

December 2, 2024



# SITFO Board of Trustees

---

Quarterly Meeting

# Open Session Day 1 – Zoom

## Registration

# SITFO Summit

## AGENDA

Anchor Location	Zermatt Utah Resort & Spa - 784 W Resort Dr, Midway, UT 84049
Webinar Registration – Day 1	<a href="https://utah-gov.zoom.us/webinar/register/WN_e6DAnJTLSVs2fEZrzqYiA">https://utah-gov.zoom.us/webinar/register/WN_e6DAnJTLSVs2fEZrzqYiA</a>
Webinar Registration – Day 2 Open Session 1	<a href="https://utah-gov.zoom.us/webinar/register/WN_rnHRHsbpQGKyPHTDSt7Tmg">https://utah-gov.zoom.us/webinar/register/WN_rnHRHsbpQGKyPHTDSt7Tmg</a>
Webinar Registration – Day 2 Open Session 2	<a href="https://utah-gov.zoom.us/webinar/register/WN_TY1lrZgkR6qv_KTjFas2Jg">https://utah-gov.zoom.us/webinar/register/WN_TY1lrZgkR6qv_KTjFas2Jg</a>

### Day 1 – Monday, December 2, 2024

1. Breakfast in St. Moritz (Start at 8:00 AM)
2. Open Session – Call the Meeting to Order (Davos - 9:00 AM)
  - (a) Introductions from Ryan Kulig and Housekeeping Announcements
  - (b) Warm Up Activity, *Bahaa Chmait - JOYMOB*
3. What's Next for Capital Allocators? The Total Portfolio Approach, John Bowman, CEO, CAIA (9:45 AM)
4. Break (10:45 AM)
5. Panel: Private Equity Perspectives and Strategic Partners, Chris Keller, Drew Schardt, and Kevin Hitchen (11:00 AM)
6. Lunch in St Moritz (12:00 PM)
7. Bring Meeting Back to Order (Davos - 12:45 PM)
  - (a) Warm Up Activity, *Bahaa Chmait - JOYMOB*
8. Asset Allocation/IPS Presentation (1:00 PM)
9. Leave for Networking Activity (2:50 PM)
  - (a) MoodyBlu Express, Meet at Front Loop of Zermatt Resort
10. Networking Activity - Heber Valley Artisan Cheese (920 River Rd, Midway, UT 84049) (3:00PM)
11. Return to Zermatt Resort & Spa (5:00 PM)
  - (a) MoodyBlu Express, Meet at Dropoff Location
12. Summit Awards Dinner (Interlaken - 6:00 PM)
  - (a) Beneficiaries Presentation, Jessie Stuart, Assistant Director, LTPAO
  - (b) SITLA Overview from Michelle E McConkie, Executive Director, TLA
  - (c) Friend of the Trust Award Presentation (Kim Christy, Paula Plant, Marlo Oaks)

### Day 2 – Tuesday, December 3, 2024

1. Breakfast in St Moritz (Start at 8:00 AM)
2. Open Session – Call the Meeting to Order (Davos - 9:00 AM)
  - (a) Administrative
    - (i) Recap and Approval of Minutes from August 6, 2024, *SITFO (action item)*
    - (ii) Board Meeting Schedule for FY 26 and FY 27, *SITFO*
    - (iii) Elect Vice Chair, *Trustees (action item)*
    - (iv) LTPAO Update, *LTPAO*
  - (b) Finance Committee Updates (9:20 AM)
    - (i) Annual Audit Review, *SITFO, Auditors*
    - (ii) FY 24 and 25 Trust Budgeting and Expenses, *SITFO, Finance Committee*
  - (c) Performance and Risk Reporting (10:20 AM)
    - (i) Executive Summary, *SITFO, RVK*
  - (d) Asset Allocation / IPS Adoption and Approval (10:50 AM), *SITFO (action item)*
  - (e) Investment Beliefs Approval, *SITFO (action item)*
  - (f) Closing Statement for Public Attendees, Peter Madsen (12:10 PM)
3. Lunch (St Moritz - Start at 12:15 PM)
4. Closed Session (Davos - Start at 12:45 PM) *(action item)*
  - (a) Growth Structure Review – As Authorized by Utah Code Section 53D-1-304(6), *SITFO, Albourne, RVK*
    - (i) Private Equity Asset Class Structure
    - (ii) Public Equity Asset Class Structure
  - (b) Chief Investment Officer Review
    - (i) As Authorized by Utah Code Section 52-4-205(1)(a), *Trustees, CIO*
5. Open Session (Start at 3:00 PM)
  - (a) Adjourn *(action item)*



# Exhibit A



December 2024



# Asset Allocation

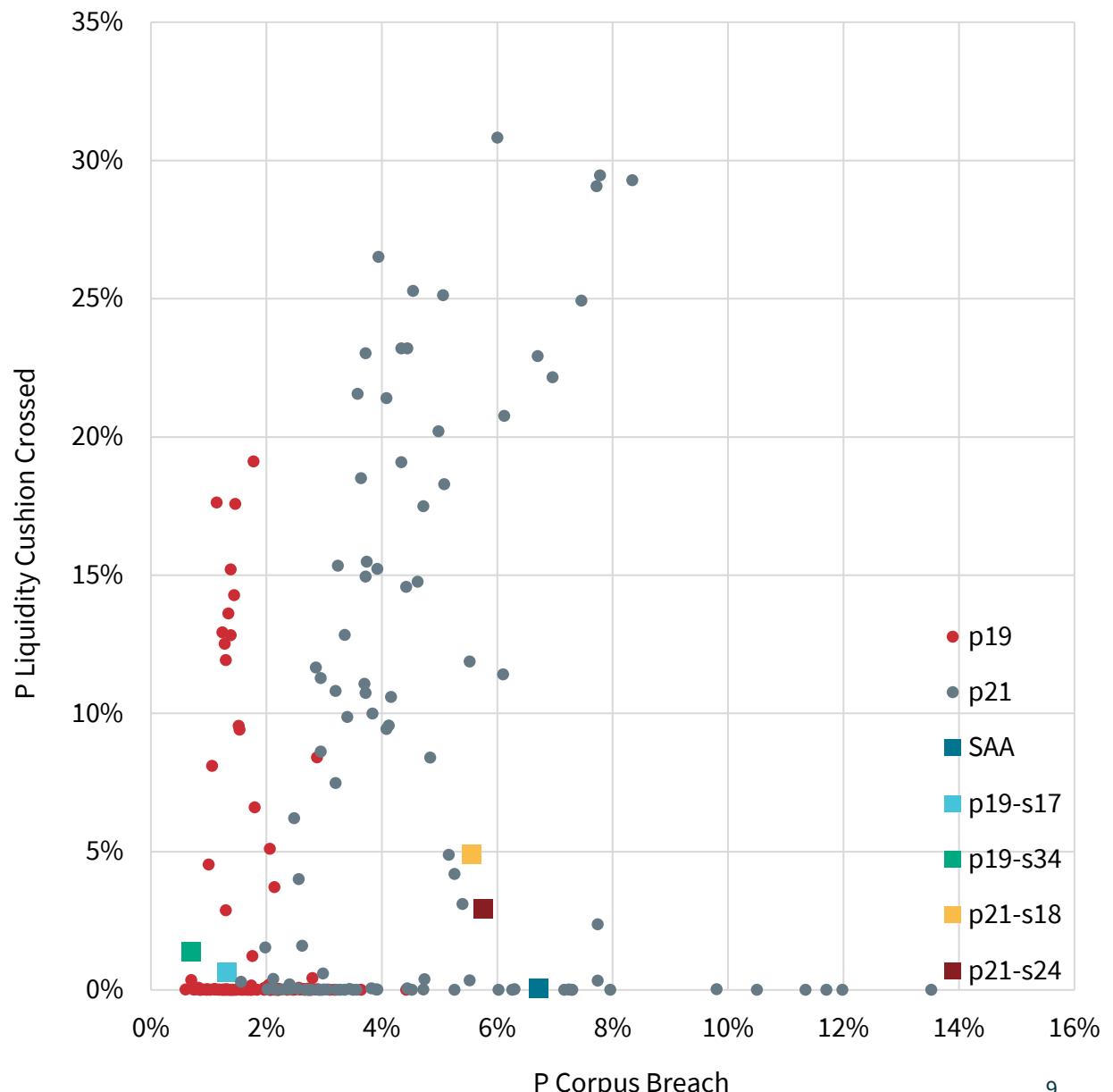
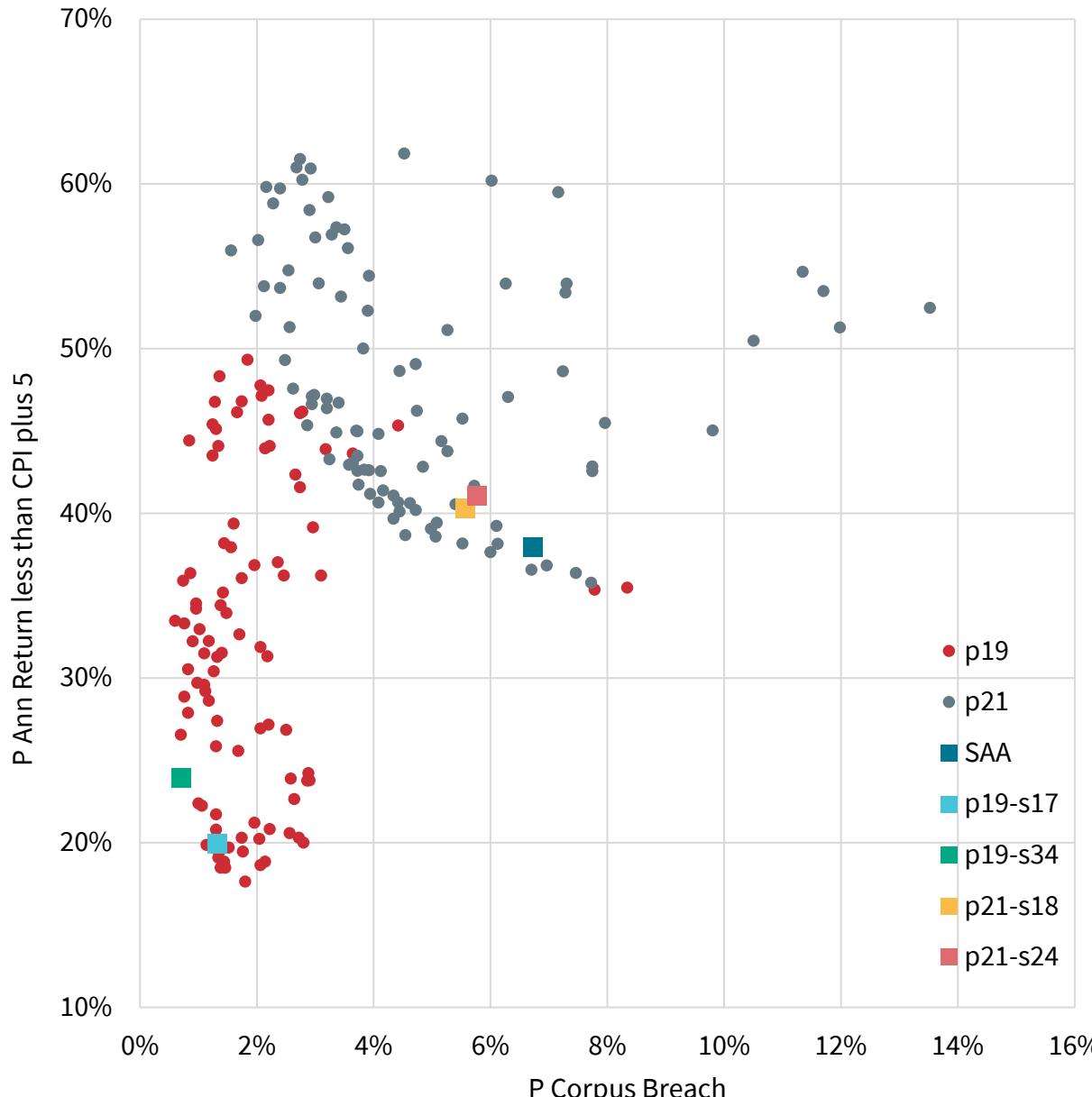
---

Day One

- Why a multivariate model?
- Optimization objectives
  - Probability of failing to beat CPI+5%
  - Probability of a corpus breach
  - Probability of liquid assets falling below two years of forward liabilities
- Simulation
  - Includes the transition from current SAA to new portfolio

- 4% vs 5% distribution impacts on portfolio objectives
  - 5% distribution raises corpus risk due to smaller compounding earnings cushion
- Unconstrained frontiers
  - Agnostic view (historical mean with noise)
  - CMA view
- Our utility criteria
  - Our acceptable probabilities around objectives
- Model Constraints
  - Public Equity floor
  - Defensive cap
  - Bias towards our current SAA

# Unconstrained Frontiers with 5% Beneficiary Distribution



## Key Portfolios from Unconstrained Frontiers

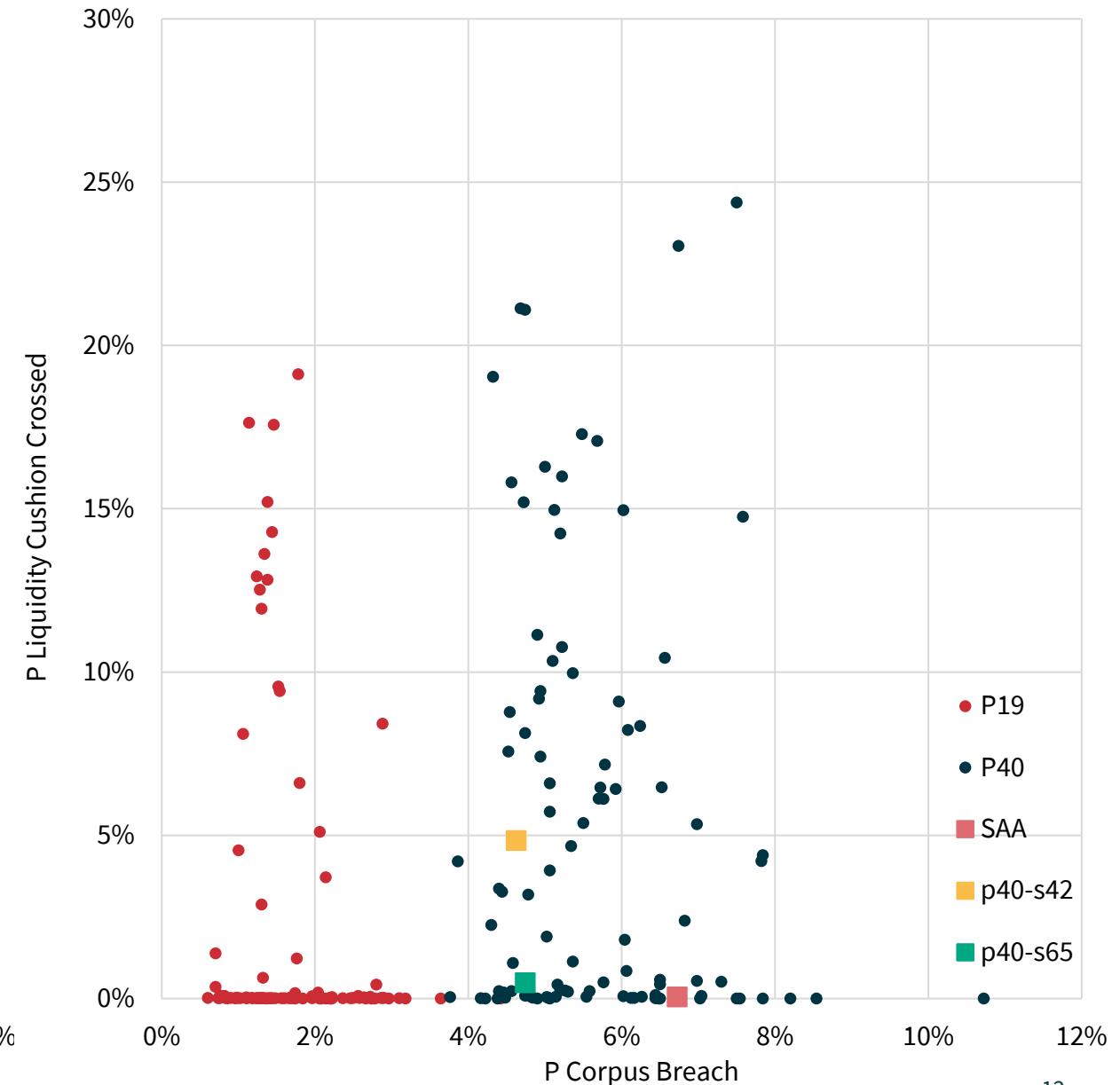


- The agnostic frontier favors Public Income and Defensive for liquidity and diversification while choosing private markets for return over Public Equity
- The CMA frontier favors Public and Private Income over other asset classes based on their relatively favorable risk adjusted return assumptions

(%) Allocation	P19-S17	P19-S34	P21-S18	P21-S24
	Agnostic		CMA	
<b>Growth</b>	<b>26.2</b>	<b>17.4</b>	<b>16.0</b>	<b>15.6</b>
Public Equity	0.2	0.1	2.5	2.5
Private Equity	26.0	17.3	13.5	13.1
<b>Real Assets</b>	<b>4.6</b>	<b>15.5</b>	<b>7.5</b>	<b>7.3</b>
Public Real Assets	2.3	0.8	7.4	7.3
Private Real Assets	2.3	14.6	0.0	0.0
<b>Income</b>	<b>34.9</b>	<b>37.9</b>	<b>65.0</b>	<b>63.4</b>
Public Income	21.5	24.9	37.5	36.6
Private Income	13.4	13.0	27.5	26.8
<b>Defensive</b>	<b>34.2</b>	<b>29.3</b>	<b>11.5</b>	<b>13.6</b>
GRIPs	17.7	20.2	8.5	11.4
Systematic Convexity	16.6	9.1	3.0	2.2
<b>Total Private Markets</b>	<b>41.8</b>	<b>44.9</b>	<b>41.0</b>	<b>40.0</b>
P Ann. Ret < CPI + 5%	20.0%	23.9%	40.3%	41.1%
P Corpus Breach	1.3%	0.7%	5.6%	5.8%
P Liquidity Cushion X	0.6%	1.4%	4.9%	2.9%

- Starting from the unconstrained frontiers, begin to apply biases
  - Avoid radical allocation differences from our current SAA
    - Our current SAA is a good portfolio
    - Large changes can create operational difficulties
- Modeled constraints
  - Hard floor on public equities of 20%
  - Range fit to our current SAA but with a Defensive allocation of 0%

# Constrained Frontier with 5% Beneficiary Distribution

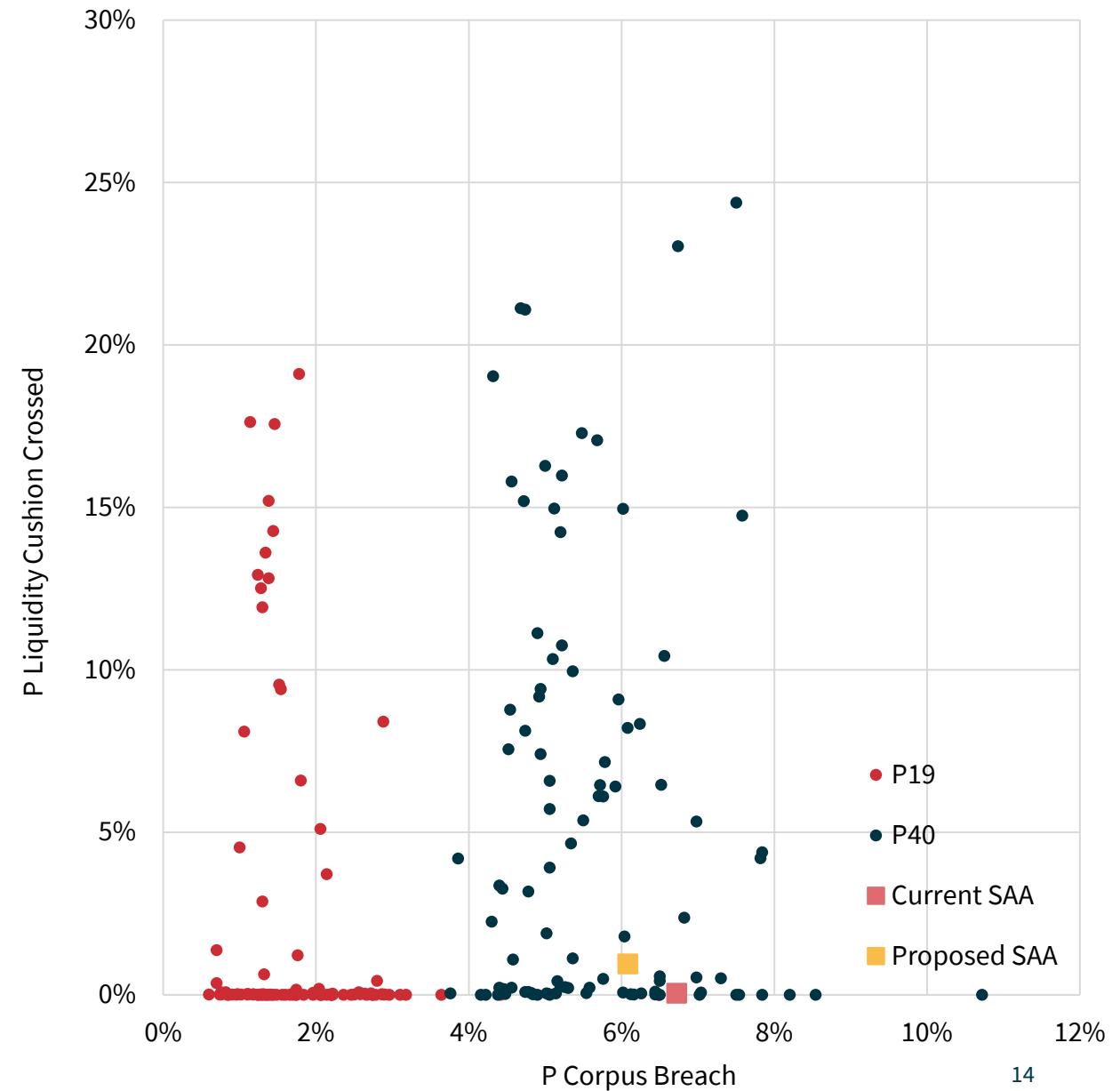
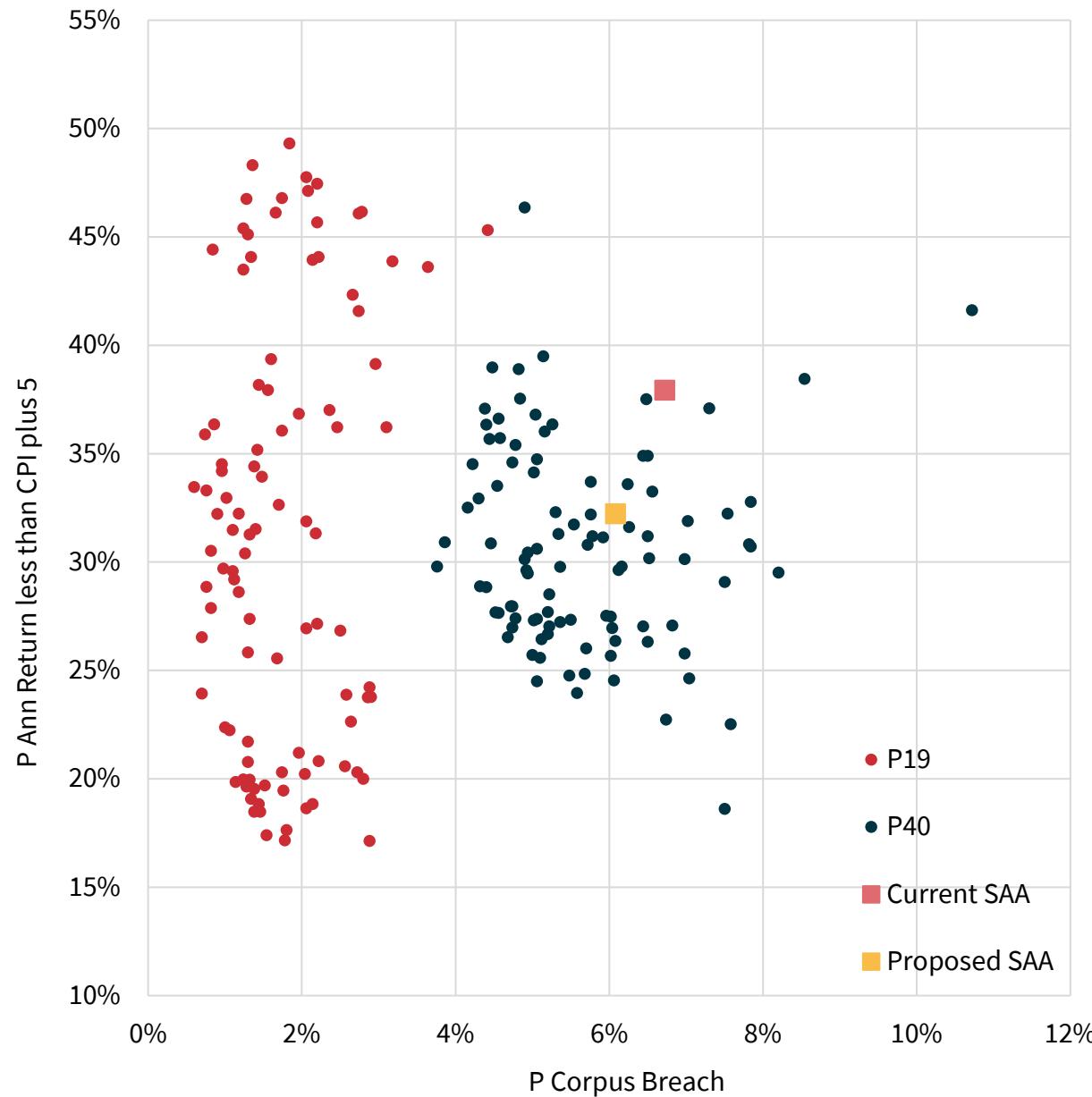


## Optimized Portfolios Relative to the Current SAA



(%) Allocation	P19-S17	P19-S34	P40-S42	P40-S65	Current SAA
	Unconstrained		Constrained		
<b>Growth</b>	<b>26.2</b>	<b>17.4</b>	<b>39.4</b>	<b>40.0</b>	<b>43.5</b>
Public Equity	0.2	0.1	20.1	21.6	30.5
Private Equity	26.0	17.3	19.3	18.4	13.0
<b>Real Assets</b>	<b>4.6</b>	<b>15.5</b>	<b>12.7</b>	<b>17.9</b>	<b>17.5</b>
Public Real Assets	2.3	0.8	3.2	5.7	5.0
Private Real Assets	2.3	14.6	9.4	12.2	12.5
<b>Income</b>	<b>34.9</b>	<b>37.9</b>	<b>35.7</b>	<b>29.7</b>	<b>27.0</b>
Public Income	21.5	24.9	20.8	19.7	17.0
Private Income	13.4	13.0	14.9	10.0	10.0
<b>Defensive</b>	<b>34.2</b>	<b>29.3</b>	<b>12.2</b>	<b>12.5</b>	<b>12.0</b>
GRIPs	17.7	20.2	4.0	4.6	5.0
Systematic Convexity	16.6	9.1	8.2	7.9	7.0
<b>Total Private Markets</b>	<b>41.8</b>	<b>44.9</b>	<b>43.6</b>	<b>44.9</b>	<b>35.5</b>
P Ann. Ret < CPI + 5%	20.0%	23.9%	29.5%	31.8%	37.9%
P Corpus Breach	1.3%	0.7%	4.6%	4.7%	6.7%
P Liquidity Cushion X	0.6%	1.4%	4.8%	0.5%	0.1%

## Frontiers with the Proposed SAA



## Proposed SAA



- The proposed SAA is inspired by the constrained frontier while still trying to increase Public Equity allocations without increasing Defensive
- Given this new allocation, we can improve the probability of meeting/exceeding our return objective with a similar risk profile to our current SAA

(%) Allocation	Current SAA	Proposed SAA	70/30
<b>Growth</b>	<b>43.5</b>	<b>45.0</b>	
Public Equity	30.5	25.0	
Private Equity	13.0	20.0	
<b>Real Assets</b>	<b>17.5</b>	<b>15.0</b>	
Public Real Assets	5.0	5.0	
Private Real Assets	12.5	10.0	
<b>Income</b>	<b>27.0</b>	<b>30.0</b>	
Public Income	17.0	20.0	
Private Income	10.0	10.0	
<b>Defensive</b>	<b>12.0</b>	<b>10.0</b>	
GRIPs	5.0	3.0	
Systematic Convexity	7.0	7.0	
<b>Total Private Markets</b>	<b>35.5</b>	<b>40.0</b>	
P Ann. Ret < CPI + 5%	37.9%	32.2%	70.0%
P Corpus Breach	6.7%	6.1%	35.3%
P Liquidity Cushion X	0.1%	1.0%	0.0%

## Optimization Objectives at Various Time Horizons



- The proposed SAA improves expected return while keeping volatility and drawdown similar to our current SAA
- Given the nature of the simulation, the probabilities of a corpus breach and liquidity risk increase through time
  - Shorter time frames show minimal risk and the longer horizon of 20 years is still a manageable probability of a corpus breach

	Current SAA	Proposed SAA	70/30
Median Ann. Ret	8.2%	8.6%	6.0%
Median Std. Dev	8.5%	8.4%	11.9%
Median MDD	-14.1%	-13.8%	-25.9%
5 <sup>th</sup> Percentile MDD	-31.0%	-31.2%	-51.3%

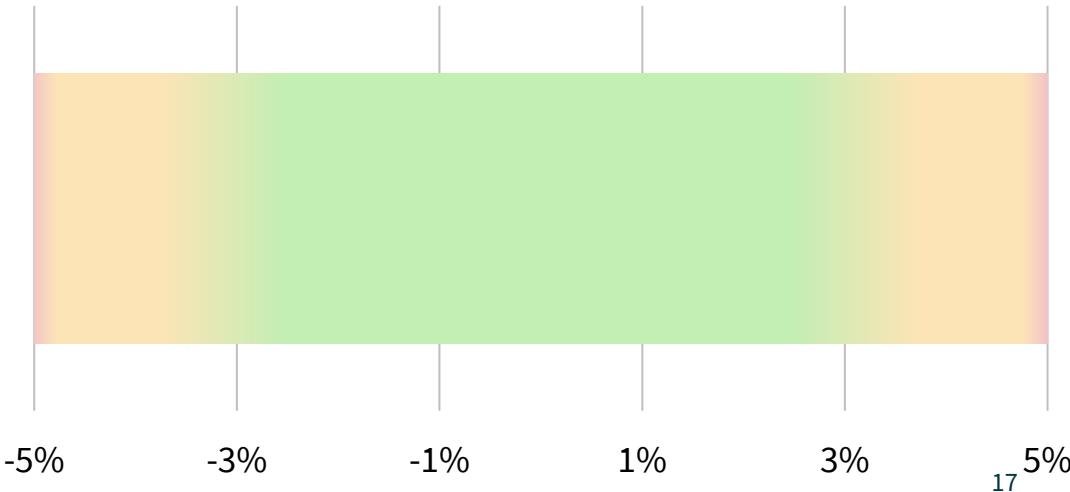
	Current SAA			Proposed SAA		
	5yr	10yr	20yr	5yr	10yr	20yr
P Ret < CPI+5%	42.3%	38.6%	37.9%	39.1%	34.4%	32.2%
P Corpus Breach	0.04%	1.98%	6.72%	0.16%	1.74%	6.08%
P Liquidity Cushion Crossed	0.00%	0.04%	0.05%	0.02%	0.59%	0.96%

# Strategic Asset Allocation Ranges

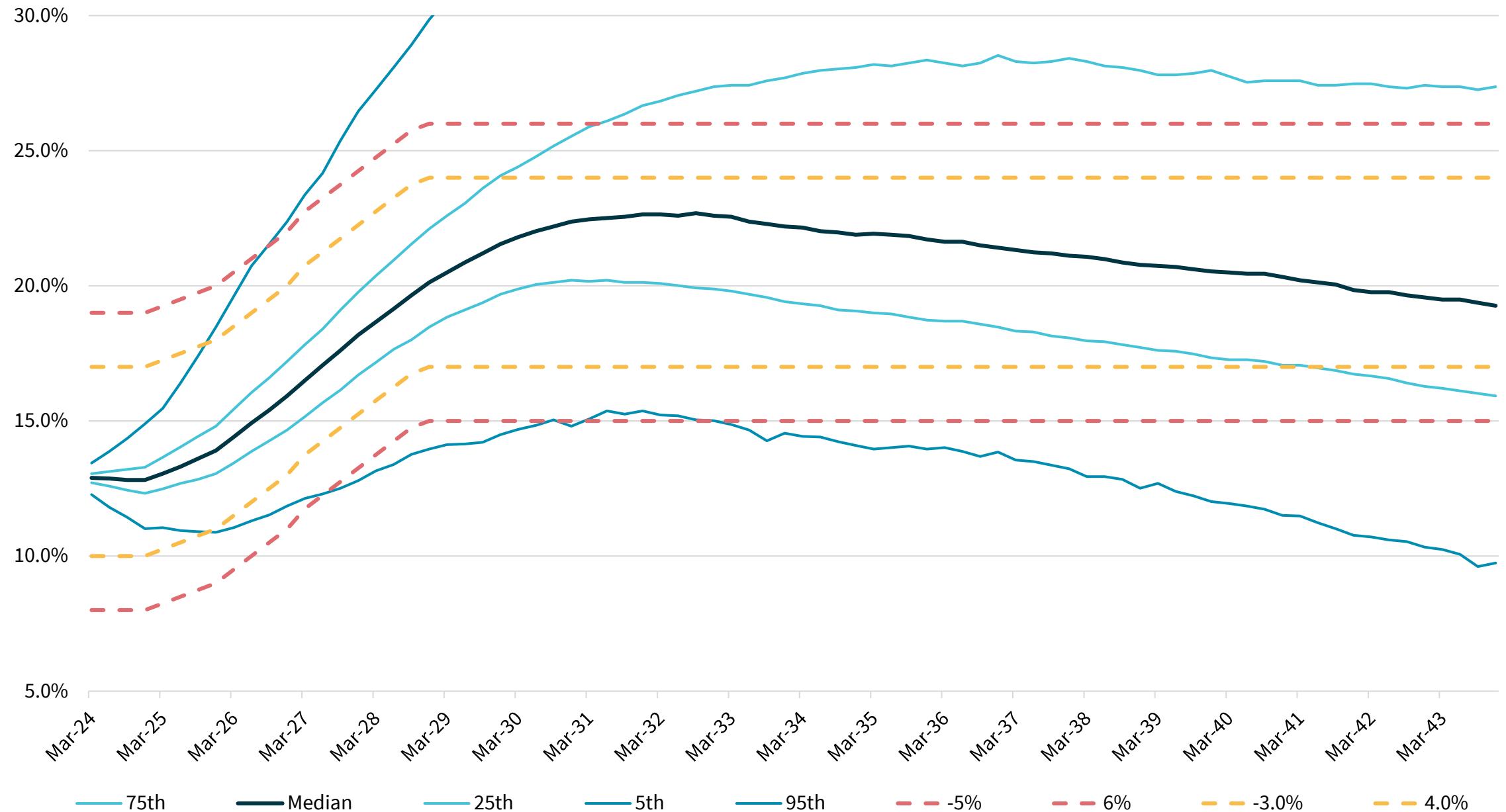


- We are proposing keeping the +/- 5% at the GRID level while allowing for larger ranges at the asset class level
- The tight GRID ranges keep the total portfolio risk exposures consistent while allowing the underlying to move between liquid and illiquid
- We are proposing a range gradient or scale to foster communication. The min and max ranges function as they do today, where any exceedance requires board approval

	Min	Proposed SAA	Max	
<b>Growth</b>	<b>-5.0%</b>	<b>-3.0%</b>	<b>45.0%</b>	<b>3.0%</b>
Public Equity	-6.0%	-4.0%	25.0%	3.0%
Private Equity	-5.0%	-3.0%	20.0%	4.0%
<b>Real</b>	<b>-5.0%</b>	<b>-3.0%</b>	<b>15.0%</b>	<b>3.0%</b>
Public Real Assets	-5.0%	-3.0%	5.0%	2.0%
Private Real Assets	-3.0%	-2.0%	10.0%	3.0%
<b>Income</b>	<b>-5.0%</b>	<b>-3.0%</b>	<b>30.0%</b>	<b>3.0%</b>
Public Income	-5.0%	-3.0%	20.0%	2.0%
Private Income	-3.0%	-2.0%	10.0%	3.0%
<b>Defensive</b>	<b>-5.0%</b>	<b>-3.0%</b>	<b>10.0%</b>	<b>3.0%</b>
GRIPs	-3.0%	-2.0%	3.0%	2.0%
Sys. Convexity	-4.0%	-2.0%	7.0%	2.0%
Cash	0.0%	0.0%	0.0%	0.0%



# Private Equity Simulated Weights & Ranges



# New Interim Benchmark



- Similar in concept to our current Interim Benchmark methodology
- Two Phases
  - Phase 1: Move GRIDs to target weights
  - Phase 2: Move asset classes to target weights

	Q0	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15	Q16
<b>Growth</b>	<b>45.0%</b>	<b>45.00%</b>															
Public Equity	34.00%	34.00%	33.75%	33.75%	33.75%	33.00%	33.00%	32.50%	31.50%	31.50%	31.00%	30.50%	30.25%	29.50%	29.50%	29.25%	28.75%
Private Equity	11.00%	11.00%	11.25%	11.25%	11.25%	12.00%	12.00%	12.50%	13.50%	13.50%	14.00%	14.50%	14.75%	15.50%	15.50%	15.75%	16.25%
<b>Real Assets</b>	<b>17.50%</b>	<b>17.25%</b>	<b>17.00%</b>	<b>16.75%</b>	<b>16.50%</b>	<b>16.25%</b>	<b>16.00%</b>	<b>15.75%</b>	<b>15.50%</b>	<b>15.25%</b>	<b>15.00%</b>						
Public Real Assets	5.00%	4.75%	4.50%	4.25%	4.25%	4.00%	4.00%	4.00%	4.00%	4.00%	4.00%	4.00%	4.25%	4.50%	4.75%	5.00%	5.00%
Private Real Assets	12.50%	12.50%	12.50%	12.50%	12.25%	12.25%	12.00%	11.75%	11.50%	11.25%	11.00%	10.75%	10.50%	10.25%	10.00%	10.00%	10.00%
<b>Income</b>	<b>27.50%</b>	<b>27.75%</b>	<b>28.00%</b>	<b>28.25%</b>	<b>28.50%</b>	<b>28.75%</b>	<b>29.00%</b>	<b>29.25%</b>	<b>29.50%</b>	<b>29.75%</b>	<b>30.00%</b>						
Public Income	19.00%	19.25%	19.25%	19.50%	19.25%	19.25%	19.50%	19.25%	19.50%	19.75%	20.00%	20.00%	20.00%	20.00%	20.00%	20.00%	20.00%
Private Income	8.50%	8.50%	8.75%	8.75%	9.25%	9.50%	9.50%	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%
<b>Defensive</b>	<b>10.00%</b>																
GRIPs	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%
Sys. Convexity	7.00%	7.00%	7.00%	7.00%	7.00%	7.00%	7.00%	7.00%	7.00%	7.00%	7.00%	7.00%	7.00%	7.00%	7.00%	7.00%	7.00%

Hypothetical SITFO Private Market Path - Weight Observed at the End of Period																	
Private Equity	10.7%	11.0%	11.1%	11.2%	11.7%	11.7%	12.3%	12.9%	13.4%	13.9%	14.3%	14.7%	15.3%	15.4%	15.6%	16.0%	16.6%
Private Real Assets	13.2%	12.8%	12.7%	12.4%	12.3%	12.2%	11.9%	11.6%	11.4%	11.2%	10.9%	10.7%	10.3%	10.1%	10.2%	10.3%	10.4%
Private Income	7.9%	8.6%	8.6%	9.0%	9.3%	9.4%	9.9%	9.9%	9.8%	10.2%	10.6%	11.2%	11.3%	11.4%	11.4%	11.4%	11.4%

Phase 1 In phase 1, GRID weights move to the new Long Term Target at prescriptive increments. Private markets move in step towards Long Term Target. Publics are the difference between GRID and Private.

