



MEMORANDUM

TO: Members of the Investment Advisory Council

FROM: Erick Russell, State Treasurer, and Council Secretary

DATE: January 3, 2024

SUBJECT: Investment Advisory Council Meeting – January 10, 2024

Enclosed is the agenda package for the Investment Advisory Council regular meeting on Wednesday, January 10, 2024, starting at 2:30 P.M. The meeting will be held in-person in Conference Rooms G006D and G007E.

The following subjects will be covered at the meeting:

Item 1: Approval of the Minutes of the November 8, 2023, IAC Regular Meeting and Minutes of the November 14, 2023, IAC Audit Committee Special Meeting

Item 2: Opening Comments by the Treasurer

Item 3: Public Markets Asset Class Structure Review: Global Equities

Anastasia Rotheroe, Principal Investment Officer, will present the current Global Equity positioning as well as an outlook for the Asset Class going forward.

Item 4: FX Exposure Hedging Study

Nishant Upadhyay, Principal Investment Officer, and Jorge Portugal, Investment Officer, will present the currency overlay strategy for the Public Markets.

Item 5: Short-Term Investment Fund Overview

Paul Coudert, Interim Principal Investment Officer, will provide a review of the Short-Term Investment Fund (STIF).

Item 6: Presentation of Rebalancing Process

Ted Wright, Chief Investment Officer, and Robert Scully, Investment Officer, will present the Rebalancing Process.

Item 7: Private Asset Classes Pacing Plan Overviews

Mark Evans, Principal Investment Officer and Denise Stake, Principal Investment Officer will provide an overview of the recommended pacing plans for the Private Equity, Private Credit, Real Estate, and Infrastructure/Natural Resource Asset Classes.

Item 8: Other Business

Item 9: Comments by the Chair

Item 10: Executive Session

Executive Session to discuss compensation plan and the potential financial effect on PFM current investment staff salaries.

Item 11: Adjournment

We look forward to reviewing these agenda items with you at the January 10th meeting. Please confirm your attendance with Raymond Tuohey (raymond.tuohey@ct.gov) as soon as possible.

ER/rt

Enclosures.

DRAFT VERSION – MINUTES OF THE INVESTMENT ADVISORY COUNCIL REGULAR MEETING WEDNESDAY, NOVEMBER 8, 2023 – SUBJECT TO REVIEW AND APPROVAL FINAL VERSION OF THESE MINUTES WILL BE POSTED AFTER APPROVAL OF THE INVESTMENT ADVISORY COUNCIL AT THE NEXT MEETING, WHICH WILL BE HELD ON WEDNESDAY, JANUARY 10, 2024

MEETING NO. 526

Members present: D. Ellen Shuman, Chair

Treasurer Russell, Secretary

William Murray

Virtual via Zoom Harry Arora

William Myers Myra Drucker Michael LeClair Patrick Sampson

Members absent: Thomas Fiore, representing Secretary Jeffrey Beckham

Others present: Sarah Sanders, Deputy Treasurer

Doug Delana, General Counsel

Ginny Kim, Assistant General Counsel
Ted Wright, Chief Investment Officer
Mark Evans, Principal Investment Officer
Peter Gajowiak, Principal Investment Officer
Denise Stake, Principal Investment Officer
Nishant Upadhyay, Principal Investment Officer
Anastasia Rotheroe, Principal Investment Officer
Paul Coudert, Interim Principal Investment Officer

Olivia Wall, Senior Investment Officer Pamela Moody, Investment Officer

Kan Zuo, Investment Officer Philip Conner, Investment Officer Carmen Melaragno, Investment Officer Robert Scully, Investment Officer Jorge Portugal, Investment Officer Rosalind Nash, Investment Officer

Jessica Weaver, Corporate Governance Analyst

Raymond Tuohey, Executive Secretary

Mary Mustard, Meketa

Tom Cosmer, Pinebridge Investments

Robyn Kaplan-Cho, CEA Chloe Kelley, PIMCO

Guests: Public Line

With a quorum present, Chair D. Ellen Shuman called the Investment Advisory Council ("IAC")

regular meeting to order at 9:01 a.m.

Approval of the Minutes of the September 13, 2023, IAC Meeting

Chair Shuman called for a motion to accept the minutes of the September 13, 2023, IAC Regular

Meeting. Mr. Myers moved to approve the minutes. The motion was seconded by Ms.

Drucker. There being no further discussion, the Chair called for a vote to accept the minutes

of the meeting, and the motion passed.

Comments by the Treasurer

Treasurer Russell welcomed the IAC members and shared recent updates at the Office of the

Treasurer (OTT). In the Private Investment Portfolio, Treasurer Russell announced his decision

to commit \$150 million to Leeds Equity Partners VIII, L.P. and \$25 million to Leeds Co-

Investment Sidecar. In the Real Estate Portfolio, the Treasurer announced his decision to commit

\$200 million to Blue Owl Real Estate Fund VI, L.P. Lastly, Treasurer Russell provided an

overview of the agenda.

Presentation of the PFM Investment Process

Ted Wright, Chief Investment Officer, and PIOs Denise Stake, Mark Evans, Nishant Upadhyay,

and Peter Gajowiak, provided a presentation on the PFM Investment Process.

Presentation of the 2023 Fiscal Year Performance Attribution of the Global Equity portfolio

Anastasia Rotheroe, Principal Investment Officer, provided the 2023 Fiscal Year Performance

Attribution of the Global Equity portfolio.

PFM Officer Professional Classification Salary Range

Ted Wright, Chief Investment Officer, provided a presentation on the PFM Officer Professional

Classification level salary range. He noted that the salary range of \$120,000 - \$210,000, would

allow PFM to attract talent, strengthen recruitment and retention efforts, as well as provide advancement opportunity and cross discipline mobility.

Review of 2023 Proxy Season & 2024 Proxy Season Preview

Jessica Weaver, Corporate Governance Analyst, provided a review of the 2023 proxy season and a preview of the 2024 proxy season.

Presentation and Consideration of a Private Equity Opportunities

Mark Evans, Principal Investment Officer, and Carmen Melaragno, Investment Officer, presented the ICG Strategic Partnership opportunity, consisting of ICG North American Credit Partners Fund III LP and ICG Europe Mid-Market Fund II SCSP, which are Private Credit Fund opportunities, and ICG Europe Fund IX SCSp, a Private Credit Fund opportunity that will be formally presented at a future IAC meeting. Mr. Evans and Mr. Melaragno also presented ICG Global Loan Fund and ICG Global Total Credit Fund, Private Credit Fund opportunities.

Roll Call of Reactions for the Private Equity Opportunities

Messrs. Myra Drucker, William Myers, William Murray, Harry Arora, Michael LeClair, Patrick Sampson, and Chair Shuman provided feedback on the investment opportunities. There being no further discussion, Chair Shuman called for a motion to waive the 45-day comment period. A motion was made by Ms. Drucker, seconded by Mr. Murray, to waive the 45-day comment period for the ICG Strategic Partnership; Private Credit Fund investment opportunities. The Chair called for a vote, and the motion passed.

Presentation and Consideration of a Real Estate Opportunity

Denise Stake, Principal Investment Officer, and Philip Conner, Investment Officer, presented Penzance DC Real Estate Fund III LP, a Real Estate Fund opportunity.

Presentation and Consideration of Infrastructure and Natural Resources Opportunities

Denise Stake, Principal Investment Officer, and Olivia Wall, Senior Investment Officer, presented

Stonepeak Infrastructure Fund V LP., and Homestead Capital USA Farmland Fund IIV, LP,

Infrastructure and Natural Resources Fund opportunities.

Roll Call of Reactions for the Real Estate, Infrastructure and Natural Resources

Opportunities

Messrs. Myra Drucker, William Myers, William Murray, Tom Fiore, Harry Arora, Michael

LeClair and Chair Shuman provided feedback on the investment opportunities. There being no

further discussion, Chair Shuman called for a motion to waive the 45-day comment period.

A motion was made by Mr. Sampson, seconded by Mr. Murray, to waive the 45-day comment

period for Penzance DC Real Estate Fund III LP, Stonepeak Infrastructure Fund V LP., and

Homestead Capital USA Farmland Fund IIV, LP; Real Estate, and Infrastructure and

Natural Resources investment opportunities. The Chair called for a vote, and the motion

passed.

Other Business

None.

Comments by the Chair

The Chair made some brief comments regarding the meeting.

Meeting Adjourned

There being no further business, Chair Shuman called for a motion to adjourn the meeting. Mr.

Meyers moved to adjourn the meeting, and the motion was seconded by Mr. Murray. There

being no discussion, the motion passed, and the meeting was adjourned at 12:14 p.m.

