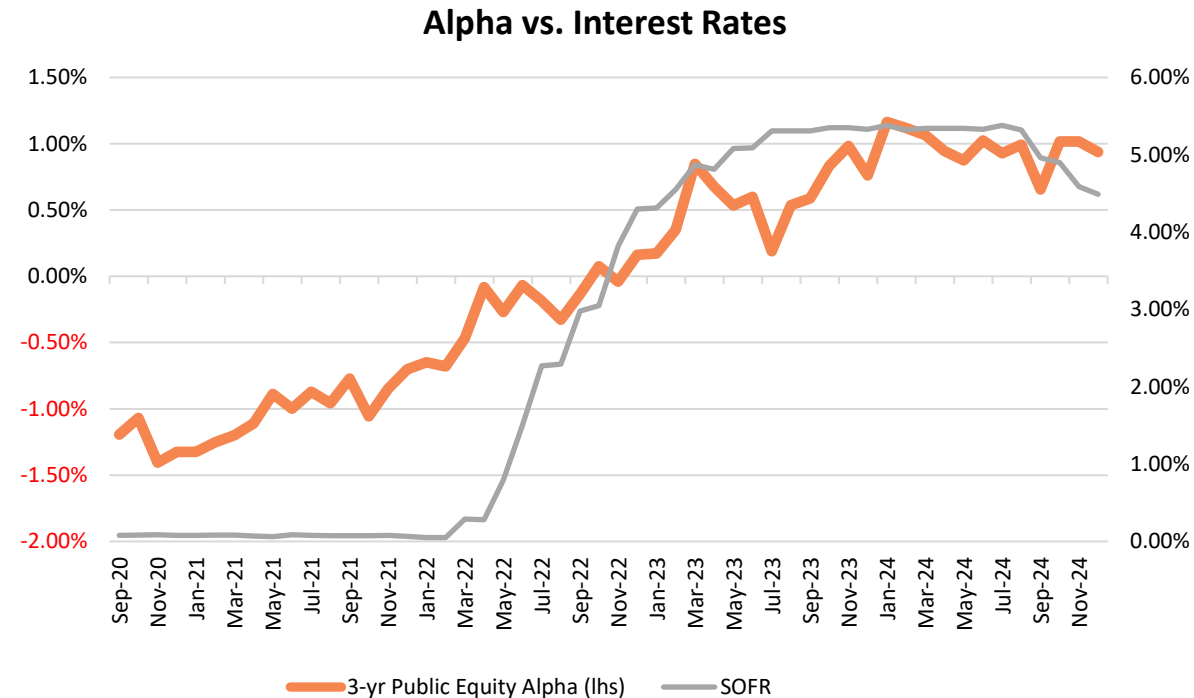
As of September 30, 2024

			Q1 - Q3 2024		1-Year (Annualized)		3-Year (Annualized)	
USA	\$30,442	14.4	22.7	207	37.9	262	11.7	135
TRS USA Benchmark			20.7		35.3		10.4	
Non-US Developed	24,636	11.6	15.2	222	27.2	221	5.4	-8
TRS Non-US Developed Benchmark			13.0		25.0		5.5	
Emerging Markets	14,539	6.9	14.3	-55	25.9	-88	0.3	-9
TRS Emerging Market Benchmark			14.8		26.8		0.4	
World	9,600	4.5	19.8	176	34.7	305	10.9	297
TRS Custom World Benchmark			18.0		31.7		7.9	

- Public equity portfolios provided strong returns and alpha in 2024
- The portfolios generated \$1,184M in relative dollar value added (RDVA) in 2024 and \$1,704M over the last three years

Why has alpha improved?

- Traditional investment approaches work best when the price of capital is less manipulated



Public Equity Portfolio Management: A Holistic Process

Objective: Allow each investment team to pursue the highest conviction active management opportunities while ensuring:

- (1) The total Public Markets portfolio aligns with policy allocation
- (2) Risk that is considered unintentional or uncompensated is mitigated where prudent

- Optimize at Trust level, not at investment team level
- Consensus decision making through a Portfolio Construction Team

Guiding Principles

- Identify risk sources that we consider outsized and unintentional or uncompensated

Risk Assessment

Hedge Evaluation

- Determine viability of potential hedging solutions, considering cost, complexity, basis risk, etc.

Model Considerations

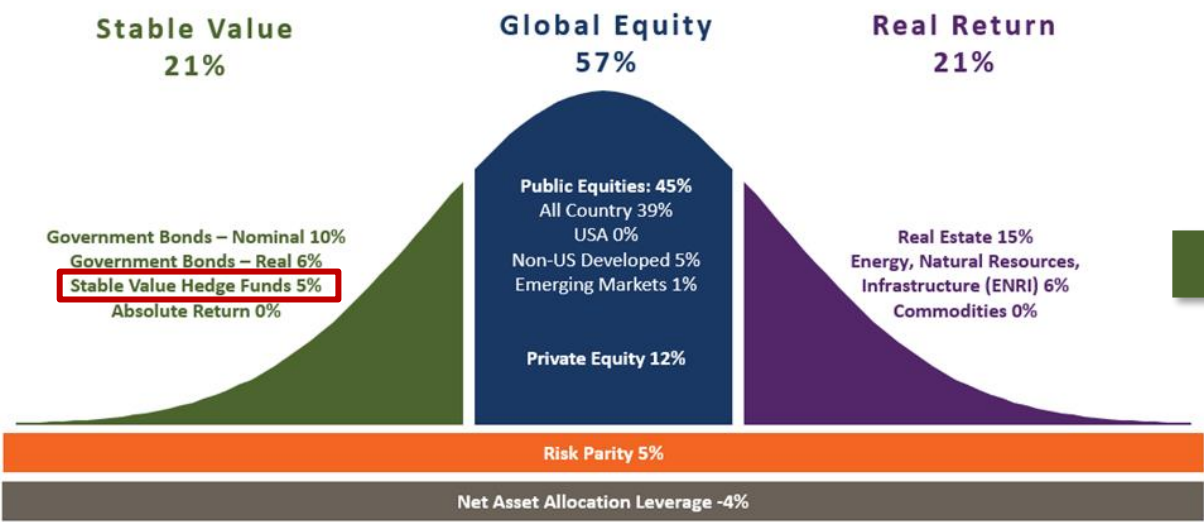
- Analyze risk from multiple angles
- Acknowledge estimation error

Restructuring Quantitative Capabilities

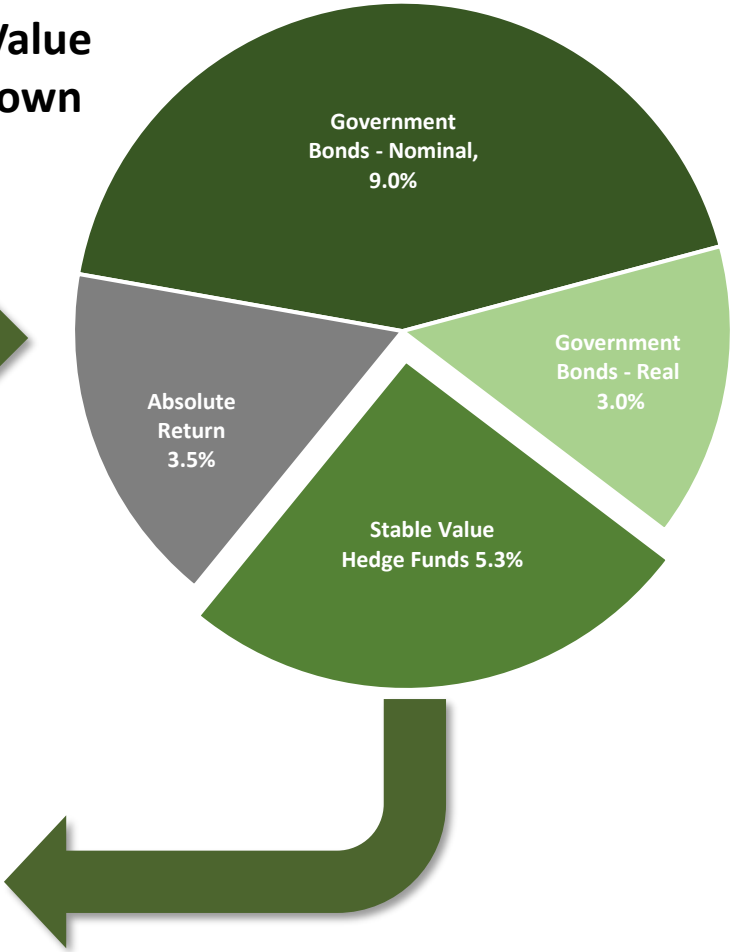
- **MSG departures.** IMD investors resigning in March 2025 led to a restructuring of the teams that implement public market quantitative strategies
- **Multi-asset investing.** Taking advantage of synergies with the Internal Risk Parity portfolio, the team managing multi-asset and alternative risk premia strategies merged into the Risk & Portfolio Management Group
- **Quantitative Equity Group.** QEG will continue current stock selection strategies
 - We reduced assets in internal quantitative equity strategies by approximately 60%, with the intent to grow them back as appropriate
- **Analytics and passive management.** QEG also took on the responsibilities of the former Portfolio Solutions group:
 - Passive and enhanced passive portfolio management
 - Reporting and analytics across Public Markets