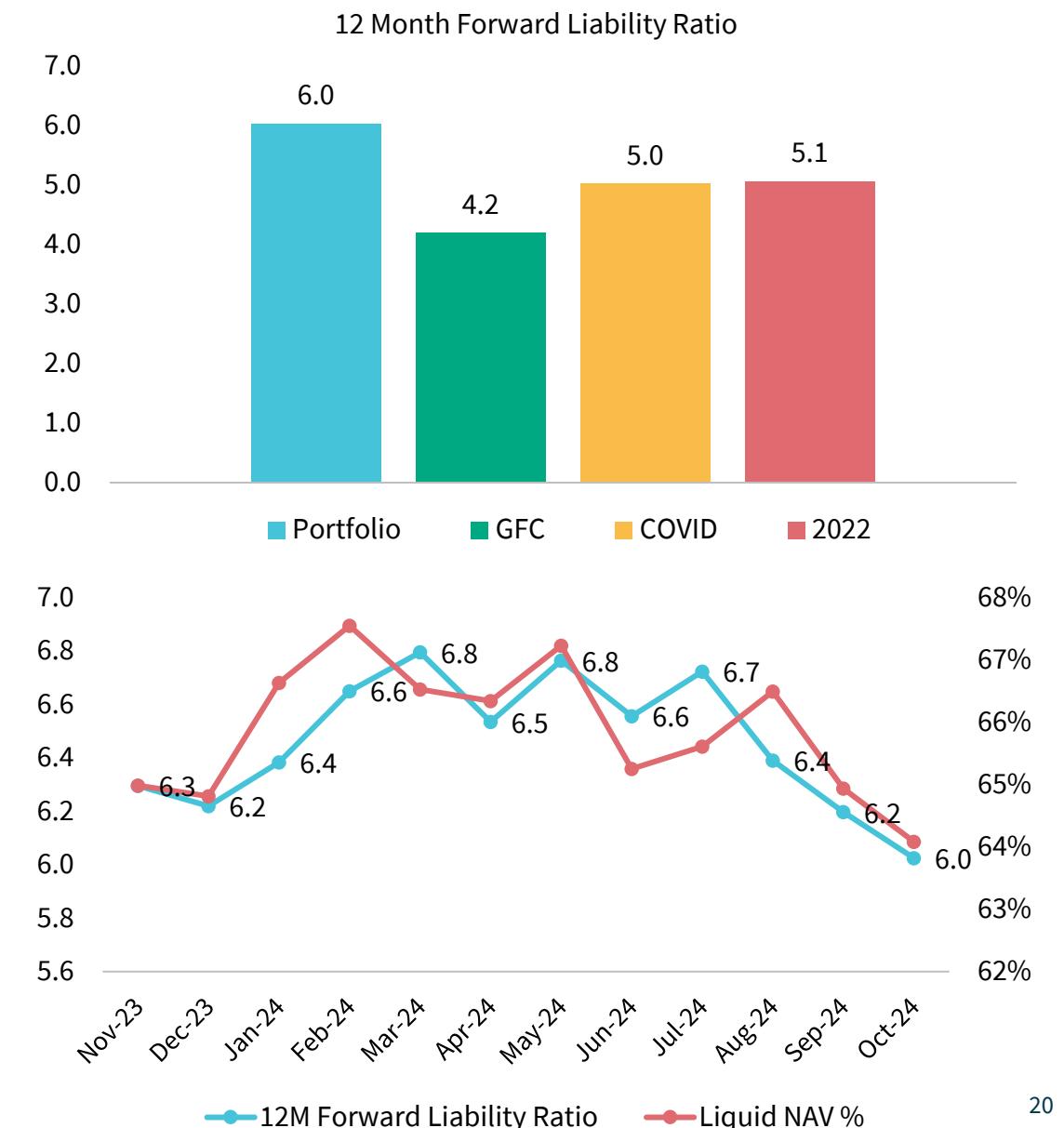
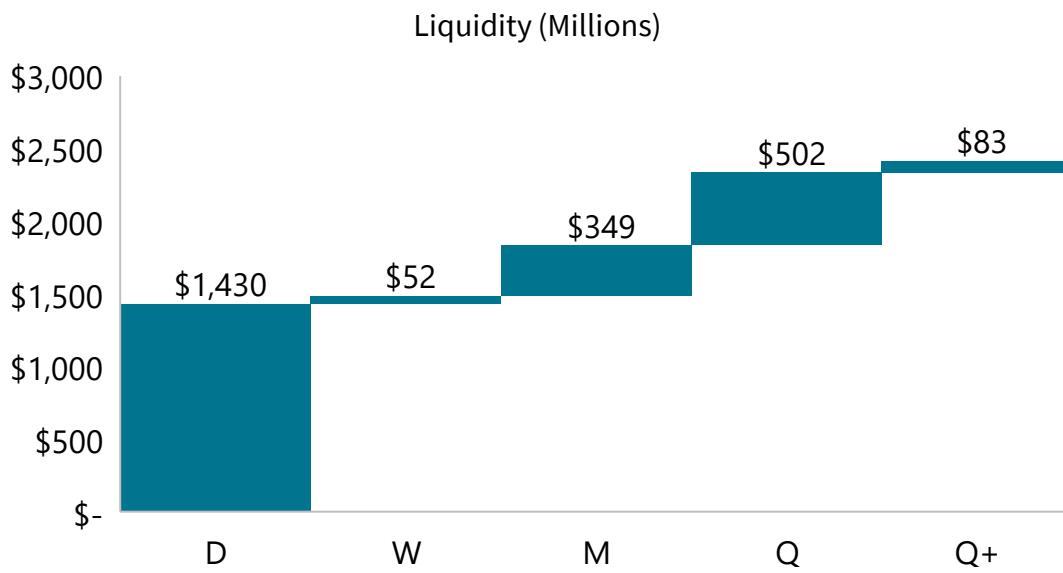
Phase 2 In phase 2, private market benchmarks moves toward the Long Term Target. Changes in private market target weights come from the public asset class within their respective GRID category.

At Long Term Target

# Internal Liquidity Monitoring



- Monthly liquidity report
  - Liquidity by frequency
  - Liability ratios with stressed scenarios
- Weekly cash report
  - Actual and expected cash flows for the next four weeks



# New Strategic Asset Allocation Table



Level		Min	Target	Max	Benchmark
<b>2</b>	<b>Growth</b>	<b>40%</b>	<b>45%</b>	<b>50%</b>	<b>Composite of Public and Private, Pro-Rata</b>
3	Public Equity	19%	25%	30%	MSCI ACWI IMI
3	Private Equity	15%	20%	26%	Cambridge Private Equity Composite
<b>2</b>	<b>Real Assets</b>	<b>10%</b>	<b>15%</b>	<b>20%</b>	<b>Composite of Public and Private, Pro-Rata</b>
3	Public Real Assets	0%	5%	8%	S&P Real Assets Index
3	Private Real Assets	7%	10%	15%	Cambridge Private Real Assets Composite
<b>2</b>	<b>Income</b>	<b>25%</b>	<b>30%</b>	<b>35%</b>	<b>Composite of Public and Private, Pro-Rata</b>
3	Public Income	15%	20%	23%	U.S. High Yield 1-3 Year Index
3	Private Income	7%	10%	15%	Cambridge Private Credit Composite
<b>2</b>	<b>Defensive</b>	<b>5%</b>	<b>10%</b>	<b>15%</b>	<b>Composite, Pro-Rata</b>
3	GRIPs	0%	3%	6%	Bloomberg 20-30 Year STRIP
3	Systematic Convexity	3%	7%	11%	75% Barclay BTOP 50 Index 25% HFRI Macro Index
3	Cash	0%	0%	3%	3Mo U.S T-Bill
<b>1</b>	<b>Total Portfolio</b>	<b>100%</b>			

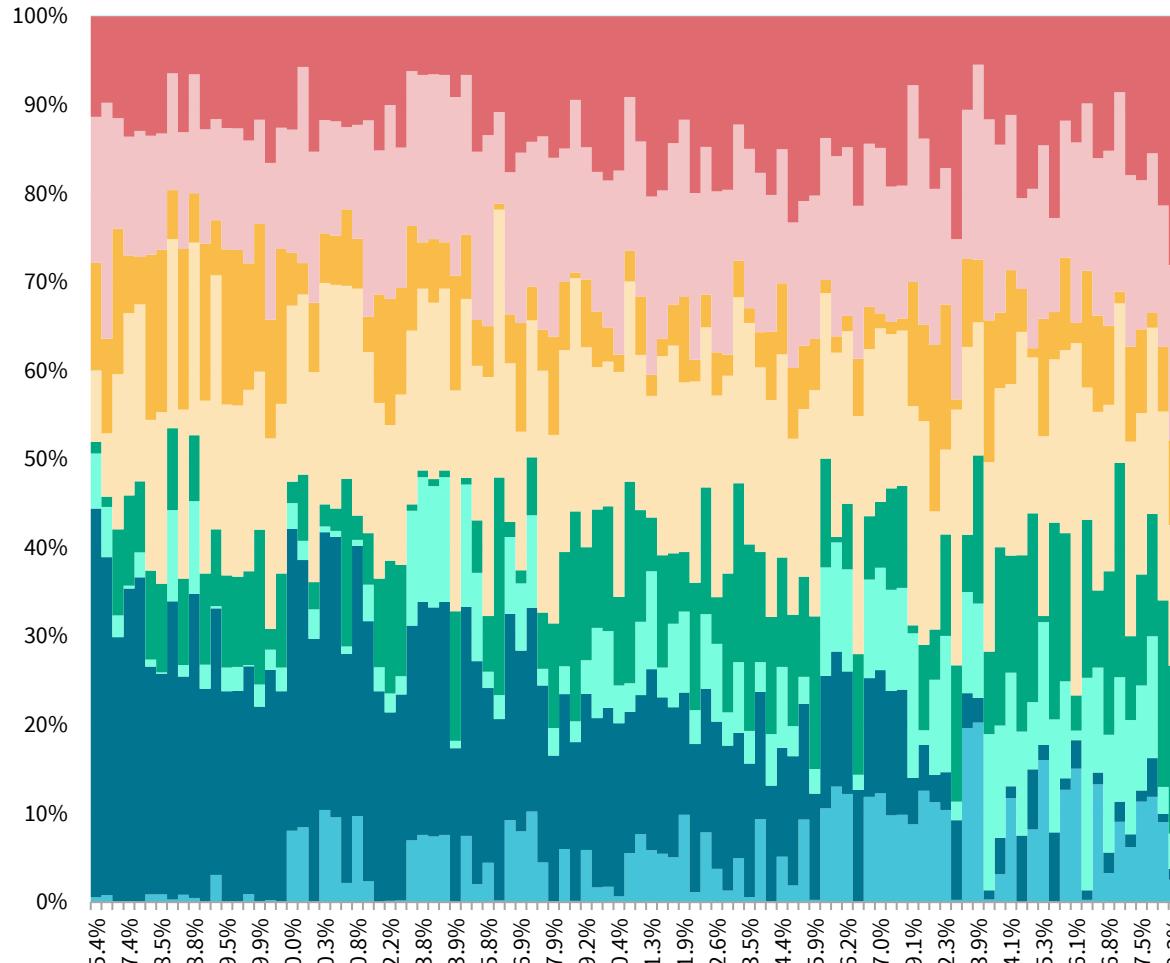
# Appendix

# Frontier Allocations

# Frontier Allocations – Probability of Return Less than CPI+5%



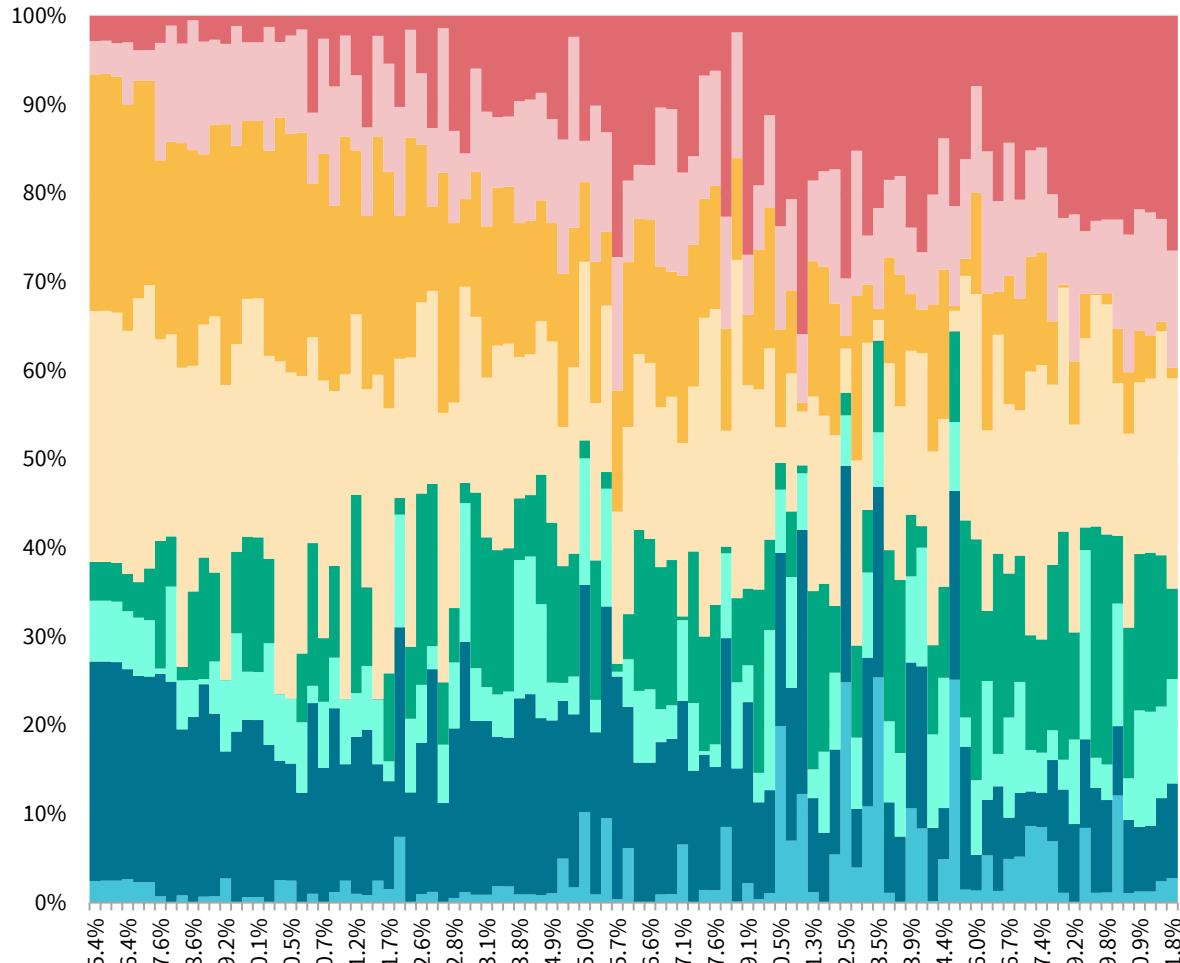
Agnostic Frontier Allocations



Probability of Return Less than CPI + 5%

- Public Equity
- Private Real Assets
- GRIPs
- Private Equity
- Public Income
- Systematic Convexity
- Public Real Assets
- Private Income

CMA Frontier Allocations



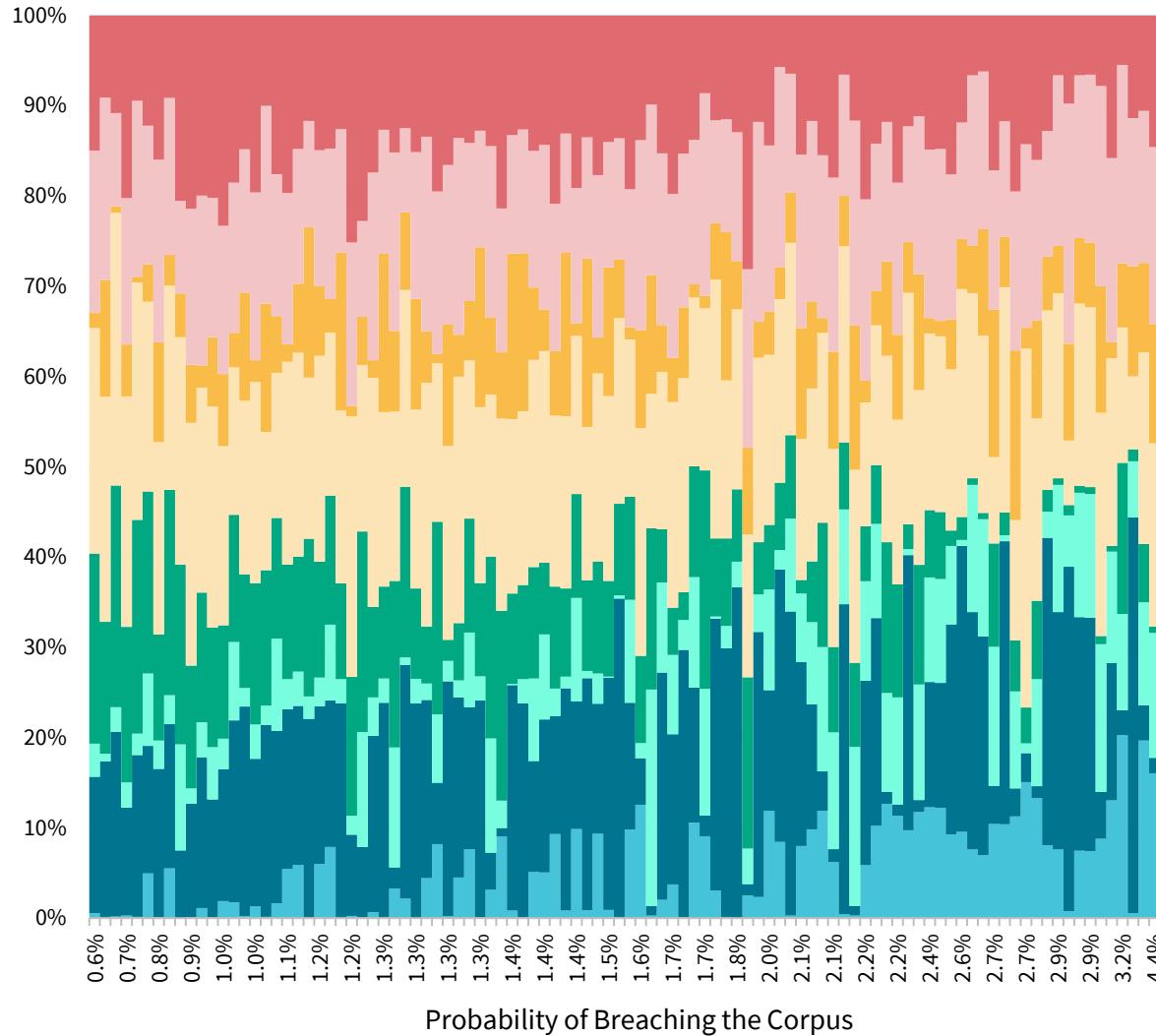
Probability of Return Less than CPI + 5%

- Public Equity
- Private Real Assets
- GRIPs
- Private Equity
- Public Income
- Systematic Convexity
- Public Real Assets
- Private Income

# Frontier Allocations – Probability of a Corpus Breach



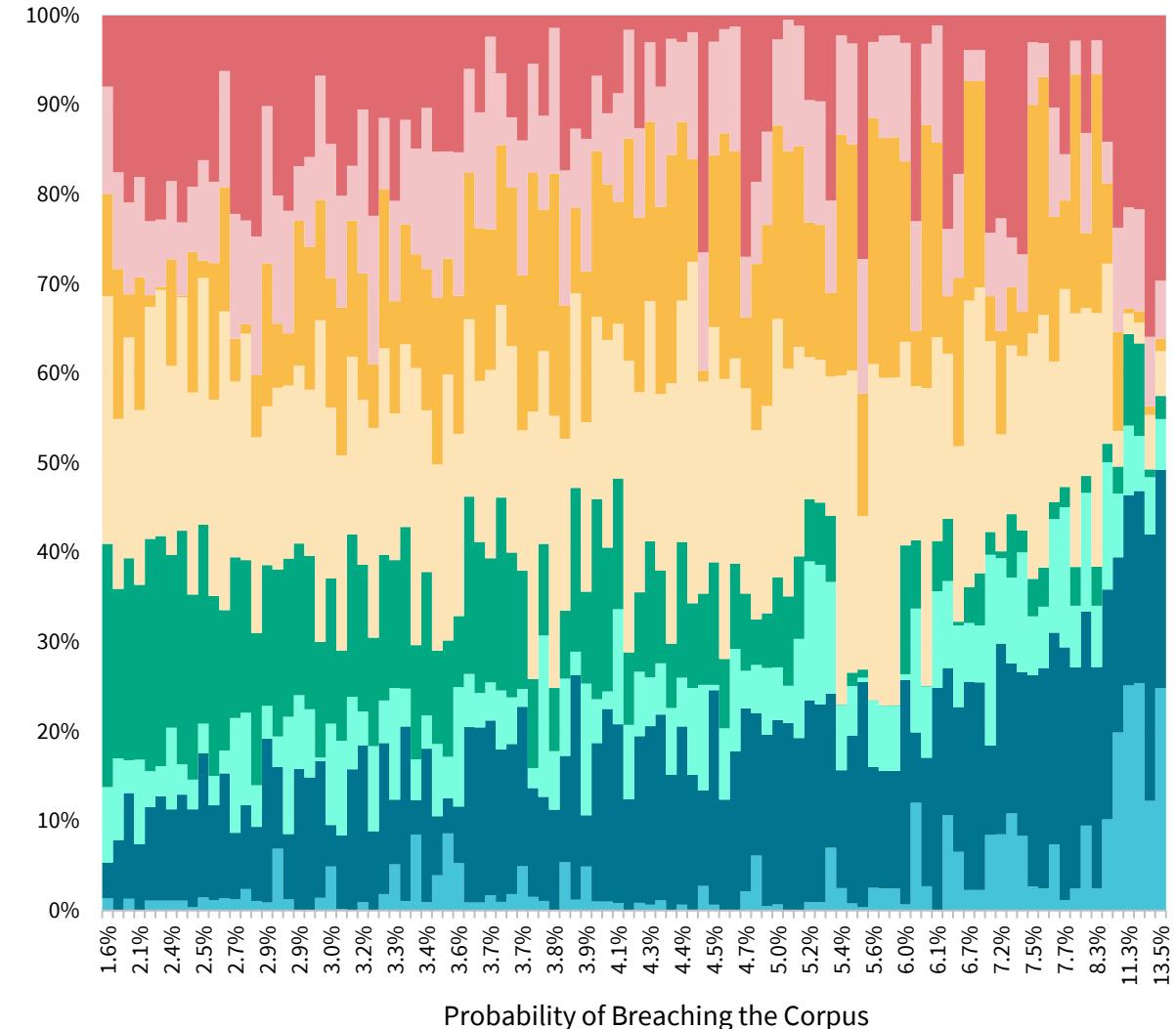
Agnostic Frontier Allocations



Probability of Breaching the Corpus

■ Public Equity	■ Private Equity	■ Public Real Assets
■ Private Real Assets	■ Public Income	■ Private Income
■ GRIPs	■ Systematic Convexity	

CMA Frontier Allocations



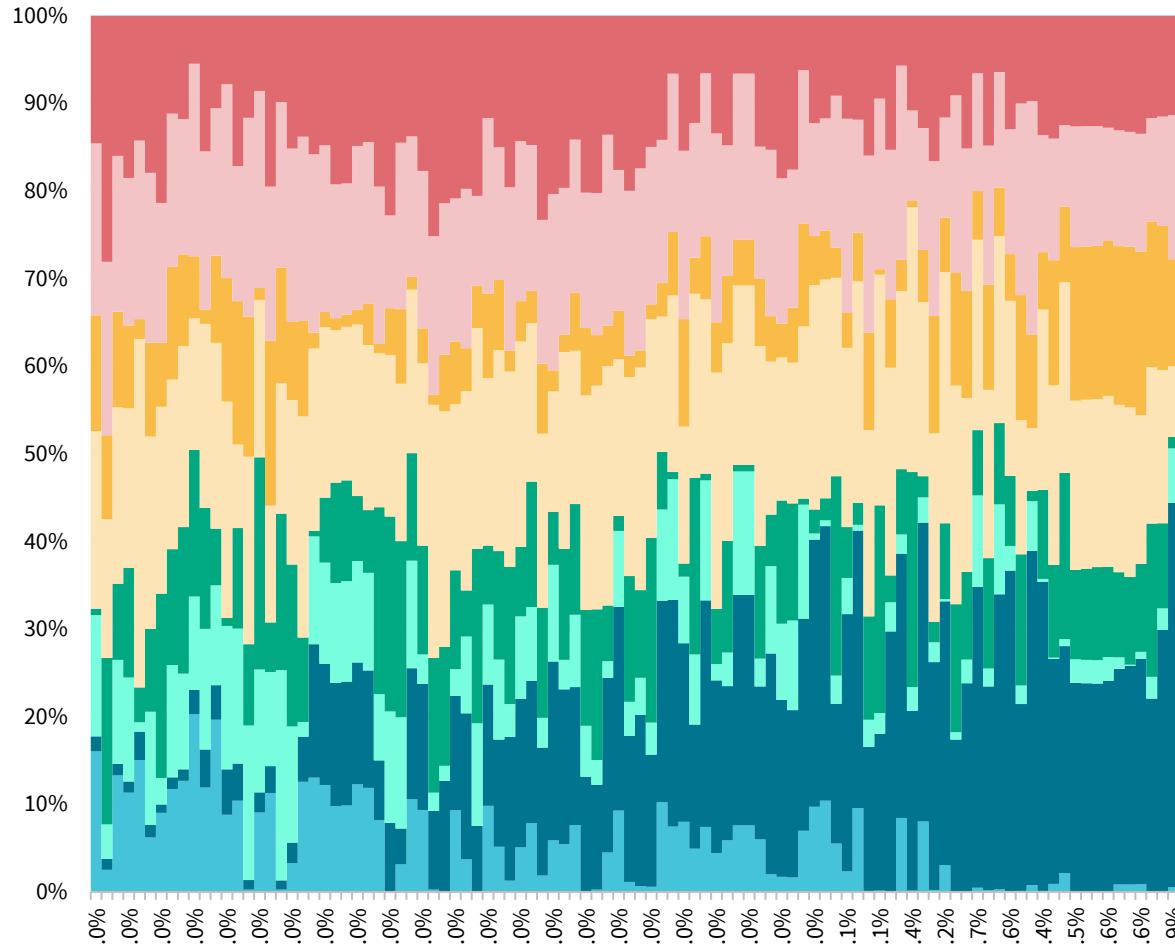
Probability of Breaching the Corpus

■ Public Equity	■ Private Equity	■ Public Real Assets
■ Private Real Assets	■ Public Income	■ Private Income
■ GRIPs	■ Systematic Convexity	

# Frontier Allocations – Probability of Liquidity Cushion Crossed



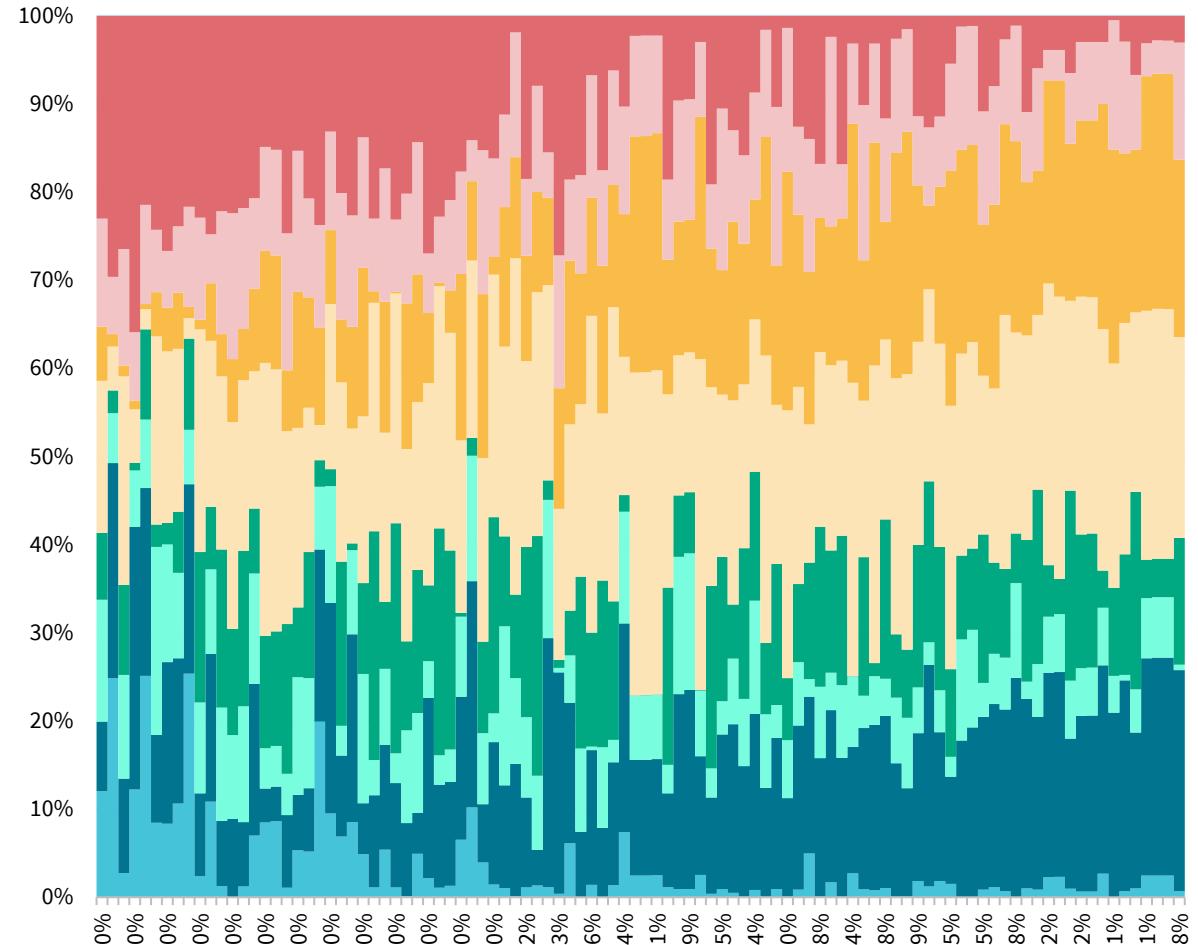
Agnostic Frontier Allocations



Probability of Liquidity Cushion Crossed

Public Equity	Private Equity	Public Real Assets
Private Real Assets	Public Income	Private Income
GRIPs	Systematic Convexity	