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DRAFT VERSION -

MINUTES OF THE INVESTMENT ADVISORY COUNCIL AUDIT COMMITTEE MEETING
TUESDAY, NOVEMBER 14, 2023 – SUBJECT TO REVIEW AND APPROVAL
FINAL VERSION OF THESE MINUTES WILL BE POSTED AFTER APPROVAL OF THE INVESTMENT
ADVISORY COUNCIL AT THE NEXT MEETING, WHICH WILL BE HELD ON
WEDNESDAY, JANUARY 10, 2024

MEETING NO. 527

Members present: D. Ellen Shuman, Interim Audit Committee Chair, Investment Advisory

Council Chair, Ex officio

Myra Drucker

Thomas Fiore, representing Secretary Jeffrey Beckham

Member of Audit Committee

Members absent: Michael LeClair

Others present: William Myers, Investment Advisory Council Member

Ginny Kim, Assistant General Counsel Peter Gajowiak, Principal Investment Officer

Pamela Moody, Investment Officer Raymond Tuohey, Executive Secretary

Guests: Matthew Wood, State Auditor

David Tarallo, State Auditor

Public Line

With a quorum present, Interim Chair Shuman called the Investment Advisory Council ("IAC") Audit Committee meeting to order at 11:01 a.m.

Opening Comments by the Interim Chair

Interim Chair Shuman welcomed the IAC audit committee members to the meeting and gave some brief comments.

Executive Session

Interim Chair Shuman asked for a motion to move into Executive Session. A motion was made by Myra Drucker, seconded by Thomas Fiore that the Investment Advisory Council Audit Committee enter into Executive Session to discuss the preliminary drafts of the Office of the Treasurer's annual financial statements for the fiscal year ended June 30, 2023. Matthew Wood, State Auditor; David Tarallo, State Auditor; William Myers, Investment Advisory Council

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DRAFT VERSION -

MINUTES OF THE INVESTMENT ADVISORY COUNCIL AUDIT COMMITTEE MEETING
TUESDAY, NOVEMBER 14, 2023 – SUBJECT TO REVIEW AND APPROVAL
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WEDNESDAY, JANUARY 10, 2024

Member, Ginny Kim, Assistant General Counsel, Peter Gajowiak, Principal Investment Officer, and Pam Moody, Investment Officer, were invited to attend the Executive Session.

Interim Chair Shuman reconvened the regular session at 11:51 a.m. Interim Chair Shuman noted that no substantive votes or actions were taken during the Executive Session.

Executive Session

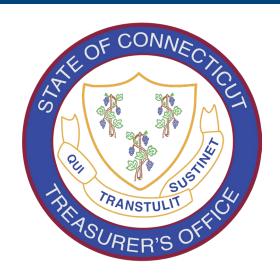
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Interim Chair Shuman reconvened the regular session at 12:16 p.m. Interim Chair Shuman noted that no substantive votes or actions were taken during the Executive Session.

Meeting Adjourned

There being no further business, Interim Chair Shuman called for a motion to adjourn the meeting. Myra Drucker moved to adjourn the meeting and the motion was seconded by Thomas Fiore. There being no discussion, the meeting was adjourned at 12:17 p.m.

Connecticut Retirement Plans and Trust Funds

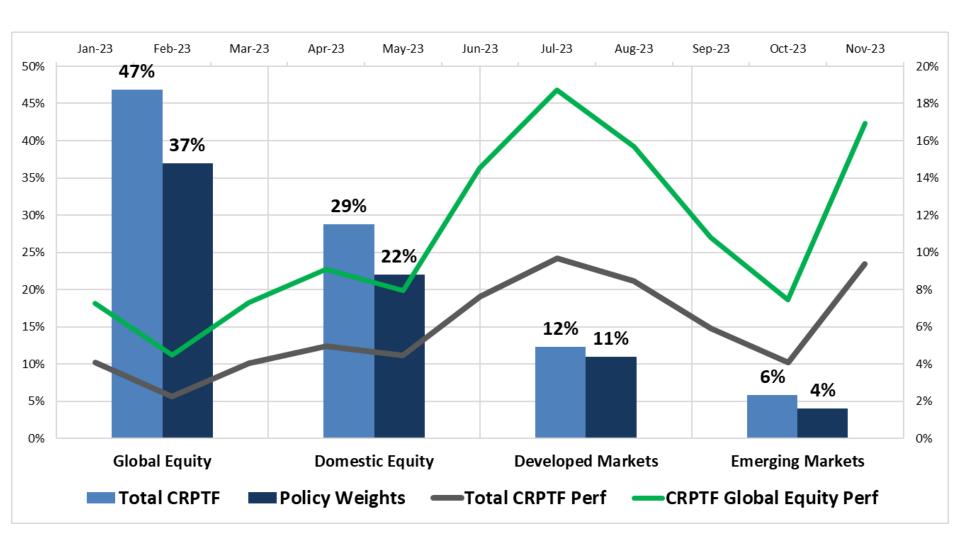


Global Equity Strategic Review January 10, 2024



Overweight Public Equity

Active decision to overweight Public Equities added value (As of Nov 30, 2023)





All Regions of Public Equity Outperforming

As of Nov 30, 2023



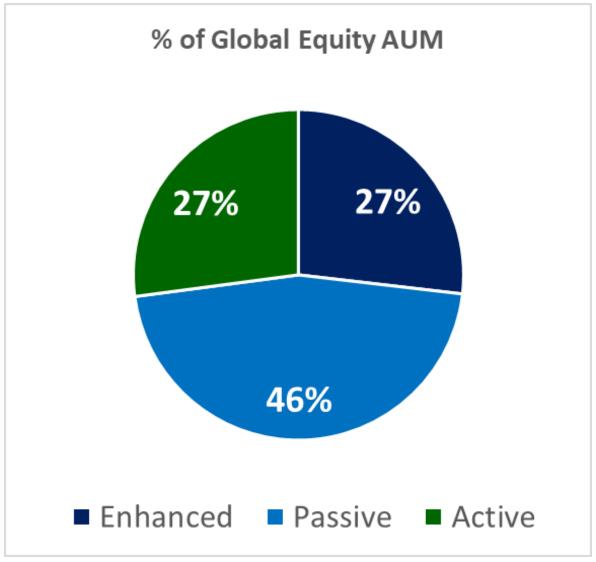
State of Connecticut Retirement Plans and Trust Funds

| | larket ue (\$M) | % of Portfolio | QTD | YTD | 1 Yr | 3 Yr | 5 Yr | 10 Y r |
|---------------------------------|--------------------|-------------------|------|-------|-------|-------|-------|---------------|
| Global Equity | \$ 24,211 | 100.0% | 5.5% | 16.9% | 12.5% | 5.6% | 9.4% | 8.0% |
| Global Equity Benchmark | | | 5.6% | 15.5% | 11.1% | 5.4% | 8.9% | 7.5% |
| Domestic Equity | \$ 14,841 | 61.3% | 6.1% | 19.8% | 12.9% | 8.4% | 11.8% | 11.2% |
| Domestic Equity Benchmark | | | 6.4% | 19.4% | 12.3% | 8.1% | 11.7% | 11.2% |
| Developed Markets International | \$ 6,369 | 26.3% | 5.0% | 13.9% | 14.0% | 4.7% | 6.7% | 5.5% |
| Developed Markets Benchmark | | | 4.8% | 11.8% | 11.3% | 3.0% | 5.8% | 5.1% |
| MSCI EAFE IMI Net USD | | | 4.7% | 11.3% | 11.5% | 3.1% | 5.6% | 3.9% |
| Emerging Markets International | \$ 3,001 | 12.4% | 3.9% | 9.8% | 8.4% | -2.5% | 5.1% | 3.2% |
| Emerging Markets Benchmark | | | 3.9% | 7.4% | 5.9% | -2.7% | 3.1% | 2.5% |



Public Equity primarily invested in low fee products

As of Nov 30, 2023

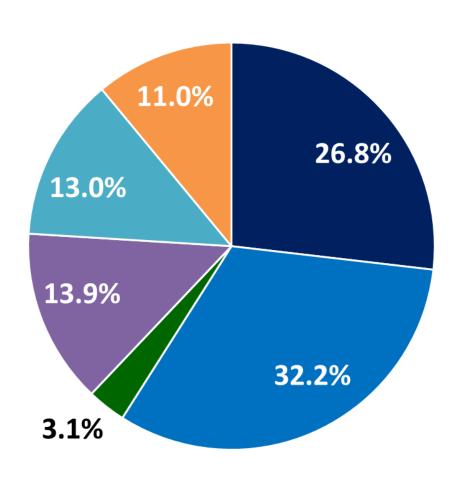




Public Equity Composite by Strategy

As of Nov 30, 2023



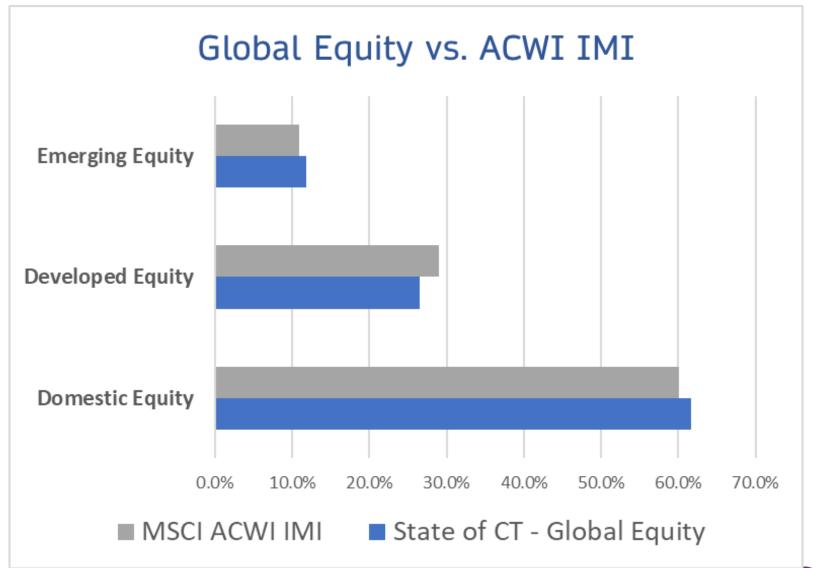


- Domestic Large (Enhanced)
- Domestic Large (Passive)
- Domestic Small + Micro (Active)
- Developed Intl (Passive)
- Developed Intl (Active)
- Emerging Intl (Active)