Stable Value Overview

Stable Value’s role in the Trust:



Stable Value Breakdown



STABLE VALUE HEDGE FUND PORTFOLIO		
As of 12/31/2024	Assets (in billions USD)	Assets (percent of Trust)
Equity Market Neutral	\$4.2	2.0%
Macro and Commodities	2.3	1.1%
Multi-Strategy	2.3	1.1%
Trends and Volatility	1.2	0.6%
Reinsurance	1.1	0.5%
Total Portfolio	\$11.1	5.3%

Stable Value Hedge Fund Performance






Stable Value Hedge Funds As of December 31, 2024							
		1-Year		3-Year		Since Inception October 2011	
	Assets (in millions)	Return (%)	Alpha (bp)	Return (%)	Alpha (bp)	Return (%)	Alpha (bp)
Stable Value Hedge Funds	\$11,075	10.5	354	8.3	417	5.9	190
<i>Stable Value Hedge Funds Benchmark¹</i>		<i>7.0</i>		<i>4.1</i>		<i>4.0</i>	

Returns and excess returns are annualized for periods longer than one year.

¹ HFRI Fund of Funds Conservative Index through 9/30/2024, thereafter SOFR +250.

- SVHF outperformance in 2024 was broad-based across strategies
 - The portfolio achieved its highest calendar year return (+10.5%) since inception
- SVHF has been a consistent outperformer
 - Over 3 years, SVHF added \$1,173 million in relative dollar value add (RDVA) versus the policy benchmark
 - Since inception, SVHF added \$2,493 million in RDVA versus the policy benchmark

Stable Value Hedge Fund Portfolio

Stable Value Hedge Fund Objectives	Status	Details
Hedge Fund Types Focus on absolute return hedge funds		<ul style="list-style-type: none"> Return: 5.9%¹ Sharpe Ratio: 1.5
Market Sensitivity and Risk Core strategies have low to negative market sensitivity		<ul style="list-style-type: none"> Correlation to Global Equities²: 0.2 Beta to Global Equities: 0.0
Market Regime Performance Expected to have positive returns when markets are down		<ul style="list-style-type: none"> Outperformed equities in every down month for stocks, by an average of 3.7% Positive returns in 72% of 54 down equity months since October 2011
Performance versus US Treasuries Expected to outperform US Treasuries over the long term		<ul style="list-style-type: none"> 5.9% return versus Treasuries³ 0.6% 3.1% volatility versus Treasuries 12.5% 12/31/24 10-year Treasury yield-to-maturity: 4.6%
Performance versus Benchmark Stable Value HF benchmark ⁴		<ul style="list-style-type: none"> 1.9% ahead of Stable Value HF benchmark since inception Tracking error of 2.6%

Source: State Street Bank, Bloomberg

Note: Performance is annualized and is net of fees.

¹Dates: October 2011 (inception) to December 2024

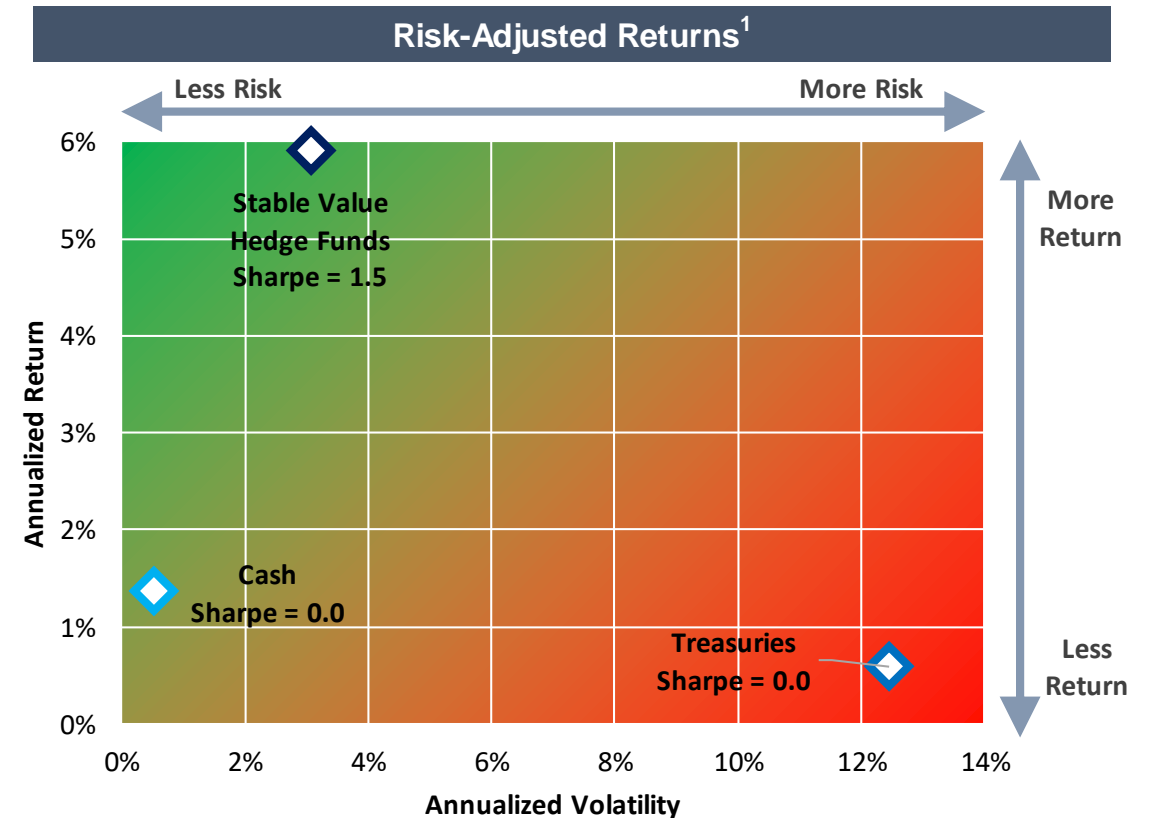
²MSCI All Country World Index

³Bloomberg Barclays US Long Treasury Total Return Index

⁴HFRI Fund of Funds Conservative Index through 9/30/2024, SOFR + 250 thereafter

Stable Value Hedge Funds and Treasuries

- Stable Value Hedge Funds have generated 10x the return of Treasuries on one quarter of the volatility, since inception
- Yields on Treasuries remain at levels below the historical performance of Stable Value Hedge Funds
- Stable Value Hedge Funds remain an important absolute return asset for the Trust



¹ Dates: October 2011 (inception) to December 2024

² Return of Bloomberg US Long Treasury Total Return Index

³ Return of Citigroup 3-month Treasury Bill

Public Markets 2025 Priorities

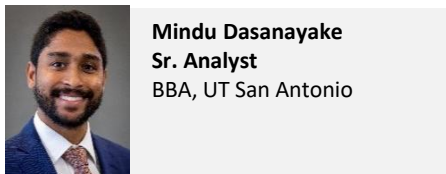
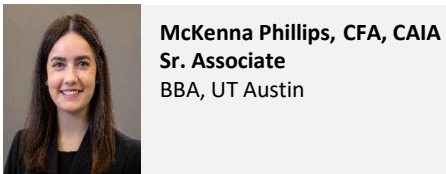
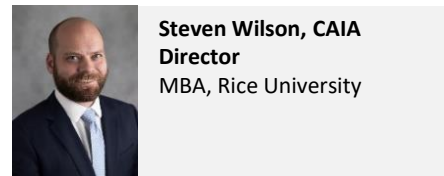
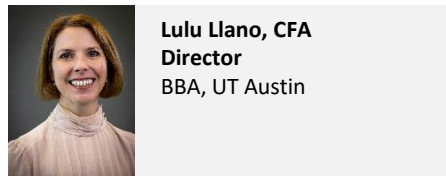
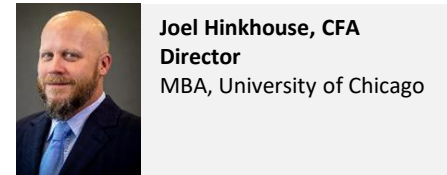
- Rebuilding and reinforcing quantitative investment capabilities
- Managing risks and taking advantage of opportunities arising from greater market and macroeconomic volatility
- Balancing the portfolio's sources of alpha
- Pushing the industry on fee alignment
- Maintaining a culture that is collaborative and accountable