CMA Frontier Allocations



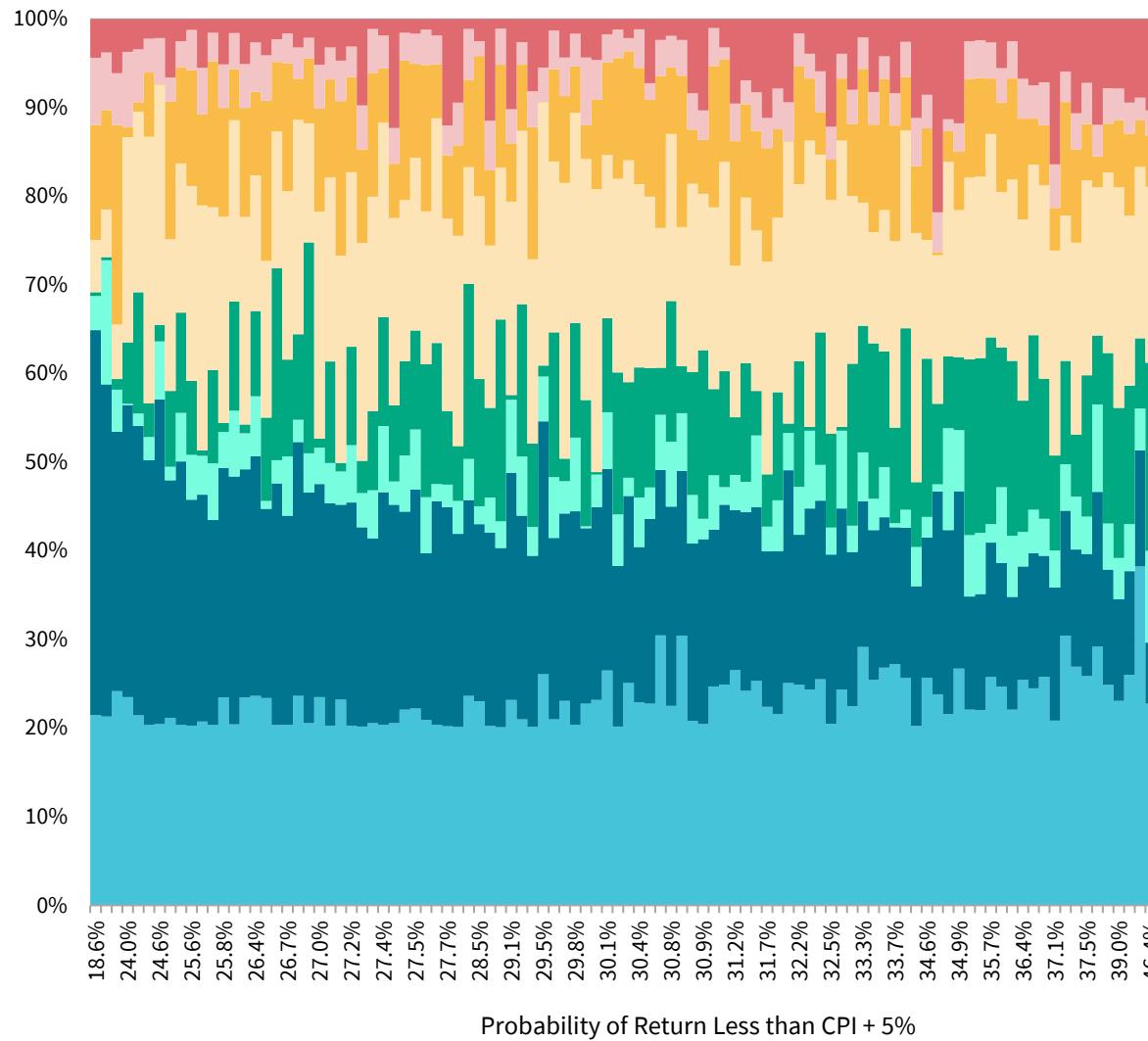
Probability of Liquidity Cushion Crossed

Public Equity	Private Equity	Public Real Assets
Private Real Assets	Public Income	Private Income
GRIPs	Systematic Convexity	

# Biased Frontier Allocations – Probability of Return Less than CPI+5%

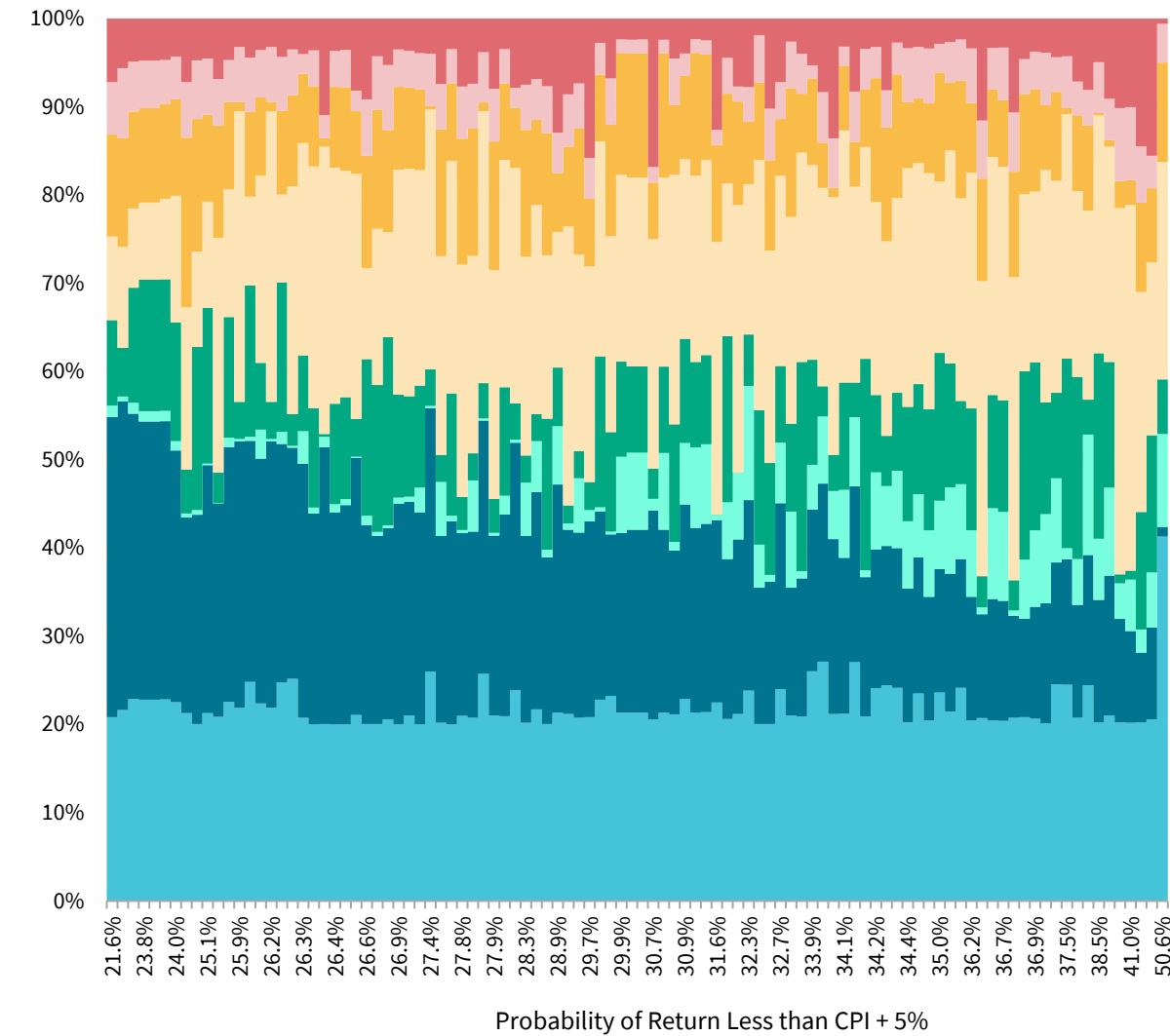


Constrained and SAA Biased - Frontier Allocations



Public Equity      Private Equity      Public Real Assets      Private Real Assets  
 Public Income      Private Income      GRIPs      Systematic Convexity

Constrained and H3 Biased - Frontier Allocations

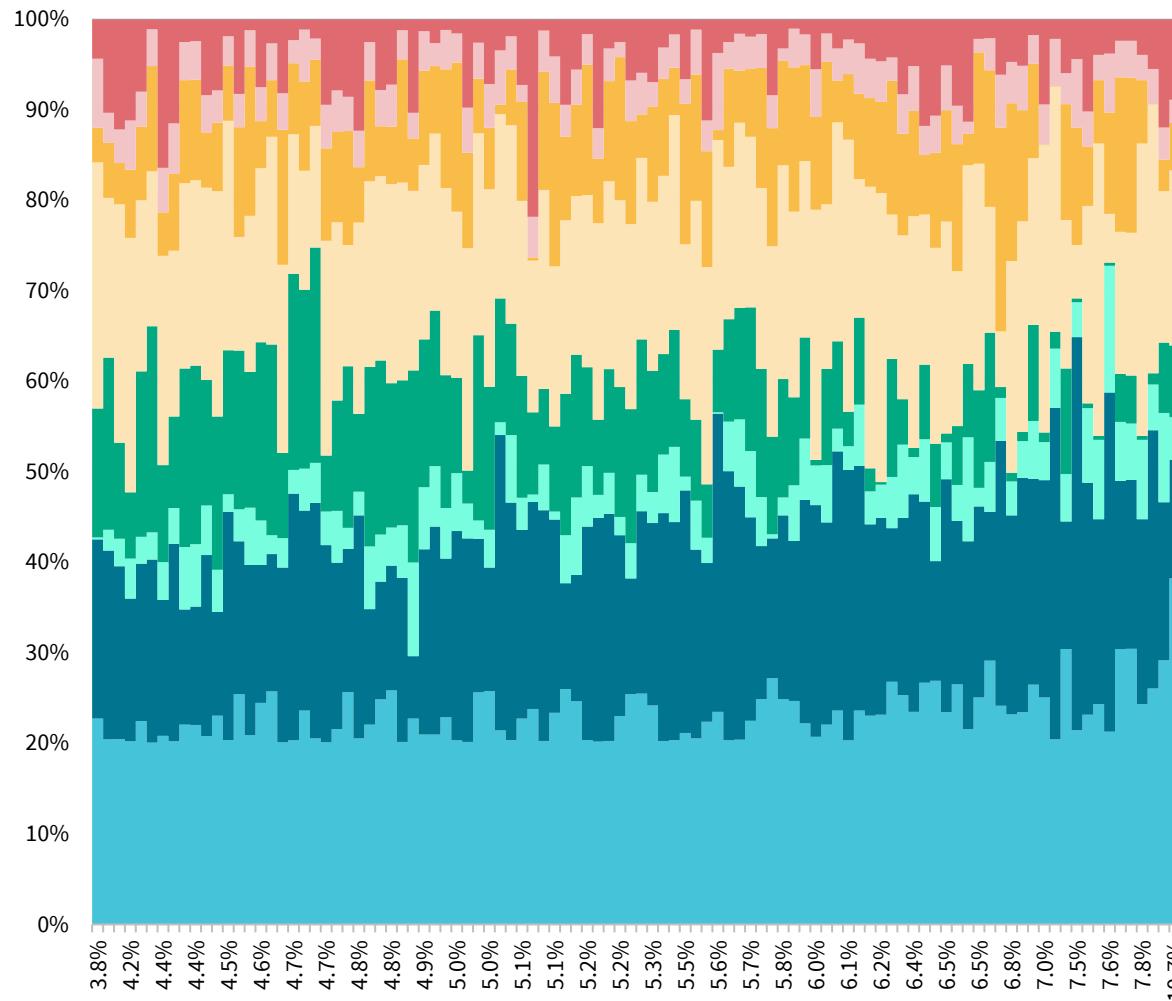


Public Equity      Private Equity      Public Real Assets      Private Real Assets  
 Public Income      Private Income      GRIPs      Systematic Convexity

# Biased Frontier Allocations – Probability of a Corpus Breach



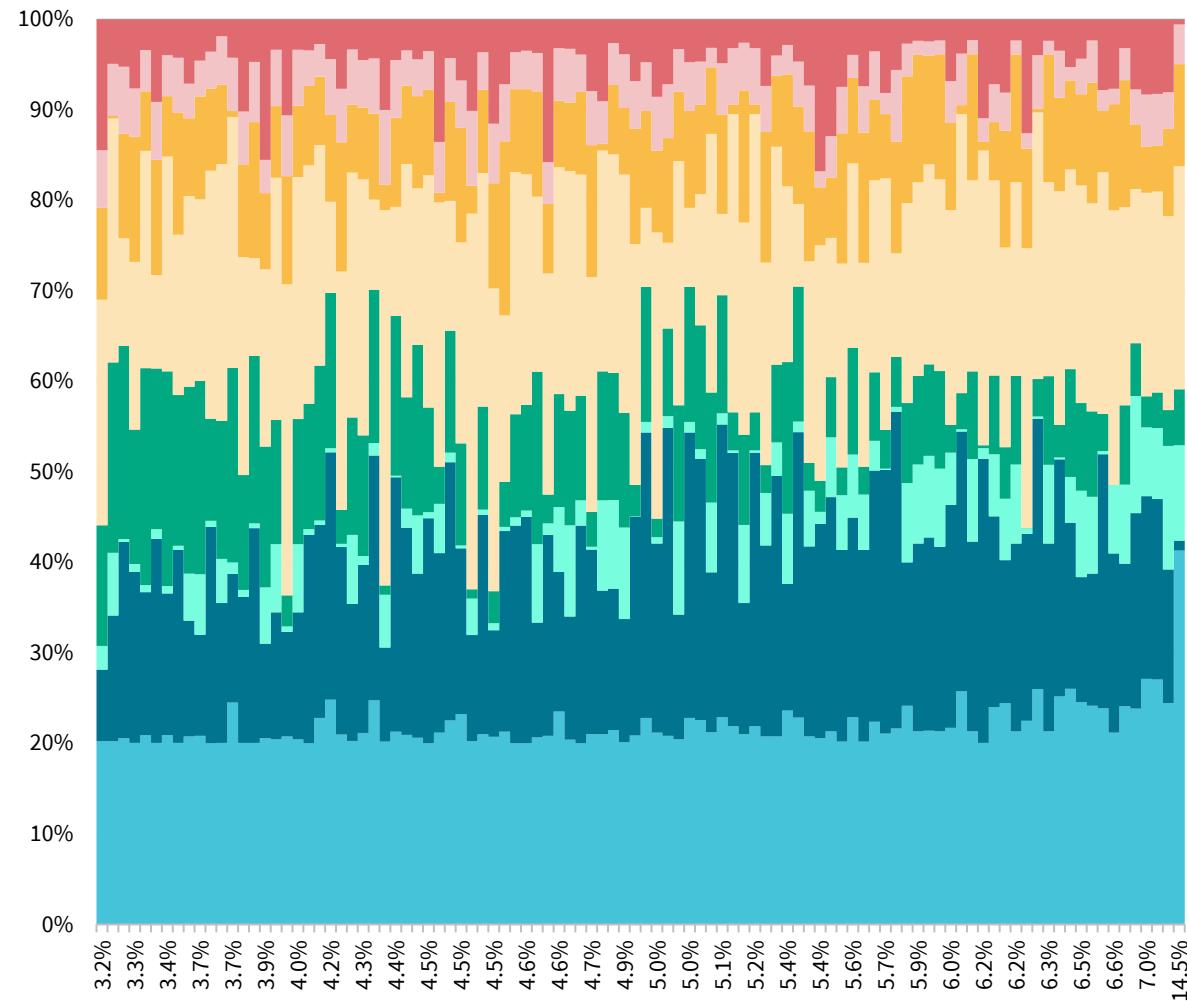
Constrained and SAA Biased - Frontier Allocations



Probability of Breaching the Corpus

Public Equity	Private Equity	Public Real Assets	Private Real Assets
Public Income	Private Income	GRIPs	Systematic Convexity

Constrained and H3 Biased - Frontier Allocations



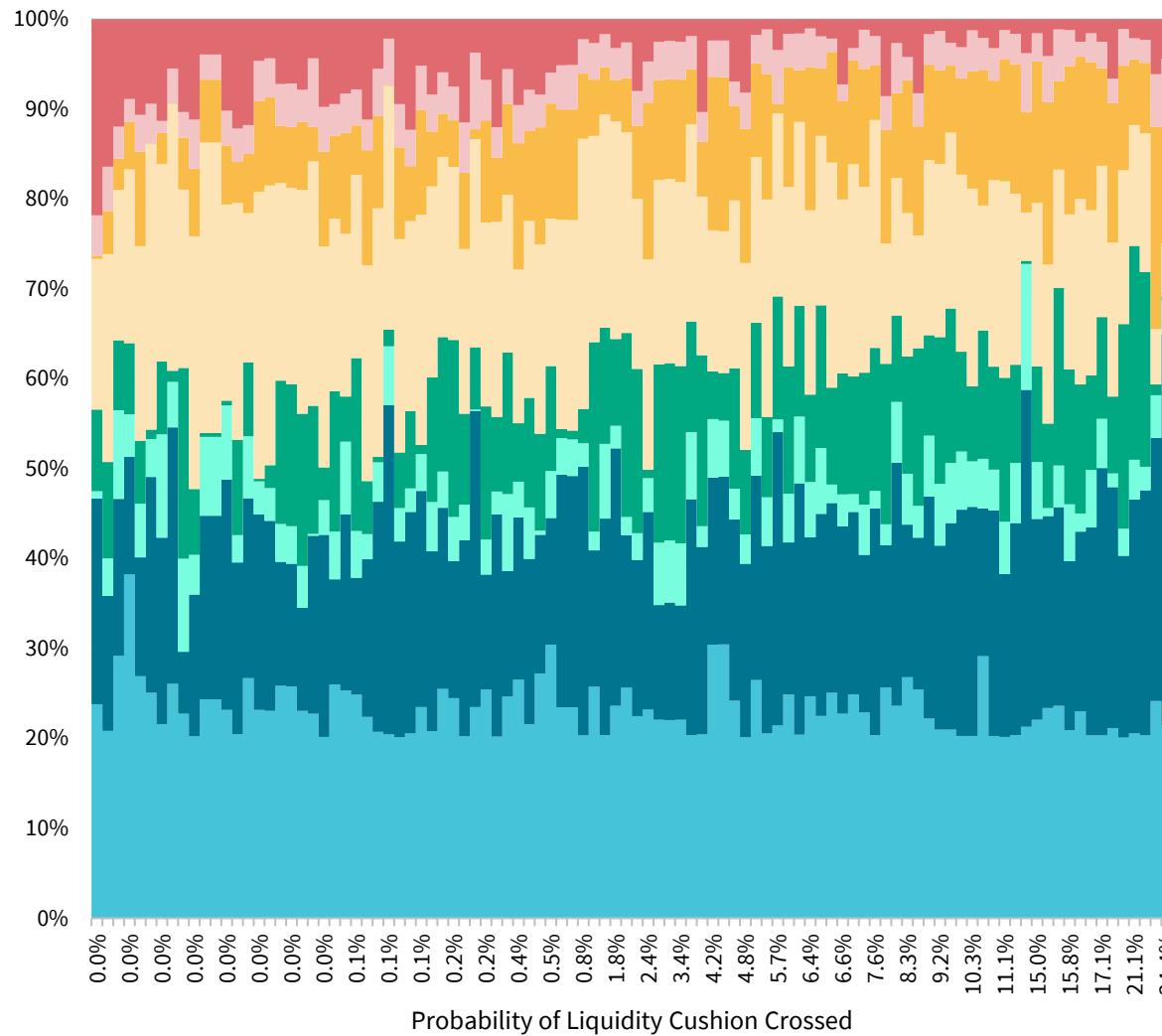
Probability of Breaching the Corpus

Public Equity	Private Equity	Public Real Assets	Private Real Assets
Public Income	Private Income	GRIPs	Systematic Convexity

# Biased Frontier Allocations – Probability of Liquidity Cushion Crossed

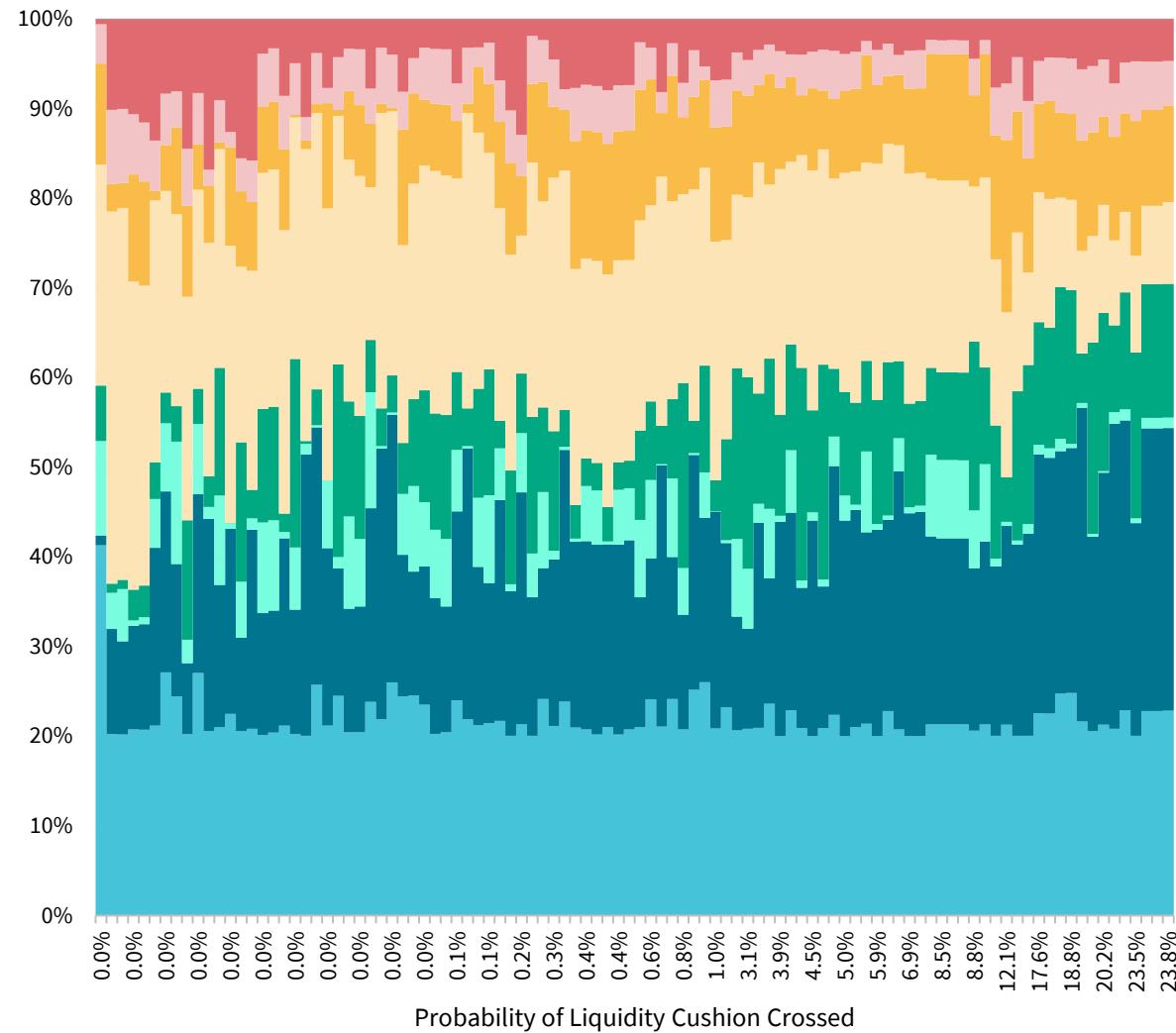


Constrained and SAA Biased - Frontier Allocations



Public Equity      Private Equity      Public Real Assets      Private Real Assets  
 Public Income      Private Income      GRIPs      Systematic Convexity

Constrained and H3 Biased - Frontier Allocations



Public Equity      Private Equity      Public Real Assets      Private Real Assets  
 Public Income      Private Income      GRIPs      Systematic Convexity

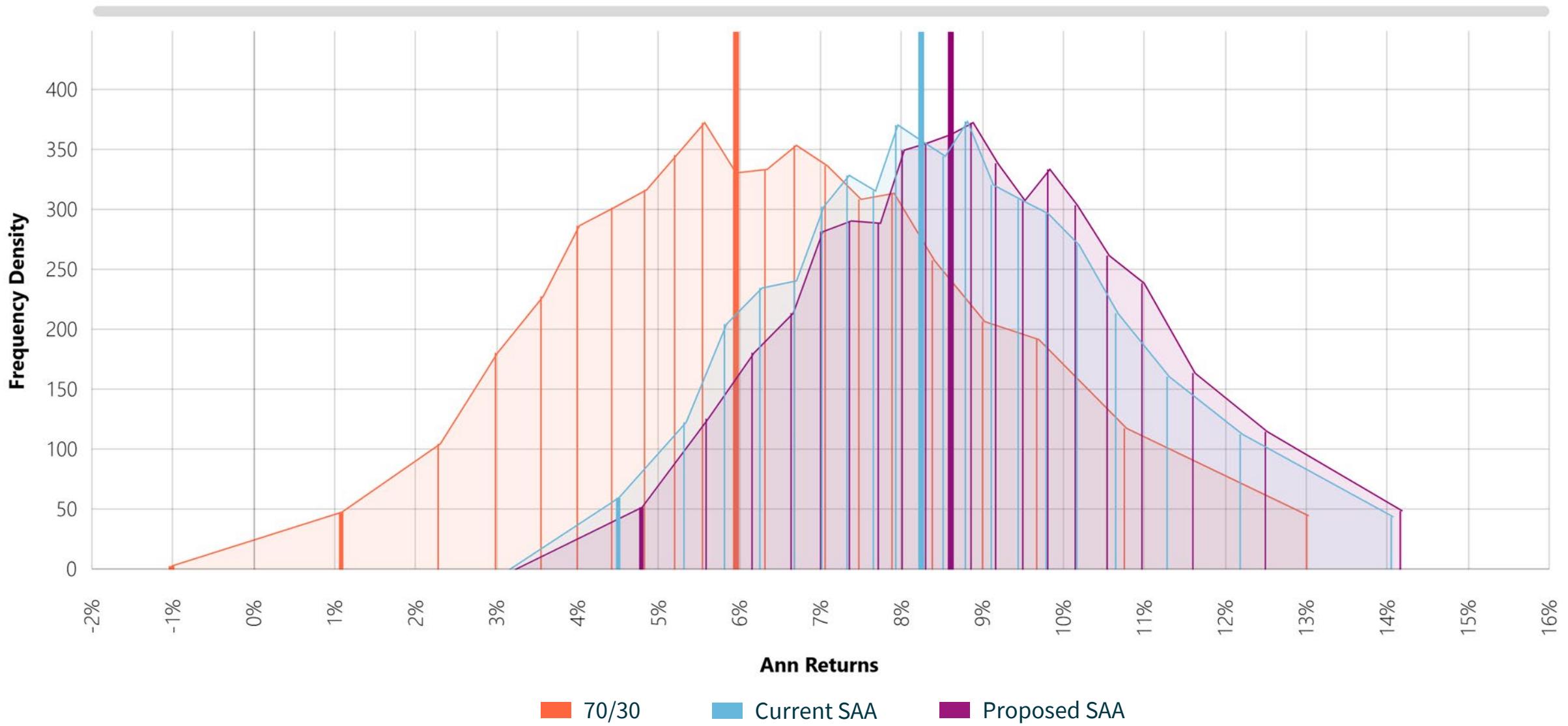
# Proposed SAA

## Portfolio Weights and Ranges

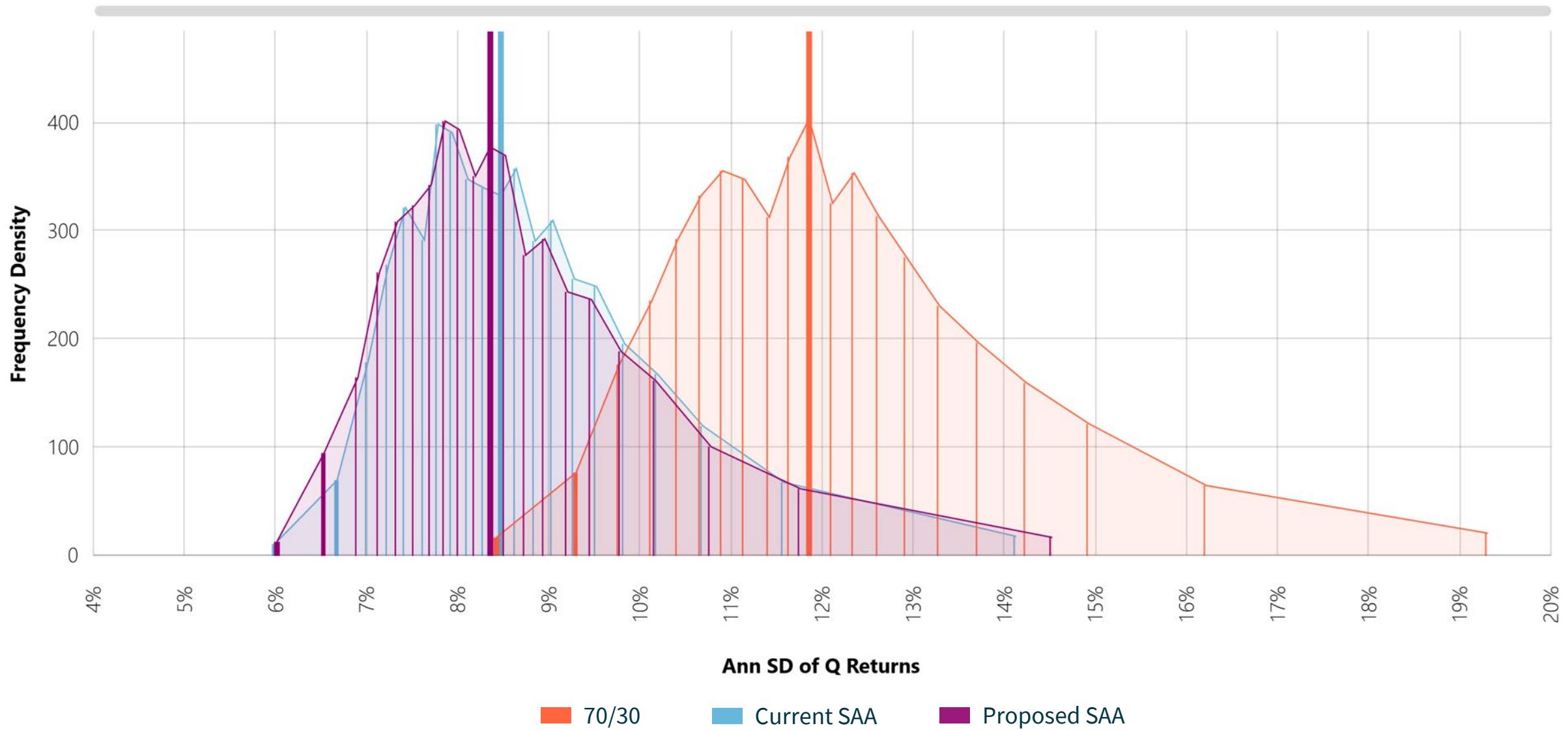


	Min		Proposed SAA		Max
<b>Growth</b>	<b>40.0%</b>	<b>42.0%</b>	<b>45.0%</b>	<b>48.0%</b>	<b>50.0%</b>
Public Equity	19.0%	21.0%	25.0%	28.0%	30.0%
Private Equity	15.0%	17.0%	20.0%	24.0%	26.0%
<b>Real</b>	<b>10.0%</b>	<b>12.0%</b>	<b>15.0%</b>	<b>18.0%</b>	<b>20.0%</b>
Public Real Assets	0.0%	2.0%	5.0%	7.0%	8.0%
Private Real Assets	7.0%	8.0%	10.0%	13.0%	15.0%
<b>Income</b>	<b>25.0%</b>	<b>27.0%</b>	<b>30.0%</b>	<b>33.0%</b>	<b>35.0%</b>
Public Income	15.0%	17.0%	20.0%	22.0%	23.0%
Private Income	7.0%	8.0%	10.0%	13.0%	15.0%
<b>Defensive</b>	<b>5.0%</b>	<b>7.0%</b>	<b>10.0%</b>	<b>13.0%</b>	<b>15.0%</b>
GRIPs	0.0%	1.0%	3.0%	5.0%	6.0%
Sys. Convexity	3.0%	5.0%	7.0%	9.0%	11.0%
Cash	0.0%	0.0%	0.0%	0.0%	3.0%

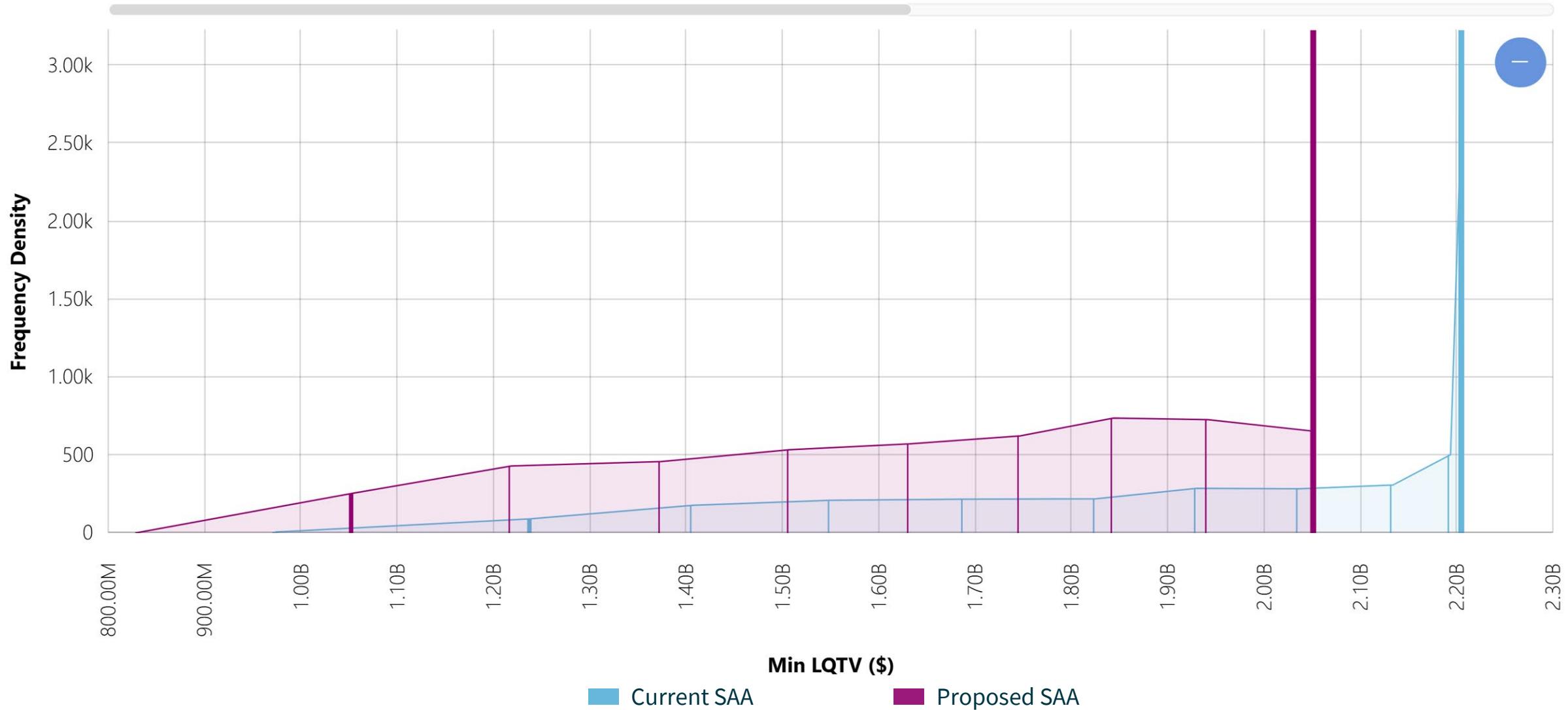
	Min		Int. Benchmark		Max
<b>Growth</b>	<b>38.5%</b>	<b>40.5%</b>	<b>45.0%</b>	<b>46.5%</b>	<b>48.5%</b>
Public Equity	28.0%	30.0%	34.0%	37.0%	39.0%
Private Equity	6.0%	8.0%	11.0%	15.0%	17.0%
<b>Real</b>	<b>12.5%</b>	<b>14.5%</b>	<b>17.5%</b>	<b>20.5%</b>	<b>22.5%</b>
Public Real Assets	0.0%	2.0%	5.0%	7.0%	8.0%
Private Real Assets	9.5%	10.5%	12.5%	15.5%	17.5%
<b>Income</b>	<b>22.5%</b>	<b>24.5%</b>	<b>27.5%</b>	<b>30.5%</b>	<b>32.5%</b>
Public Income	14.0%	16.0%	19.0%	21.0%	22.0%
Private Income	5.5%	6.5%	8.5%	11.5%	13.5%
<b>Defensive</b>	<b>5.0%</b>	<b>7.0%</b>	<b>10.0%</b>	<b>13.0%</b>	<b>15.0%</b>
GRIPs	0.0%	1.0%	3.0%	5.0%	6.0%
Sys. Convexity	3.0%	5.0%	7.0%	9.0%	11.0%
Cash	0.0%	0.0%	0.0%	0.0%	3.0%