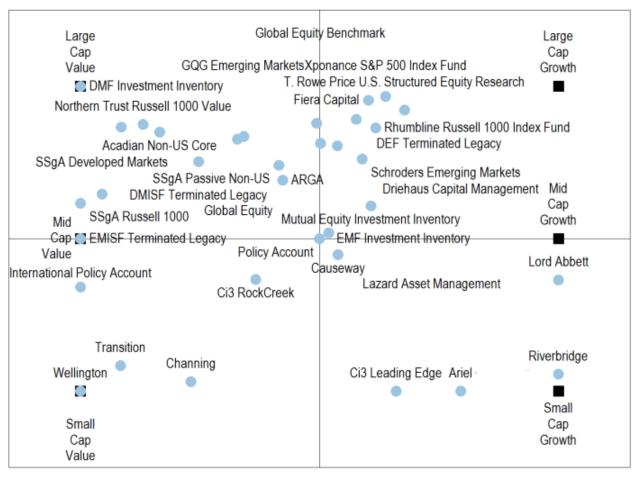
Public Equity is positioned in-line with MSCI ACWI IMI

As of Nov 30, 2023



Meketa Manager Style Analysis

Global Equity 1 Year Ending November 30, 2023





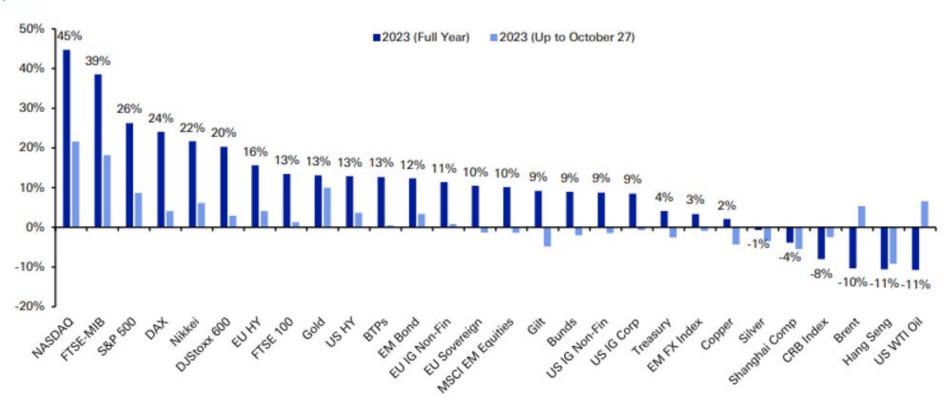
Performance/Positioning

- -Conservative, prudent positioning; in-line with MSCI All Country World Index (ACWI) benchmark; low tracking-error, no sign of "style drift"
- -Above benchmark performance, YTD for 16 of 18 managers; outperforming in 1Y,3Y,5Y,10Y periods.
 - -Optimize portfolio, consolidate the number of managers, lowering fees with "best-in-class" managers



2023 Asset-Class Performance





Source: Bloomberg Finance LP, Deutsche Bank

Note: Equities, credit and bonds shown on total return basis, FX and commodities shown on spot return basis

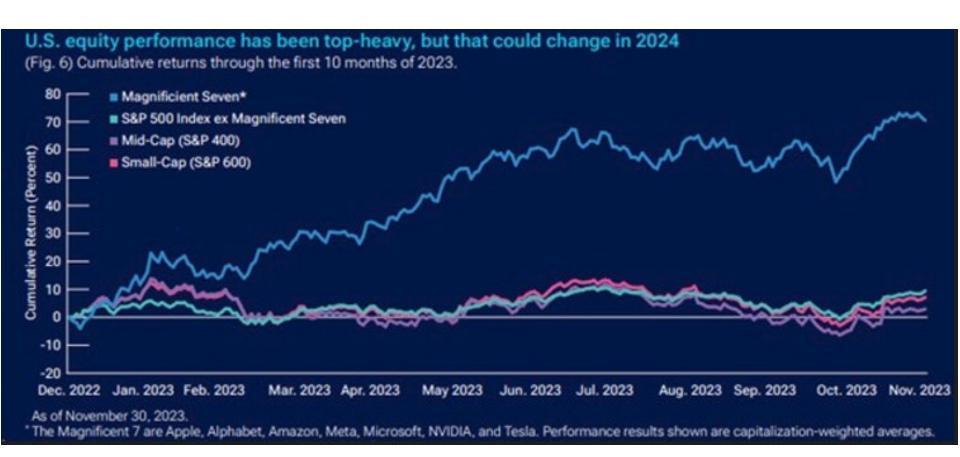


Historical Asset Performance

| | 2 Mos - End Dec 23 | 2023 | 2022 | 2021 | 2020 | 2019 | 2018 | 2017 |
|------------------------------|-----------------------|------|-------|------|------|------|-------|------|
| Dow Jones Industrial | 14.5 | 16.2 | -6.9 | 20.9 | 9.7 | 25.3 | -3.5 | 28.1 |
| S&P 500 | 14.1 | 26.3 | -18.1 | 28.7 | 18.3 | 31.5 | -4.4 | 21.8 |
| Russell 3000 | 15.1 | 25.9 | -19.2 | 25.6 | 20.8 | 31.0 | -5.2 | 21.1 |
| Russell 1000 | 14.7 | 26.5 | -19.1 | 26.4 | 20.9 | 31.4 | -4.8 | 21.7 |
| Russell 1000 Growth | 15.8 | 42.7 | -29.1 | 27.6 | 38.4 | 36.4 | -1.5 | 30.2 |
| Russell 1000 Value | 13.5 | 11.4 | -7.6 | 25.1 | 2.8 | 26.5 | -8.3 | 13.6 |
| Russell Mid-Cap | 18.7 | 17.2 | -17.3 | 22.6 | 17.0 | 30.5 | -9.1 | 18.5 |
| S&P Mid-Cap | 18.0 | 16.4 | -13.1 | 24.7 | 13.6 | 26.2 | -11.1 | 16.2 |
| Nasdaq Composite | 17.1 | 44.7 | -32.5 | 22.2 | 44.9 | 36.7 | -2.8 | 29.7 |
| Russell 2000 | 22.4 | 16.9 | -20.5 | 14.8 | 19.9 | 25.5 | -11.0 | 14.6 |
| MSCI ACWI ex. USA | 14.5 | 16.2 | -15.5 | 8.3 | 11.2 | 22.2 | -13.8 | 27.8 |
| MSCI EAFE | 15.1 | 18.9 | -13.9 | 11.9 | 8.4 | 22.8 | -13.3 | 25.7 |
| MSCI Emerging Markets | 12.2 | 10.1 | -19.8 | -2.3 | 18.7 | 18.8 | -14.3 | 37.8 |
| BBG Barclays Govt/Credit | 8.2 | 5.7 | -13.6 | -1.7 | 8.9 | 9.7 | -0.4 | 4.0 |
| BBG Barclays Agg | 8.5 | 5.5 | -13.0 | -1.5 | 7.5 | 8.7 | 0.0 | 3.5 |
| ML 3-Month T-Bills | 0.5 | 4.5 | 1.5 | 0.1 | 0.7 | 2.3 | 1.9 | 0.9 |