APPENDIX

External Public Markets



EXPERIENCE SUMMARY
8 CFA Charterholders
7 Master's Degrees
5 CAIA Charterholders
1 Certified FRM



Quantitative Equity Group



Kyle Wynne, CFA, FRM
Managing Director
Head of Quantitative Equity Group
MS, University of Chicago

EXPERIENCE SUMMARY

3 CFA Charterholders
13 Master's Degrees
1 CPA
1 Certified FRM



Mark Albert, CFA
Director
MBA, University of Michigan



Wayne Speer, CFA
Director
MBA, SMU



Solomon Gold
Investment Manager
MS, UT Austin



Paul Nguyen
Investment Manager
MS, University of Virginia



Sudhanshu "Sunny" Pathak
Investment Manager
MS, Columbia University



Kevin Taylor
Investment Manager
MS, UT Austin



Yan Zhang
Investment Manager
MBA, University of Chicago



Anthony Paolini, CPA
Sr. Associate
MPA, UT Austin



Chad White
Sr. Associate
MSF, Tulsa
MS, MS&T



Lamont Colter
Associate
BS, Texas State University



Chris Steeves
Associate
MS, UT Austin



Cyrus Buhariwalla
Sr. Analyst
BS, Texas A&M



Logan Deboo
Sr. Analyst
BA, University of British
Columbia



Irma A. Martinez
Sr. Analyst
BBA, St. Edwards



John Onyango
Analyst
BBA, Texas State University



Arjun Mudunuru
Contractor
MS, UT San Antonio

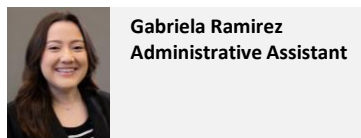
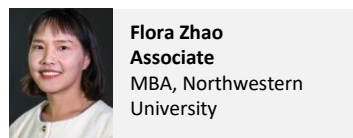
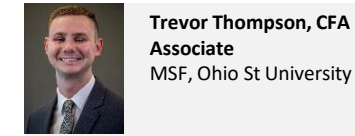
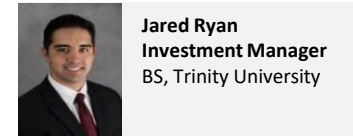
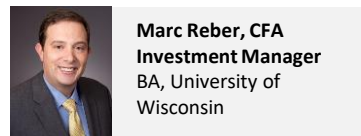
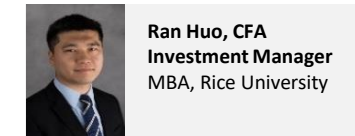
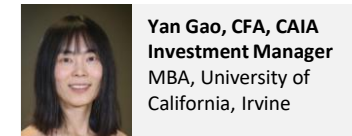
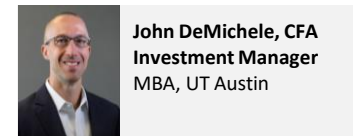
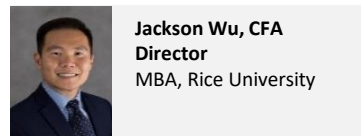
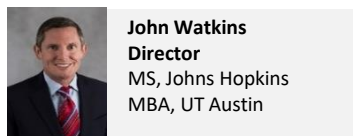
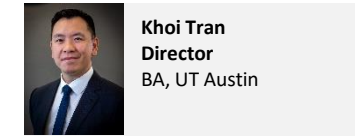
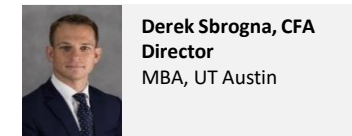
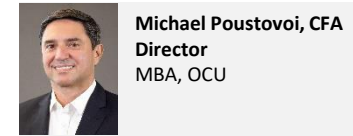
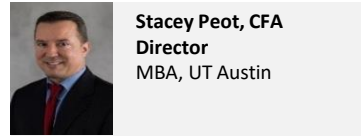
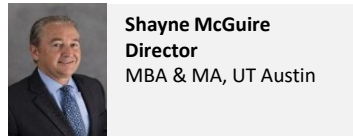
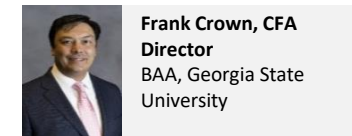
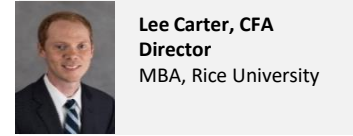
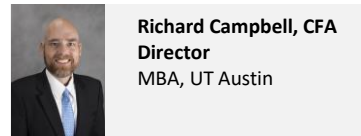


Gabriela Ramirez
Administrative Assistant

Internal Fundamental



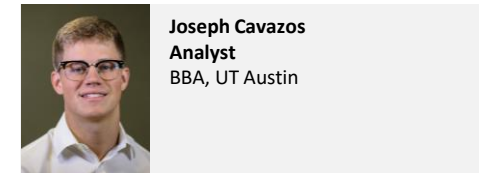
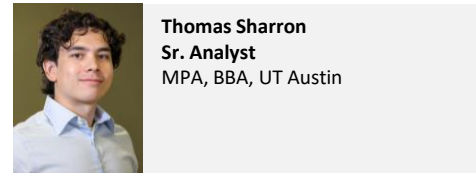
EXPERIENCE SUMMARY
15 CFA Charterholders
18 Master's Degrees
1 CAIA Charterholder