## Annualized Standard Deviation

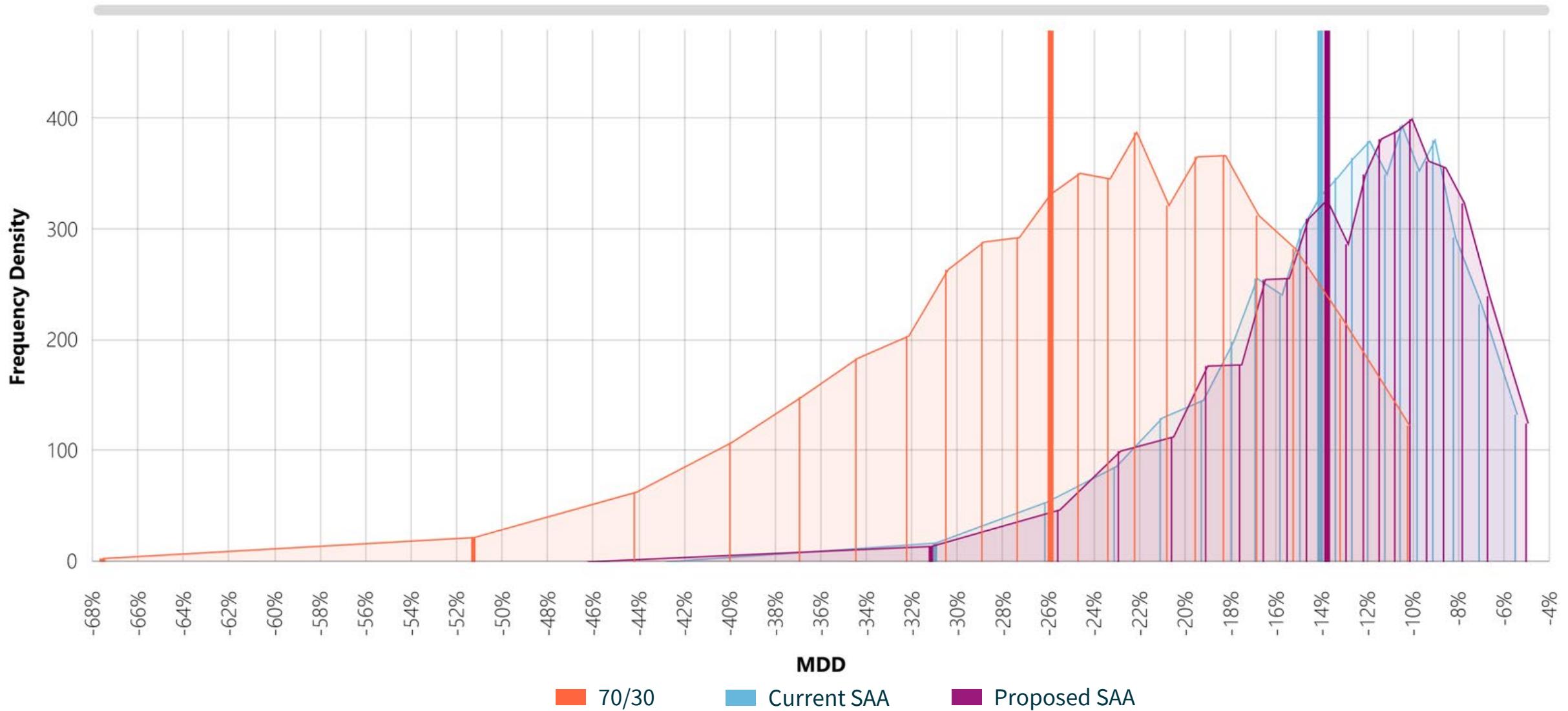


## Minimum Liquid Trust Value

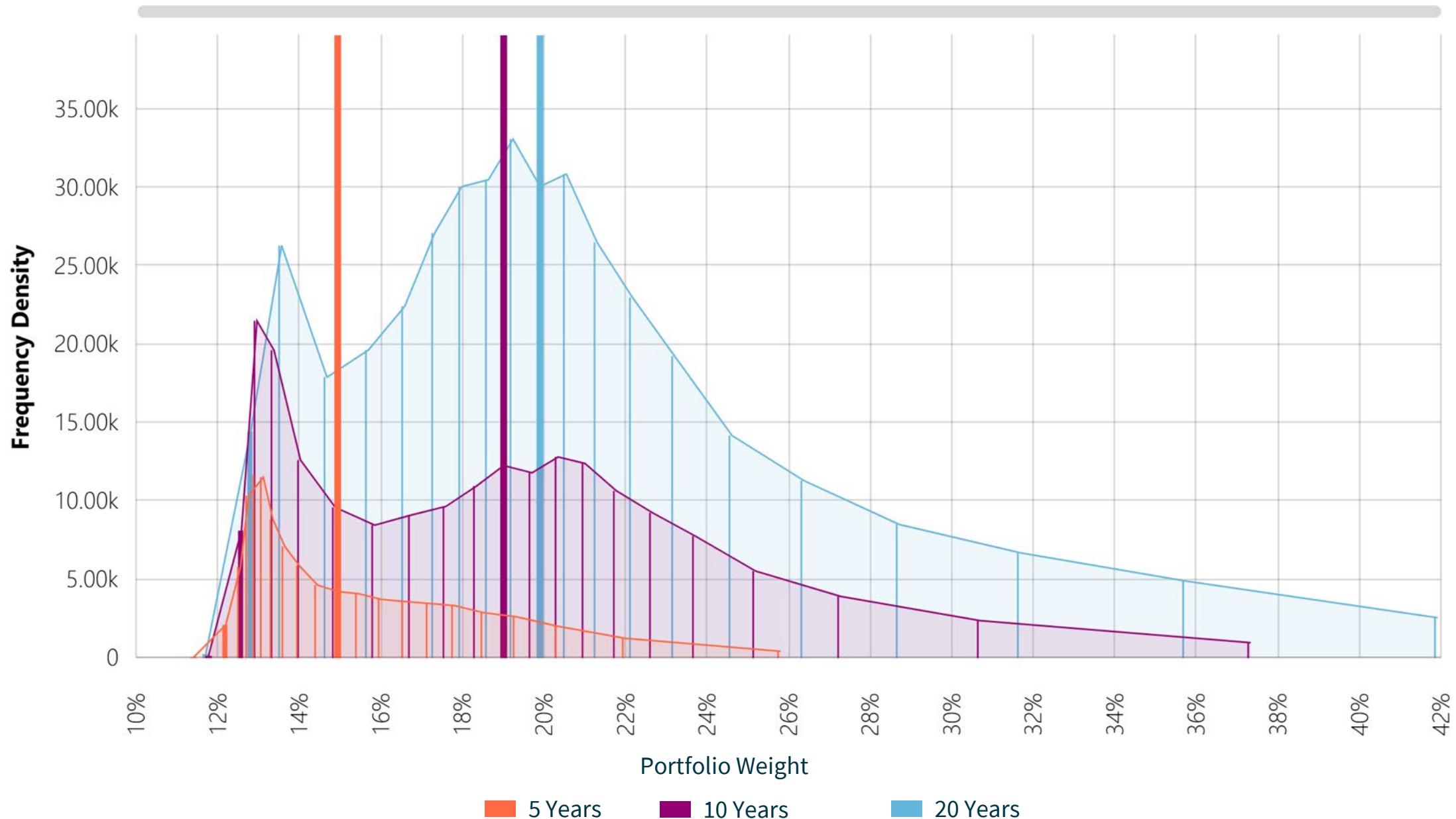


## Max Drawdown

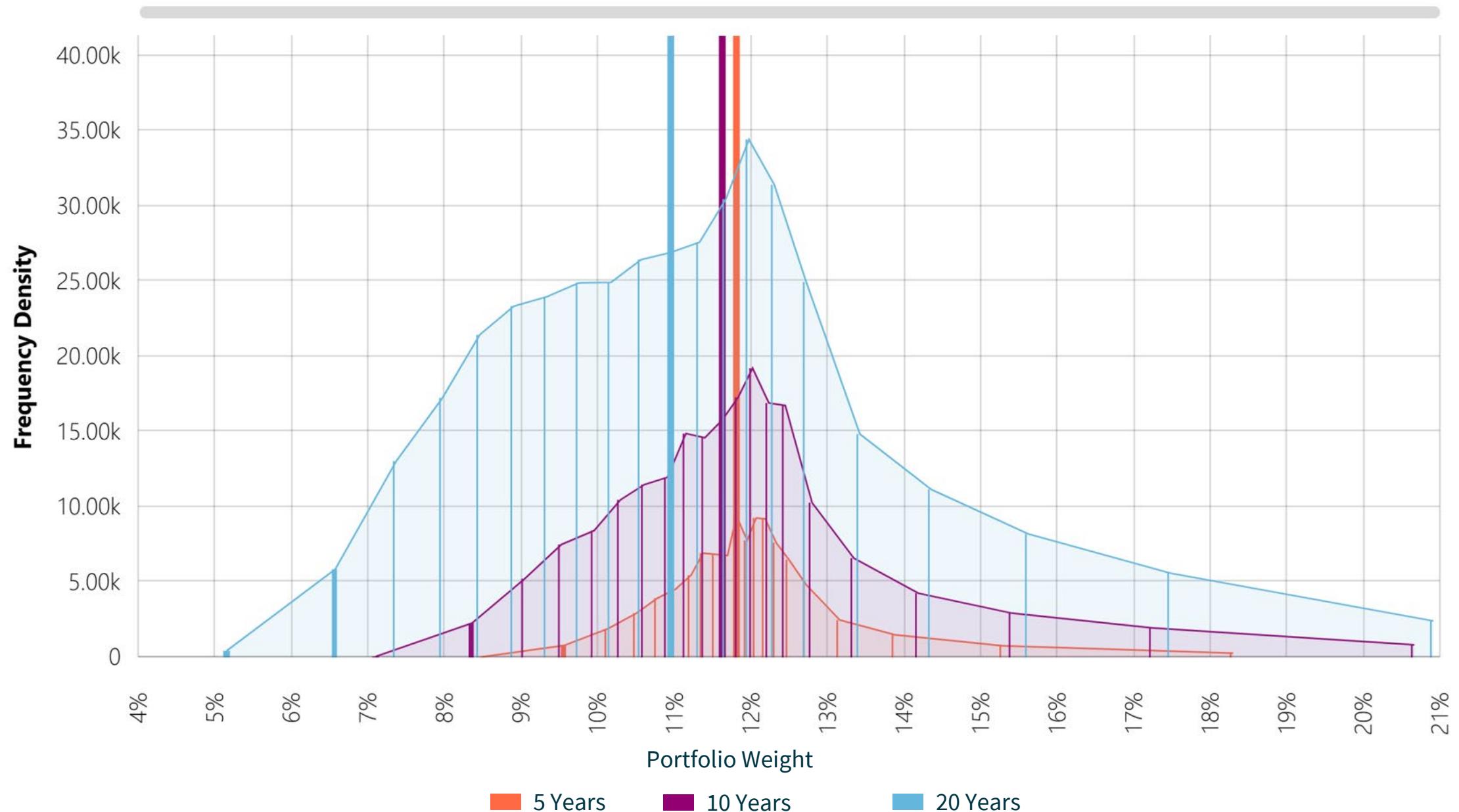
Stoxx



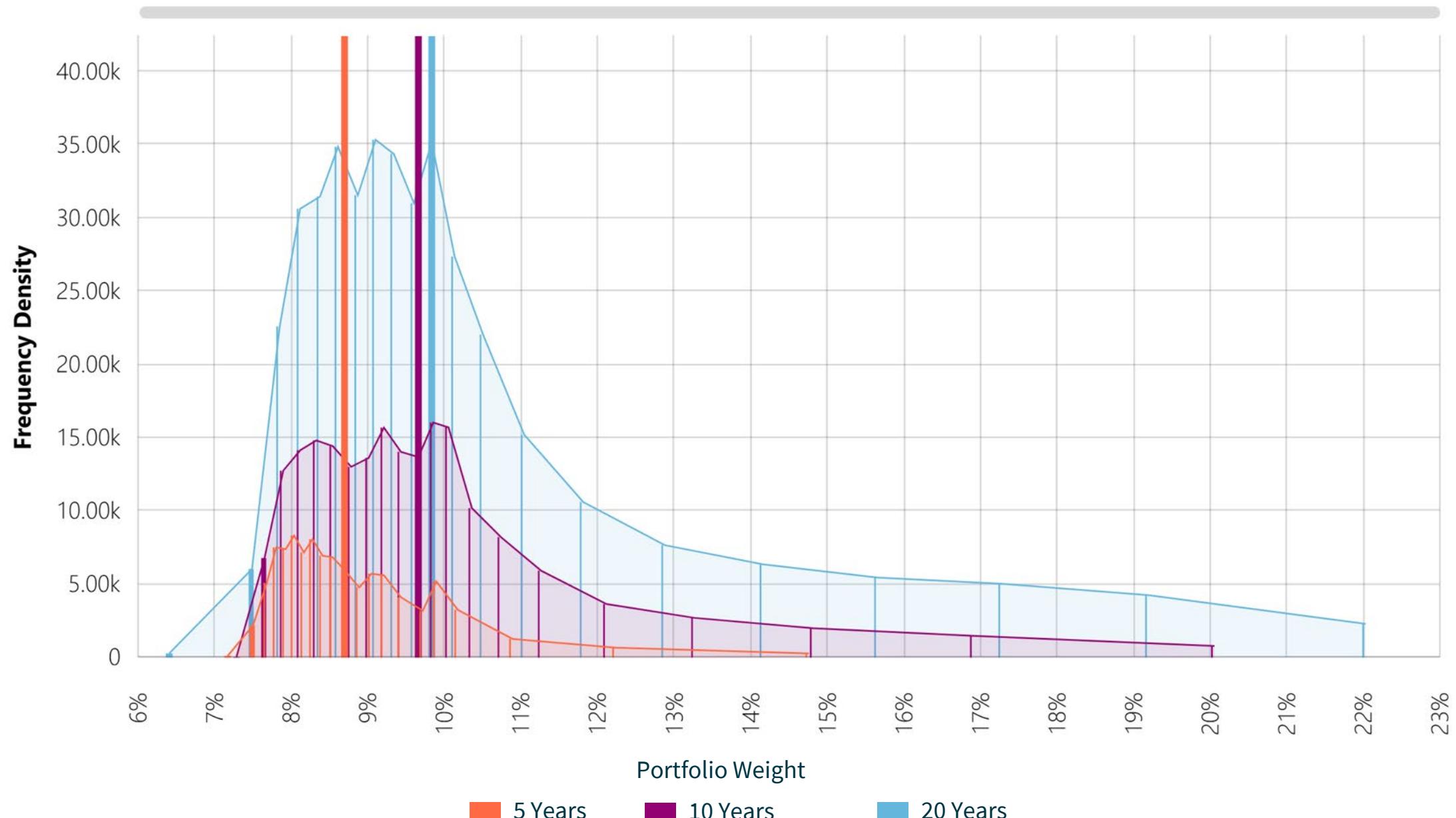
## Private Equity, Observed Weights in Proposed SAA



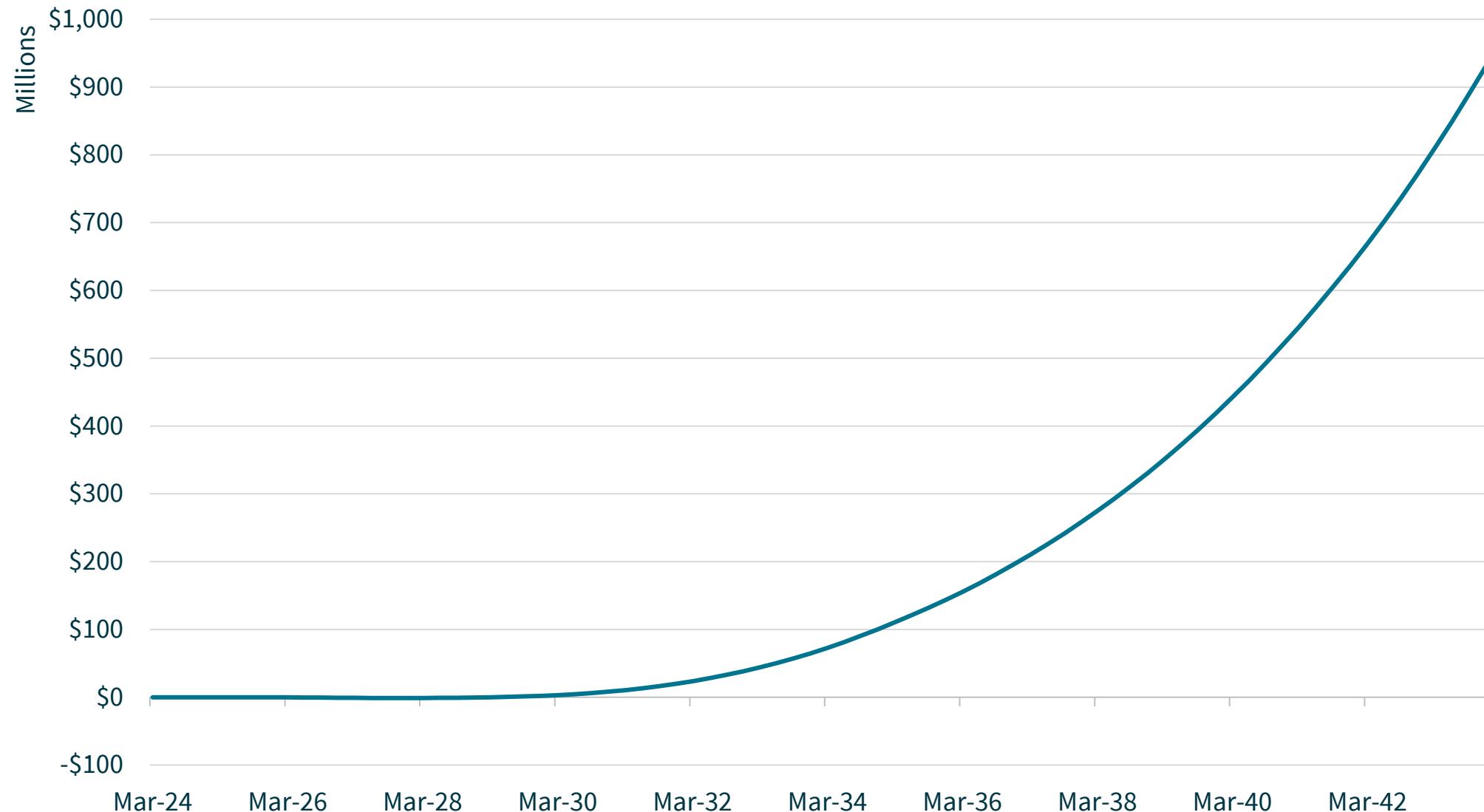
# Private Real Assets, Observed Weights in Proposed SAA



## Private Income, Observed Weights in Proposed SAA



## Cumulative Excess Distribution to Beneficiaries



# Exhibit B



## Board of Trustees Meeting Recap – August 6, 2024



- Minutes from March and June board meetings were approved
- A draft Summit agenda was presented and the location at the Zermatt Resort in Midway was noted
- Intern Mikkel departed for a job in NYC, search for DCIO continues
- FYTD 24 budget came in under forecast and appropriation, FY 25 QTD was presented
- Introduced an asset allocation model, its inputs, objectives, and unconstrained frontiers for Trustee feedback

# Board of Trustees

## MEETING MINUTES

**Tuesday, August 6, 2024 – 9:00 AM**

Location: 310 S. Main Street, Ste. 1250, Salt Lake City, UT 84101

### **Board Attendees:**

Marlo Oaks, Mark Siddoway, David Zucker, Bong Choi, David Nixon

### **Other Attendees:**

Peter Madsen, SITFO; Ryan Kulig, SITFO; Kim Christy, LTPAO; Johnny Lodder, SITFO; Hayden Bergeson, SITFO; Rainey Cornaby, SITFO; Tatiana Devkota, SITFO; Jess Rowe, SITFO; John Sorensen, SITFO; Jace Richards, SITFO; Oliver Sorensen, SITFO; Rodney Tran, SITFO; Andrew Morales, SITFO; Brook McCarrick, AG's Office; Patrick Magowan, Albourne; James Walsh, Albourne; Jeremy Miller, RVK; Matthias Bauer, RVK; Paula Plant, SCT; Allen Rollo, State Treasurer's Office; Kirt Slaugh, State Treasurer's Office; Margaret Bird, Citizen

### **Open Session – Call the Meeting to Order (Start at 9:00 AM)**

Chair Oaks called the meeting to order at 9:02 AM, on the 6th day of August 2024. A roll call of Trustees and other attendees was taken.

### **Administrative – Recap and Approval of Minutes from March 5, 2024 and June 4, 2024, incl SAA approval, SITFO (action item)**

Mr. Kulig provided a recap of the June board meeting. He presented the meeting minutes from the March and June board meetings. Chair Oaks entertained a motion to approve the minutes. Trustee Zucker motioned to approve both sets of minutes, and Trustee Siddoway seconded the motion. The motion passed unanimously.

#### **Record of the Vote:**

Trustee Oaks: Yes

Trustee Nixon: Yes

Trustee Siddoway: Yes

Trustee Zucker: Yes

Trustee Choi: Yes

## **Administrative – Land Trusts Protection and Advocacy Office Update, LTPAO**

Chair Oaks turned the meeting over to Mr. Christy who provided an update on the constitutional amendment outreach program being managed by his office. Ms. Plant gave an update on the current quarterly distribution to schools.

## **Administrative – Summit Agenda – Draft, SITFO**

Chair Oaks turned the meeting over to Ms. Rowe who shared a brief update on the upcoming board meeting and Summit, including the location and information about topics and speakers. She noted, the upcoming Summit and board meeting will be held in Midway, UT.

## **Finance Committee Updates, SITFO**

Mr. Kulig presented a personnel update, noting that the intern Mikkel Solbakken recently left for a full-time position and the DCIO search continues to progress.

Ms. Cornaby presented on the FY24 QTD, mentioning that SITFO is under the forecast by \$89,000 and under the appropriated budget by \$263,000 (dollars rounded to nearest thousand). Ms. Cornaby noted the consistency across the prior outlook is due to the stabilization of SITFO staffing. She noted, period 13 actuals have not been finalized and a FY 24 budget will be reviewed at the next board meeting.

Mr. Kulig presented the FY25 QTD budget, noting that incentive awards which would usually be awarded in June in prior fiscal years were pushed to July in the current fiscal year due to many members of office staff traveling throughout June. This change was reflected in the FY25 budget outlook.

## **Investments – Asset Allocation & Private Market Update, SITFO**

Mr. Bergeson provided an update of the portfolio's private market allocations in relation to their j-curves and j-curve related performance. Mr. Bergeson presented an asset allocation update where he discussed the new model, its inputs, objectives, and unconstrained frontiers. The trustees provided feedback which will be used to inform model constraints and portfolio selection in preparation for the December board meeting.

## **Closed Session - Investments & Chief Investment Officer Review (action item)**

Ms. McCarrick, attending through zoom, walked the board through closing the meeting for criteria detailed in Utah Code § 52-4-205(1)(a) and 53D-1-304(6). She confirmed these criteria were the only matters to be discussed during the closed session. As permitted by Utah Code § 52-4-206(6), the Board did not make an audio recording or take written minutes of the personnel portion of the closed session. At 10:52 AM Chair Oaks entertained a motion to close the meeting. Trustee Siddoway motioned to close, and it was seconded by Trustee Zucker. A roll call vote was taken, and it passed unanimously.

**Record of the Vote:**

Trustee Oaks: Yes

Trustee Nixon: Yes

Trustee Siddoway: Yes

Trustee Zucker: Yes

Trustee Choi: Yes

**Adjourn (action item)**

The Board Meeting was reopened, and Chair Oaks entertained a motion. Trustee Zucker made a motion to adjourn the meeting. Trustee Choi seconded the motion and the motion passed. The meeting was adjourned at 1:21 PM.

**Record of the Vote:**

Trustee Oaks: Yes

Trustee Nixon: Yes

Trustee Siddoway: Yes

Trustee Zucker: Yes

Trustee Choi: Yes

# Exhibit C



# FY26 Board Meeting Schedule DRAFT

Board meetings will generally be held on the first Tuesday of the last month of every quarter. These listed dates below are placeholders and meeting dates may be changed or canceled per discussion and consideration by the Board.

## FY26

Tuesday, September 9, 2025 – Start of FY26

Thursday, December 4, 2025, and Friday, December 5, 2025 – 2025 Summit

Tuesday, March 3, 2026

Tuesday, June 2, 2026

## FINANCE COMMITTEE MEETINGS

### FY26

Thursday, August 14, 2025 – FY 27 Budget

Thursday, November 20, 2025

Thursday, February 19, 2026

Thursday, May 21, 2026 – FY 27 Budget Forecast

## COMPENSATION COMMITTEE MEETING

### FY26

Tuesday, January 13, 2026

# FY27 Board Meeting Schedule DRAFT

Board meetings will generally be held on the first Tuesday of the last month of every quarter. These listed dates below are placeholders and meeting dates may be changed or canceled per discussion and consideration by the Board.

## FY27

Tuesday, September 1, 2026 – Start of FY27

Thursday, December 3, 2026, and Friday, December 4, 2026 – 2026 Summit

Tuesday, March 2, 2027

Tuesday, June 8, 2027

## FINANCE COMMITTEE MEETINGS

### FY27

Thursday, August 13, 2026 – FY 28 Budget

Thursday, November 19, 2026

Thursday, February 18, 2027

Thursday, May 20, 2027 – FY 28 Budget Forecast

# Exhibit D





October 30, 2024

To the Board of Trustees  
School & Institutional Trust Funds Office  
Salt Lake City, UT

We have audited the financial statements of School & Institutional Trust Funds Office as of and for the year ended June 30, 2024, and have issued our report thereon dated October 30, 2024. Professional standards require that we advise you of the following matters relating to our audit.

### **Our Responsibility in Relation to the Financial Statement Audit**

As communicated in our letter dated July 25, 2024, our responsibility, as described by professional standards, is to form and express an opinion about whether the financial statements that have been prepared by management with your oversight are presented fairly, in all material respects, in accordance with accounting principles generally accepted in the United States of America. Our audit of the financial statements does not relieve you or management of your respective responsibilities.

Our responsibility, as prescribed by professional standards, is to plan and perform our audit to obtain reasonable, rather than absolute, assurance about whether the financial statements are free of material misstatement. An audit of financial statements includes consideration of internal control over financial reporting as a basis for designing audit procedures that are appropriate in the circumstances but not for the purpose of expressing an opinion on the effectiveness of the entity's internal control over financial reporting. Accordingly, as part of our audit, we considered the internal control of School & Institutional Trust Funds Office solely for the purpose of determining our audit procedures and not to provide any assurance concerning such internal control.

We are also responsible for communicating significant matters related to the audit that are, in our professional judgment, relevant to your responsibilities in overseeing the financial reporting process. However, we are not required to design procedures for the purpose of identifying other matters to communicate to you.

### **Planned Scope and Timing of the Audit**

We conducted our audit consistent with the planned scope and timing we previously communicated to you.

### **Compliance with All Ethics Requirements Regarding Independence**

The engagement team, others in our firm, as appropriate, our firm, and other firms utilized in the engagement, if applicable, have complied with all relevant ethical requirements regarding independence.

## **Qualitative Aspects of the Entity's Significant Accounting Practices**

### *Significant Accounting Policies*

Management has the responsibility to select and use appropriate accounting policies. A summary of the significant accounting policies adopted by School & Institutional Trust Funds Office is included in Note 3 to the financial statements. There have been no initial selection of accounting policies and no changes in significant accounting policies or their application during 2024. No matters have come to our attention that would require us, under professional standards, to inform you about (1) the methods used to account for significant unusual transactions and (2) the effect of significant accounting policies in controversial or emerging areas for which there is a lack of authoritative guidance or consensus.

### *Accounting Estimates*

Accounting estimates are an integral part of the financial statements prepared by management and are based on management's current judgments. Those judgments are normally based on knowledge and experience about past and current events and assumptions about future events. Certain accounting estimates are particularly sensitive because of their significance to the financial statements and because of the possibility that future events affecting them may differ markedly from management's current judgments. The most sensitive accounting estimates affecting the financial statements are management's estimate of fair value of investments.

Management's estimate of the fair value of investments is based on information provided by third-party managers. We evaluated the key factors and assumptions used to develop the estimate of the fair value of investments and determined that it is reasonable in relation to the basic financial statements taken as a whole.

### *Financial Statement Disclosures*

Certain financial statement disclosures involve significant judgment and are particularly sensitive because of their significance to financial statement users. The most sensitive disclosures affecting School & Institutional Trust Funds Office's financial statements relate to the fair value of investments in Note 5 due to their significance to the governmental balance sheet.

### **Significant Difficulties Encountered during the Audit**

We encountered no significant difficulties in dealing with management relating to the performance of the audit.

### **Uncorrected and Corrected Misstatements**

For purposes of this communication, professional standards require us to accumulate all known and likely misstatements identified during the audit, other than those that we believe are trivial, and communicate them to the appropriate level of management. Further, professional standards require us to also communicate the effect of uncorrected misstatements related to prior periods on the relevant classes of transactions, account balances or disclosures, and the financial statements as a whole. Uncorrected misstatements or matters underlying those uncorrected misstatements could potentially cause future-period financial statements to be materially misstated, even though the uncorrected misstatements are immaterial

to the financial statements currently under audit. There were no uncorrected or corrected misstatements identified as a result of our audit procedures.

### **Disagreements with Management**

For purposes of this letter, professional standards define a disagreement with management as a matter, whether or not resolved to our satisfaction, concerning a financial accounting, reporting, or auditing matter, which could be significant to School & Institutional Trust Funds Office's financial statements or the auditor's report. No such disagreements arose during the course of the audit.

### **Circumstances that Affect the Form and Content of the Auditor's Report**

For purposes of this letter, professional standards require that we communicate any circumstances that affect the form and content of our auditor's report. We did not identify any circumstances that affect the form and content of the auditor's report.

### **Representations Requested from Management**

We have requested certain written representations from management which are included in the management representation letter dated October 30, 2024.

### **Management's Consultations with Other Accountants**

In some cases, management may decide to consult with other accountants about auditing and accounting matters. Management informed us that, and to our knowledge, there were no consultations with other accountants regarding auditing and accounting matters.

### **Other Significant Matters, Findings, or Issues**

In the normal course of our professional association with School & Institutional Trust Funds Office, we generally discuss a variety of matters, including the application of accounting principles and auditing standards, significant events or transactions that occurred during the year, operating and regulatory conditions affecting the entity, and operational plans and strategies that may affect the risks of material misstatement. None of the matters discussed resulted in a condition to our retention as School & Institutional Trust Funds Office's auditors.

This report is intended solely for the information and use of the Board of Trustees, and management of School & Institutional Trust Funds Office and is not intended to be, and should not be, used by anyone other than these specified parties.

A handwritten signature in black ink that reads "Eric Baily CPA". The signature is fluid and cursive, with "Eric" and "Baily" being the most prominent parts, and "CPA" appearing at the end.

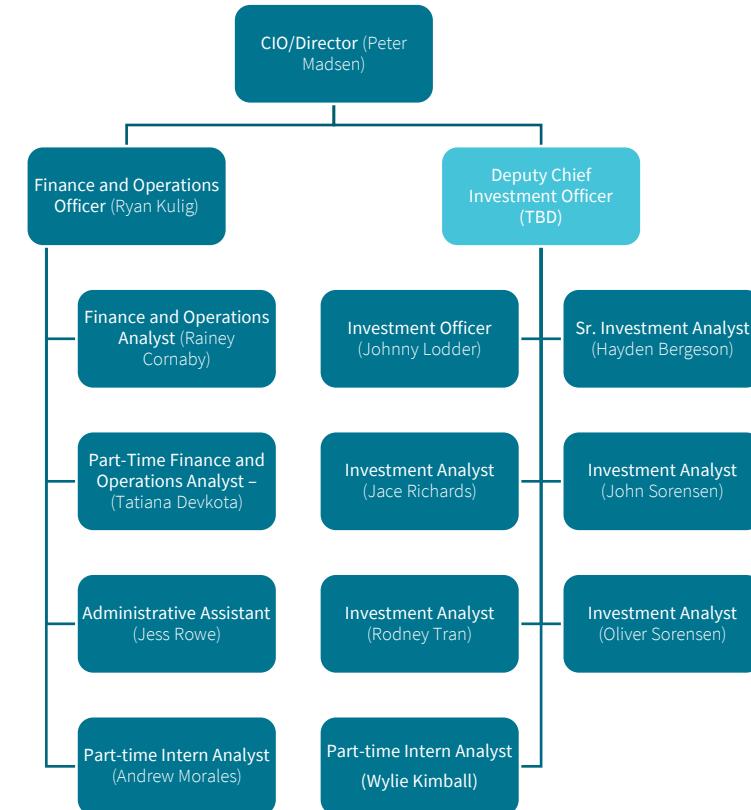
Salt Lake City, Utah

# Organization Chart



- SITFO Staff
  - Currently consists of 13 persons: 10 full-time and 3 part-time professionals
  - Scheduled changes:
    - Offer out to Deputy Chief Investment Officer candidate

## SITFO Staff Org Chart as of December 2024



## Legend

Current as of  
Nov 2024

Future Start  
Date

# FY24 Budget in Review – Summary



Summary		Q1 FY2024			Q2 FY2024			Q3 FY2024			Q4 FY2024			FY 24 Annual		
		Forecast	Actuals	Over / (Under)	Forecast	Actuals	Over / (Under)									
AA Personnel Services		466,712	432,386	(34,325)	554,548	458,405	(96,143)	656,511	629,050	(27,460)	703,405	642,939	(60,466)	2,381,176	2,162,781	(218,395)
BB Travel/In State		326	293	(34)	326	938	612	326	62	(265)	326	56	(272)	1,305	1,349	43
CC Travel/Out of State		24,551	10,383	(14,169)	24,551	15,252	(9,299)	24,551	5,094	(19,457)	24,551	47,066	22,514	98,204	77,795	(20,409)
DD Current Expense		81,068	92,513	11,441	81,068	105,536	24,464	81,068	103,741	22,671	81,068	66,359	(14,711)	324,273	368,149	43,875
EE Data Processing Exp		20,397	14,439	(5,957)	20,397	15,424	(4,973)	20,397	22,089	1,692	20,397	23,567	3,170	81,587	75,519	(6,068)
GG Capital Expenditure		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HH Other Charges		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>TOTAL EXPENSE</b>		593,054	550,014	(43,040)	680,891	595,554	(85,336)	782,853	760,036	(22,817)	829,747	779,987	(49,761)	2,886,545	2,685,592	(200,953)
<b>BUDGET APPROPRIATION</b>		780,748	780,748	-	836,687	836,687	-	948,563	948,563	-	1,004,502	1,004,502	-	3,570,500	3,570,500	-
<b>DIFFERENCE</b>		(187,694)	(230,734)		(155,796)	(241,132)		(165,710)	(188,527)		(174,755)	(224,515)		(683,955)	(884,908)	

## Legend

FY2024: 7/1/2023 - 6/30/2024	Q1FY24: July 1, 2023 - Sept 30, 2023	Q2FY24: Oct 1, 2023 - Dec 30, 2023	Q3FY24: Jan 1, 2024 - March 31, 2024	Q4FY24: Apr 1, 2024 - June 30, 2024
Above/Below Forecast	\$10,000+ Under Forecast	\$5,000-\$9,999 Under Forecast	\$5,000-\$9,999 Above Forecast	\$10,000+ Above Forecast
Budget Appropriation	Budget limit approved by the Legislature			
Forecast	Fixed forecast set at the beginning of the fiscal year to estimate what SITFO intends to spend in each category			
Outlook	Dynamic dollar amount based on expected spend, revised quarterly to provide more up to date estimates			
Actuals	Amount SITFO spent in each category			

# FY25 Budget Q1 & QTD – Summary



Summary	Q1 FY2025			Q2 FY2025			Q3 FY2025			Q4 FY2025			FY2025		
	Forecast	Actuals	Over / (Under)	Forecast	Outlook as of November	Over / (Under)	Forecast	Outlook as of November	Over / (Under)	Forecast	Outlook as of November	Over / (Under)	Forecast	Outlook as of November	Over / (Under)
AA Personnel Services	487,159	462,011	(25,147)	610,254	534,784	(75,471)	725,955	701,877	(24,077)	788,104	795,616	7,511	2,611,471	2,494,288	(117,182)
BB Travel/In State	305	160	(146)	305	307	2	305	307	2	305	307	2	1,220	1,080	(141)
CC Travel/Out of State	40,406	23,903	(16,504)	40,406	40,406	-	40,406	40,406	-	40,406	40,406	-	161,625	145,122	(16,504)
DD Current Expense	88,175	40,994	(47,180)	88,175	97,252	9,077	88,175	81,167	(7,008)	88,175	85,667	(2,508)	352,701	305,082	(47,618)
EE Data Processing Exp	19,317	15,128	(4,189)	19,317	19,317	-	19,317	19,317	-	19,317	19,317	-	77,267	73,078	(4,189)
GG Capital Expenditure	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HH Other Charges	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL EXPENSE	635,362	542,197	(93,165)	758,457	692,066	(66,391)	874,159	843,074	(31,084)	936,307	941,313	5,006	3,204,284	3,018,650	(185,634)
BUDGET APPROPRIATION	942,207	942,207	-	1,012,130	1,012,130	-	1,151,977	1,151,977	-	1,235,885	1,235,885	-	4,342,200	4,342,200	-
DIFFERENCE	(306,845)	(400,010)		(253,674)	(320,065)		(277,819)	(308,903)		(299,578)	(294,573)		(1,137,916)	(1,323,550)	

## Legend

FY2025: 7/1/2024 - 6/30/2025	Q1FY25: July 1, 2024 - Sept 30, 2024	Q2FY25: Oct 1, 2024 - Dec 31, 2024	Q3FY25: Jan 1, 2025 - March 31, 2025	Q4FY25: Apr 1, 2025 - June 30, 2025
Above/Below Forecast	\$10,000+ Under Forecast Forecast	\$5,000-\$9,999 Under Forecast	\$5,000-\$9,999 Above Forecast	\$10,000+ Above Forecast
Budget Appropriation	Budget limit approved by the Legislature			
Forecast	Fixed forecast set at the beginning of the fiscal year to estimate what SITFO intends to spend in each category			
Outlook	Dynamic dollar amount based on expected spend, revisited quarterly to provide more up to date estimates			
Actuals	Amount SITFO spent in each category			

Category	Cost	Total %*
SITFO Office	\$ 2,685,592	.07 %
Investment Consulting	\$ 1,609,850	.04 %
Additional Consulting	\$ 15,124	.00 %
FOS	\$ 156,458	.00 %
Northern Trust	\$ 383,252	.01 %
Data, Risk, Audit	\$ 277,726	.01 %
<b>Subtotal</b>	<b>\$ 5,128,003</b>	<b>.14 %</b>
Securities Lending	-\$ 443,151	-.01 %
<b>Total</b>	<b>\$ 4,684,851</b>	<b>.13 %</b>

- As a percent of Total Portfolio Value as of 6/30/2024 (\$3.6 B)
- Totals may not sum due to rounding.