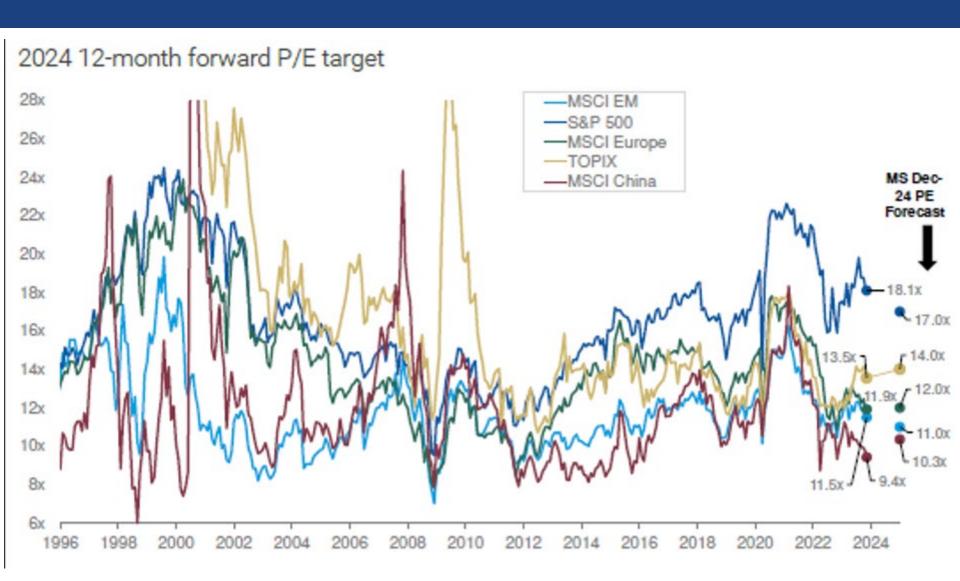


Narrow Breadth in 2023 US Equity Performance





U.S. Market Valuations are relatively expensive

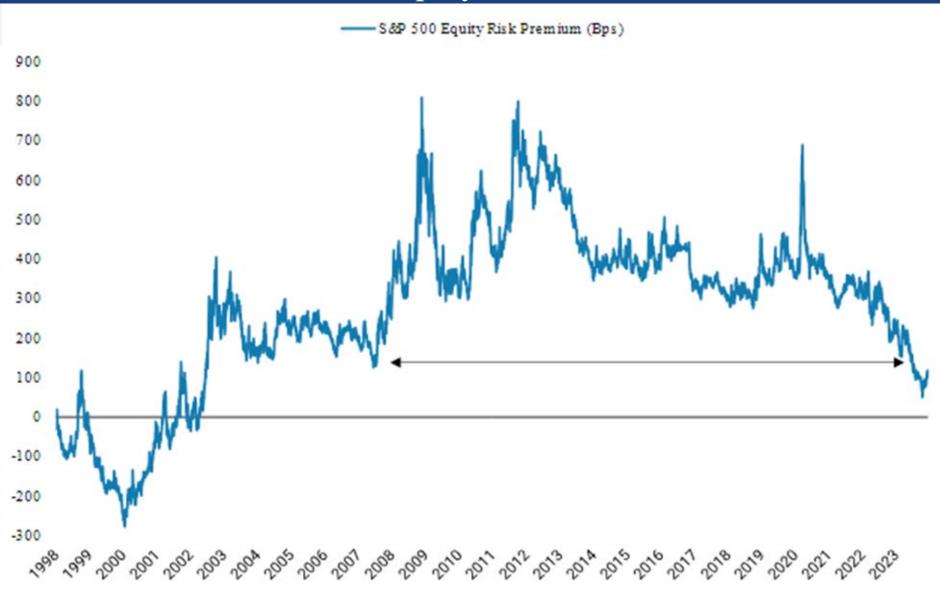




Small Cap is cheap relative to Large Cap in the U.S.

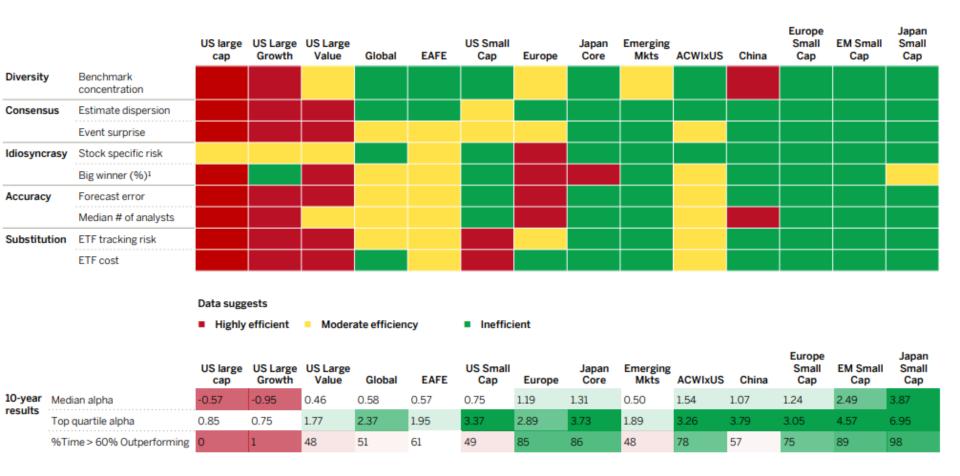


Domestic Equity-Risk Premium





Efficiency/ Opportunity Framework





Annualized Information Ratio

1 Year Ending Nov 30, 2023



State of Connecticut Retirement Plans and Trust Funds

Global Equity | As of November 30, 2023

| | Ann. Return | Ann. Standard Dev | Ann. Alpha | ВЕТА | Info Ratio | Tracking Error | Sharpe Ratio |
|---------------------------------|----------------|-------------------------|---------------|------|---------------|-------------------|-----------------|
| Global Equity | 12.53% | 15.93% | 1.75% | 0.97 | 1.76 | 0.82% | 0.48 |
| Global Equity Benchmark | 11.09% | 16.36% | | 1.00 | | | 0.38 |
| Domestic Equity | 12.88% | 16.54% | 0.93% | 0.97 | 0.81 | 0.74% | 0.48 |
| Domestic Equity Benchmark | 12.27% | 16.97% | | 1.00 | | | 0.43 |
| Developed Markets International | 13.99% | 16.41% | 2.98% | 0.98 | 2.56 | 1.05% | 0.55 |
| Developed Markets Benchmark | 11.28% | 16.79% | | 1.00 | | | 0.38 |
| Emerging Markets International | 8.42% | 16.31% | 2.94% | 0.92 | 0.78 | 3.17% | 0.22 |
| Emerging Markets Benchmark | 5.94% | 17.39% | | 1.00 | | | 0.06 |

Outlook-Public Equities

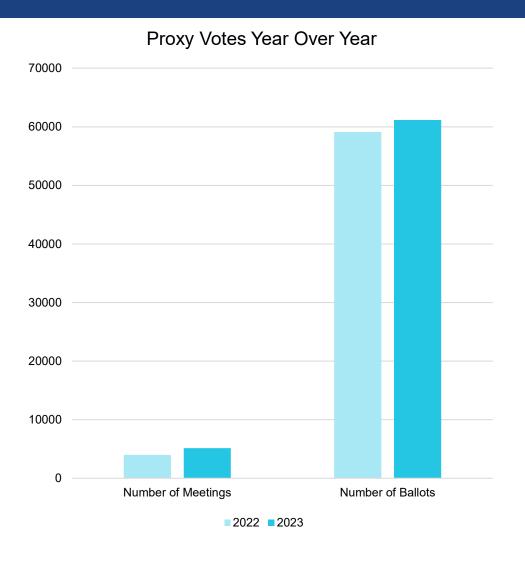
-Macro-economic topics: global election cycle, interest rates, lower global GDP estimates

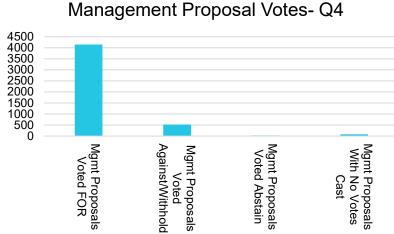
-Public Equity valuations are above historical levels: Neutral

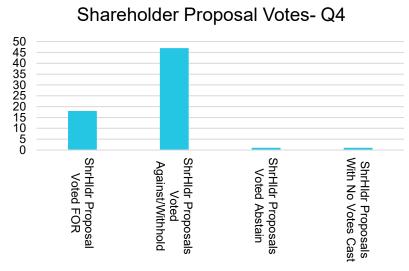
-Small-cap equity valuations are below historical levels: Opportunity



Proxy Voting Summary 2023









MSCI Climate Analysis - Public Equities

N:

MSCI Implied Temperature Rise

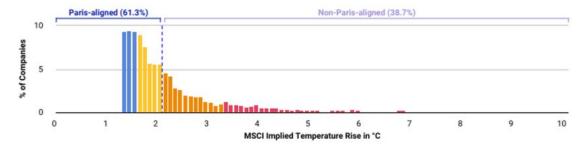
Implied Temperature Rise (ITR) provides a portfolio level number in degrees of Celsius demonstrating how aligned the companies in the portfolio are to global temperature goals.

The Implied Temperature Rise (ITR) metric provides an indication of how well public companies align with global temperature goals. Expressed in degrees Celsius, it is an intuitive, forward-looking metric that shows how a company aligns with the ambitions of the Paris Agreement — which is to keep a global temperature rise this century well below 2°C above pre-industrial levels and to pursue efforts to limit the temperature increase even further to 1.5°C.

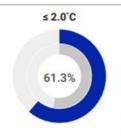
The portfolio-level Implied Temperature Rise uses an aggregated budget approach: it compares the sum of "owned" projected GHG emissions against the sum of "owned" carbon budgets for the underlying fund holdings. The portfolio's total estimated carbon budget over-/undershoot is then converted to a degree of temperature rise (°C) using science based TCRE (Transient Climate Response to Cumulative Emissions). The allocation base used to define ownership is Enterprise Value including Cash (EVIC) in order to enable the analysis of equity and corporate bond portfolios.