Rotational Analyst Program

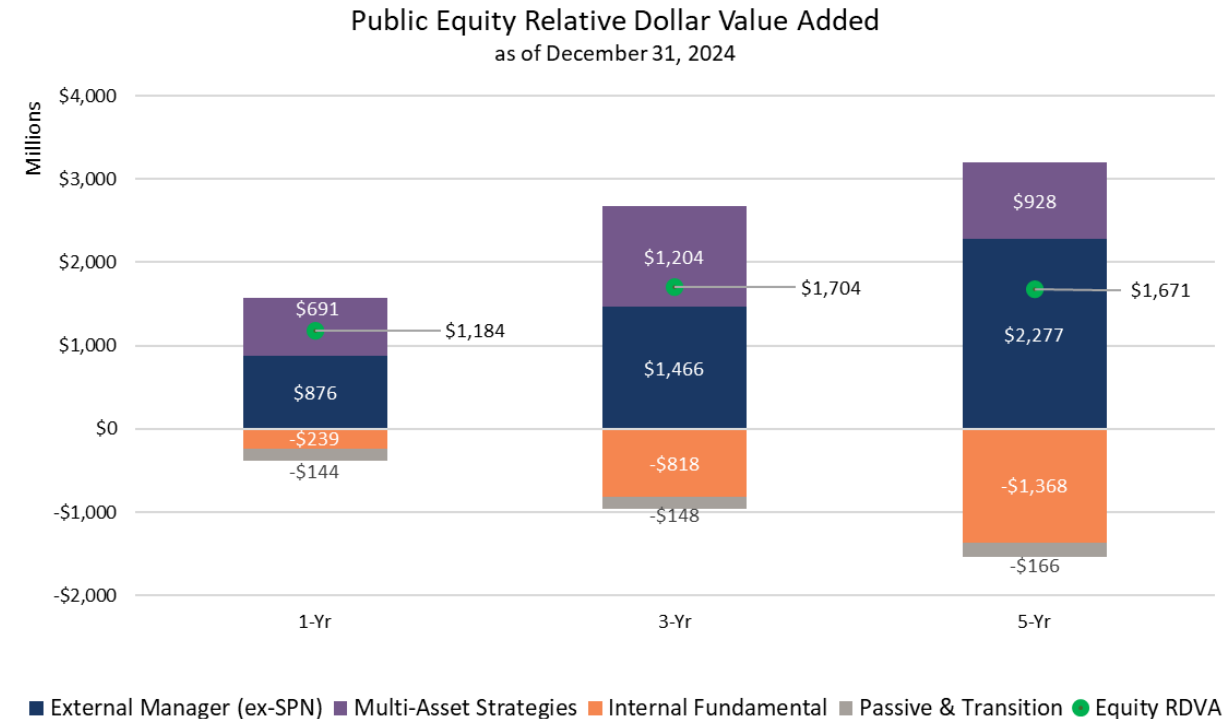


EXPERIENCE SUMMARY
2 Master's Degrees



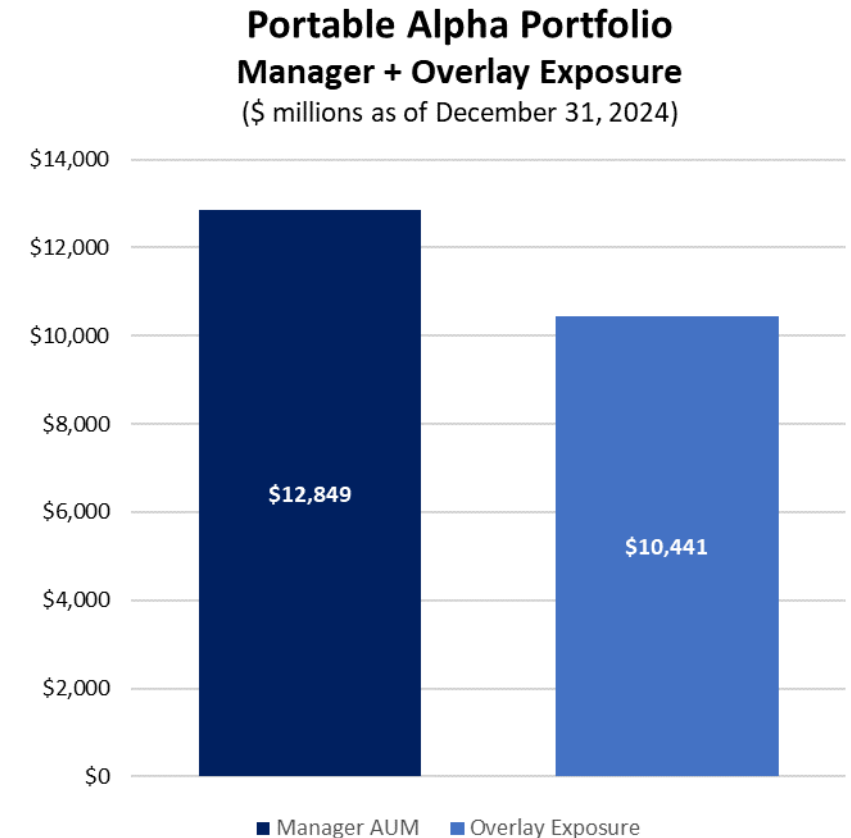
Public Equity Performance by Strategy Group

- External managers and internal quantitative strategies were positive contributors to outperformance versus equity benchmarks over all time periods
- In 2024, internal fundamental portfolios in emerging markets contributed positively, offset by underperformance in developed market strategies



Portable Alpha Manager and Overlay Exposure

- In the 2019 SAA review, market-sensitive or “directional” hedge funds were integrated into the Public Equity portfolio
- The IMD uses an overlay to create a Portable Alpha portfolio with full market exposure to policy benchmarks (beta=1)
 - The portfolio includes market-sensitive hedge funds and other funds that require an adjustment to their beta exposure
- Currently the Portable Alpha portfolio represents 6% of Trust assets
- Portable Alpha has been successful and generated \$959 million in DVA since inception (Oct 2019)
 - These results are included in overall Public Equity performance



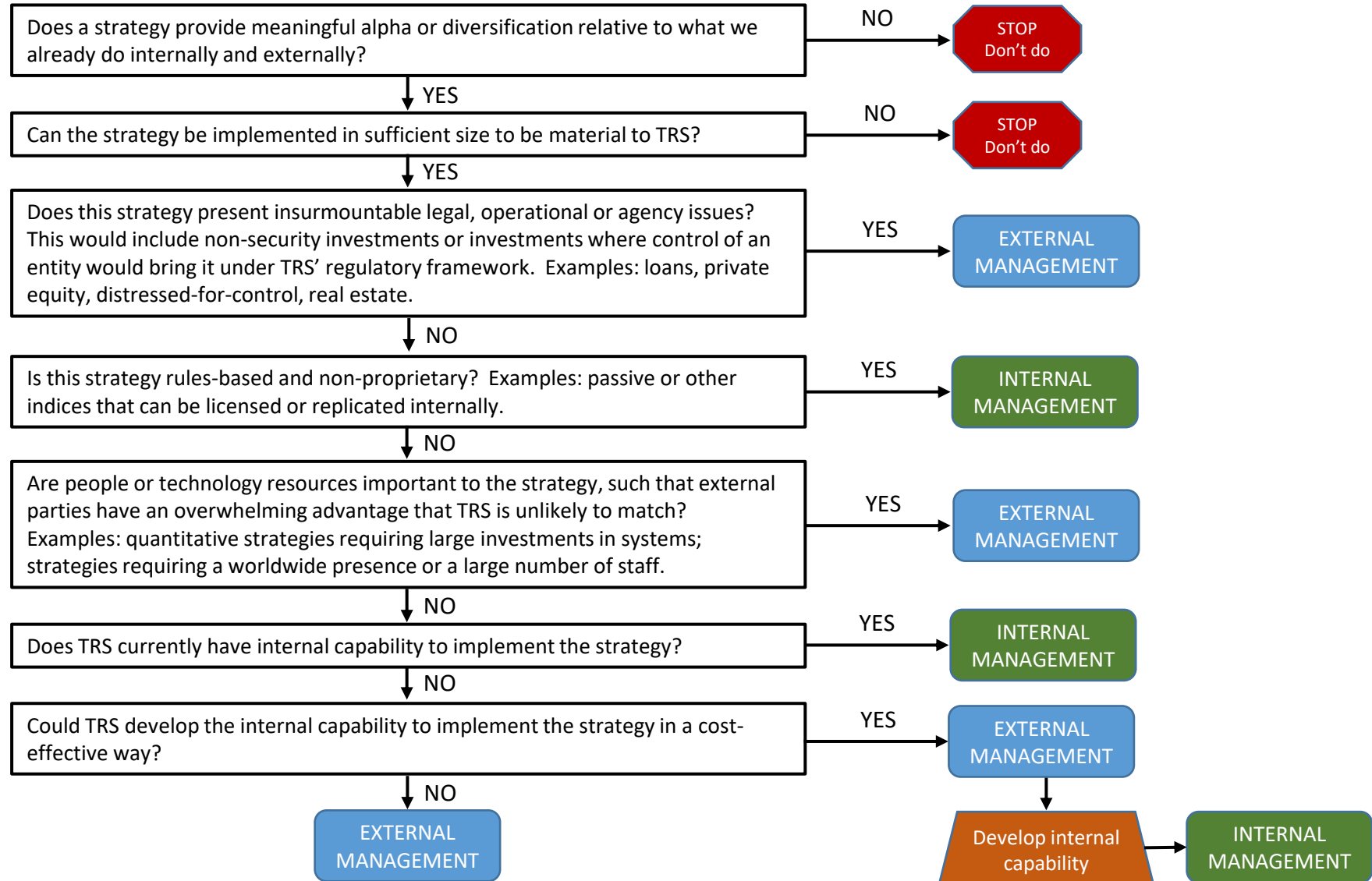
Legislative Authority Detail for Agency Agreements