## FY24 Investment Manager Fees



Asset Class	Market Value %	Market Value	Committed Capital	Management Fee % (per annum)	Management Fee \$ (per annum)	Weighted Management Fee
Public Equity	34.5 %	\$ 1,257,707,371	\$ 1,257,707,371	.40 %	\$ 5,034,222	.14 %
Private Equity	10.0 %	\$ 365,072,669	\$ 511,421,468	2.32 %	\$ 8,467,693	.23 %
Public Real Assets	7.1 %	\$ 260,812,228	\$ 260,812,228	.66 %	\$ 1,716,830	.05 %
Private Real Assets	11.8 %	\$ 431,926,642	\$ 699,280,783	1.92 %	\$ 8,295,435	.23 %
Public Income	20.0 %	\$ 729,190,469	\$ 718,351,221	1.06 %	\$ 7,725,232	.21 %
Private Income	7.6 %	\$ 278,958,603	\$ 447,696,895	1.46 %	\$ 4,075,609	.11 %
Defensive	8.9 %	\$ 325,552,552	\$ 325,552,552	.71 %	\$ 2,312,767	.06 %
<b>Total Fund</b>	<b>100 %</b>	<b>\$ 3,649,220,566</b>	<b>\$ 4,220,822,519</b>	<b>1.03 %</b>	<b>\$ 37,815,353</b>	<b>1.03 %</b>

### Peer Institutions

Manager Fees 1.43 %

#### Notes

Incentive fees are not included in the manager fee calculation

Source: 2021 NACUBO Expense Data by Fund Size

Fees paid to investment managers, FY2021

- Size and “complexity” are drivers of cost
  - Smaller endowments tend to have higher consultant fees, fewer resources, and less alternatives
  - Larger endowments tend to have lower consultant fees, more resources, and more alternatives
- Expenses and fees
  - From administration .14 %
  - With Investment Management Fees 1.17 % (1.16 % including sec lending)

Expense	SITFO
Custody	.01 %
Investment Consultant	.04 %
Data, Risk, Audit	.01 %
Operating Budget	.07 %
<b>Total</b>	<b>.14 %</b>

Costs	\$10B	\$2B	\$500MM
Staffing and Compensation	\$10,833	\$3,728	\$1,392
Hardware, Office Supplies	\$34	\$12	\$8
Internal Systems & Data Licenses	\$755	\$685	\$200
Manager Diligence, Monitoring Costs	\$777	\$397	\$250
Other Costs	\$48	\$4	\$4
Total Costs	\$12,466	\$4,825	\$1,854
Total Costs in basis points	12.0	24.0	37.0

- As a percent of Total Portfolio Value of \$3.6 B
- Totals may not sum due to rounding

Source: **Strategic Investment Group.** *Building Blocks and Costs of an Internal Investment Office.* © 2024, Strategic Investment Management, LLC. All rights reserved.

# Exhibit E



# Executive Summary

---

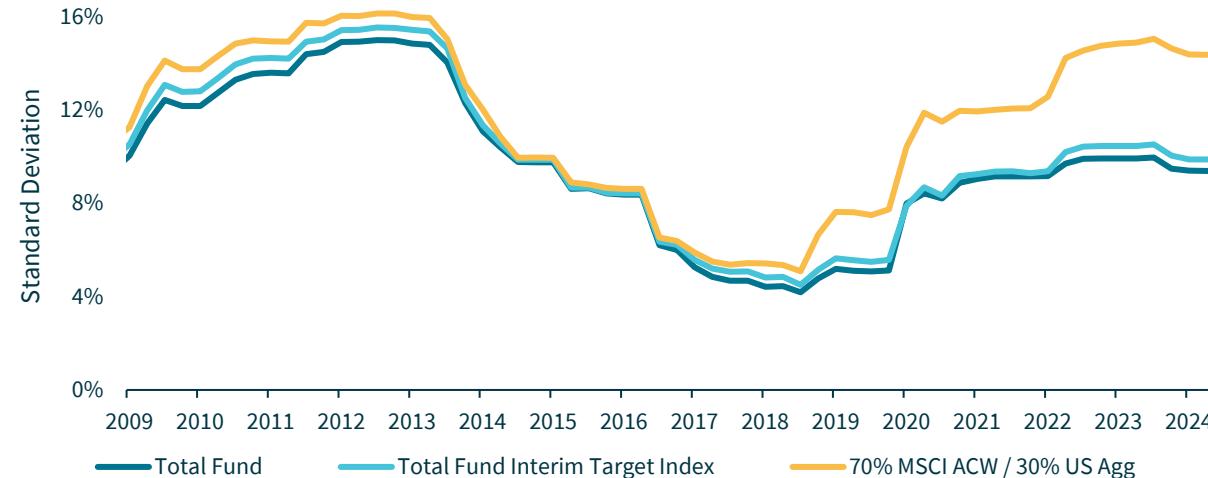
# Total Portfolio – Objectives & Compliance



## Rolling 5-Year Performance vs. Long Term Investment Objective



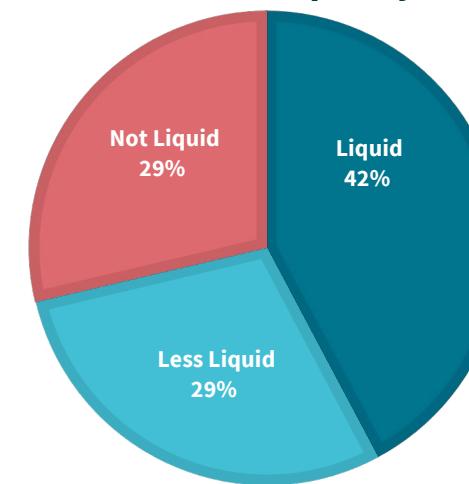
## Rolling 5-Year Standard Deviation



## Allocation Ranges

Asset Class	Min Range	Portfolio	Max Range	In Compliance	Interim Benchmark	Policy
<b>Growth</b>	<b>38.5%</b>	<b>45.3%</b>	<b>48.5%</b>	Yes	43.5%	43.5%
Public Equity	29.5%	35.5%	35.5%	No	32.5%	30.5%
Private Equity	8.0%	9.8%	14.0%	Yes	11.0%	13.0%
<b>Real Asset</b>	<b>12.5%</b>	<b>18.9%</b>	<b>22.5%</b>	Yes	17.5%	17.5%
Public Real Assets	2.5%	7.4%	8.5%	Yes	5.5%	5.0%
Private Real Assets	9.0%	11.5%	15.0%	Yes	12.0%	12.5%
<b>Income</b>	<b>22.0%</b>	<b>27.1%</b>	<b>32.0%</b>	Yes	27.0%	27.0%
Public Income	15.5%	19.5%	21.5%	Yes	18.5%	17.0%
Private Income	5.5%	7.6%	11.5%	Yes	8.5%	10.0%
<b>Defensive</b>	<b>7.0%</b>	<b>8.7%</b>	<b>17.0%</b>	Yes	12.0%	12.0%
GRIPs	2.0%	2.8%	8.0%	Yes	5.0%	5.0%
Systematic Convexity	4.0%	5.3%	10.0%	Yes	7.0%	7.0%
Cash	0.0%	0.6%	3.0%	Yes	0.0%	0.0%

## Portfolio Liquidity

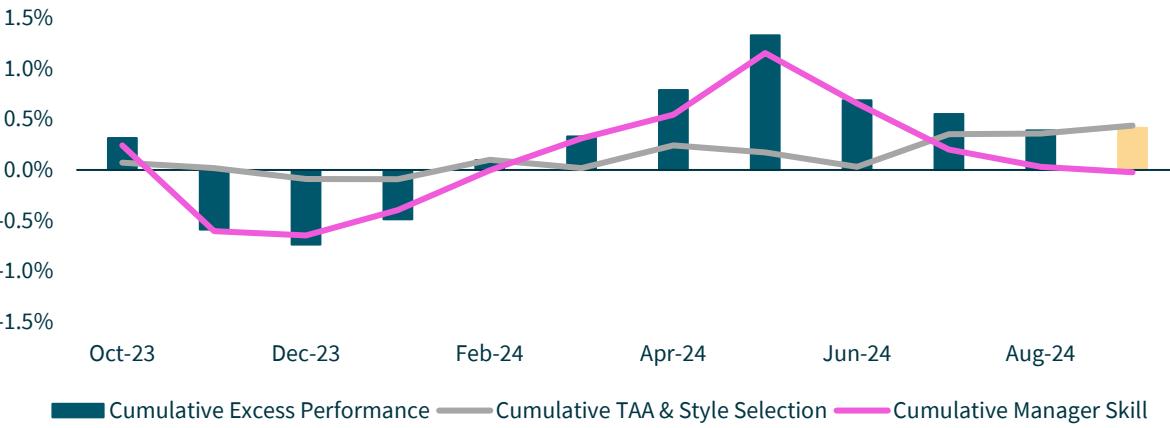


# Performance Review/Attribution – Total Portfolio

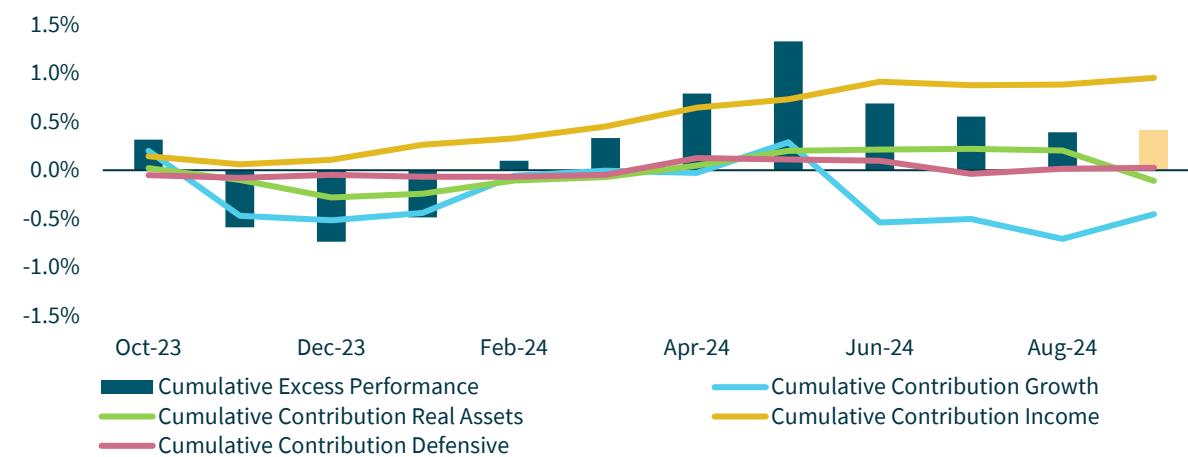


	Asset Allocation (As of Q3 2024)			Performance (As of Q3 2024)									1 Year Excess Return Attribution			
	End Q3 2024			5 Years			3 Years			1 Year			SAA	TAA & Style Selection	Manager Skill	Contr. To Excess
	Portfolio	Interim Benchmark	Difference	Portfolio	Interim Benchmark	Difference	Portfolio	Interim Benchmark	Difference	Portfolio	Interim Benchmark	Difference				
<b>Total</b>	100	100	<b>0</b>	7.43	8.15	<b>(0.72)</b>	5.44	4.73	<b>0.71</b>	15.39	14.97	<b>0.42</b>	14.97%	<span style="color: green;">▲ 0.44%</span>	<span style="color: red;">▼ -0.02%</span>	<span style="color: green;">▲ 0.42%</span>
<b>Growth</b>	45.3	43.5	<b>1.8</b>	11.34	11.79	<b>(0.45)</b>	6.05	4.96	<b>1.09</b>	22.11	23.42	<b>(1.31)</b>	10.11%	<span style="color: red;">-0.03%</span>	<span style="color: red;">-0.43%</span>	<span style="color: red;">-0.45%</span>
<b>Real Asset</b>	18.9	17.5	<b>1.4</b>	6.51	6.82	<b>(0.31)</b>	7.69	5.31	<b>2.38</b>	6.94	7.89	<b>(0.95)</b>	1.35%	<span style="color: green;">-0.14%</span>	<span style="color: green;">0.03%</span>	<span style="color: red;">-0.11%</span>
<b>Income</b>	27.1	27.0	<b>0.1</b>	4.83	6.08	<b>(1.25)</b>	5.11	5.26	<b>(0.15)</b>	13.66	10.71	<b>2.95</b>	2.88%	<span style="color: green;">0.49%</span>	<span style="color: green;">0.47%</span>	<span style="color: green;">▲ 0.95%</span>
<b>Defensive</b>	8.7	12.0	<b>(3.3)</b>	1.66	2.87	<b>(1.21)</b>	0.01	0.73	<b>(0.72)</b>	6.17	5.59	<b>0.58</b>	0.63%	<span style="color: green;">0.12%</span>	<span style="color: red;">-0.10%</span>	<span style="color: green;">▲ 0.03%</span>

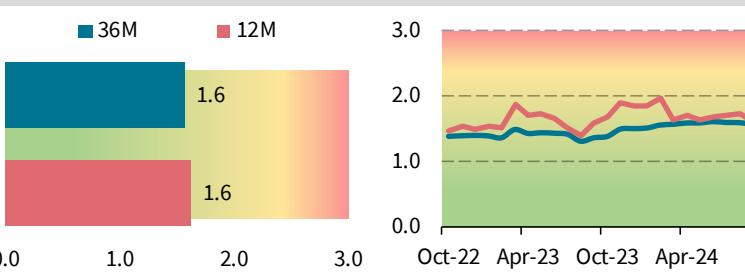
Cumulative Excess Return by Type



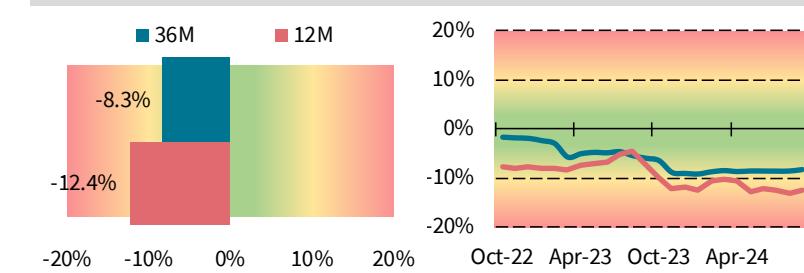
Cumulative Excess Return by GRID



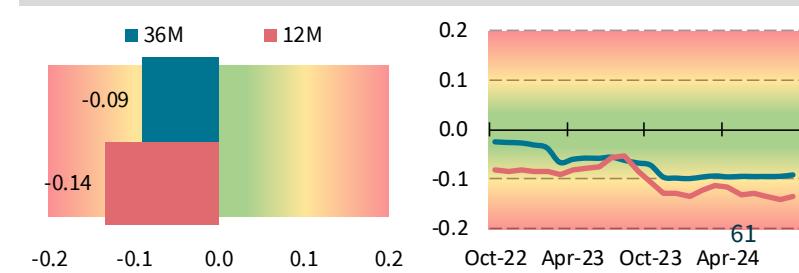
Total Portfolio - Tracking Error



Total Portfolio - Relative VaR(95%)

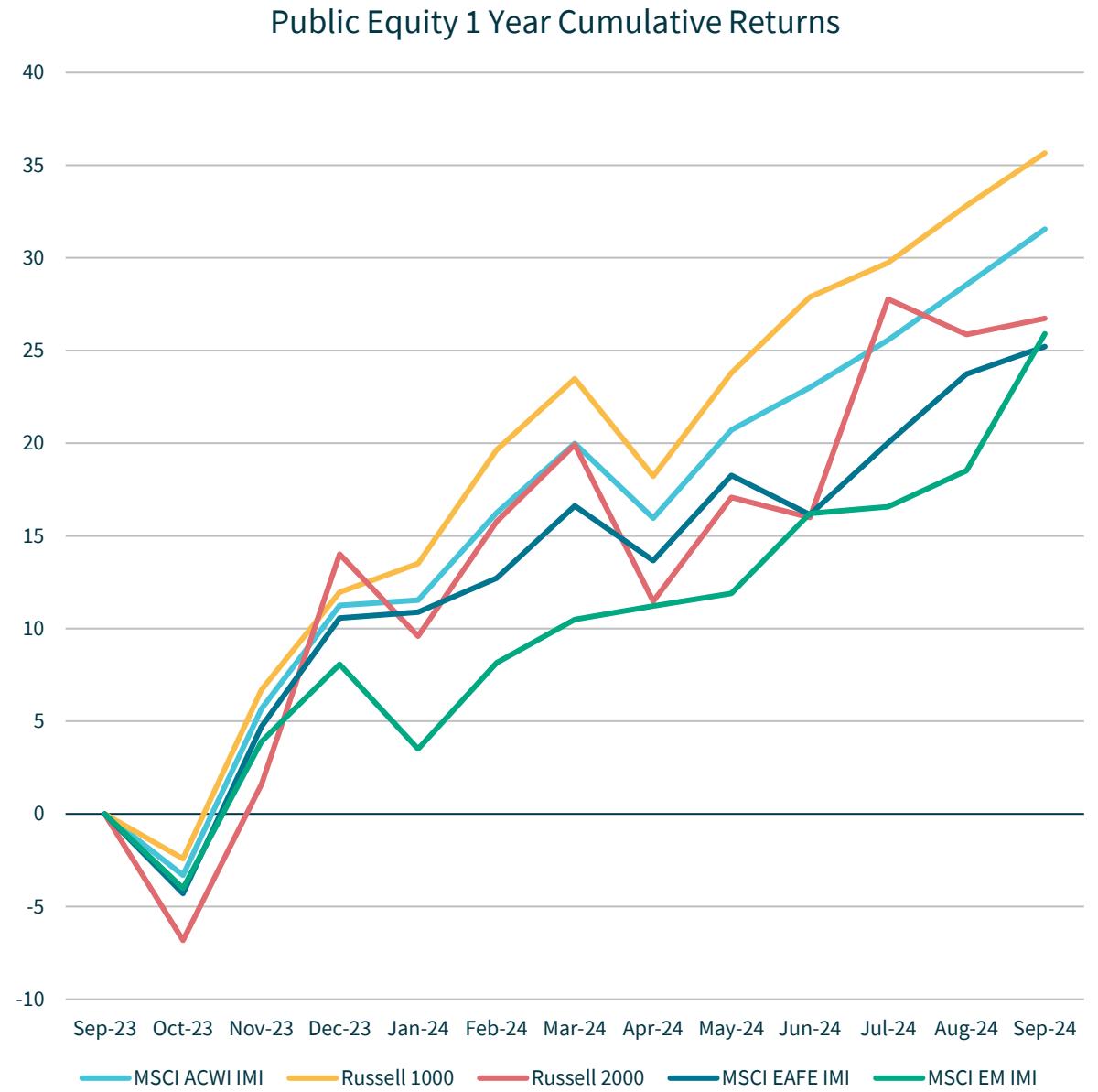


Total Portfolio - Excess Benchmark Beta



## Growth

- Public Equity structure returns were strongly positive over the trailing one year. Dominant themes include the AI growth narrative, continued disinflation, and a strong US economy that has surprised many.
- The volatile Yen carry trade unwind and “growth scare” in early August proved short lived, as US equity indices promptly recovered to new all-time highs alongside reassuring economic data.
- Valuations have rebounded broadly across Private Equity. Deal volume in Buyout/Growth is on pace to be the third highest year of all time. AI/ML are bolstering VC while distributions and profitable exits are at their lowest levels since at least the GFC.

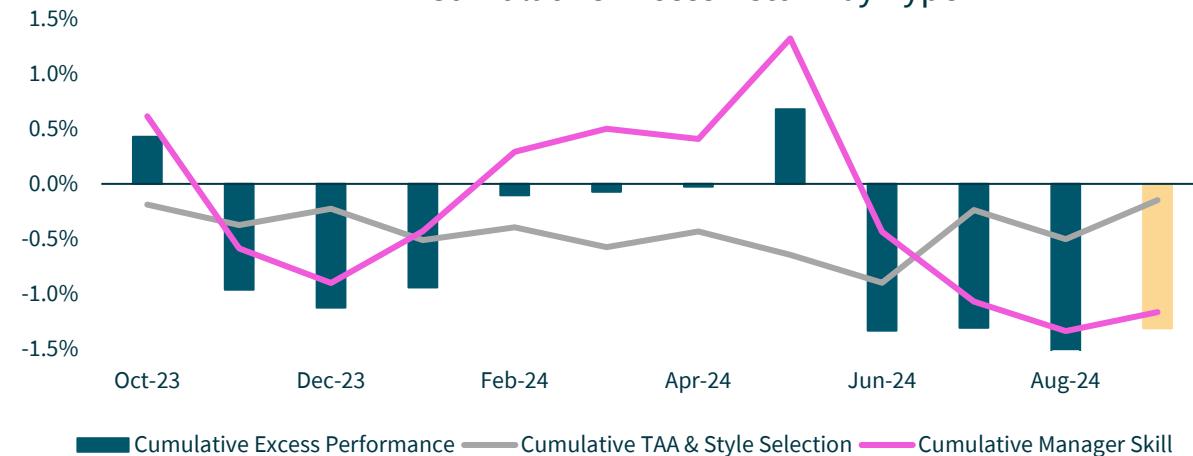


# Performance Review/Attribution – Growth

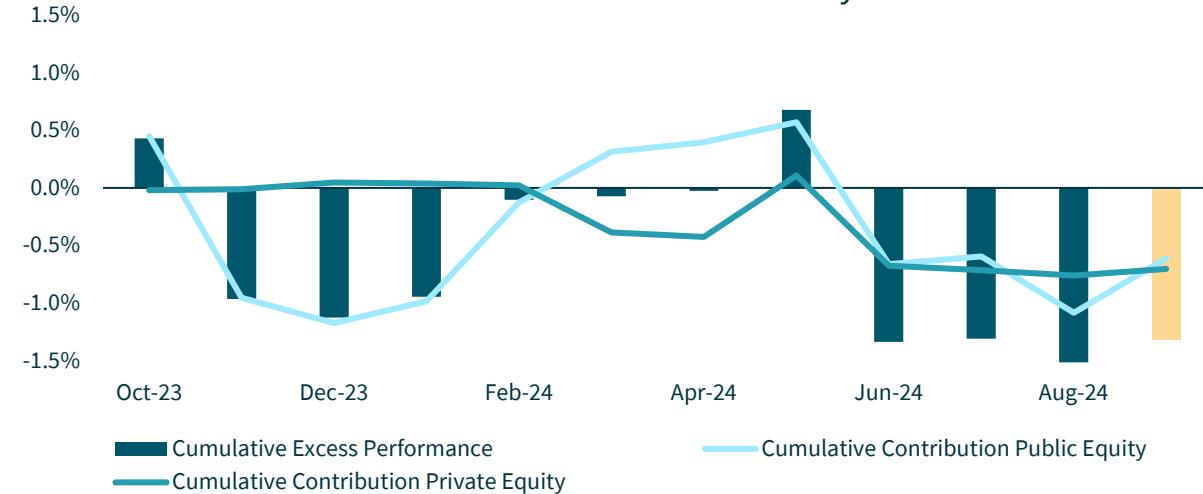


	Asset Allocation (As of Q3 2024)			Performance (As of Q3 2024)									1 Year Excess Return Attribution			
	End Q3 2024			5 Years			3 Years			1 Year			SAA	TAA & Style Selection	Manager Skill	Contr. To Excess
	Portfolio	Interim Benchmark	Difference	Portfolio	Interim Benchmark	Difference	Portfolio	Interim Benchmark	Difference	Portfolio	Interim Benchmark	Difference				
<b>Growth</b>	<b>45.3</b>	<b>43.5</b>	<b>1.8</b>	<b>11.34</b>	<b>11.79</b>	<b>(0.45)</b>	<b>6.05</b>	<b>4.96</b>	<b>1.09</b>	<b>22.11</b>	<b>23.42</b>	<b>(1.31)</b>	<b>23.42%</b>	<b>↓-0.15%</b>	<b>↓-1.17%</b>	<b>↓+1.31%</b>
Public Equity	35.5	32.5	3.0	11.48	11.17	0.31	6.96	6.61	0.35	29.11	30.96	(1.85)	23.00%	-0.01%	-0.60%	↓-0.61%
Private Equity	9.8	11.0	(1.2)	11.48	14.29	(2.81)	3.83	1.39	2.44	0.69	2.88	(2.19)	0.42%	-0.14%	-0.57%	↓-0.70%

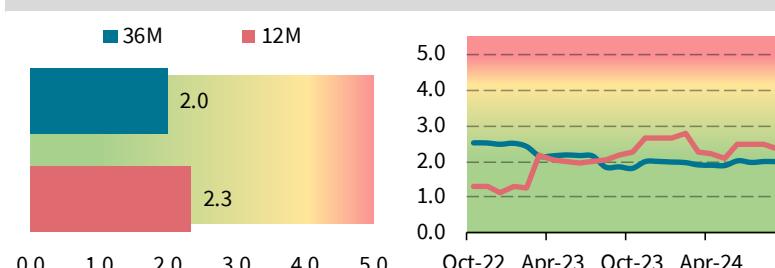
### Cumulative Excess Return by Type



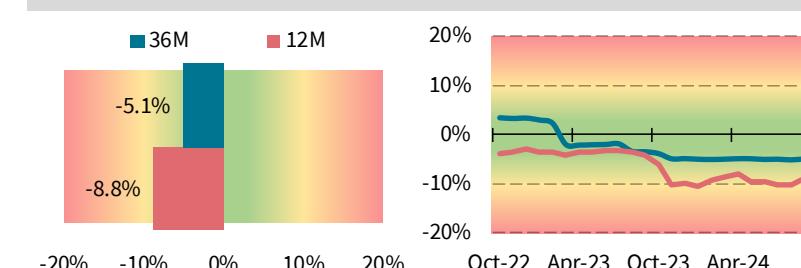
### Cumulative Excess Return by Asset Class



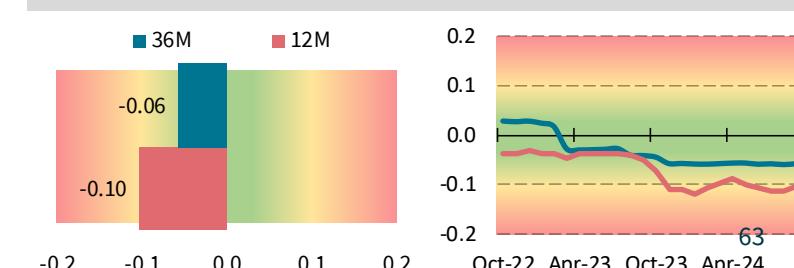
### Growth - Tracking Error



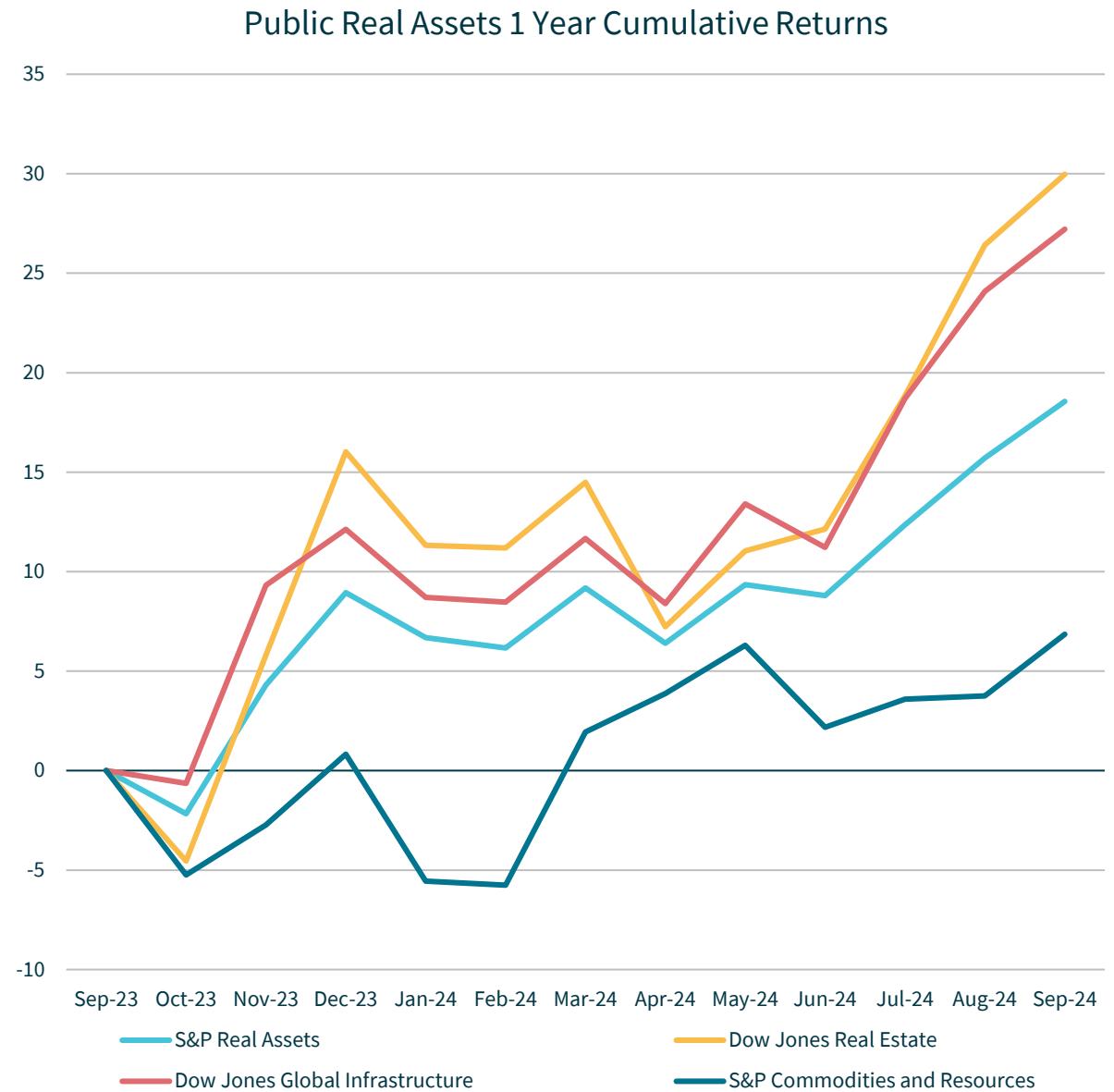
### Growth - Relative VaR(95%)



### Growth - Excess Benchmark Beta



- Public Real Assets return was strong over the trailing year, led by rate sensitive real estate and infrastructure. Natural resources lagged.
- Most major commodity markets moved lower in Q3. Some commodities linked to China had outsized reactions to the stimulus announcement in September.
- Private infrastructure has had steady returns at the benchmark level, most recently bolstered from rate cut expectations. Private natural resources performance has been mixed, although energy continues to generate attractive, yield-oriented performance. Private real estate continues to lag.