Portfolio MSCI Implied Temperature Rise Distribution

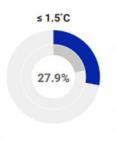
The issuers in the portfolio are distributed according to their Implied Temperature Rise showing the number who are aligned with the Paris Agreement and the more ambitious 1.5°C temperature goal.



| Implied Temperature Rise C | % of companies in category | | |
|----------------------------|----------------------------|-------|--|
| 1.5°C Aligned | <= 1.5°C | 27.9% | |
| 2°C Aligned | > 1.5°C - 2 °C | 33.4% | |
| Misaligned | >2.0 - 3.2°C | 25.8% | |
| Strongly Misaligned | >3.2°C | 12.9% | |



61.3% of companies within the portfolio (vs. 53.1% for the benchmark) align with the goal of limiting temperature increase to below 2°C.



27.9% of companies within the portfolio (vs. 21.9% for the benchmark) align with the goal of limiting temperature increase to below 1.5°C.



2024 Initiatives

-Manager search for active small-cap and developed equity

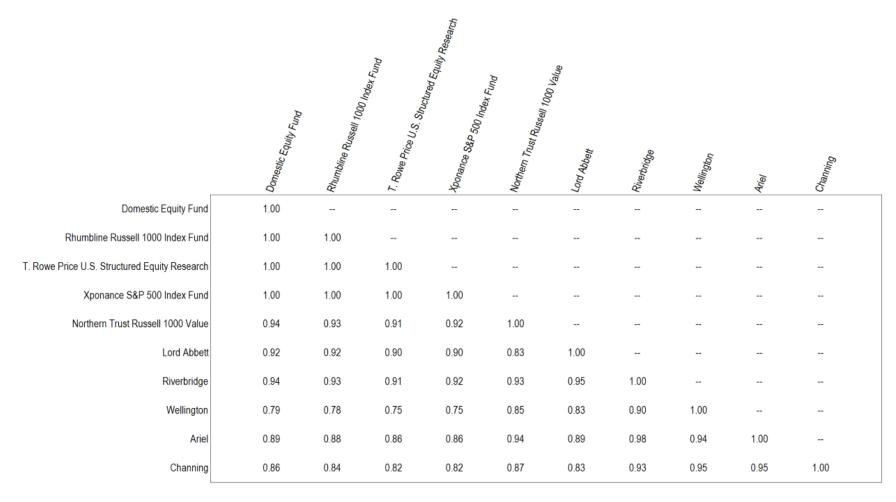
-ESG: enhanced proxy voting, increased engagement

-Portfolio management tools: aid in decision-making process, utilize more timely data, optimize risk assessment, monitor investment managers, increase efficiency



Historical Asset-Class Correlation

Correlation Matrix 1 Year Ending November 30, 2023





Appendix



Manager Active Return Page 31 of 121

Year-To-Date

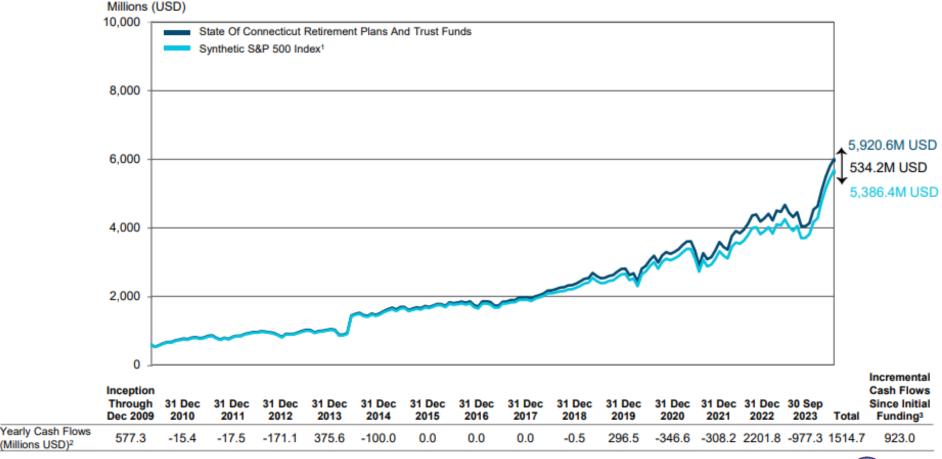
| YTD | | | | | | | |
|---------------------------------------|----------|------------------------------|-------------|--------|------------|--|--|
| | | | | | Active | | |
| Name | Active / | Benchmark | Total Value | | Cumulative | | |
| INAITIC | Passive | Deficilitation | | (\$M) | Return | | |
| TOTAL ADVISOR | | Policy Benchmark | | 51,649 | -1.9% | | |
| GLOBAL EQUITY | | MSCI ACWI IMI | \$ | 24,211 | 1.4% | | |
| Domestic Equity | | MSCI USA IMI | \$ | 14,841 | 0.4% | | |
| T ROWE PRICE ASSOC | Enhanced | S&P 500 | \$ | 6,343 | 3.5% | | |
| RHUMBLINE | Passive | Russell 1000 | \$ | 5,196 | 0.0% | | |
| XPONANCE | Passive | S&P 500 | \$ | 1,496 | 0.0% | | |
| DEF NTRS R1000 VALUE | Passive | Russell 1000 Value | \$ | 910 | 0.0% | | |
| CHANNING CAP | Active | Russell 2000 Value | \$ | 198 | 5.6% | | |
| ARIEL | Active | Russell 2000 Value | \$ | 194 | 1.5% | | |
| RIVERBRIDGE DEF | Active | Russell 2000 Growth | \$ | 134 | 4.9% | | |
| LORD ABBETT DEF | Active | Russell 2000 Growth | \$ | 114 | -7.3% | | |
| WELLINGTON DEF | Active | Russell Microcap | \$ | 87 | 7.1% | | |
| Developed Markets International | | MSCI EAFE + Canada | \$ | 6,369 | 2.1% | | |
| SSGA Passive EAFE | Passive | MSCI EAFE IMI | \$ | 2,988 | 0.3% | | |
| CAUSEWAY | Active | MSCI EAFE | \$ | 1,371 | 10.5% | | |
| FIERA CAPITAL | Active | MSCI EAFE | \$ | 905 | 2.5% | | |
| ACADIAN | Active | MSCI EAFE | \$ | 799 | -4.9% | | |
| SSGA Passive EAFE Value | Passive | MSCI EAFE Value IMI | \$ | 294 | 0.5% | | |
| Emerging Markets International | | MSCI Emerging Markets IMI | \$ | 3,001 | 2.4% | | |
| ARGA INVEST | Active | MSCI Emerging Markets Value | \$ | 722 | 1.8% | | |
| SCHRO INVEST | Active | MSCI Emerging Markets | \$ | 693 | 0.0% | | |
| GQG PARTNERS | Active | MSCI Emerging Markets Growth | \$ | 599 | 14.1% | | |
| DRIEHAUS CAP | Active | MSCI Emerging Markets Growth | \$ | 586 | 4.7% | | |



HISTORICAL ACCOUNT MARKET VALUES: STATE OF CONNECTICUT RETIREMENT PLANS AND TRUST FUNDS VS. SYNTHETIC S&P 500

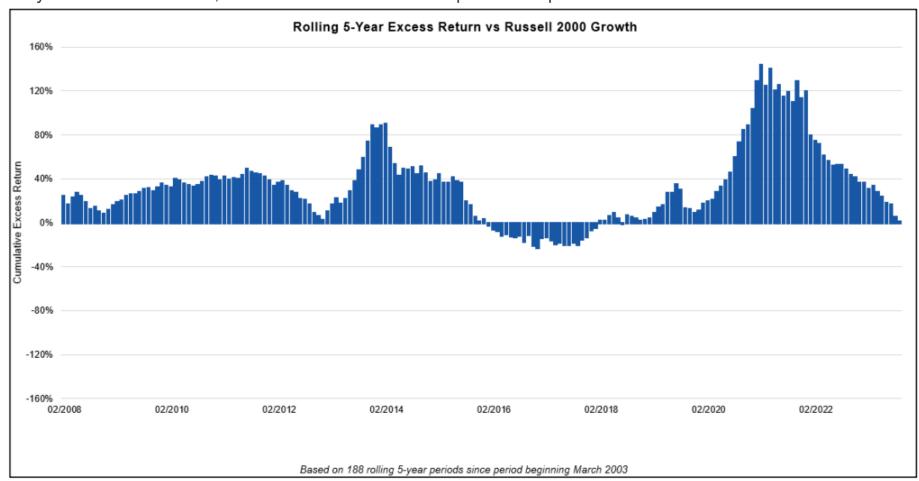
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Since Account Inception 22 January 2009 Through 30 September 2023



Lord Abbett - Historical Performance

• Lord Abbett's high-growth style of investing has resulted in a distinct historical performance profile, which is characterized by periods of historically significant outperformance vs. the Russell 2000 Growth index, followed by short-term setbacks, stabilization and then resumption of outperformance.