As of December 31, 2024

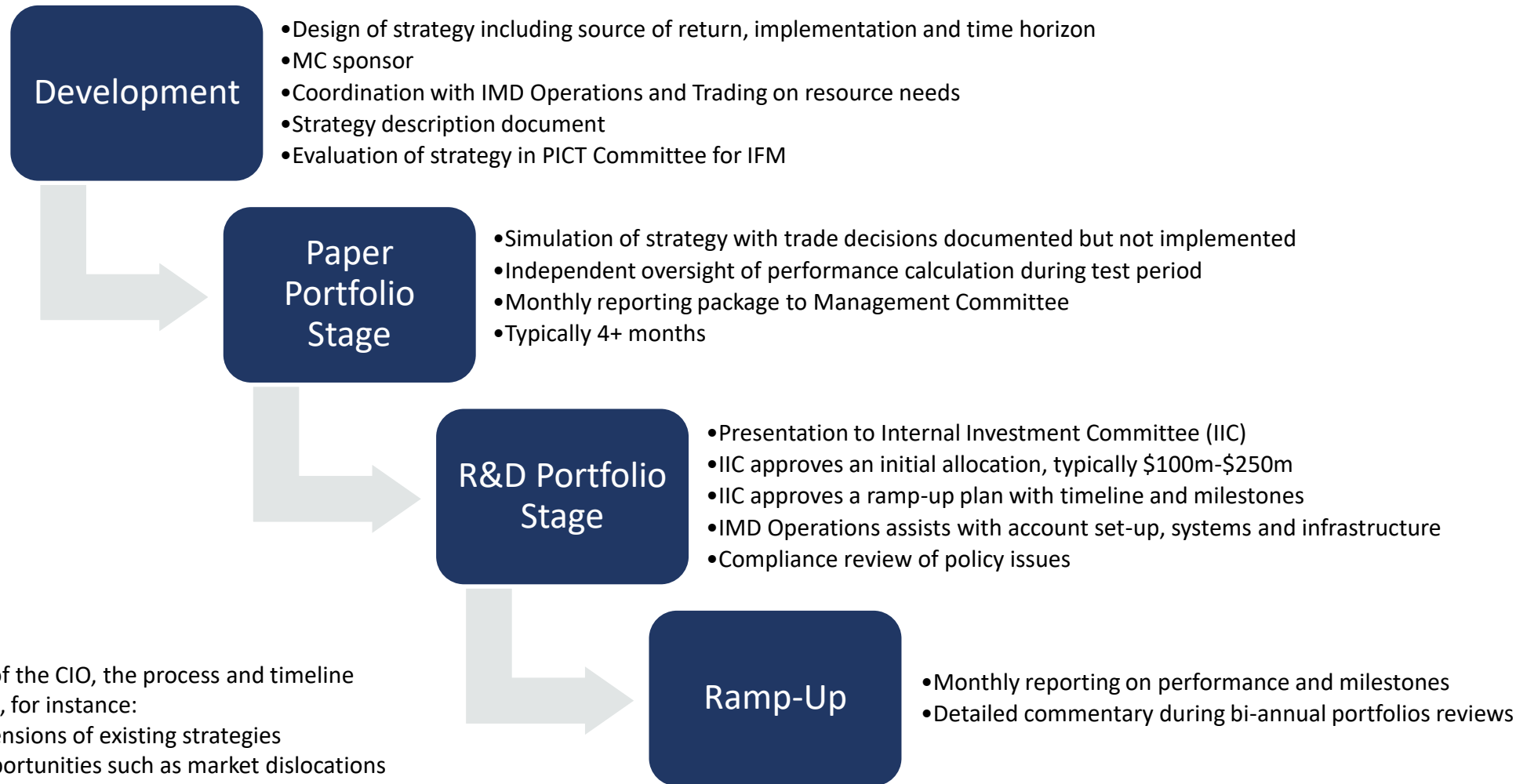
	# of Portfolios			Assets (\$ billion)			Percentage of Trust		
External Managers	Agency	LP	Total	Agency	LP	Total	Agency	LP	Total
All Country	6	26	32	\$4.6	\$15.9	\$20.5	2.2%	7.7%	9.9%
Non-US Developed	1	1	2	\$1.0	\$1.8	\$2.8	0.5%	0.9%	1.3%
Emerging Markets	0	0	0	\$0.0	\$0.0	\$0.0	0.0%	0.0%	0.0%
Total Equity	7	27	34	\$5.6	\$17.7	\$23.3	2.7%	8.5%	11.2%
Public Markets SPN	2		2	\$5.9		\$5.9	2.8%		2.8%
Real Estate	1		1	\$0.4		\$0.4	0.2%		0.2%
Totals	10	27	37	\$11.8	\$17.7	\$29.5	5.7%	8.5%	14.2%
Hedge Funds									
Global Equity					\$12.1			5.9%	
Stable Value					\$11.3			5.4%	
Risk Parity					\$0.2			0.1%	
Totals					\$23.7			11.4%	

- TRS is limited by law to 30% Agency Agreement authority
 - Currently 14.2% utilized
- The Investment Policy Statement¹ limits the allocation to Hedge Funds to 15%
 - Current allocation is 11.4%

Internal / External Decision Tree for Investment Strategies

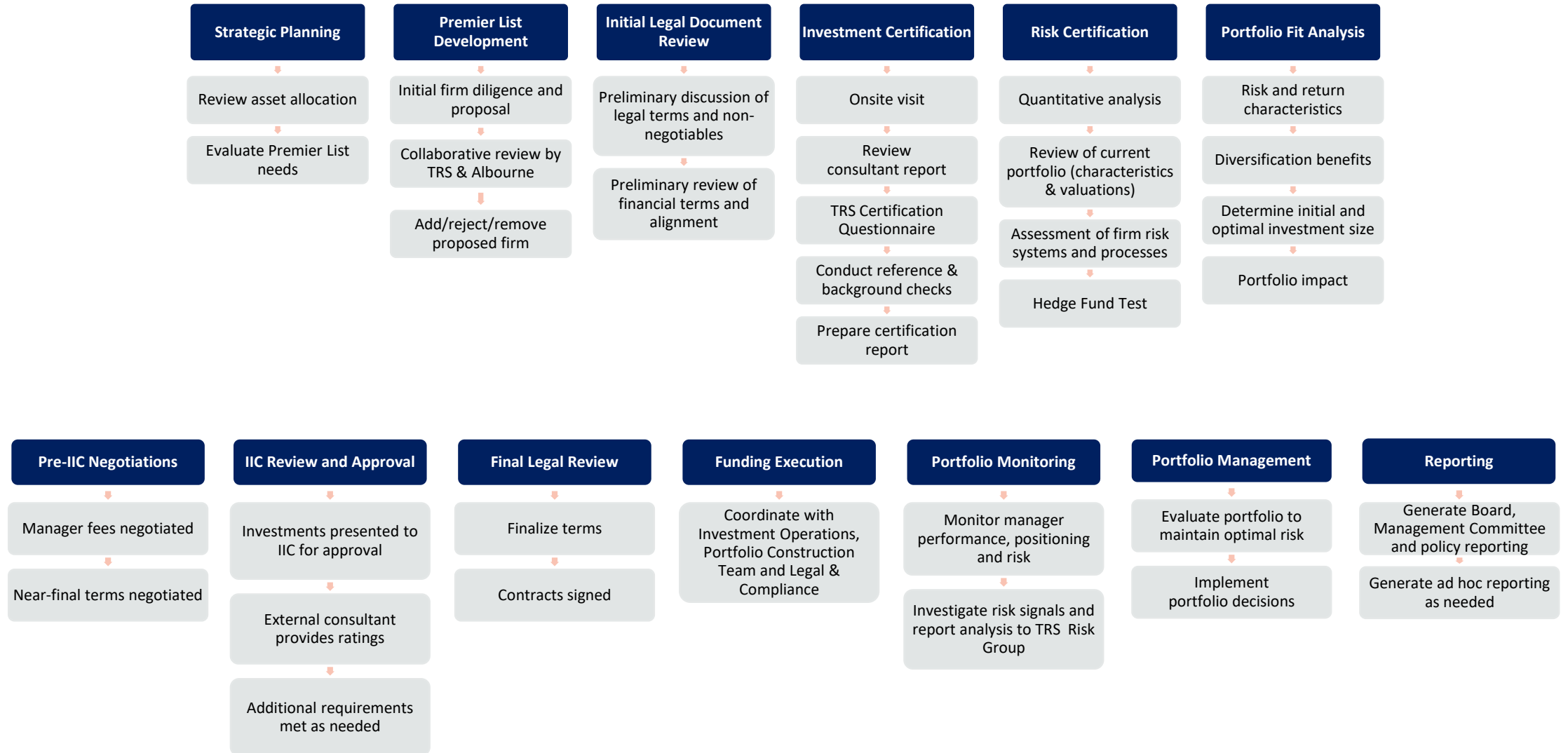


Developing New Internal Portfolios



External Manager Critical Processes

Texas Way



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Annual Review of Absolute Return