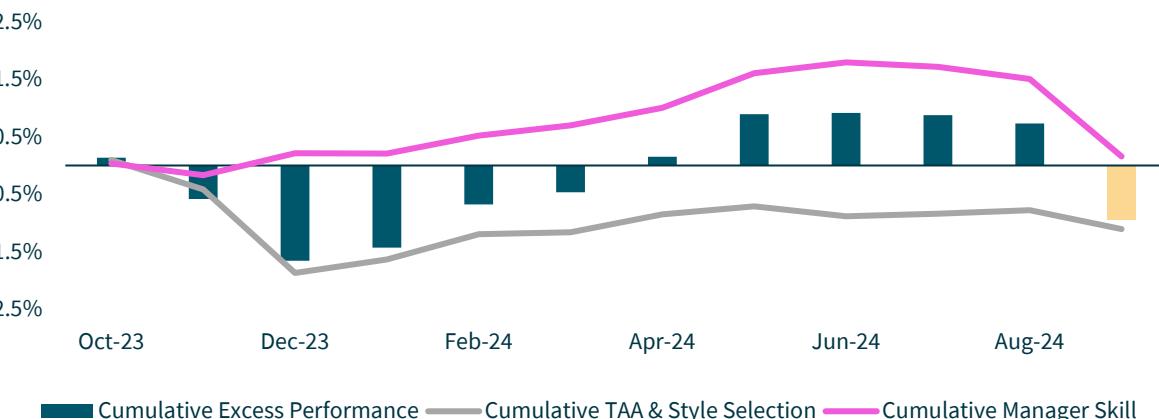


# Performance Review/Attribution – Real Assets

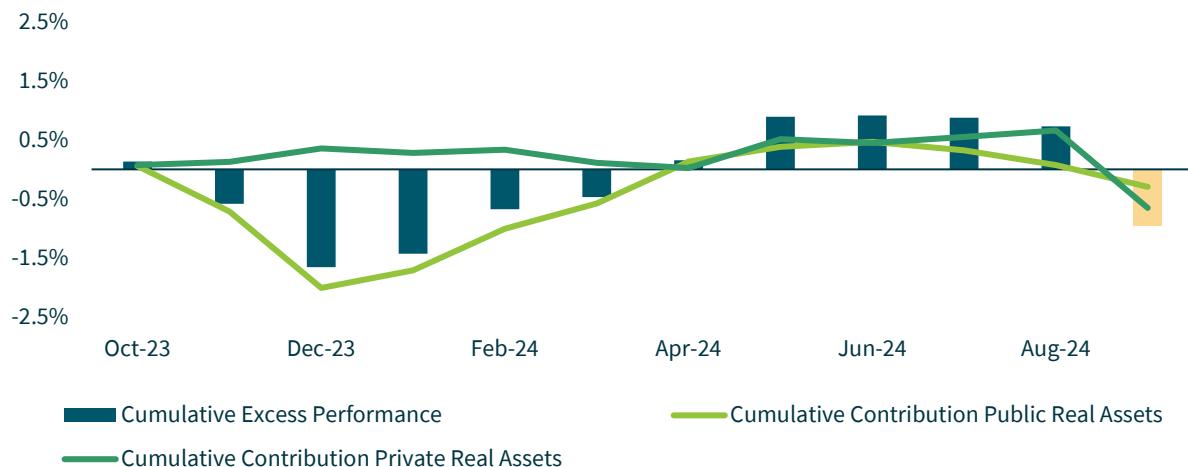


	Asset Allocation (As of Q3 2024)			Performance (As of Q3 2024)									1 Year Excess Return Attribution			
	End Q3 2024			5 Years			3 Years			1 Year			SAA	TAA & Style Selection	Manager Skill	Contr. To Excess
	Portfolio	Interim Benchmark	Difference	Portfolio	Interim Benchmark	Difference	Portfolio	Interim Benchmark	Difference	Portfolio	Interim Benchmark	Difference				
<b>Real Assets</b>	<b>18.9</b>	<b>17.5</b>	<b>1.4</b>	<b>6.51</b>	<b>6.82</b>	<b>(0.31)</b>	<b>7.69</b>	<b>5.31</b>	<b>2.38</b>	<b>6.94</b>	<b>7.89</b>	<b>(0.95)</b>	<b>7.89%</b>	<b>↓ -1.11%</b>	<b>↑ 0.16%</b>	<b>↓ -0.95%</b>
Public Real Assets	7.4	5.5	1.9	4.60	2.33	2.27	8.93	3.46	5.47	14.72	18.55	(3.83)	5.76%	-0.52%	0.22%	↓ -0.30%
Private Real Assets	11.5	12.0	(0.5)	6.77	7.20	(0.43)	7.07	8.36	(1.29)	2.46	3.15	(0.69)	2.13%	-0.59%	-0.07%	↓ -0.65%

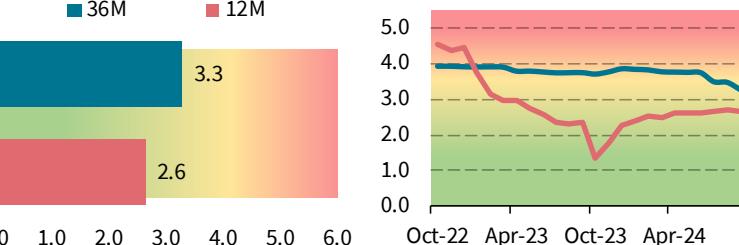
Cumulative Excess Return by Type



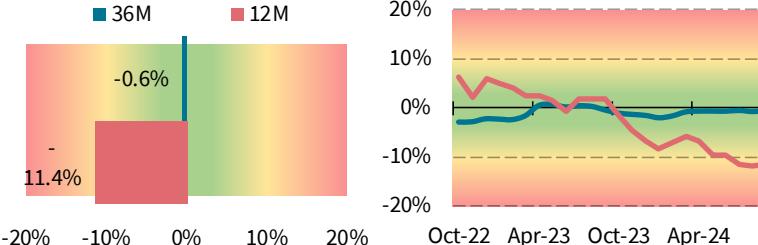
Cumulative Excess Return by Asset Class



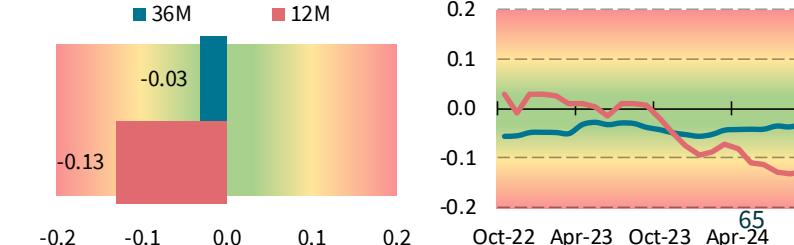
Real Assets - Tracking Error



Real Assets - Relative VaR(95%)

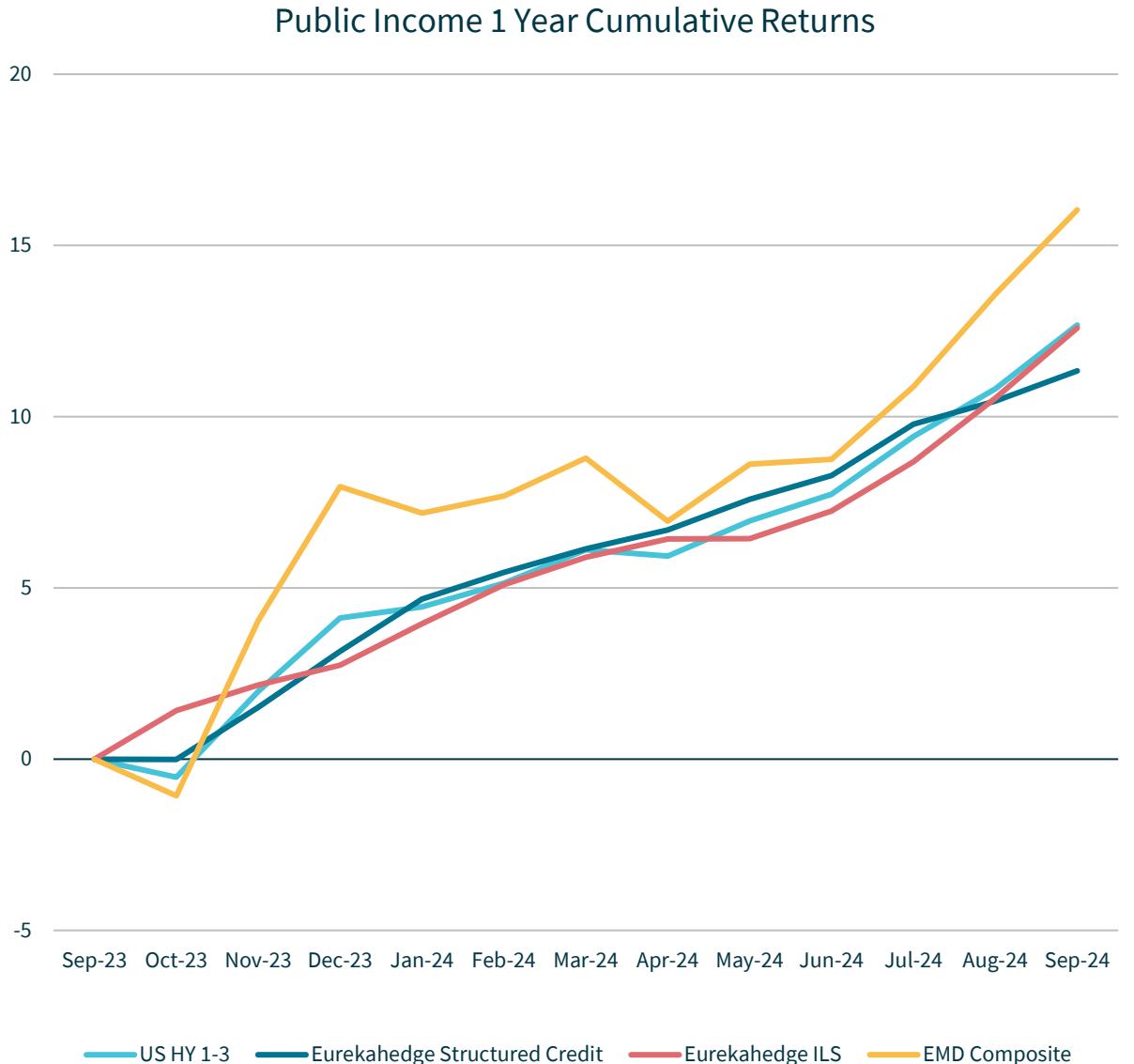


Real Assets - Excess Benchmark Beta



65

- Public Income structure indices had solid positive performance over the trailing one year, continuing to benefit from elevated base rates and spread compression.
- In Q3, the EMD composite had particularly strong performance as the dollar weakened alongside the carry trade unwind and anticipation of lower interest rates in the US.
- Hurricane Helene's landfall in September did not lead to major losses for private insurers.
- Private Income lagged at the benchmark level with less spread compression than Public Income. Yields continue to look healthy and default rates are benign.



# Performance Review/Attribution – Income



	Asset Allocation (As of Q3 2024)			Performance (As of Q3 2024)									1 Year Excess Return Attribution			
	End Q3 2024			5 Years			3 Years			1 Year			SAA	TAA & Style Selection	Manager Skill	Contr. To Excess
	Portfolio	Interim Benchmark	Difference	Portfolio	Interim Benchmark	Difference	Portfolio	Interim Benchmark	Difference	Portfolio	Interim Benchmark	Difference				
<b>Income</b>	<b>27.1</b>	<b>27.0</b>	<b>0.1</b>	<b>4.83</b>	<b>6.08</b>	<b>(1.25)</b>	<b>5.11</b>	<b>5.26</b>	<b>(0.15)</b>	<b>13.66</b>	<b>10.71</b>	<b>2.95</b>	<b>10.71%</b>	<b>1.37%</b>	<b>1.57%</b>	<b>2.95%</b>
Public Income	19.5	18.5	1.0	4.00	4.93	(0.93)	5.05	4.68	0.37	15.09	12.68	2.41	8.70%	1.70%	0.69%	2.38%
Private Income	7.6	8.5	(0.9)	8.11	9.14	(1.03)	5.77	7.44	(1.67)	9.80	6.48	3.32	2.01%	-0.32%	0.89%	0.56%

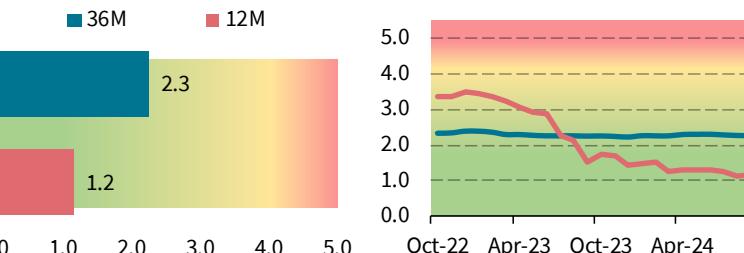
Cumulative Excess Return by Type



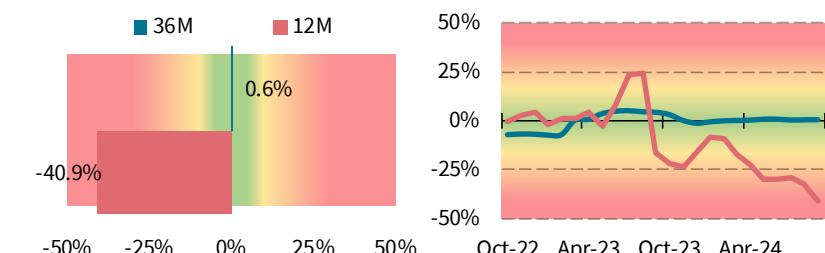
Cumulative Excess Return by Asset Class



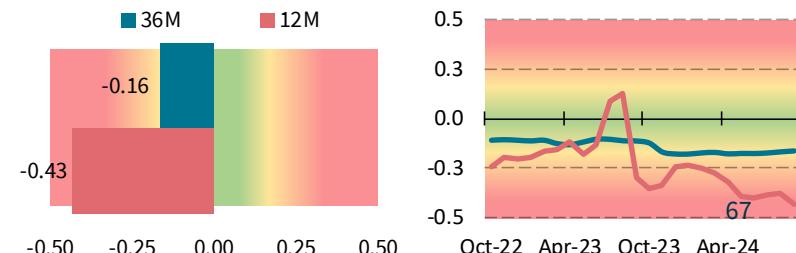
Income - Tracking Error



Income - Relative VaR(95%)

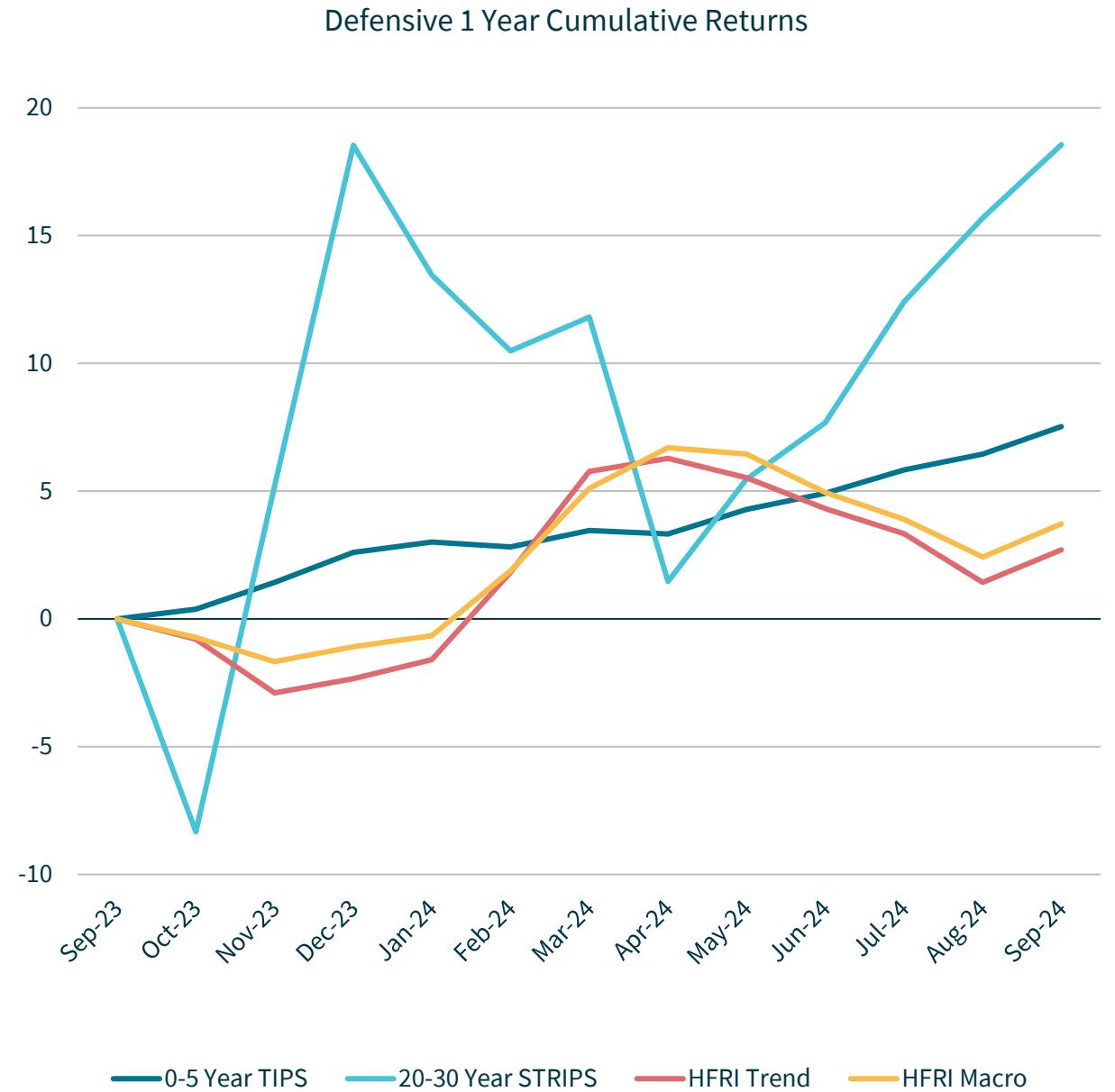


Income - Excess Benchmark Beta



## Defensive

- The Defensive benchmarks had mixed performance over the trailing one year.
- Long term interest rates fell in Q3 alongside the August volatility and expectations for imminent rate cuts in the US, driving performance in STRIPS.
- Trend had good performance in Q1 but gave up some gains in Q2 and Q3 with market reversals (e.g., Yen). Dispersion has been higher than usual across managers and styles.
- The August volatility event surprised most Macro managers. Markets moved against each leg of the consensus “Japan trade.” In contrast, September was a good month for most Macro managers with profitable trades around the US rate cut, curve steepening, and gold.

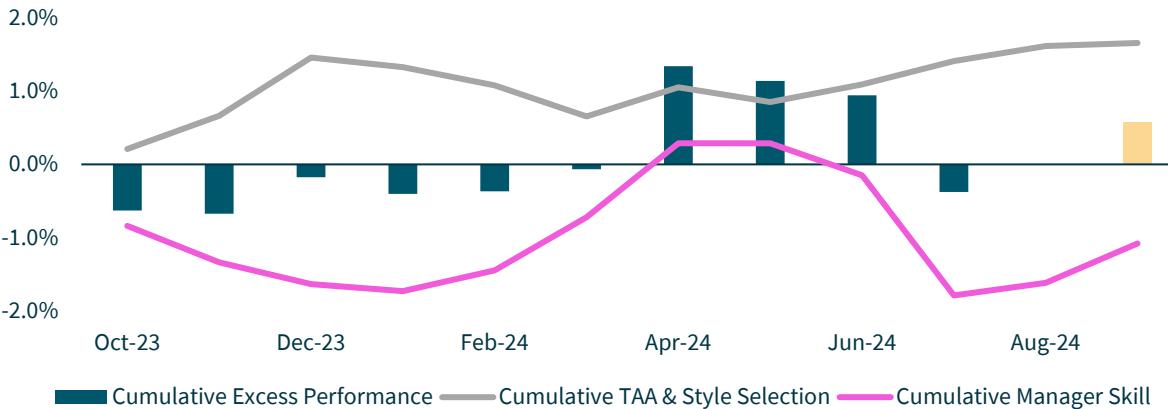


# Performance Review/Attribution – Defensive

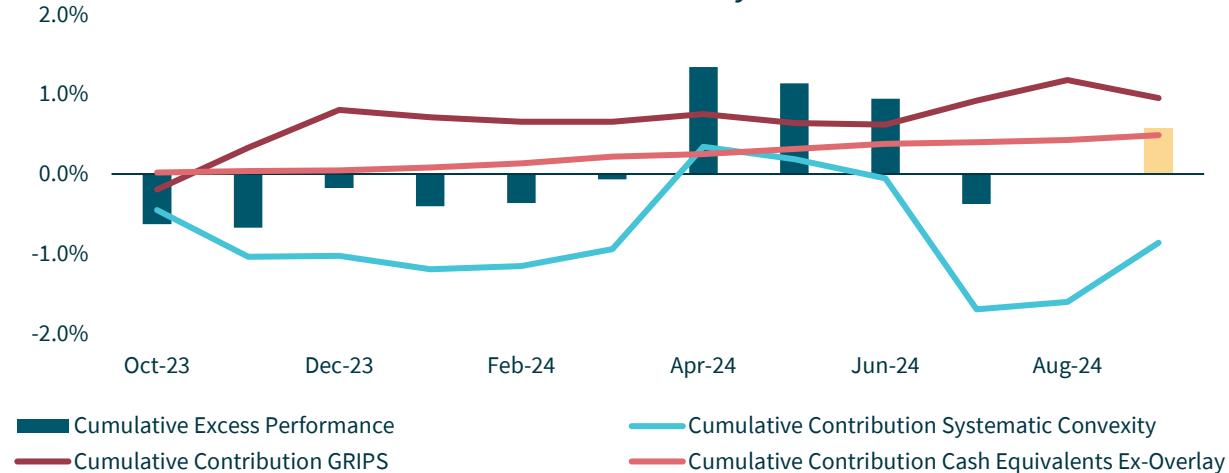


	Asset Allocation (As of Q3 2024)			Performance (As of Q3 2024)									1 Year Excess Return Attribution			
	End Q3 2024			5 Years			3 Years			1 Year			SAA	TAA & Style Selection	Manager Skill	Contr. To Excess
	Portfolio	Interim Benchmark	Difference	Portfolio	Interim Benchmark	Difference	Portfolio	Interim Benchmark	Difference	Portfolio	Interim Benchmark	Difference				
<b>Defensive</b>	<b>8.7</b>	<b>12.0</b>	<b>(3.3)</b>	<b>1.66</b>	<b>2.87</b>	<b>(1.21)</b>	<b>0.01</b>	<b>0.73</b>	<b>(0.72)</b>	<b>6.17</b>	<b>5.59</b>	<b>0.58</b>	<b>5.59%</b>	<b>1.66%</b>	<b>-1.08%</b>	<b>0.58%</b>
GRIPs	2.8	5.0	(2.2)	1.66	(0.81)	2.47	(4.94)	(5.53)	0.59	18.00	13.63	4.37	5.78%	1.91%	-0.96%	0.95%
Systematic Convexity	5.3	7.0	(1.7)	1.62	5.39	(3.77)	2.01	4.65	(2.64)	(0.42)	(0.36)	(0.06)	-0.18%	-0.74%	-0.13%	-0.86%
Cash Ex-Overlay	0.6	0.0	0.6	2.35	2.32	0.03	3.59	3.49	0.10	5.51	5.46	0.05	0.00%	0.48%	0.01%	0.49%

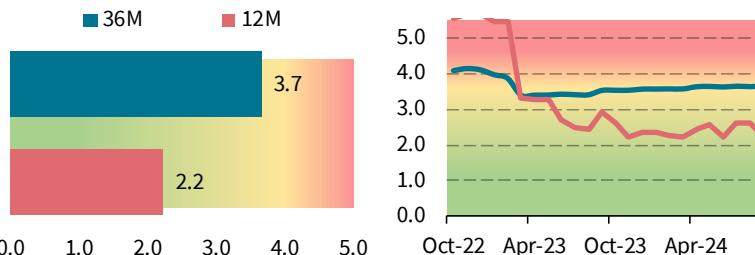
Cumulative Excess Return by Type



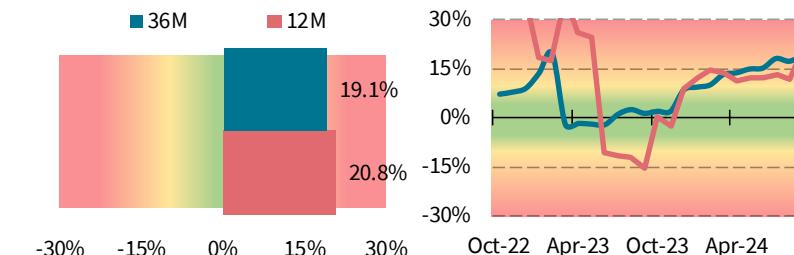
Cumulative Excess Return by Asset Class



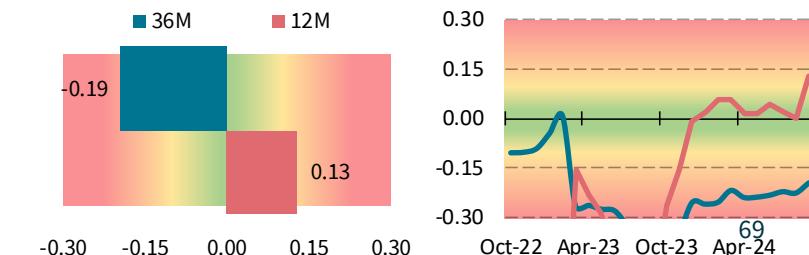
Defensive - Tracking Error



Defensive - Relative VaR(95%)



Defensive - Excess Benchmark Beta



# Appendix

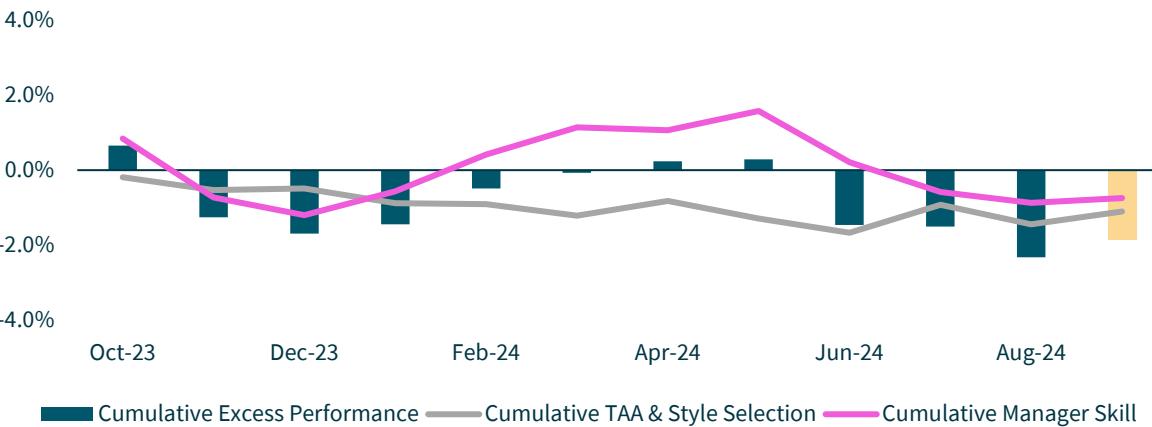
# Performance Review/Attribution – Public Equity



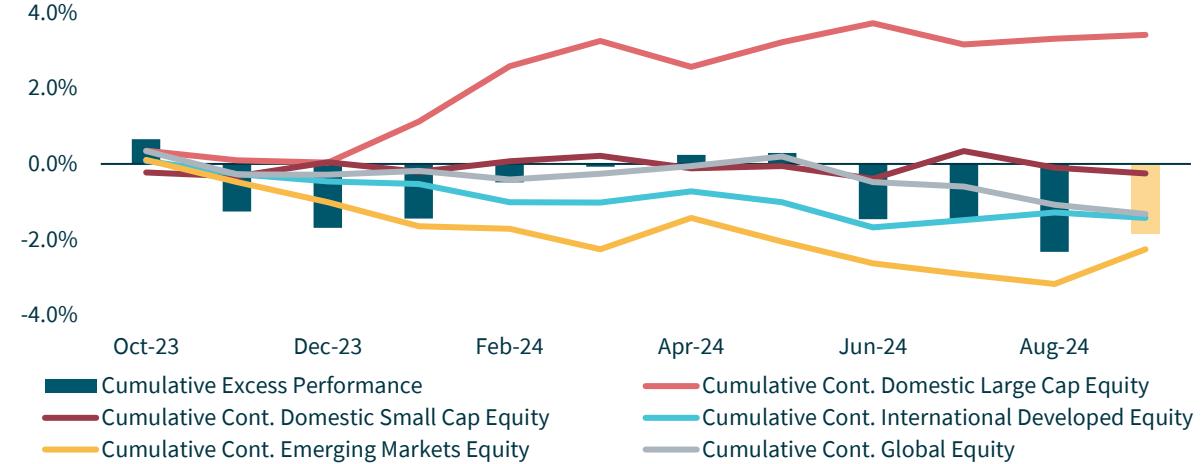
	Asset Allocation (As of Q3 2024)			Performance (As of Q3 2024)									1 Year Excess Return Attribution			
	End Q3 2024			5 Years			3 Years			1 Year			SAA	TAA & Style Selection	Manager Skill	Contr. To Excess
	Portfolio	Interim Benchmark*	Difference	Portfolio	Interim Benchmark*	Difference	Portfolio	Interim Benchmark*	Difference	Portfolio	Interim Benchmark*	Difference				
<b>Public Equity</b>	<b>35.5</b>	<b>32.5</b>	<b>3.0</b>	<b>11.48</b>	<b>11.17</b>	<b>0.31</b>	<b>6.96</b>	<b>6.61</b>	<b>0.35</b>	<b>29.11</b>	<b>30.96</b>	<b>(1.85)</b>	<b>30.96%</b>	<b>↓-1.10%</b>	<b>↓-0.75%</b>	<b>↓-1.85%</b>
Global Equity	12.7	N/A	N/A	N/A	11.17	N/A	8.12	6.61	1.51	27.06	30.96	(3.90)	N/A	0.08%	-1.40%	↓-1.32%
US Large Cap	8.4	N/A	N/A	17.07	11.17	5.90	13.52	6.61	6.91	45.83	30.96	14.87	N/A	1.12%	2.30%	↑3.42%
US Small Cap	3.0	N/A	N/A	13.15	11.17	1.98	5.28	6.61	(1.33)	27.89	30.96	(3.07)	N/A	-0.44%	0.19%	↓-0.25%
Int'l Equity	6.7	N/A	N/A	7.11	11.17	(4.06)	3.88	6.61	(2.73)	23.50	30.96	(7.46)	N/A	-1.37%	-0.06%	↓-1.43%
Emerging Market	4.6	N/A	N/A	5.28	11.17	(5.89)	0.37	6.61	(6.24)	16.30	30.96	(14.66)	N/A	-0.49%	-1.77%	↓-2.26%

\*Interim Benchmark for each Public Equity sub asset class is the MSCI ACWI IMI.

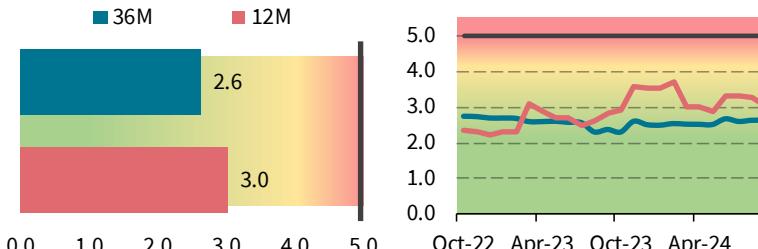
Cumulative Excess Return by Type



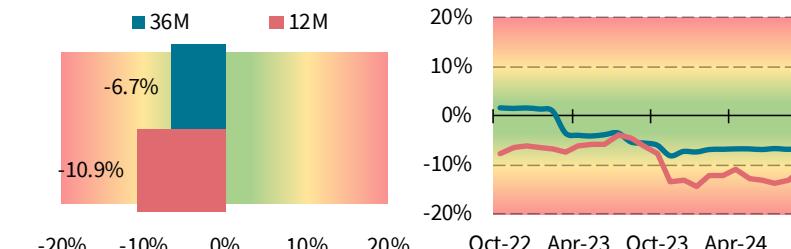
Cumulative Excess Return by Sub-Asset Class



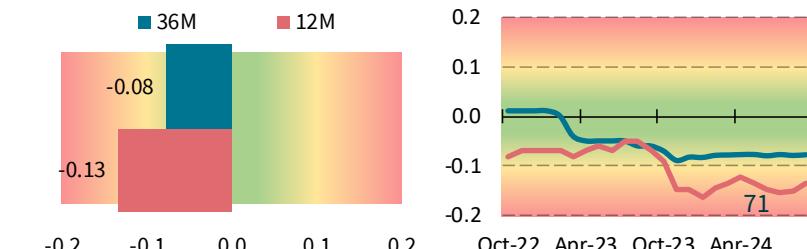
Public Equity - Tracking Error



Public Equity - Relative VaR(95%)



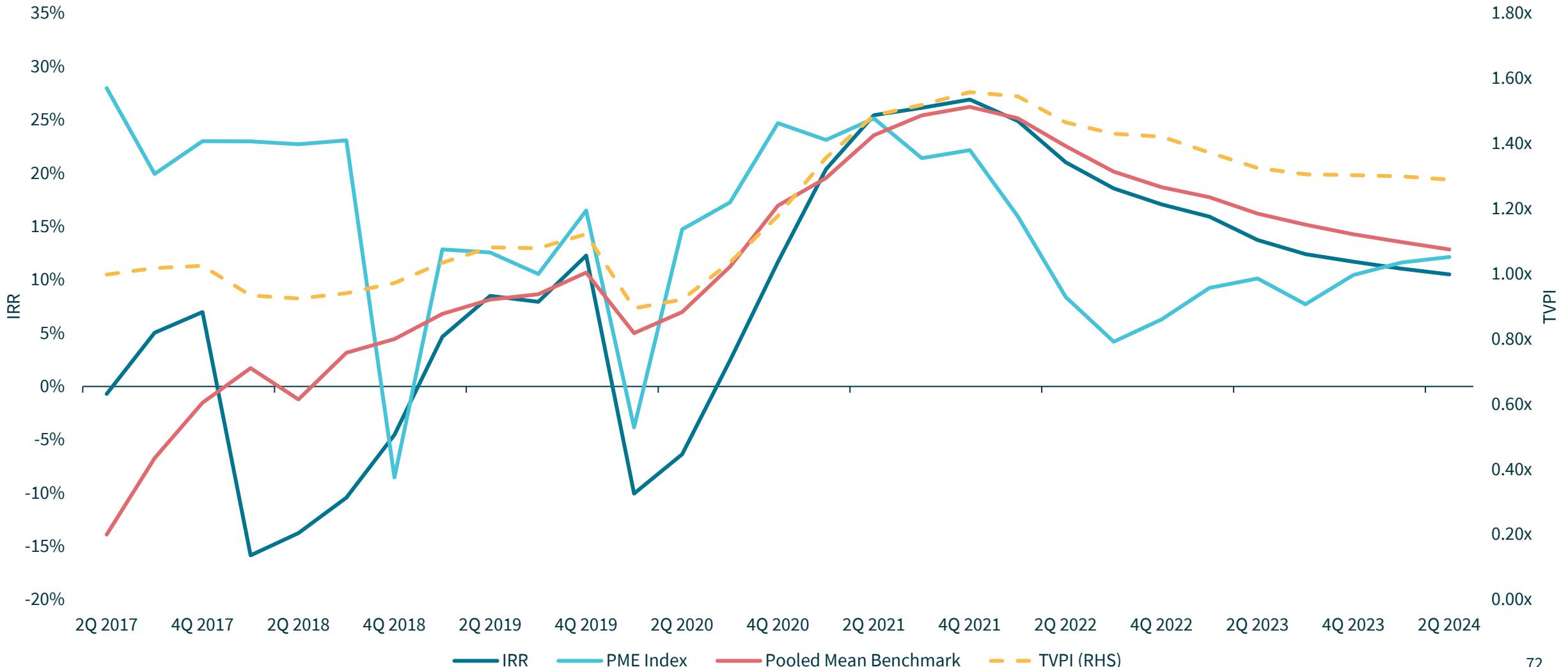
Public Equity - Excess Benchmark Beta



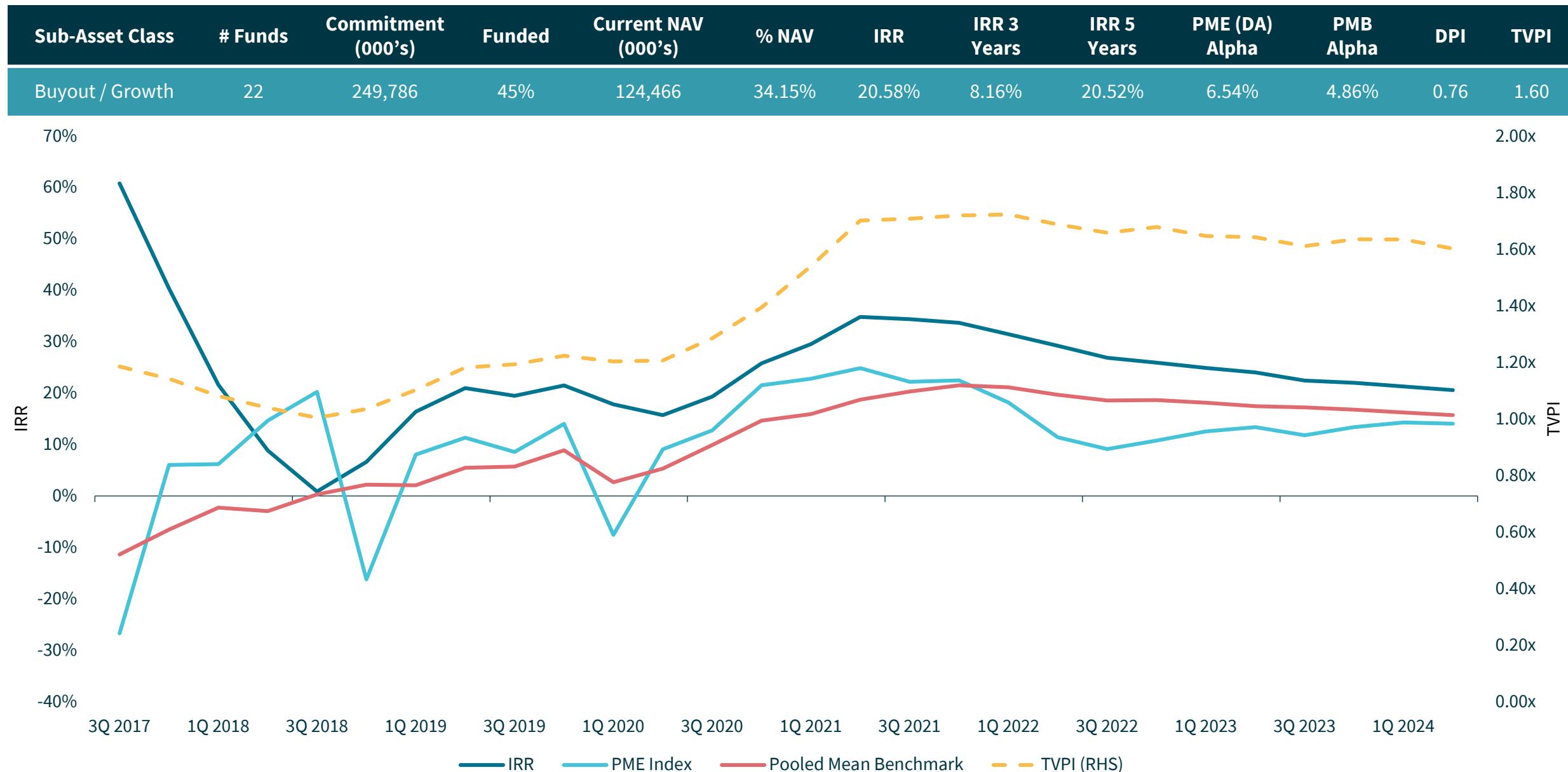
# Private Equity



Asset Class	# Funds	Commitment (000's)	Funded	Current NAV (000's)	% NAV	IRR	IRR 3 Years	IRR 5 Years	PME (DA) Alpha	PMB Alpha	DPI	TVPI
Private Equity	73	579,838	59%	364,487	100.00%	10.51%	2.5%	10.70%	-1.63%	-2.35%	0.36	1.29