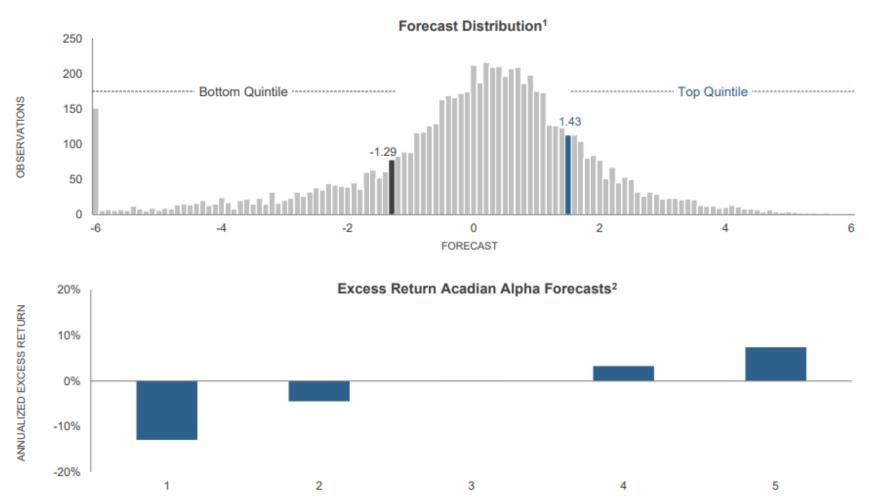
Source: eVestment. As of 9/30/23.



Acadian - Quantitatively Driven Process

Stock Forecast Distribution and Returns

Trailing 10 Years as of June 2023



Small Cap Equity-Detailed slides



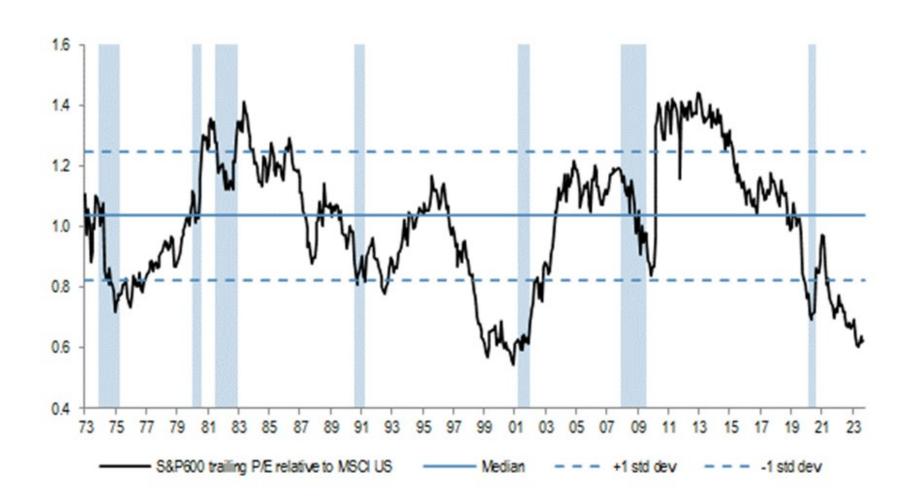
Smalfagvisof. 12 Large

Relative Performance of Small vs. Large Caps Has Historically Been Cyclical





Small vs. Large²¹- Domestic



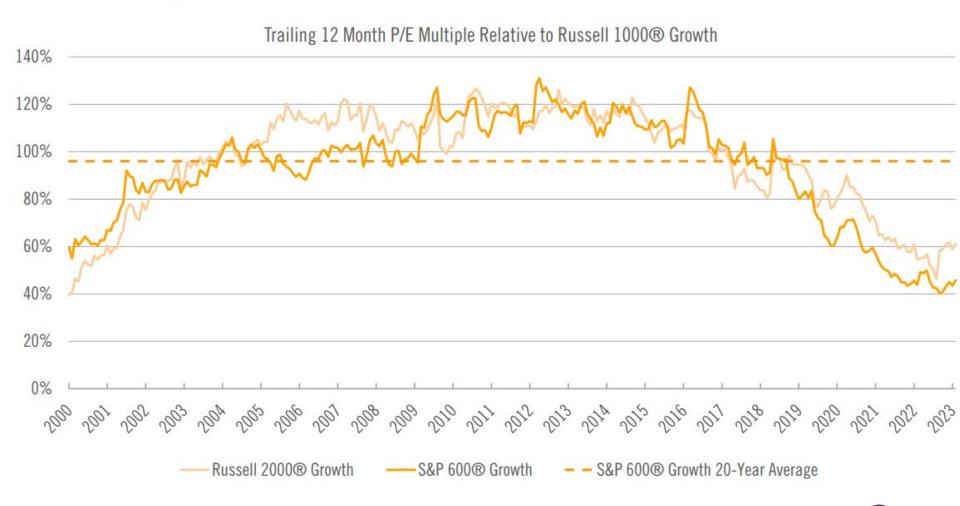


Small vs. Lärge 121 Developed

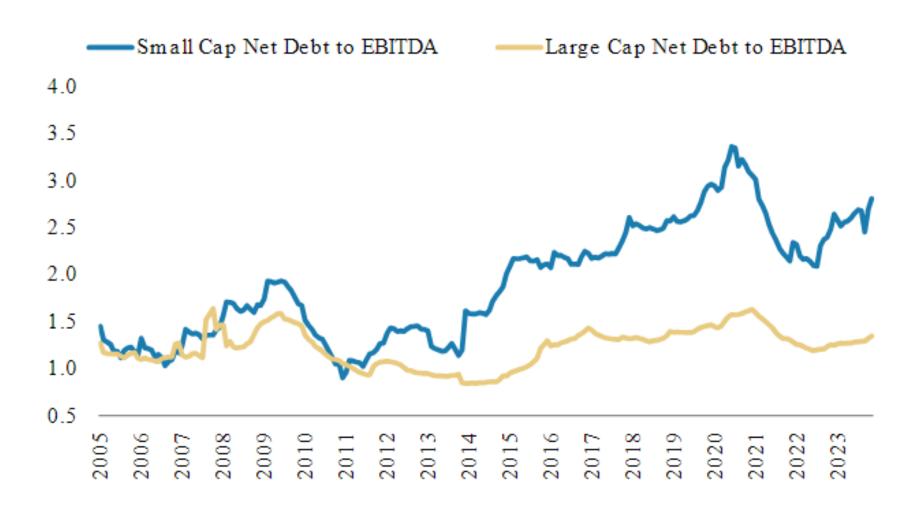


Small VS ... Large

Relative Small Cap Valuations Are At or Near Historic Lows

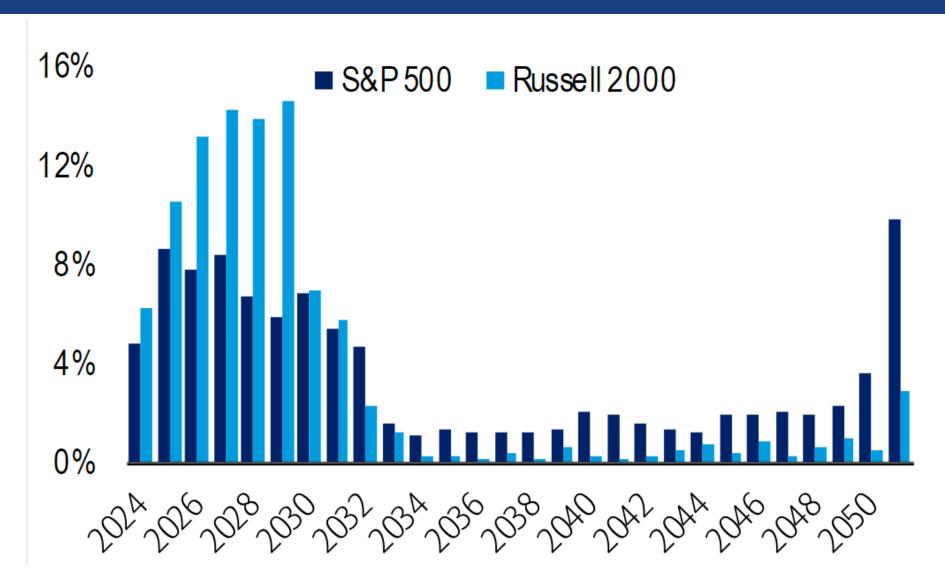


Small vs. Large Page Net Debt to EBITDA





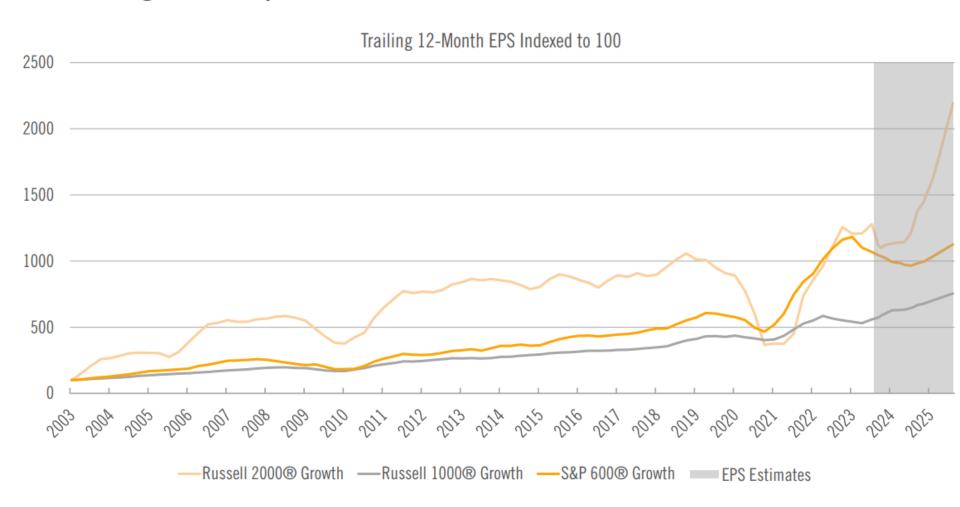
S&P 500 debt maturing in manageable chunks, but not the Russell 2000