Ashley Baum, Managing Director

April 2025



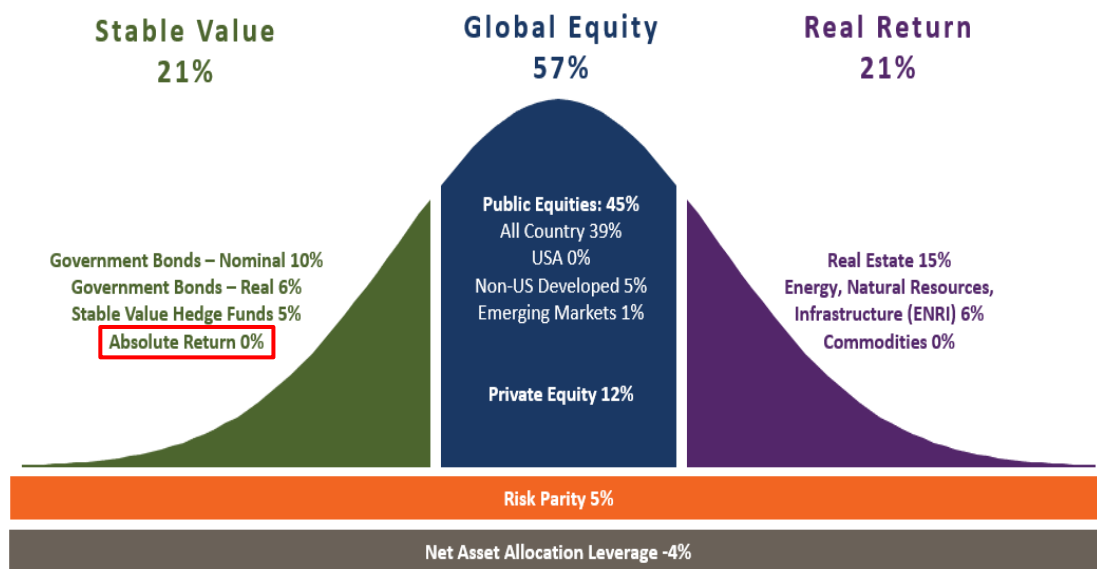
Role in the Trust

Absolute Return (AR)

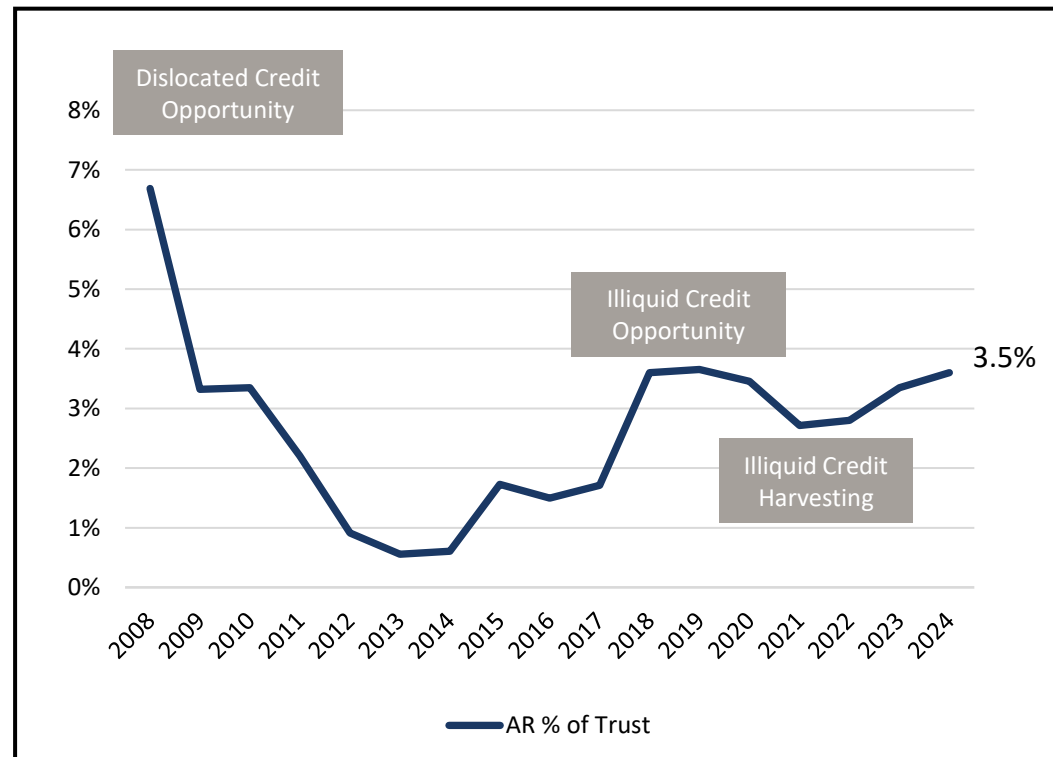
Absolute Return (“AR”) is “a broad category that includes all assets that have a high probability of generating a positive absolute return regardless of market conditions over a one- to three-year period”

- Policy range of 0-20% with a target of 0%
- Actual size depends on the opportunities available

AR TARGET % OF TRUST



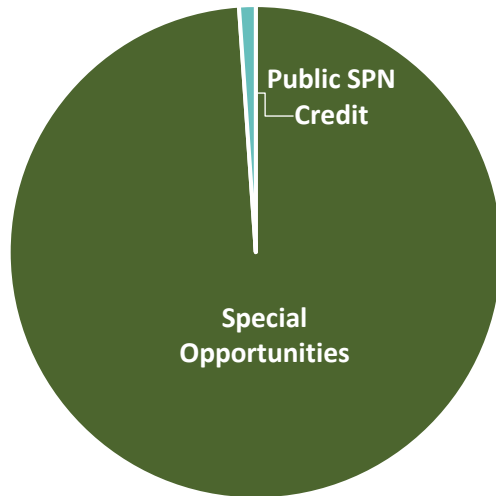
HISTORICAL TRUST ALLOCATION



Absolute Return Portfolio Summary

- Absolute Return represents 3.5% of the Trust, composed of:
 - <0.1% Public Strategic Partnership Network (“SPN”) Credit Assets
 - 3.5% Special Opportunities (“SO”)¹

MARKET VALUE BY STRATEGY



Market Value \$7.3B as of 12/31/24

Special Opportunities Portfolio Goals

Deliver an 8% IRR over a 3-year basis

Scale portfolio up/down opportunistically

Capture unique and niche investments

Act as innovation agent for the IMD

- Special Opportunities Portfolio launched in 2013 and includes fund and principal investments
- Since inception, TRS has deployed \$18.5B in these opportunities, resulting in a 16.2% return and a 11.0% IRR
- SO manages the portfolio to a maximum weight of 5% during normal environments, although it will often be well below that level

¹ Special Opportunities has positions held in Global Equities (\$154M as of 12/31/2024) which are not included in the Absolute Return portfolio

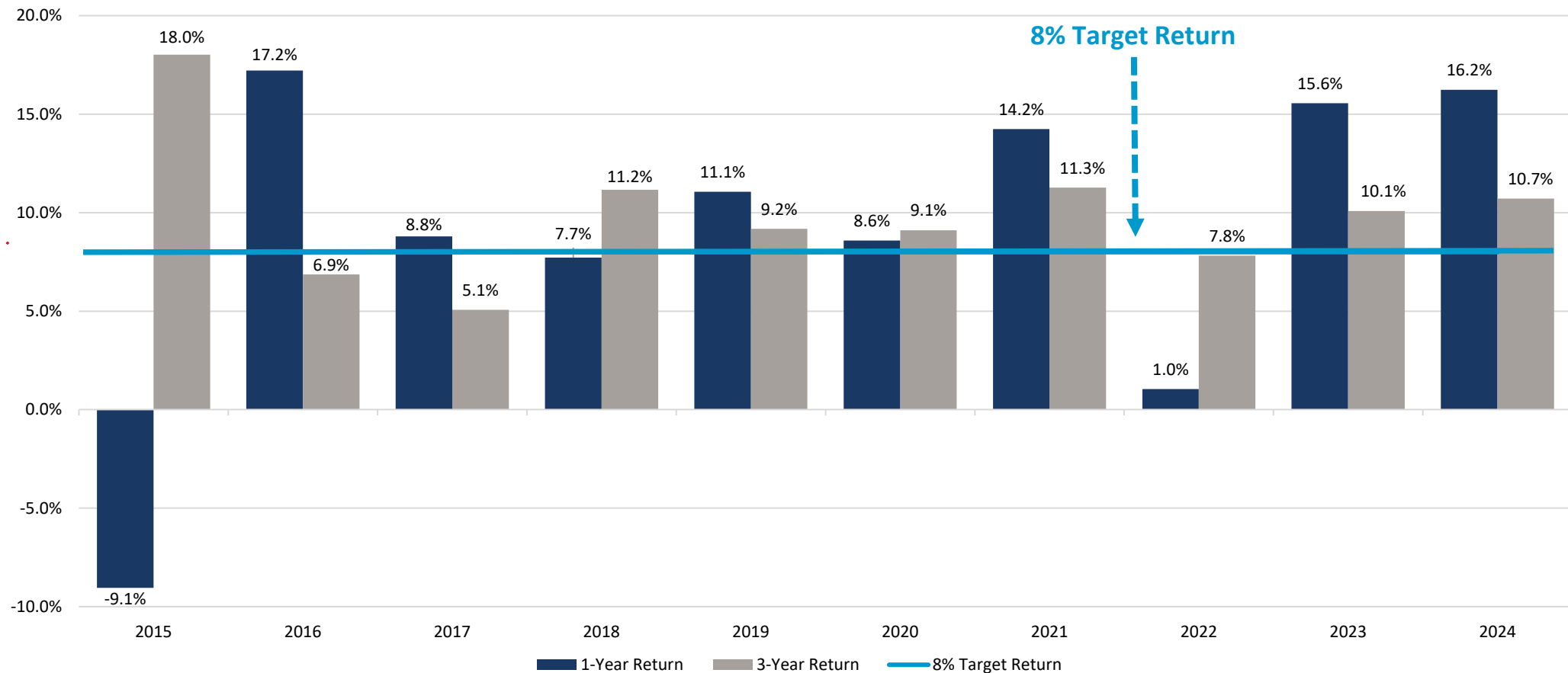
Source: State Street, TRS IMD

Special Opportunities Portfolio Absolute Return

As of 12/31 each year

- The Special Opportunities team has historically targeted an 8% return over a 1- to 3-year basis
- Since inception, Absolute Return has exceeded this target return on a 1-year basis 9 out of 12 years and on a 3-year basis 7 of 10 periods