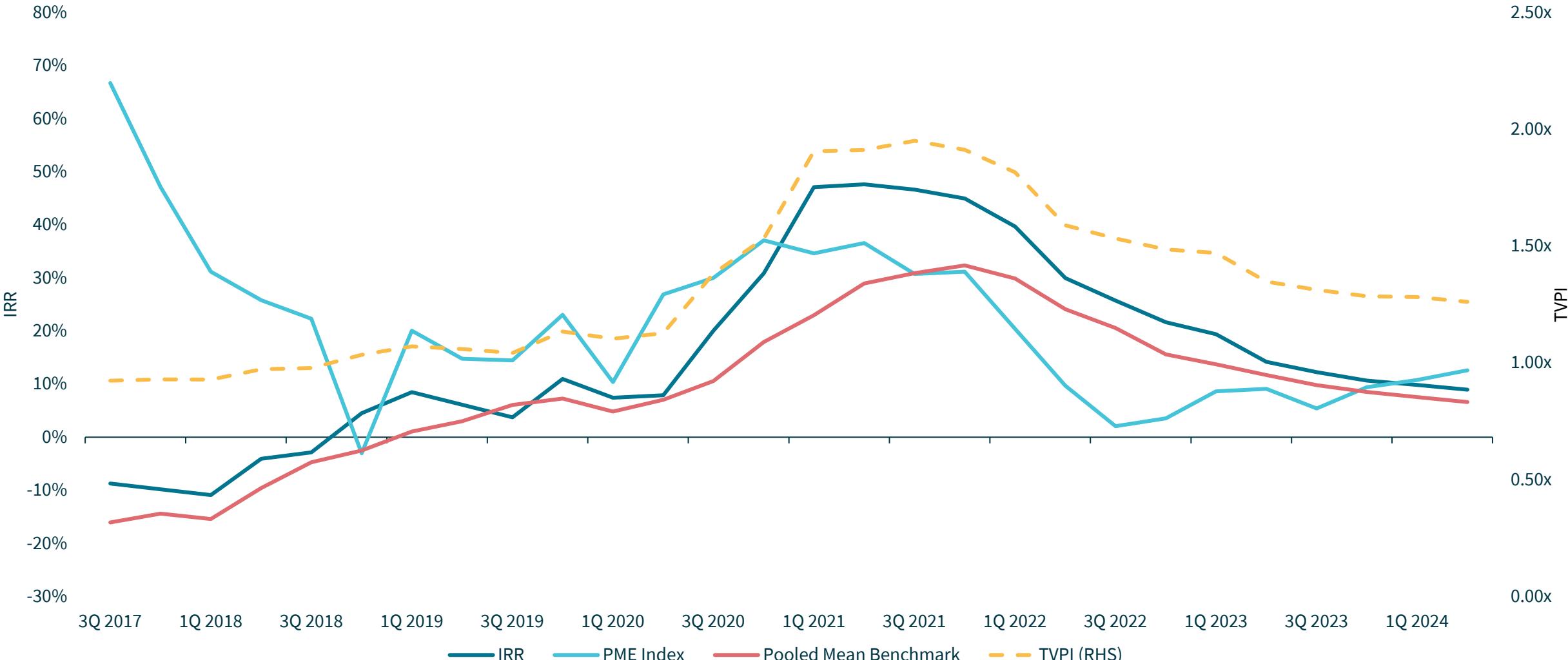
# Private Equity – Buyout/Growth



# Private Equity – Venture



Sub-Asset Class	# Funds	Commitment (000's)	Funded	Current NAV (000's)	% NAV	IRR	IRR 3 Years	IRR 5 Years	PME (DA) Alpha	PMB Alpha	DPI	TVPI
Venture	36	208,326	61%	154,411	42.36%	8.94%	-2.78%	9.11%	-3.68%	2.34%	0.08	1.26



# Private Equity – Opportunistic / Secondaries



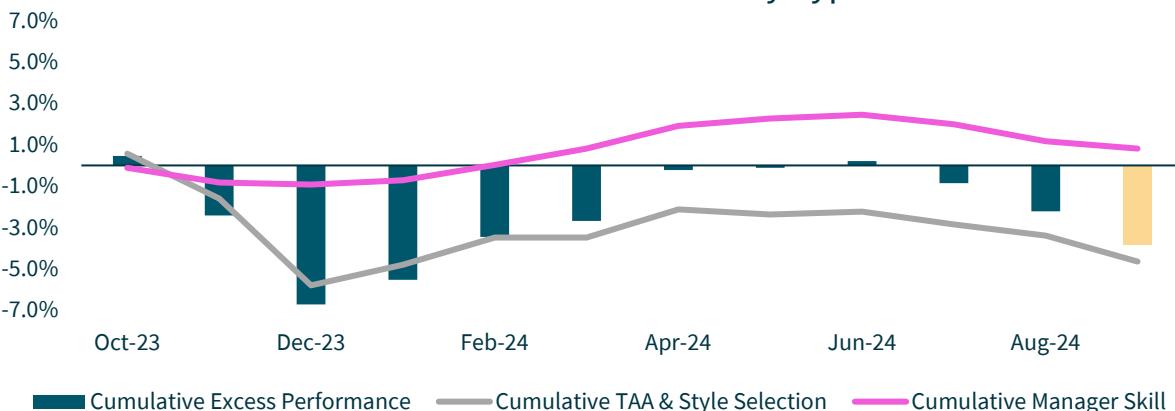
# Performance Review/Attribution – Public Real Assets



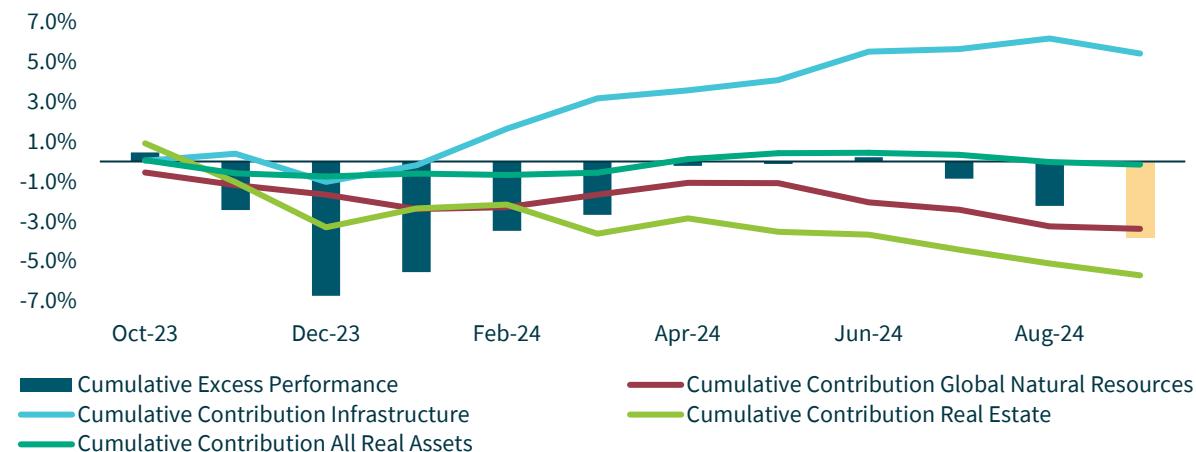
	Asset Allocation (As of Q3 2024)			Performance (As of Q3 2024)									1 Year Excess Return Attribution			
	End Q3 2024			5 Years			3 Years			1 Year			SAA*	TAA & Style Selection	Manager Skill	Contr. To Excess
	Portfolio	Interim Benchmark*	Difference	Portfolio	Interim Benchmark*	Difference	Portfolio	Interim Benchmark*	Difference	Portfolio	Interim Benchmark*	Difference				
<b>Public Real Assets</b>	7.4	5.5	1.9	4.60	2.33	2.27	8.93	3.46	5.47	14.72	18.55	(3.83)	18.55%	↓ -4.65%	↑ 0.81%	↓ -3.83%
Real Estate	1.8	N/A	N/A	N/A	2.33	N/A	0.61	3.46	(2.85)	(0.61)	18.55	(19.16)	N/A	-7.38%	1.68%	↓ -5.70%
Infrastructure	3.4	N/A	N/A	7.60	2.33	5.27	15.17	3.46	11.71	31.53	18.55	12.98	N/A	5.76%	-0.36%	↑ 5.40%
Global Natural Resources	1.4	N/A	N/A	N/A	2.33	N/A	7.86	3.46	4.40	4.48	18.55	(14.07)	N/A	-3.03%	-0.34%	↓ -3.37%
All Real Assets	0.7	N/A	N/A	N/A	2.33	N/A	N/A	3.46	N/A	17.19	18.55	(1.36)	N/A	0.00%	-0.16%	↓ -0.16%

\*Interim Benchmark for each Public Real Assets sub asset class is the SPRAUT Index.

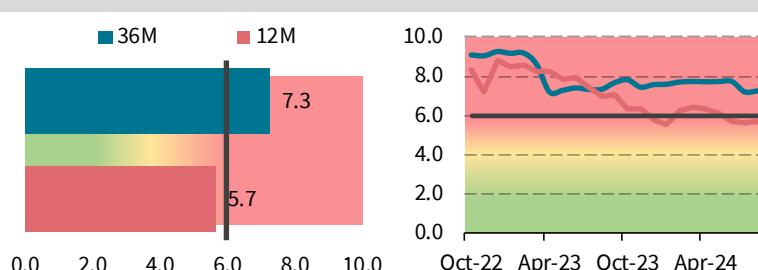
Cumulative Excess Return by Type



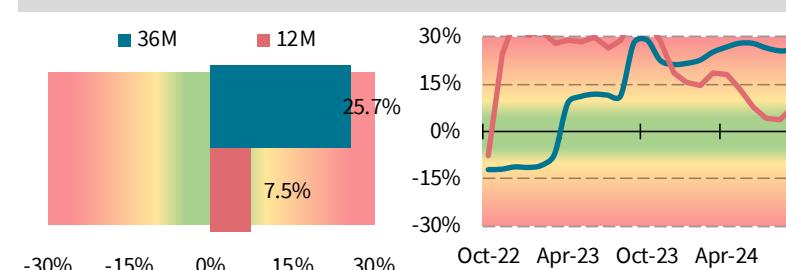
Cumulative Excess Return by Sub-Asset Class



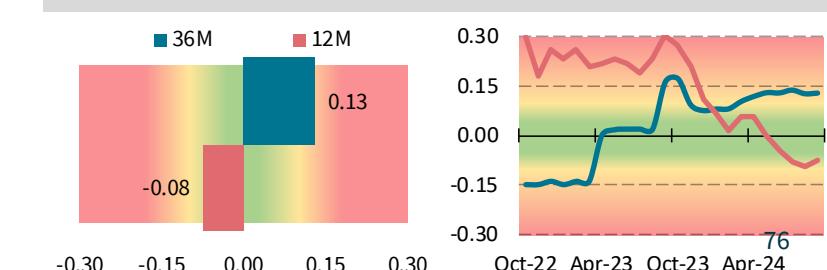
Public Real Assets - Tracking Error



Public Real Assets - Relative VaR(95%)



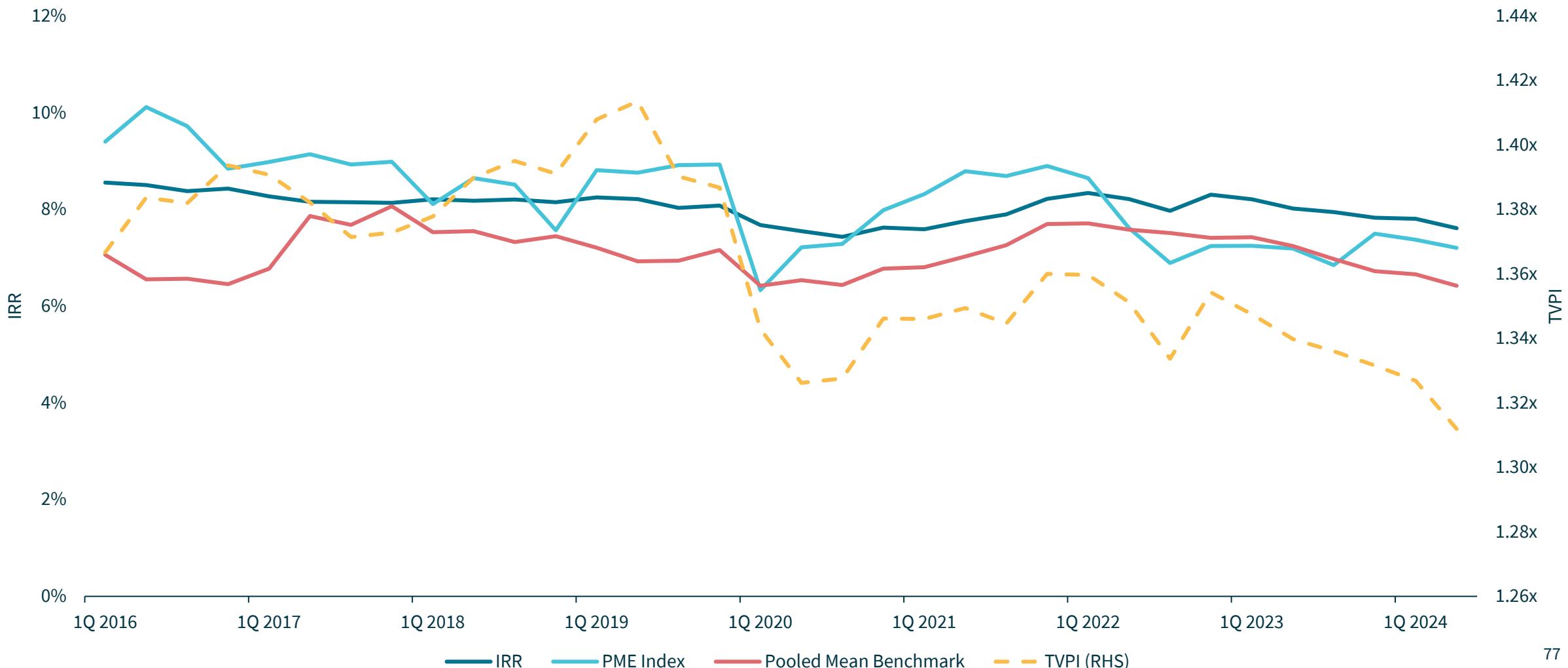
Public Real Assets - Excess Benchmark Beta



# Private Real Assets



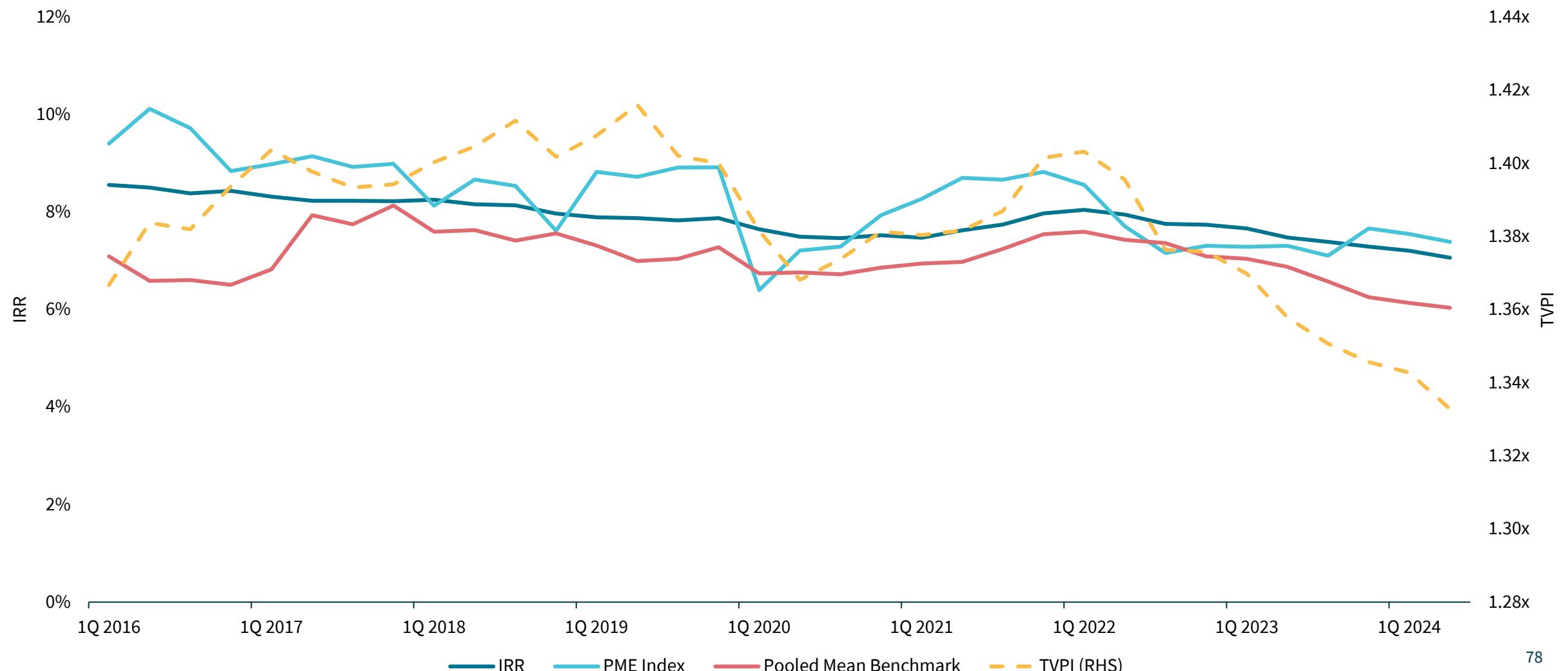
Asset Class	# Funds	Commitment (000's)	Funded	Current NAV (000's)	% NAV	IRR	IRR 3 Years	IRR 5 Years	PME (DA) Alpha	PMB Alpha	DPI	TVPI
Private Real Assets	66	909,363	79%	430,368	100.00%	7.62%	6.93%	6.2%	0.41%	1.19%	0.79	1.31



# Private Real Assets – Real Estate



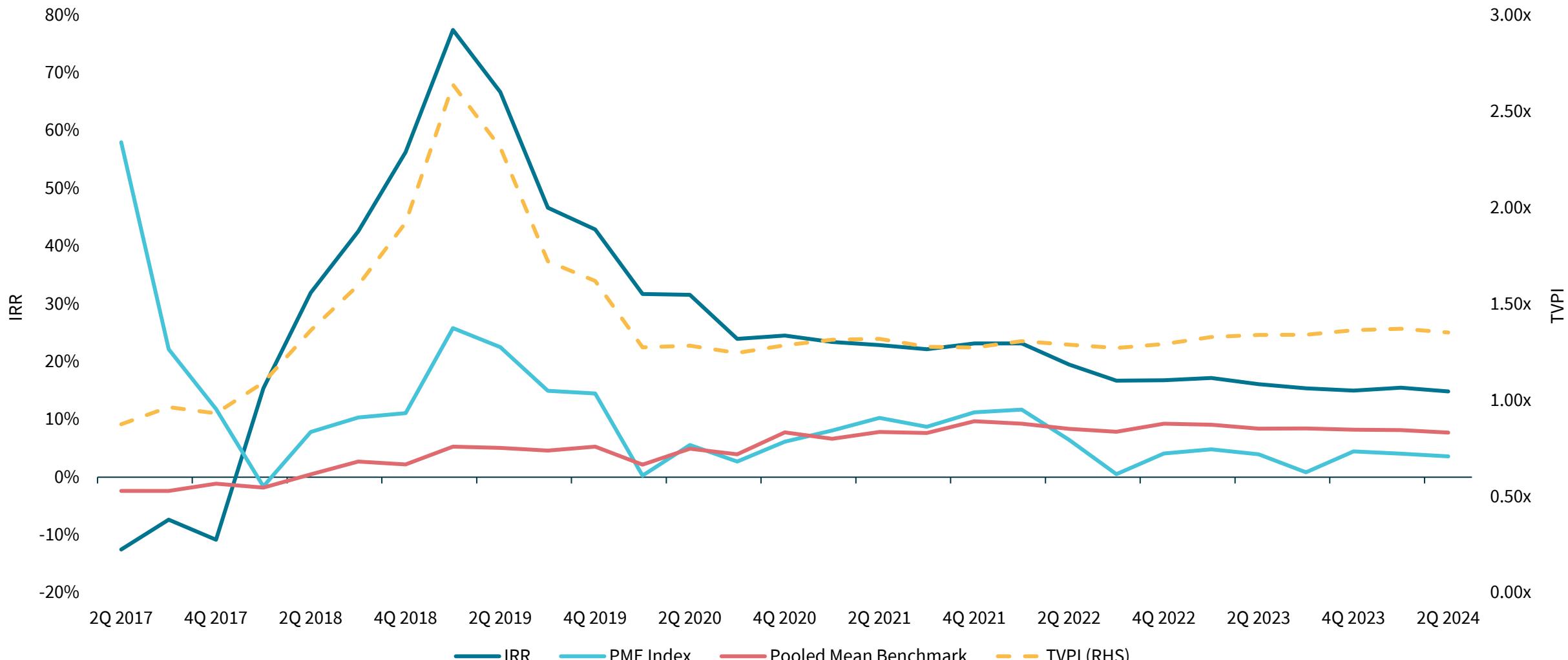
Sub-Asset Class	# Funds	Commitment (000's)	Funded	Current NAV (000's)	% NAV	IRR	IRR 3 Years	IRR 5 Years	PME (DA) Alpha	PMB Alpha	DPI	TVPI
Real Estate	24	598,192	82%	169,051	39.28%	7.06%	2.06%	4.00%	-0.32%	1.03%	1.03	1.33



# Private Real Assets - Infrastructure



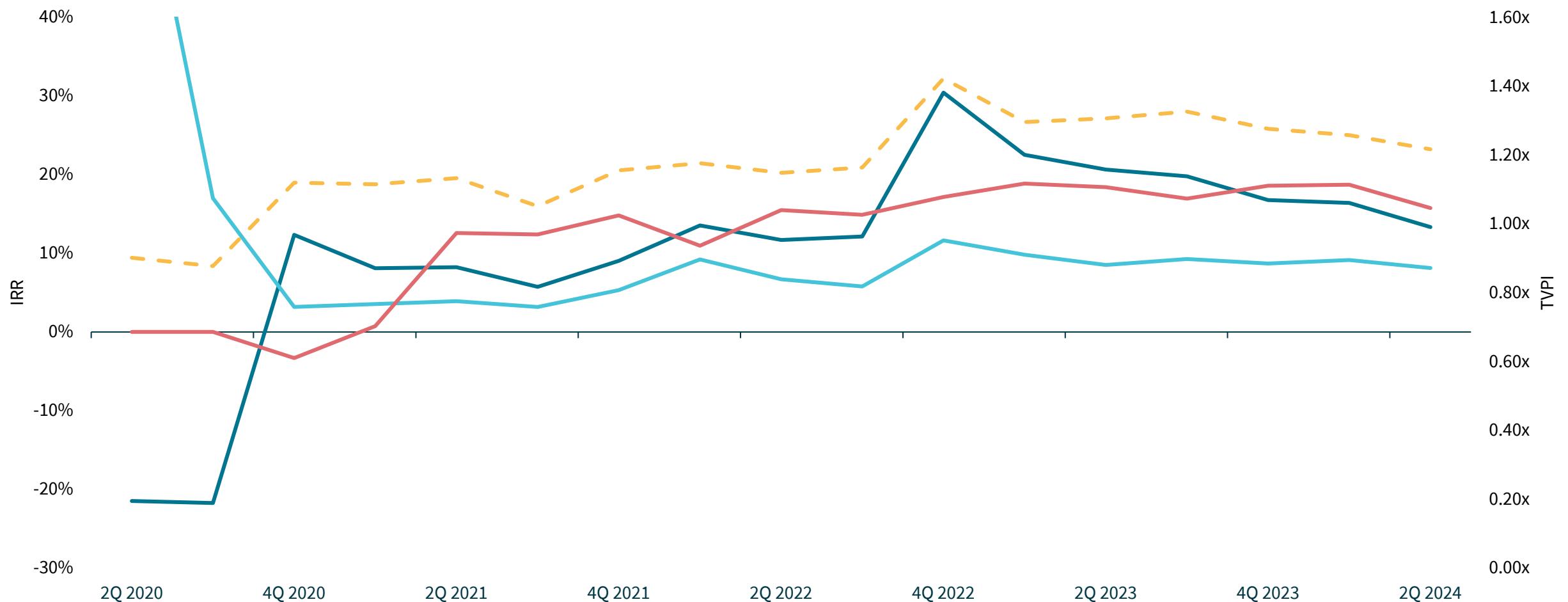
Sub-Asset Class	# Funds	Commitment (000's)	Funded	Current NAV (000's)	% NAV	IRR	IRR 3 Years	IRR 5 Years	PME (DA) Alpha	PMB Alpha	DPI	TVPI
Infrastructure	8	137,000	75%	130,582	30.34%	14.86%	11.92%	9.67%	11.26%	7.12%	0.21	1.35



# Private Real Assets – Natural Resources

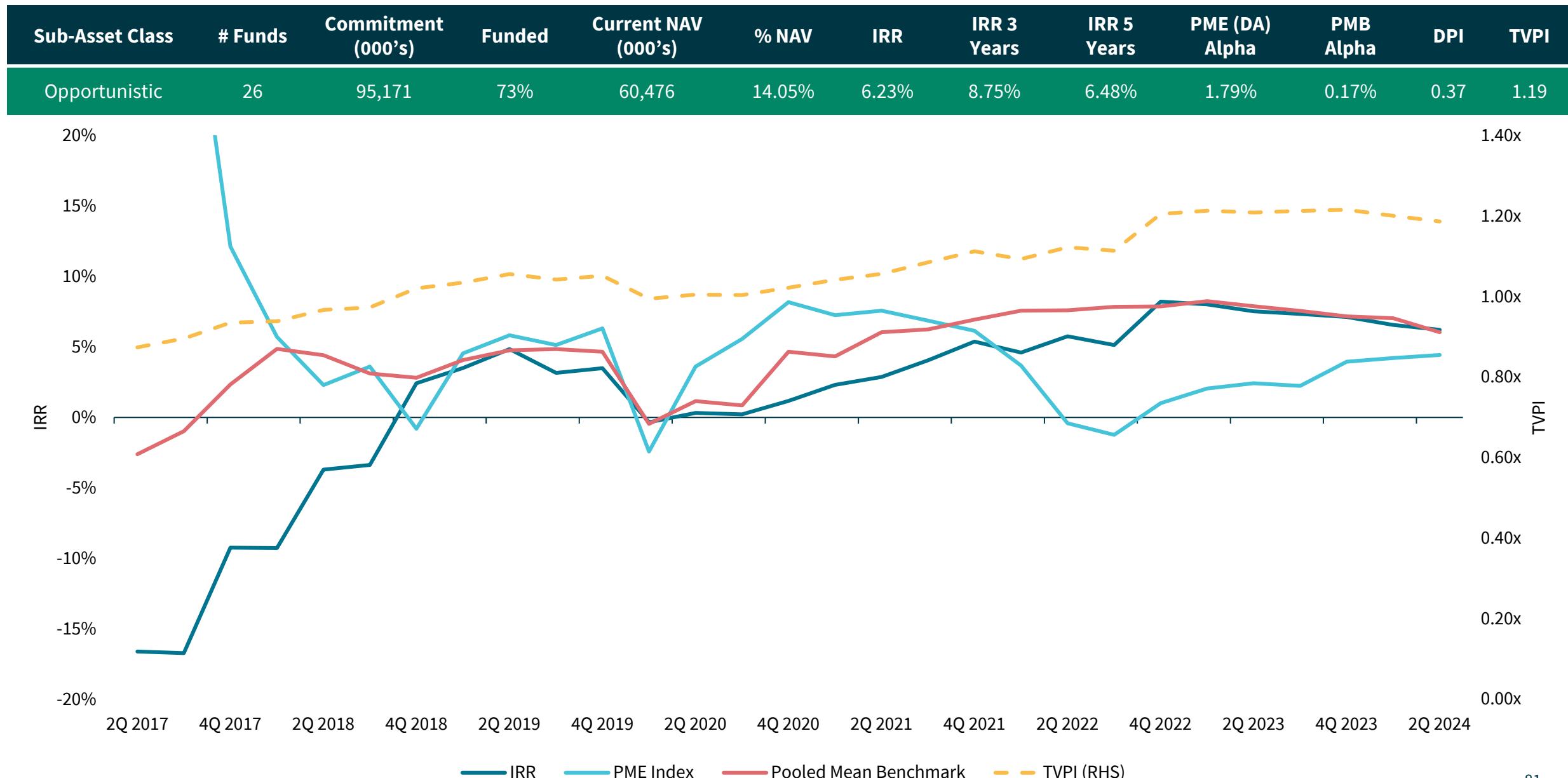


Sub-Asset Class	# Funds	Commitment (000's)	Funded	Current NAV (000's)	% NAV	IRR	IRR 3 Years	IRR 5 Years	PME (DA) Alpha	PMB Alpha	DPI	TVPI
Natural Resources	8	79,000	67%	70,259	16.33%	13.33%	14.23%	13.33%	5.20%	-2.42%	0.27	1.22



— IRR    — PME Index    — Pooled Mean Benchmark    - - - TVPI (RHS)

# Private Real Assets – Opportunistic



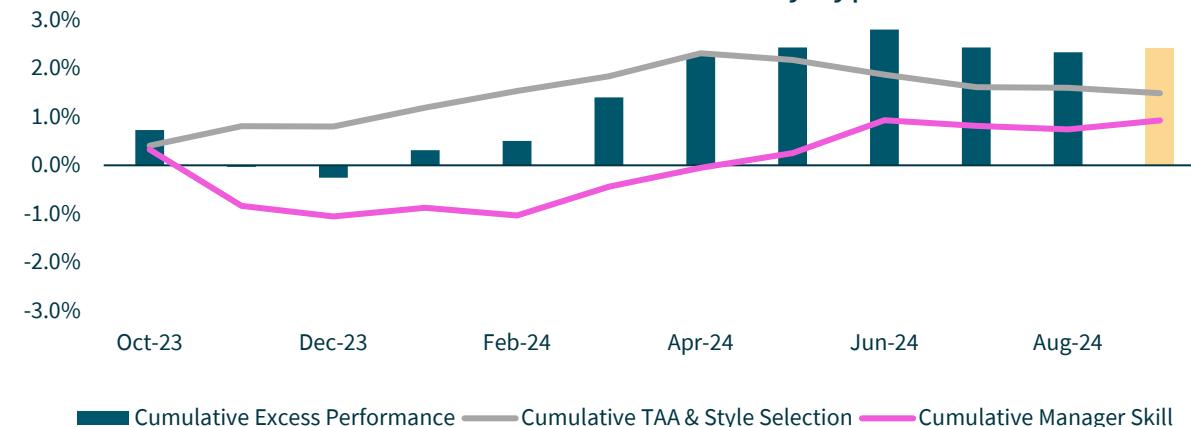
# Performance Review/Attribution – Public Income



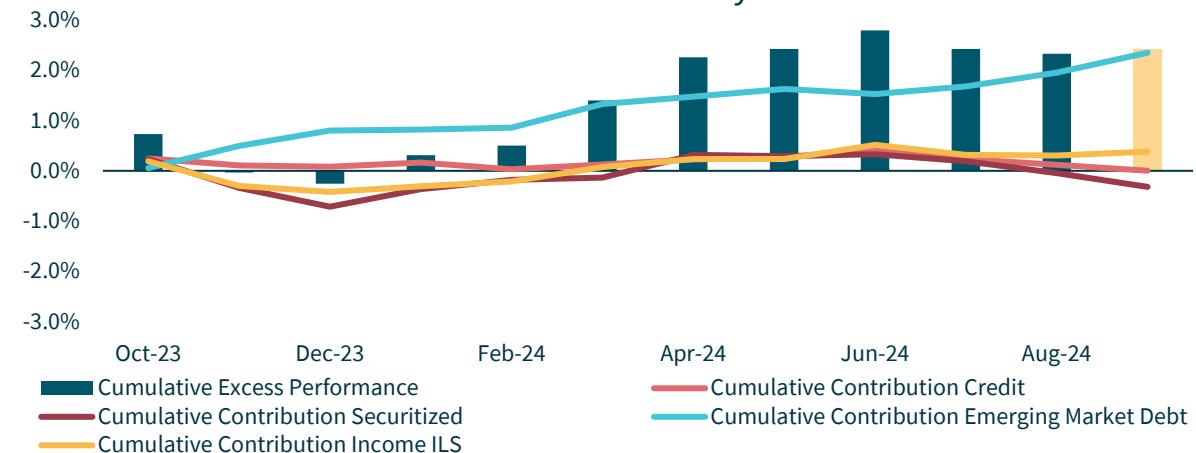
	Asset Allocation (As of Q3 2024)			Performance (As of Q3 2024)									1 Year Excess Return Attribution			
	End Q3 2024			5 Years			3 Years			1 Year			SAA	TAA & Style Selection	Manager Skill	Contr. To Excess
	Portfolio	Interim Benchmark*	Difference	Portfolio	Interim Benchmark*	Difference	Portfolio	Interim Benchmark*	Difference	Portfolio	Interim Benchmark*	Difference				
<b>Public Income</b>	<b>19.5</b>	<b>18.5</b>	<b>1.0</b>	<b>4.00</b>	<b>4.93</b>	<b>(0.93)</b>	<b>5.05</b>	<b>4.68</b>	<b>0.37</b>	<b>15.09</b>	<b>12.68</b>	<b>2.41</b>	<b>12.68%</b>	<b>1.49%</b>	<b>0.93%</b>	<b>2.41%</b>
Credit	7.2	N/A	N/A	6.62	4.93	1.69	5.04	4.68	0.36	12.77	12.68	0.09	N/A	-0.62%	0.62%	0.00%
Securitized	4.3	N/A	N/A	4.37	4.93	(0.56)	5.83	4.68	1.15	11.18	12.68	(1.50)	N/A	-0.24%	-0.08%	-0.32%
ILS	5.0	N/A	N/A	(1.08)	4.93	(6.01)	2.72	4.68	(1.96)	14.16	12.68	1.48	N/A	-0.13%	0.51%	0.38%
EM Debt	3.1	N/A	N/A	3.16	4.93	(1.77)	4.93	4.68	0.25	26.18	12.68	13.50	N/A	2.47%	-0.12%	2.35%

\*Interim Benchmark for each Public Income sub asset class is the Bloomberg US High Yield 1-3 Year Index.