Small VS Large

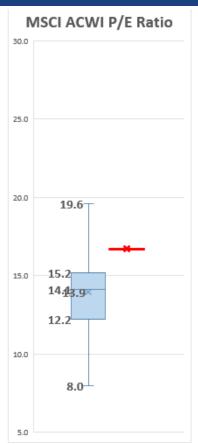
And Yet Earnings Growth Expectations Remain Robust

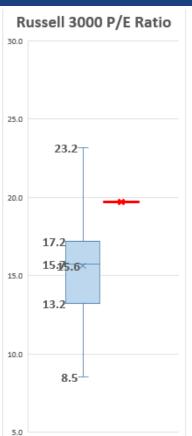


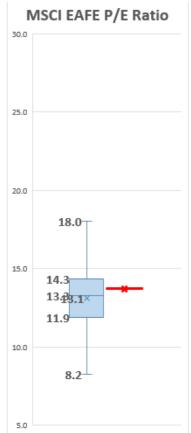
Small caps offer broader sector representation than large caps

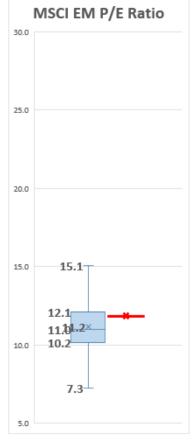


Public Equities are Expensive Relative to Historical Norms As of Dec 2023









| MSCI ACWI P/E Ratio | | |
|---------------------|-------|--|
| Current | 16.71 | |
| Mean | 13.95 | |
| STD | 2.24 | |
| Z | 1.23 | |

| Russell 3000 P/E Ratio | | |
|------------------------|-------|--|
| Current | 19.70 | |
| Mean | 15.63 | |
| STD | 2.90 | |
| Z | 1.40 | |

| MSCI EAFE P/E Ratio | | |
|---------------------|-------|--|
| Current | 13.70 | |
| Mean | 13.10 | |
| STD | 1.85 | |
| Z | 0.33 | |

| MSCI EM P/E Ratio | | |
|-------------------|-------|--|
| Current | 11.85 | |
| Mean | 11.15 | |
| STD | 1.49 | |
| Z | 0.47 | |



Hedging FX Exposure: A Study January 10, 2024



Executive Summary

Global Investing: Diversification and Currency Risk

- Global multi-asset class portfolios make investments in foreign markets for long term return and diversification objectives.
- As part of this process, the overall portfolio will have exposure to foreign currencies. This by-product of foreign investing adds a component of residual risk that should be reviewed and analyzed to better understand its effect on the overall portfolio.

Pension Liability Profile

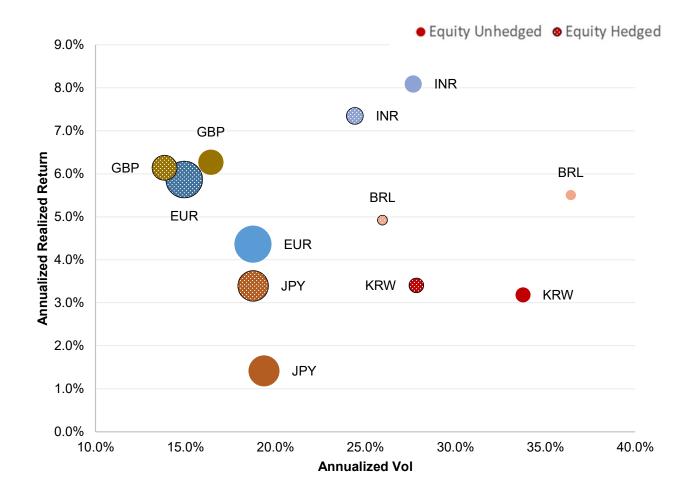
- Like other pension plans, the CRPTF portfolio aims to generate retirement income for the pensioners of the state.
- With this objective, the CRPTF needs to cover a future stream of payments, ie. a liability stream, fully denominated in US dollars.

Review FX Hedging to Improve Portfolio Performance

Our objective is to assess the risk and return implications of the overall FX exposure from a
total portfolio perspective. This analysis should provide insights to determine if it would be
better to partially/fully hedge this exposure to reduce risk and possibly improve returns over
time.

Historical unhedged and hedged equity returns and volatilities by currency

FX hedging tends to reduce volatilities and in some cases increase returns

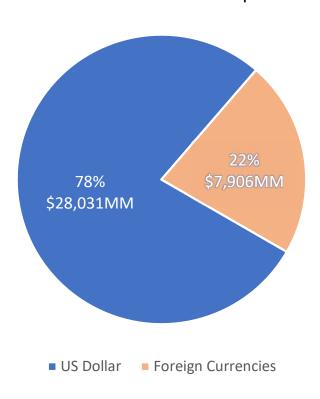


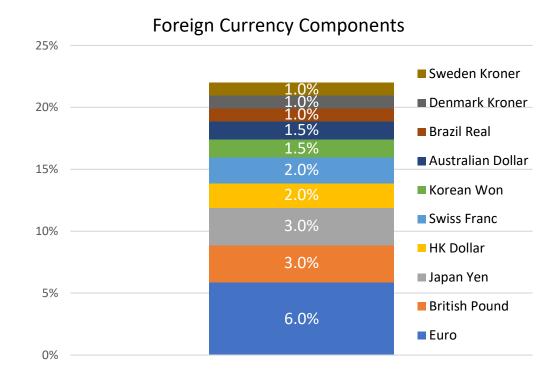
Source: PIMCO, as of 10/31/2023, based on 5 year horizon return, risk estimates



CRPTF Current FX Exposure

CRPTF Portfolio FX Exposure





Source: State Street



Components of FX Return

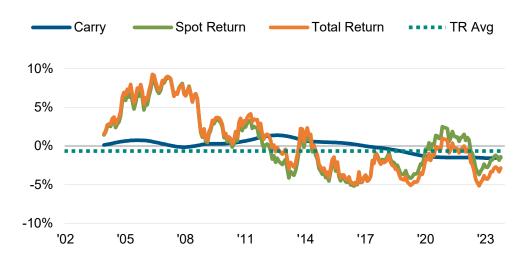


Position of the Interest Rates between the Foreign Currency and the US Dollar

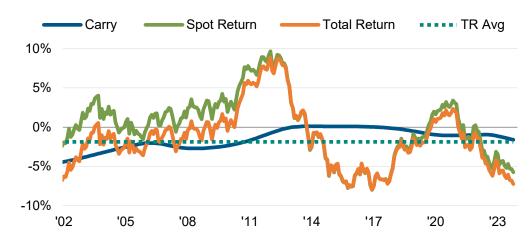
Euro and Japanese Yen: Return and Carry

Total Return mostly determined by Spot FX changes

EUR 5 year rolling



JPY 5 year rolling

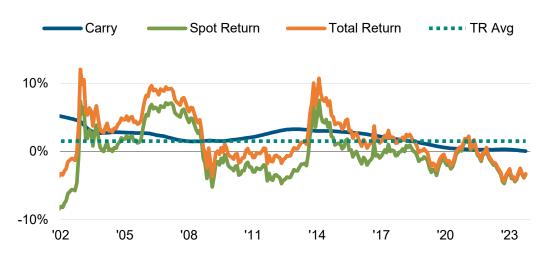


Source: PIMCO



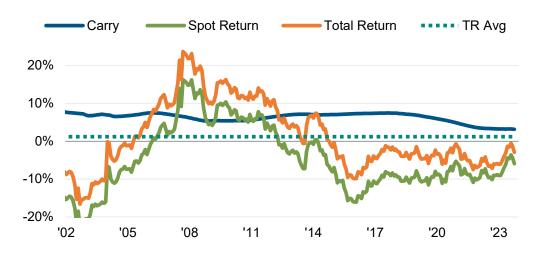
Korea Won and Brazil Real: Return and Carry

KRW 5 year rolling



Carry is an important component of Total Return

BRL 5 year rolling



Source: PIMCO



Components of FX Exposure

Return

Hedging higher-yielding currencies into USD can reduce returns.

Risk

Specific FX volatility can be material, ranging from 8%-12% for most developed currencies.

Correlation

FX risk has a wide range of correlations with asset returns and other currencies, and should be analyzed in a total portfolio context.