Special Opportunities 1-Year and 3-Year Returns¹



Source: State Street.

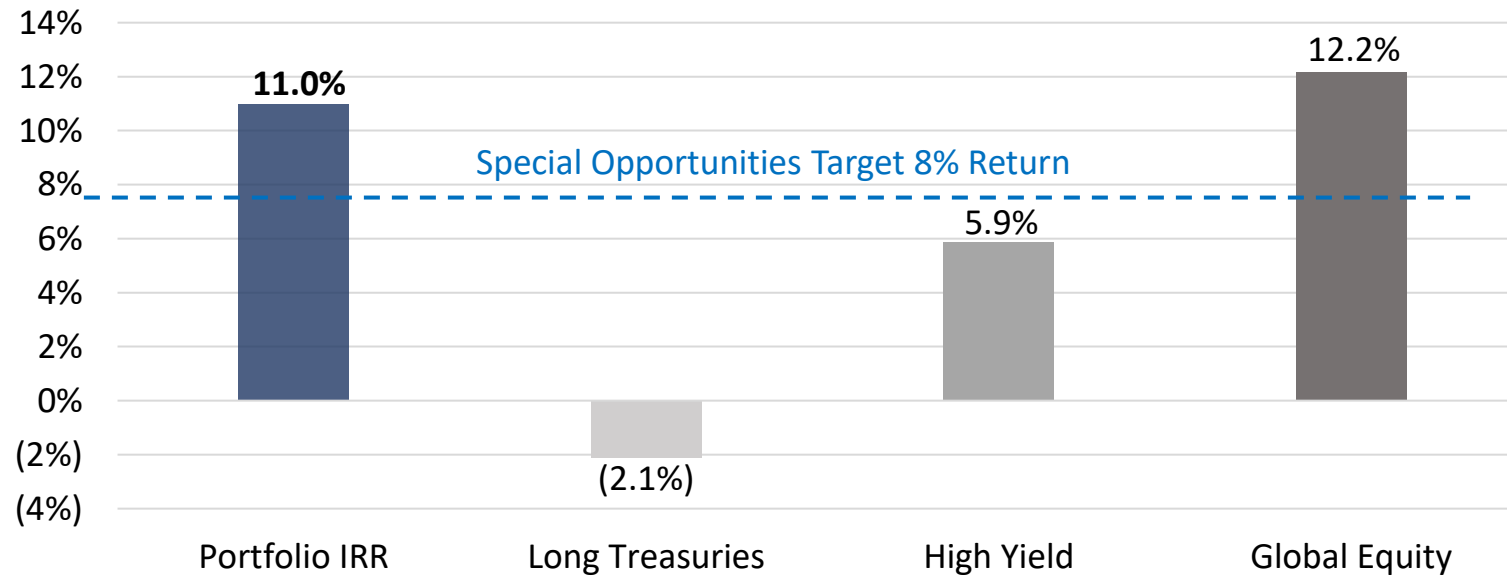
¹ Returns presented include Tactical Value from its inception in 2015. Special Opportunities began managing Tactical Value in March 2020.

Special Opportunities Performance Summary

\$ in Millions

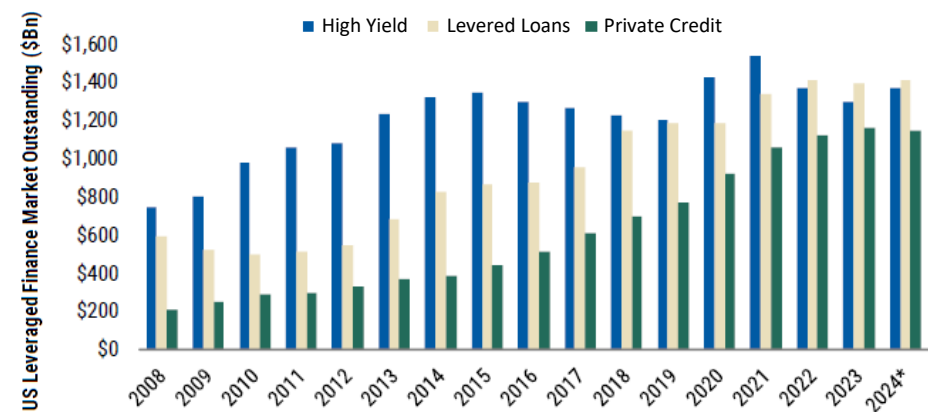
PORTFOLIO INVESTMENTS PERFORMANCE as of 12/31/24											
Portfolio	Market Value	Total Exposure	% of Exposure	Time Weighted Return				Internal Rate of Return			
				1-Year	3-Year	5-Year	Since Incept.	1-Year	3-Year	5-Year	Since Incept.
Funds	\$5,286	\$8,387	75%	15.1%	10.1%	11.3%	10.1%	13.8%	10.1%	10.8%	10.7%
Principal Investments	\$2,111	\$2,724	25%	19.3%	11.1%	9.1%	16.1%	19.9%	12.6%	10.8%	12.1%
Special Opportunities Assets	\$7,397	\$11,111	100%	16.2%	10.7%	11.1%	16.2%	15.3%	10.8%	10.8%	11.0%

Public Market Equivalent ("PME") Special Opportunities Benchmark Analysis Since Inception to 12/31/2024