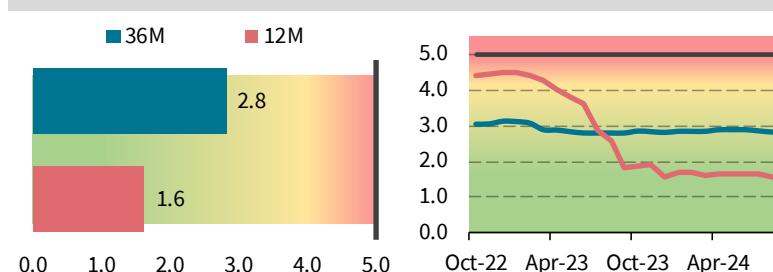
Cumulative Excess Return by Type



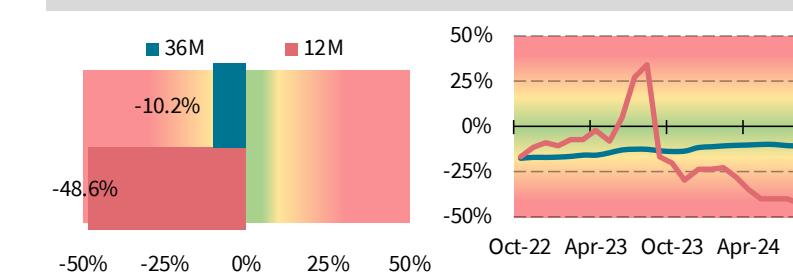
Cumulative Excess Return by Sub-Asset Class



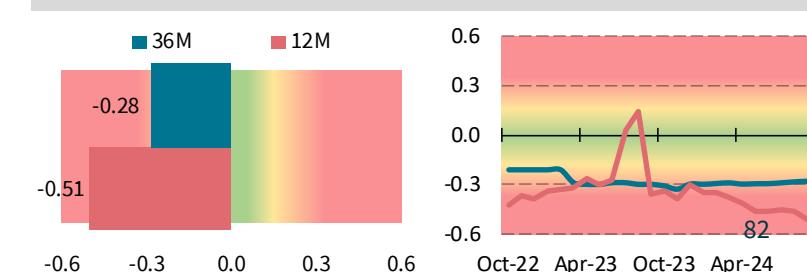
Public Income - Tracking Error



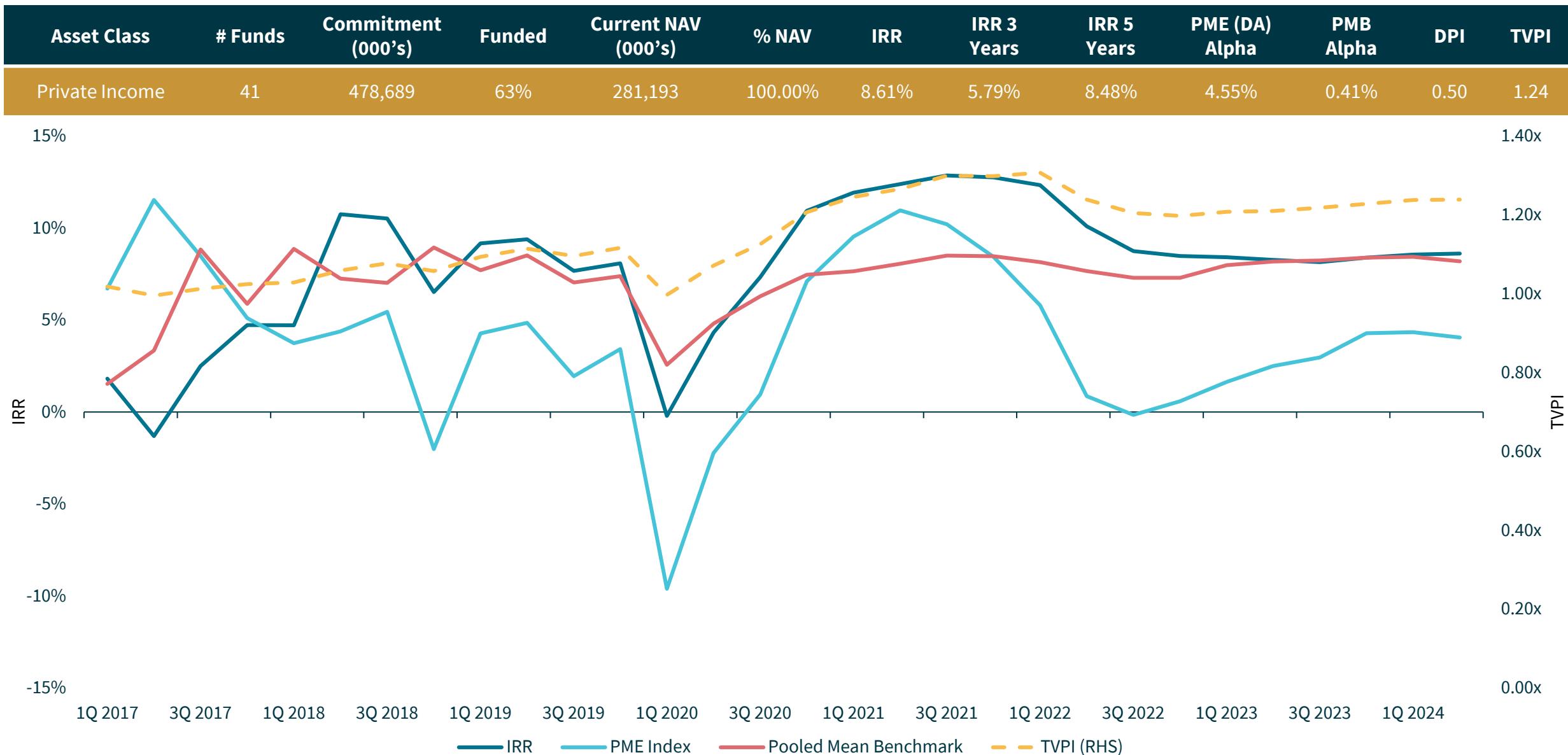
Public Income - Relative VaR(95%)



Public Income - Excess Benchmark Beta



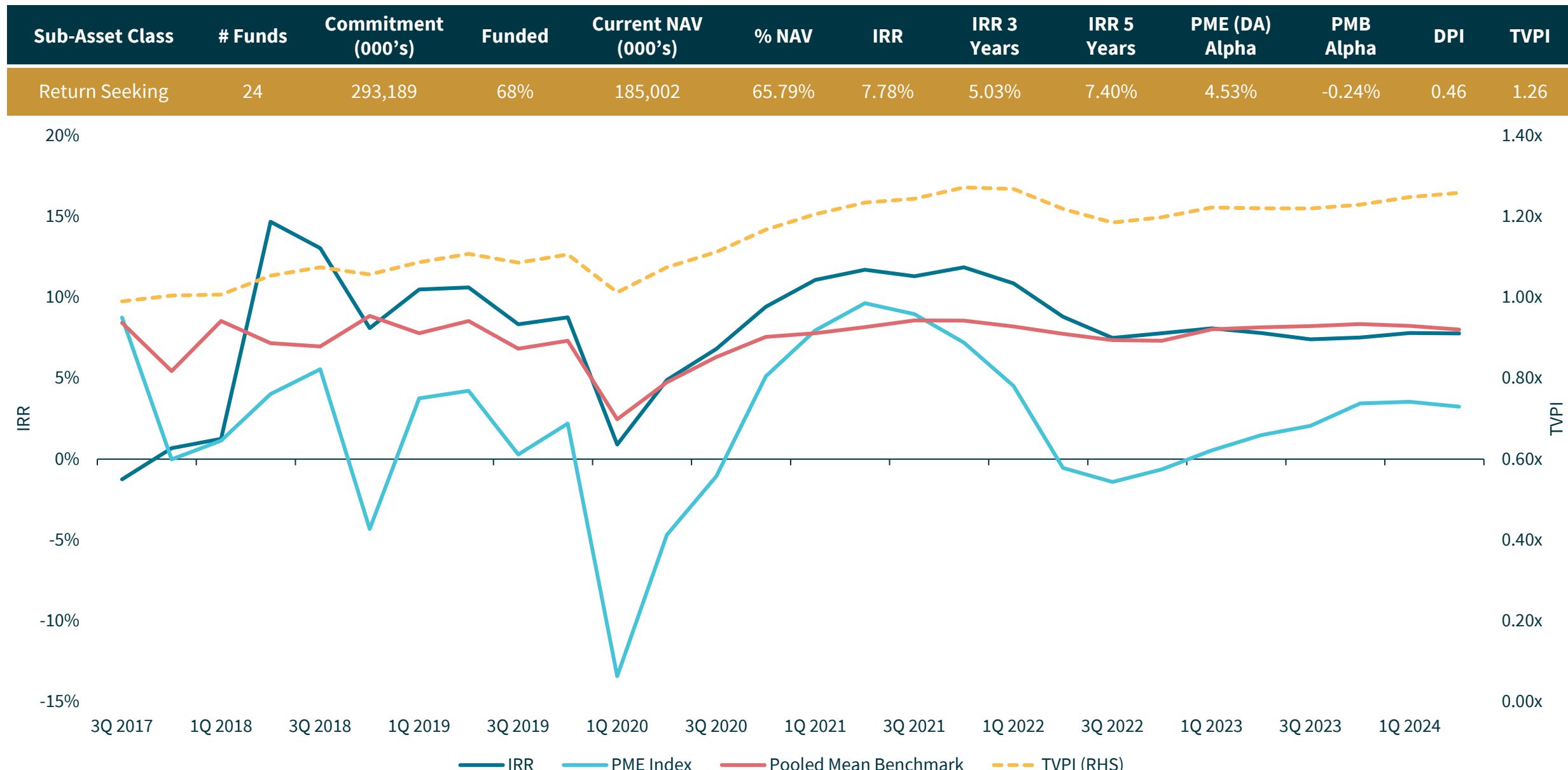
# Private Income



# Private Income – Capital Preservation



# Private Income – Return Seeking



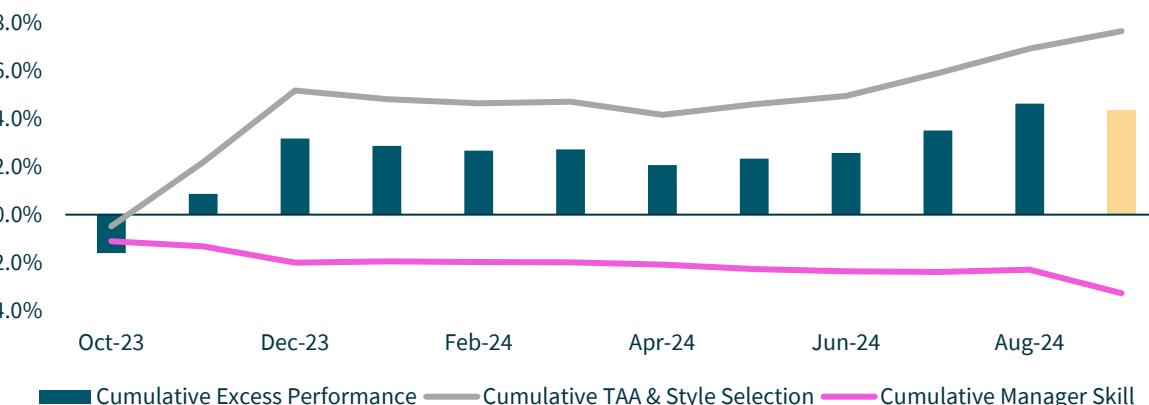
# Performance Review/Attribution – GRIPs



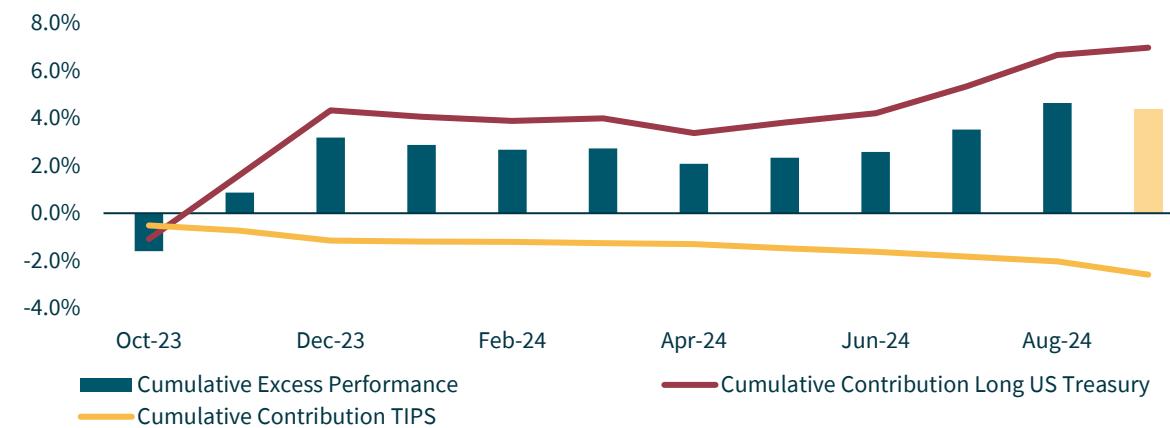
	Asset Allocation (As of Q3 2024)			Performance (As of Q3 2024)									1 Year Excess Return Attribution			
	End Q3 2024			5 Years			3 Year			1 Year			SAA	TAA & Style Selection	Manager Skill	Contr. To Excess
	Portfolio	Interim Benchmark	Difference	Portfolio*	Interim Benchmark	Difference	Portfolio*	Interim Benchmark	Difference	Portfolio	Interim Benchmark	Difference				
GRIPs	2.8	5.0	(2.2)	1.66	(0.81)	2.47	(4.94)	(5.53)	0.59	18.00	13.63	4.37	13.63%	7.66%	-3.28%	4.37%
TIPS	0.1	2.5	(2.4)	N/A	3.36	N/A	1.55	2.17	(0.62)	7.48	7.53	(0.05)	4.11%	-1.60%	-0.98%	-2.58%
Long US Treasury	2.7	2.5	0.2	(6.90)	(7.56)	0.66	(15.07)	(13.64)	(1.43)	17.74	18.55	(0.81)	9.52%	9.26%	-2.30%	6.96%

\*DRP performance proportionally allocated to TIPS and STRIPS.

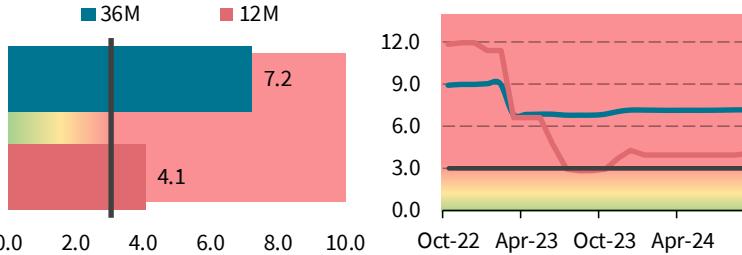
### Cumulative Excess Return by Type



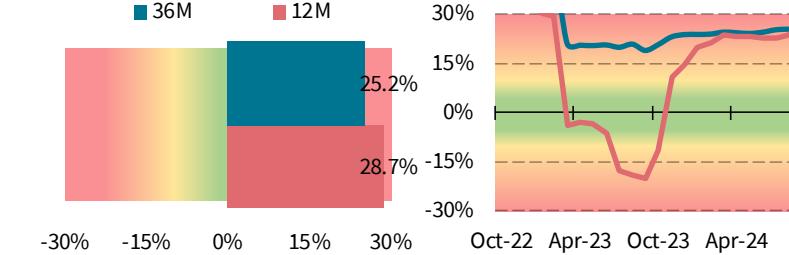
### Cumulative Excess Return by Sub-Asset Class



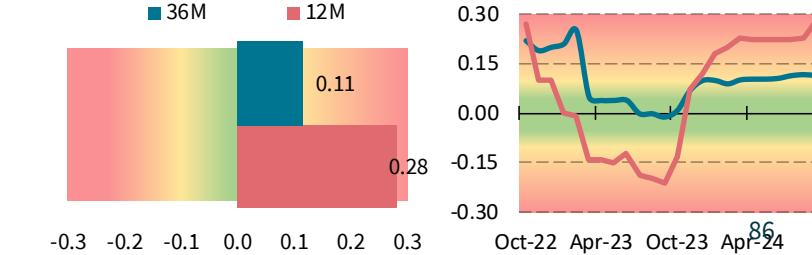
### GRIPs - Tracking Error



### GRIPs - Relative VaR(95%)



### GRIPs - Excess Benchmark Beta



# Performance Review/Attribution – Systematic Convexity



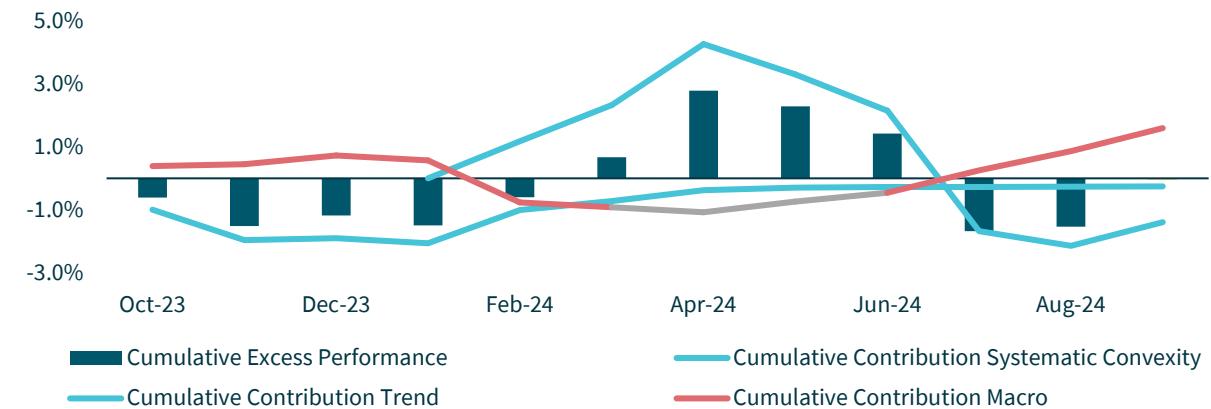
	Asset Allocation (As of Q3 2024)			Performance (As of Q3 2024)									1 Year Excess Return Attribution			
	End Q3 2024			5 Years			3 Years			1 Year			SAA	TAA & Style Selection	Manager Skill	Contr. To Excess
	Portfolio	Interim Benchmark	Difference	Portfolio	Interim Benchmark	Difference	Portfolio	Interim Benchmark	Difference	Portfolio	Interim Benchmark	Difference				
<b>Systematic Convexity</b>	5.3	7.0	(1.7)	1.62	5.39	(3.77)	2.01	4.65	(2.64)	(0.42)	(0.36)	(0.06)	-0.36%	0.01%	-0.07%	-0.06%
Systematic Convexity	0.0	N/A	N/A	N/A	5.39	N/A	N/A	4.65	N/A	N/A	(0.36)	N/A	N/A	-0.57%	0.32%	-0.26%
Macro	1.6	N/A	N/A	N/A	5.39	N/A	N/A	4.65	N/A	12.08	(0.36)	12.44	N/A	0.79%	0.80%	1.59%
Trend	3.8	N/A	N/A	N/A	5.39	N/A	N/A	4.65	N/A	N/A	(0.36)	N/A	N/A	-0.21%	-1.18%	-1.39%

\*Interim Benchmark for each Systematic Convexity sub asset class is the Systematic Convexity Custom Index.

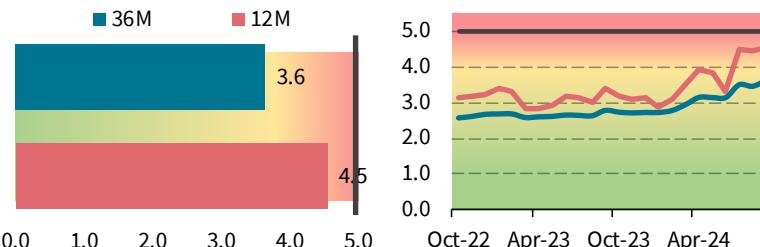
Cumulative Excess Return by Type



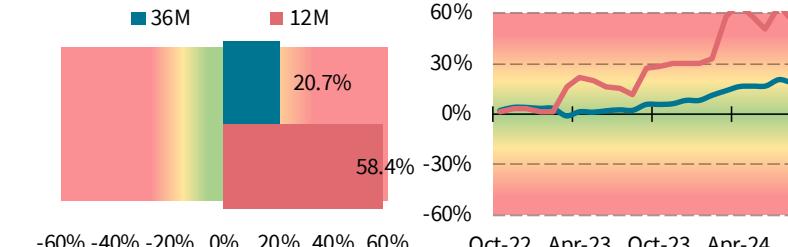
Cumulative Excess Return by Sub-Asset Class



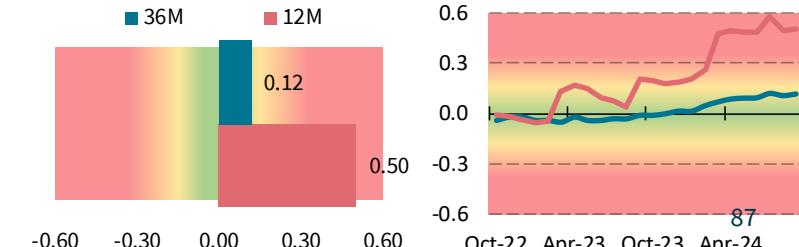
Syst. Convex - Tracking Error



Syst. Convex - Relative VaR(95%)



Syst. Convex - Excess Benchmark Beta



- Investment Decision Process (IDP) attribution is a model intended to reflect and allocate performance contribution across the various phases of portfolio structuring.
  - As the first step of structuring an efficient portfolio is determining the appropriate policy target blend, IDP attribution begins with calculating the performance derived by the broad exposures of the composite in question as well as any deviations from those targets.
  - Consistent with portfolio design, once a policy allocation is in place, each asset class is then structured to optimize the risk/return characteristics of the composite. IDP follows this logic by then attributing performance based on these structural decisions.
  - Lastly, structuring a portfolio would end with finding the best managers to execute within the prescribed allocation and structure. IDP similarly looks to lastly attribute performance that can be derived by manager out/under-performance.

- SAA – Strategic Asset Allocation
  - Strategic Asset Allocation looks to capture the beta return each sub-asset class exposure contributes to total composite performance when positioned at policy target.
- TAA – Tactical Asset Allocation
  - Tactical Asset Allocation looks to measure the impact that deviations from the prescribed policy targets for a given composite contribute to composite performance.
- SS – Style Selection
  - Style Selection looks to measure the contributions to composite returns caused by deviations in sub-asset class structure relative to broad sub-asset class benchmarks.
- MS – Manager Skill
  - Manager Skill captures the remaining attribution that can be attributed to each sub-asset classes managers relative to their individual benchmarks.

# RVK Private Market Benchmarks



## Private Equity Custom Index

Index	Since Inception
Cambridge Venture Capital Index (Lagged)	40.00%
Cambridge Buyout Index (Lagged)	40.00%
Cambridge Growth Equity Index (Lagged)	20.00%
<b>Total</b>	<b>100.00%</b>

## Private Real Assets Custom Index

Index	10/01/2022 through 03/31/2023	04/01/2023 through 06/30/2023	07/01/2023 through 12/31/2023
Private Real Estate Custom Index	47.62%	45.45%	40.00%
Private Natural Resources Custom Index	52.38%	54.55%	60.00%
<b>Total</b>	<b>100.00%</b>	<b>100.00%</b>	<b>100.00%</b>

## Private Real Estate Custom Index

Index	Prior to 07/01/2021	07/01/2021 through 12/31/2023
NCREIF ODCE Index (AWA) (Net) (Lagged)	100.00%	0.00%
Cambridge Real Estate Index (Lagged)	0.00%	100.00%
<b>Total</b>	<b>100.00%</b>	<b>100.00%</b>

## Private Natural Resources Custom Index

Index	Since Inception
Cambridge Natural Resources Index (Lagged)	40.00%
Cambridge Infrastructure Index (Lagged)	60.00%
<b>Total</b>	<b>100.00%</b>

## Private Income Custom Index

Index	Since Inception
Cambridge Distressed Securities Index (Lagged)	60.00%
Cambridge Senior Debt Index (Lagged)	40.00%
<b>Total</b>	<b>100.00%</b>

# Exhibit F



# Asset Allocation

---

Day Two

## Proposed Strategic Asset Allocation



- Proposed GRID weights are similar to our current SAA
  - Risk profile is inline with our current SAA while improving the expected return
- Increase Private Equity while decreasing Public Equity
- Increase Public Income while decreasing GRIPs

	Current SAA	Proposed SAA	70/30
Median Ann. Ret	8.2%	8.6%	6.0%
Median Std. Dev	8.5%	8.4%	11.9%
Median MDD	-14.1%	-13.8%	-25.9%
5 <sup>th</sup> Percentile MDD	-31.0%	-31.2%	-51.3%

(%) Allocation	Current SAA	Proposed SAA	70/30
<b>Growth</b>	<b>43.5</b>	<b>45.0</b>	
Public Equity	30.5	25.0	
Private Equity	13.0	20.0	
<b>Real Assets</b>	<b>17.5</b>	<b>15.0</b>	
Public Real Assets	5.0	5.0	
Private Real Assets	12.5	10.0	
<b>Income</b>	<b>27.0</b>	<b>30.0</b>	
Public Income	17.0	20.0	
Private Income	10.0	10.0	
<b>Defensive</b>	<b>12.0</b>	<b>10.0</b>	
GRIPs	5.0	3.0	
Systematic Convexity	7.0	7.0	
<b>Total Private Markets</b>	<b>35.5</b>	<b>40.0</b>	
P Ann. Ret < CPI + 5%	37.9%	32.2%	70.0%
P Corpus Breach	6.7%	6.1%	35.3%
P Liquidity Cushion X	0.1%	1.0%	0.0%

# Current Strategic Asset Allocation Table



Level	Asset Class	Min	Target %	Max	Benchmark
2	Growth	38.5%	43.5%	48.5%	Composite of Public and Private, Pro-Rata
3	Public Equity	27.5%	30.5%	33.5%	ACWI IMI
3	Private Equity	10.0%	13%	16.0%	Cambridge Private Equity
2	Real Assets	12.5%	17.5%	22.5%	Composite of Public and Private, Pro-Rata
3	Public Real Assets	2.0%	5.0%	8.0%	S&P Real Assets Index
3	Private Real Assets	9.5%	12.5%	15.5%	30% Cambridge Private Natural Resources 30% Cambridge Private Infrastructure 40% Cambridge Real Estate
2	Income	22.0%	27.0%	32.0%	Composite of Public and Private, Pro-Rata
3	Public Income	14.0%	17.0%	20.0%	U.S. High Yield 1-3 Year Index
3	Private Income	7.0%	10.0%	13.0%	Cambridge Private Credit Index
2	Defensive	7.0%	12.0%	17.0%	Composite, Pro-Rata
3	GRIPs	2.0%	5.0%	8.0%	50% Bloomberg 20 - 30 Year STRIP 50% Bloomberg US TIPS 0 - 5 Year
3	Systematic Convexity	4.0%	7.0%	10.0%	40% SG Trend Index 40% HFRI Macro 20% Eurekahedge Long Vol
3	Cash	0.0%	0.0%	3.0%	3Mo U.S. T-Bill
1	Total Portfolio		100%		

# New Strategic Asset Allocation Table



Level		Min	Target	Max	Benchmark
<b>2</b>	<b>Growth</b>	<b>40%</b>	<b>45%</b>	<b>50%</b>	<b>Composite of Public and Private, Pro-Rata</b>
3	Public Equity	19%	25%	30%	MSCI ACWI IMI
3	Private Equity	15%	20%	26%	Cambridge Private Equity Composite
<b>2</b>	<b>Real Assets</b>	<b>10%</b>	<b>15%</b>	<b>20%</b>	<b>Composite of Public and Private, Pro-Rata</b>
3	Public Real Assets	0%	5%	8%	S&P Real Assets Index
3	Private Real Assets	7%	10%	15%	Cambridge Private Real Assets Composite
<b>2</b>	<b>Income</b>	<b>25%</b>	<b>30%</b>	<b>35%</b>	<b>Composite of Public and Private, Pro-Rata</b>
3	Public Income	15%	20%	23%	U.S. High Yield 1-3 Year Index
3	Private Income	7%	10%	15%	Cambridge Private Credit Composite
<b>2</b>	<b>Defensive</b>	<b>5%</b>	<b>10%</b>	<b>15%</b>	<b>Composite, Pro-Rata</b>
3	GRIPs	0%	3%	6%	Bloomberg 20-30 Year STRIP
3	Systematic Convexity	3%	7%	11%	75% Barclay BTOP 50 Index 25% HFRI Macro Index
3	Cash	0%	0%	3%	3Mo U.S T-Bill
<b>1</b>	<b>Total Portfolio</b>	<b>100%</b>			

- Current
  - 50bps step changes toward long term policy targets based on invested capital
  - Leading benchmark
    - i.e., Private Equity SAA target allocation is 13%. If the current invested capital is 9.76%, the interim benchmark would be 10%. If the current invested moves to 10%, then the benchmark would move to 10.5%
  - All asset classes must move toward target allocation
- Proposed
  - 25bps step changes toward long term policy targets based on invested capital
  - Leading benchmark
    - i.e., Private Equity SAA target allocation is 20%. If the current invested capital is 9.76%, the interim benchmark would be 10%. If the current invested moves to 10%, then the benchmark would move to 10.25%
  - While GRID weights are moving to target, the public asset classes can move away from the target allocation if the private market asset class did not move

### 6.4 Interim Benchmark

It is understood that it may take considerable time to fully implement the SAA. While the portfolio is transitioning to include more private markets and greater diversification, it is understood that a transitional period is necessary for shifting actual allocations to the SAA.

During the transitional period, the board authorizes an interim benchmark, with weights adjusted incrementally toward the board approved SAA policy weights. Each quarter, the allocation weight of the approved **GRID category or asset classes** that have not been fully implemented are adjusted **higher**, towards the target, in ~~0.50%~~<sup>0.25%</sup> increments based upon invested capital. The increased allocation weights are offset with a commensurate pro-rata **decrease change** in allocation weights for the other asset classes within the GRID **bucket category**. ~~Allocation weights can only be moved toward approved policy weights.~~

Upon reaching the target asset allocation, the Interim Benchmark will be replaced by the Strategic Asset Allocation Benchmark.

# New Interim Benchmark



- Two Phases
  - Phase 1: Move GRIDs to target weights
  - Phase 2: Move asset classes to target weights

	Q0	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15	Q16
<b>Growth</b>	<b>45.00%</b>																
Public Equity	34.00%	34.00%	33.75%	33.75%	33.75%	33.00%	33.00%	32.50%	31.50%	31.50%	31.00%	30.50%	30.25%	29.50%	29.50%	29.25%	28.75%
Private Equity	11.00%	11.00%	11.25%	11.25%	11.25%	12.00%	12.00%	12.50%	13.50%	13.50%	14.00%	14.50%	14.75%	15.50%	15.50%	15.75%	16.25%
<b>Real Assets</b>	<b>17.50%</b>	<b>17.25%</b>	<b>17.00%</b>	<b>16.75%</b>	<b>16.50%</b>	<b>16.25%</b>	<b>16.00%</b>	<b>15.75%</b>	<b>15.50%</b>	<b>15.25%</b>	<b>15.00%</b>						
Public Real Assets	5.00%	4.75%	4.50%	4.25%	4.25%	4.00%	4.00%	4.00%	4.00%	4.00%	4.00%	4.25%	4.50%	4.75%	5.00%	5.00%	5.00%
Private Real Assets	12.50%	12.50%	12.50%	12.50%	12.25%	12.25%	12.25%	12.00%	11.75%	11.50%	11.25%	11.00%	10.75%	10.50%	10.25%	10.00%	10.00%
<b>Income</b>	<b>27.50%</b>	<b>27.75%</b>	<b>28.00%</b>	<b>28.25%</b>	<b>28.50%</b>	<b>28.75%</b>	<b>29.00%</b>	<b>29.25%</b>	<b>29.50%</b>	<b>29.75%</b>	<b>30.00%</b>						
Public Income	19.00%	19.25%	19.25%	19.50%	19.25%	19.25%	19.50%	19.25%	19.50%	19.75%	20.00%	20.00%	20.00%	20.00%	20.00%	20.00%	20.00%
Private Income	8.50%	8.50%	8.75%	8.75%	9.25%	9.50%	9.50%	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%
<b>Defensive</b>	<b>10.00%</b>																
GRIPs	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%
Sys. Convexity	7.00%	7.00%	7.00%	7.00%	7.00%	7.00%	7.00%	7.00%	7.00%	7.00%	7.00%	7.00%	7.00%	7.00%	7.00%	7.00%	7.00%

Hypothetical SITFO Private Market Path - Weight Observed at the End of Period																	
Private Equity	10.7%	11.0%	11.1%	11.2%	11.7%	11.7%	12.3%	12.9%	13.4%	13.9%	14.3%	14.7%	15.3%	15.4%	15.6%	16.0%	16.6%
Private Real Assets	13.2%	12.8%	12.7%	12.4%	12.3%	12.2%	11.9%	11.6%	11.4%	11.2%	10.9%	10.7%	10.3%	10.1%	10.2%	10.3%	10.4%
Private Income	7.9%	8.6%	8.6%	9.0%	9.3%	9.4%	9.9%	9.9%	9.8%	10.2%	10.6%	11.2%	11.3%	11.4%	11.4%	11.4%	11.4%

Phase 1 In phase 1, GRID weights move to the new Long Term Target at prescriptive increments. Private markets move in step towards Long Term Target. Publics are the difference between GRID and Private.  
 Phase 2 In phase 2, private market benchmarks moves toward the Long Term Target. Changes in private market target weights come from the public asset class within their respective GRID category.  
 At Long Term Target

- We are proposing the adoption of the new strategic asset allocation with its accompanying min and max ranges as shown in the SAA table for the IPS, effective January 1, 2025
- We are proposing an update to the interim benchmark methodology and its description within the IPS, effective January 1, 2025
- Approval of the Investment Policy Statement with the following updates
  - Branding updates, sections retitled and references to those sections updated
  - SITFO Board of Trustees list brought up to date
  - SITLA reference updated to reflect new name TLA
  - Distribution policy updated to reflect recent constitutional and statute changes verbatim
  - Strategic Asset Allocation as proposed in the SAA table
  - Interim benchmark methodology and its description as proposed
- Approval of the Investment Beliefs with the following updates
  - Branding updates
  - SITLA reference updated to reflect new name TLA

# Appendix

## Portfolio Weights and Ranges



	Min		Proposed SAA		Max
<b>Growth</b>	<b>40.0%</b>	<b>42.0%</b>	<b>45.0%</b>	<b>48.0%</b>	<b>50.0%</b>
Public Equity	19.0%	21.0%	25.0%	28.0%	30.0%
Private Equity	15.0%	17.0%	20.0%	24.0%	26.0%
<b>Real</b>	<b>10.0%</b>	<b>12.0%</b>	<b>15.0%</b>	<b>18.0%</b>	<b>20.0%</b>
Public Real Assets	0.0%	2.0%	5.0%	7.0%	8.0%
Private Real Assets	7.0%	8.0%	10.0%	13.0%	15.0%
<b>Income</b>	<b>25.0%</b>	<b>27.0%</b>	<b>30.0%</b>	<b>33.0%</b>	<b>35.0%</b>
Public Income	15.0%	17.0%	20.0%	22.0%	23.0%
Private Income	7.0%	8.0%	10.0%	13.0%	15.0%
<b>Defensive</b>	<b>5.0%</b>	<b>7.0%</b>	<b>10.0%</b>	<b>13.0%</b>	<b>15.0%</b>
GRIPs	0.0%	1.0%	3.0%	5.0%	6.0%
Sys. Convexity	3.0%	5.0%	7.0%	9.0%	11.0%
Cash	0.0%	0.0%	0.0%	0.0%	3.0%

	Min		Int. Benchmark		Max
<b>Growth</b>	<b>38.5%</b>	<b>40.5%</b>	<b>45.0%</b>	<b>46.5%</b>	<b>48.5%</b>
Public Equity	28.0%	30.0%	34.0%	37.0%	39.0%
Private Equity	6.0%	8.0%	11.0%	15.0%	17.0%
<b>Real</b>	<b>12.5%</b>	<b>14.5%</b>	<b>17.5%</b>	<b>20.5%</b>	<b>22.5%</b>
Public Real Assets	0.0%	2.0%	5.0%	7.0%	8.0%
Private Real Assets	9.5%	10.5%	12.5%	15.5%	17.5%
<b>Income</b>	<b>22.5%</b>	<b>24.5%</b>	<b>27.5%</b>	<b>30.5%</b>	<b>32.5%</b>
Public Income	14.0%	16.0%	19.0%	21.0%	22.0%
Private Income	5.5%	6.5%	8.5%	11.5%	13.5%
<b>Defensive</b>	<b>5.0%</b>	<b>7.0%</b>	<b>10.0%</b>	<b>13.0%</b>	<b>15.0%</b>
GRIPs	0.0%	1.0%	3.0%	5.0%	6.0%
Sys. Convexity	3.0%	5.0%	7.0%	9.0%	11.0%
Cash	0.0%	0.0%	0.0%	0.0%	3.0%