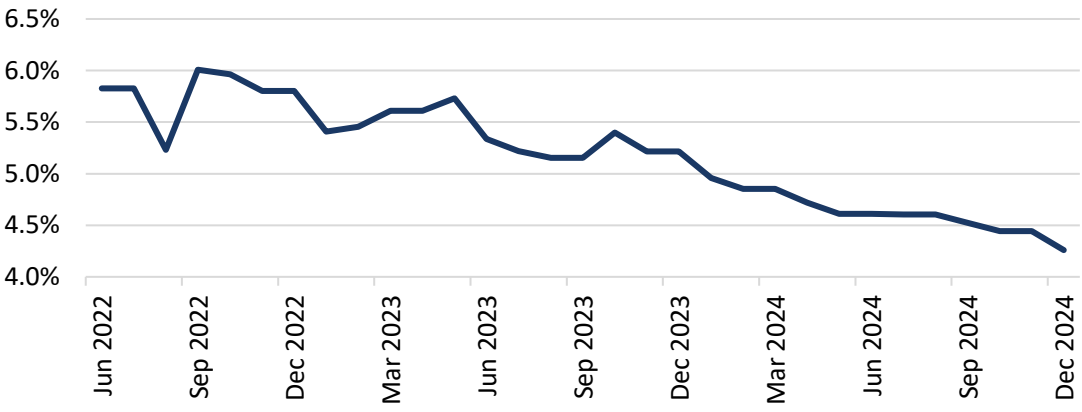


Current Conditions Favor Borrowers Not Lenders

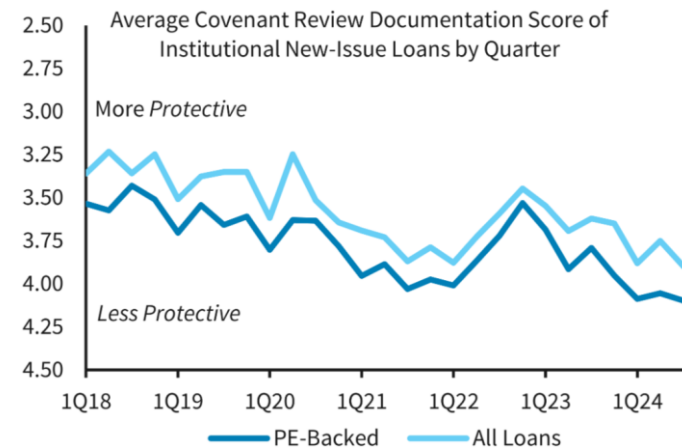
Rising Private Credit Invested Assets



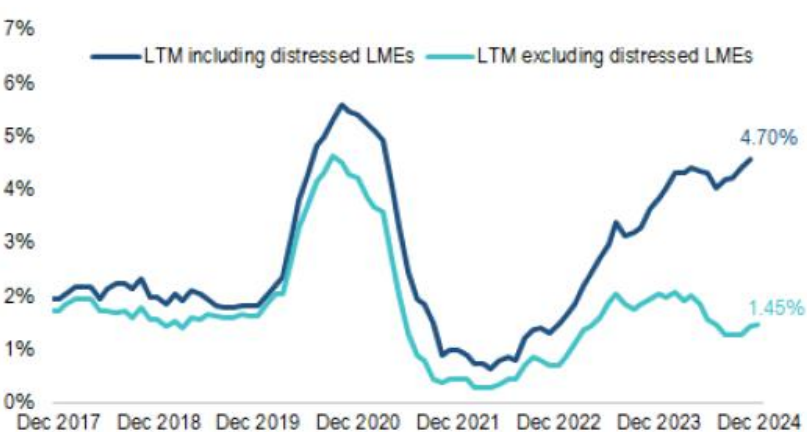
Tightened Loan Spreads



Less Protective Loan Documentation



Higher Lender Willingness to Modify Terms



Special Opportunities Areas of Interest

- Opportunities where we are seeing excess compensation or solving a problem with modest complexity:
 - GP/LP Solutions
 - Warehousing
 - Maturing Credit
 - Capital Solutions
- We are preparing to be opportunistic in any volatility that may present in the markets:
 - Restructuring existing vehicles for deployment flexibility
 - Identifying investment managers for niche markets
 - Creating innovative investment vehicles to capture short-term opportunities

Summary: Special Opportunities Portfolio Assessment

Portfolio Goal		Status (12/31/24)
<input checked="" type="checkbox"/> Deliver an 8% IRR over a 3-year basis	➡	<ul style="list-style-type: none">Exceeded return target 7 out of 10 periods since inceptionSince inception IRR 11.0%
<input checked="" type="checkbox"/> Scale portfolio up/down opportunistically	➡	<ul style="list-style-type: none">Deployed \$18.5B since inception with a NAV of \$7.4BReturned \$2.4B of capital in 2024Designed capacity structures to be ready to invest when compelling (\$4.5B dry powder available)
<input checked="" type="checkbox"/> Capture unique and niche investments	➡	<ul style="list-style-type: none">Deployed into Asset-Backed Financing, NAV Loans, Synthetic Risk Transfers, Hedge Fund Co-investments, Appraisal Rights, and Real Estate Construction Loans
<input checked="" type="checkbox"/> Act as innovation agent for the IMD	➡	<ul style="list-style-type: none">Implemented TRS custom fundsFormed TRS standard structure & terms for co-investingCreated CLO platformEstablished warehousing relationshipsSourced investments for other IMD teams

APPENDIX

Organization

Special Opportunities Team

7

Advanced degrees
and certifications

Members of
the Special
Opportunities
Investment
Committee



Ashley Baum, CFA, CPA
Managing Director
Head of Special Opportunities
MPA, Accounting
University of Texas at Austin



Oscar Hakenäs
Senior Associate
BS, IT and Financial Mathematics
KTH Royal Institute of Technology



Carl Spansk, CFA, CAIA
Associate
MS, Finance
University of Texas at Austin



Dave Seremek
Associate
BS, Business
Indiana University



Zachary Hong
Senior Analyst
BBA, Finance
Emory University



Drew Gambrell
Senior Analyst
MS, Finance
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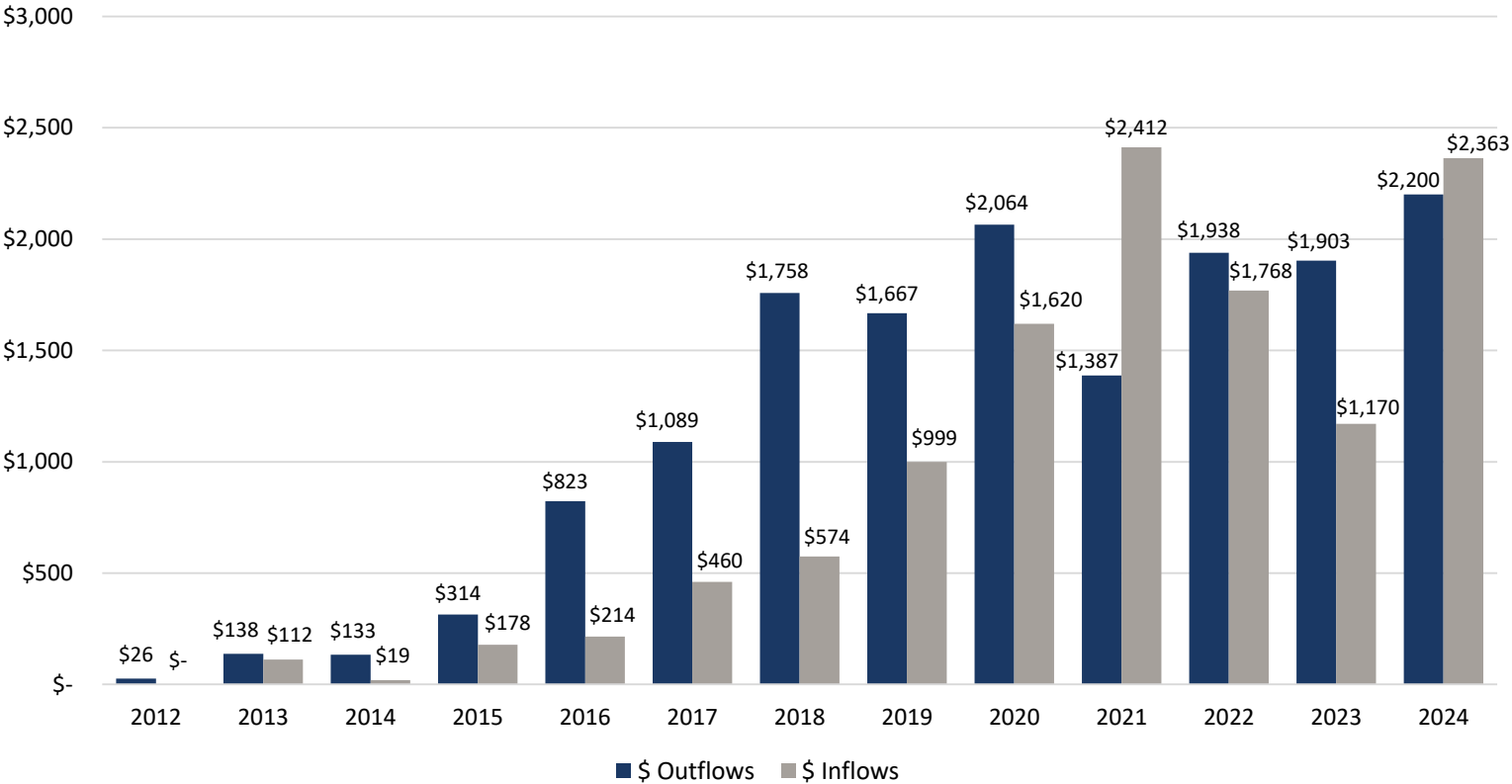
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Opportunistic Deployment

Net Cash Outflows and Inflows by Year

- SO does not deploy capital unless the opportunity set is compelling
- This opportunistic and variable deployment is unique in the Trust
- SO investments have a faster cash flow cycle than private markets generally
- SO total invested amount (\$18.5 billion) is much larger than current market value (\$7.4 billion)
- SO has seen a net cash inflow (distribution) of \$163 million for the 2024 calendar year.

Historical Annual Cash Outflows and Inflows (\$ Millions)¹



¹ Cash flows presented include Tactical Value from its inception in 2015. Special Opportunities began managing Tactical Value in March 2020. The chart shows cash flows netted at the transaction level to remove the impact of capital recycling. ² Cumulative net outflows shown in chart equal \$15.5B; however total capital invested is \$18.5B as of 12/31/24 as it includes capital recycling.

Source: State Street, TRS IMD