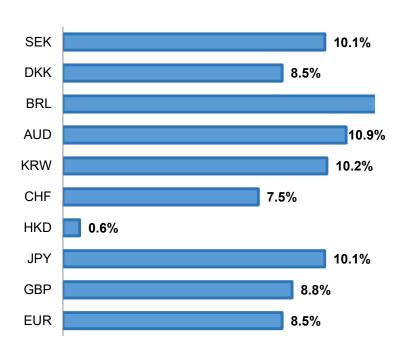
Observations on Portfolio FX Hedging

- Global multi-asset class portfolios have investments in several foreign currencies which presents a currency hedging optimization problem.
- Some currencies will add risk to the portfolio while not adding a positive return, or in some cases, presenting a negative return.
- Hedging these currencies from a total portfolio perspective should reduce the overall volatility without affecting returns, therefore presenting an optimal performance with similar/higher return and lower volatility.



Developed Market Volatilities and Correlations

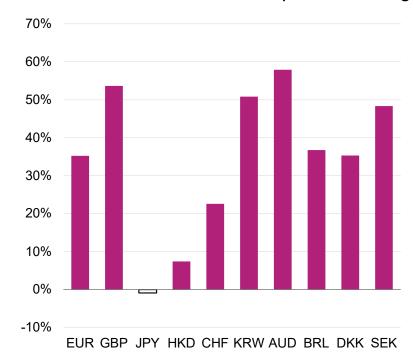
Estimated Volatilities



- Long-term volatilities for main developed market currencies usually range in 8%- 12%
- FX volatility can be material, especially for low to medium risk portfolios

Source: PIMCO, based on 5 year horizon return, risk estimates

Estimated Correlations with Global Equities USD Hedged

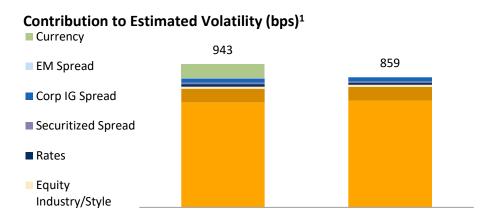


- These are estimated (ex-ante) correlations of currency pairs vs. a USD hedged global equity index (MSCI Global Index)
- Compared to the USD, most currencies are risk-on which will add to the equity risk.
- JPY is the only risk-off currency vs USD, but the correlation is not negative enough to make it a net risk diversifier.



Total Portfolio Volatility: Hedged vs. Unhedged

- The following analysis shows the volatility profile of a model portfolio: 60% Equity MCSI All-Country Weighted Index (ACWI) / 40% Fixed Income BBG Aggregate under two scenarios: Fully Hedged and Unhedged
- The analysis shows the volatility contribution of different factors like Equity, Duration and Spread.
- The Hedged Portfolio has lower overall estimated volatility compared to the Unhedged Portfolio



| | 60/40 Officeaged Portiono | | 60/40 neaged Portiono | |
|-----------------------------------|---------------------------|---|-----------------------|---|
| | Factor Weights | Volatility Contrib. (bps) ¹ | Factor Weights | Volatility Contrib. (bps) ¹ |
| Equity Factors | | | | |
| World Equity (DM) | 0.53 | 692 | 0.53 | 704 |
| World Equity (EM) | 0.07 | 90 | 0.07 | 90 |
| Interest Rate Factors (Yrs | .) | | | |
| Nominal Duration (DM) | 2.35 | 18 | 2.35 | 13 |
| Nominal Duration (EM) | 0.01 | 0 | 0.00 | 0 |
| Real Duration | 0.00 | 0 | 0.00 | 0 |
| Spread Duration Factors (| Yrs.) | | | |
| Securitized Spread | 0.68 | 9 | 0.68 | 8 |
| Corp IG Spread | 0.80 | 28 | 0.80 | 27 |
| EM Spread | 0.06 | 2 | 0.06 | 2 |
| Currency Factors | | | | |
| DM Currency | 0.18 | 76 | 0.00 | 0 |
| EM Currency | 0.05 | 15 | 0.00 | 0 |
| Estimated Volatility ¹ | | 9.4% | | 8.6% |

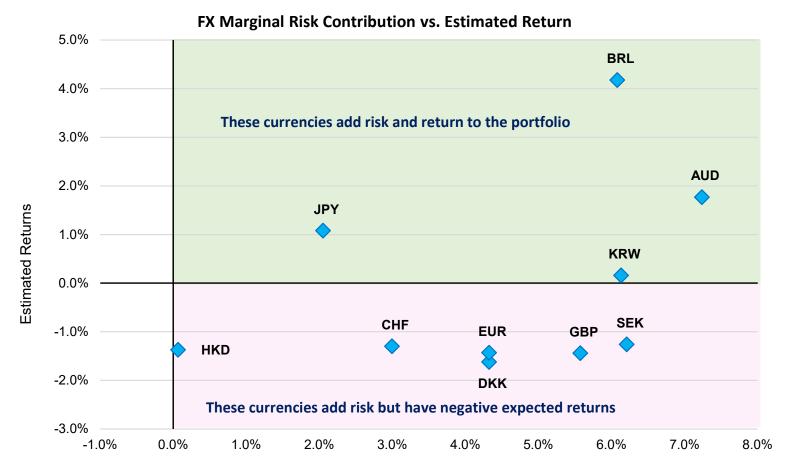
60/40 Unhadged Portfolio

Source: PIMCO, based on quantitative risk estimates

60/40 Hadged Portfolio

Marginal Risk and Return Contribution of Currencies

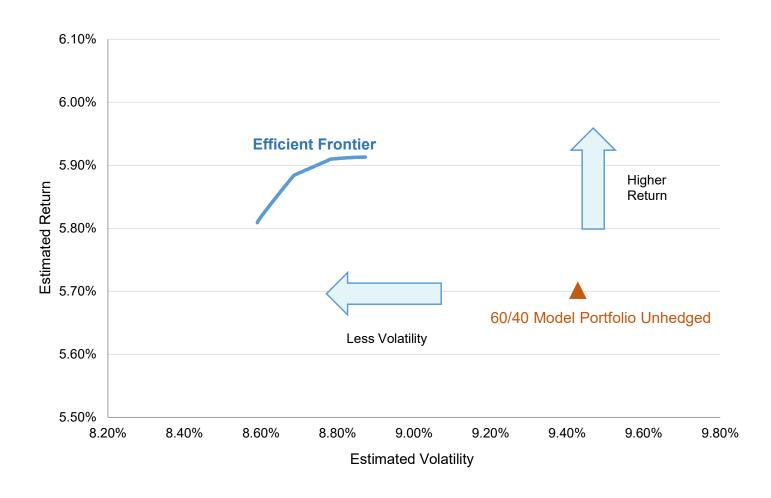
Most currencies add Marginal Risk, while their Expected Return contribution can be positive or negative



FX Marginal Risk Contribution

Source: PIMCO, ex-ante data based on return, risk estimates

Currency Optimization Frontier



Source: PIMCO, based on return, risk estimates



Conclusion and Next Steps

Global multi-asset portfolios generate FX exposures that can add risk without generating higher returns.

Develop systematic hedging strategy for CRPTF FX exposure.





Connecticut Short-Term Investment Fund

Investment Advisory Council Meeting January 10, 2024

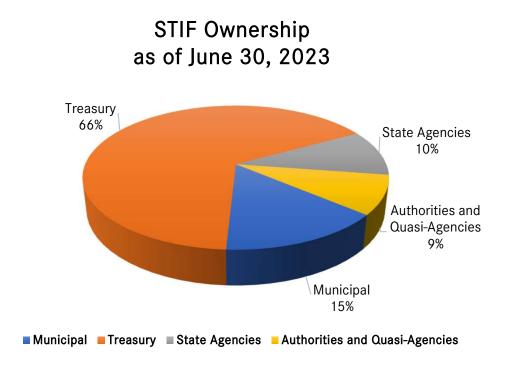


Fund Facts as of June 30, 2023

- Fund Inception: 1972 as an investment vehicle for state operating cash
- Objective: As high a level of current income as is consistent with, first, the safety
 of principal and, second, the provision of liquidity.
- AAAm rated by Standard and Poor's
- Benchmarked to iMoneyNet's First Tier Institutions-Only AAA-Rated Money Fund Report (MFR) Averages Index
- Total Assets: \$19.1 Billion
- Substantial reserves to protect NAV against erosion of market value
- Approximately 1 4 basis points of expenses excluding the 10 basis points contributed to the reserve for loss

Ownership

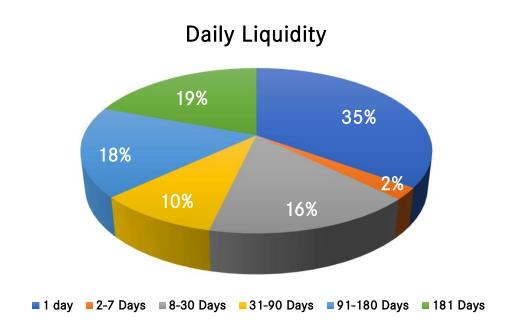
| <u>Distributions:</u> | <u>Amount</u> | <u>Percentage</u> |
|--------------------------------|-------------------|-------------------|
| Municipal | 2,789,571,858.27 | 15% |
| Treasury | 12,522,302,955.57 | 66% |
| State Agencies | 1,956,104,840.15 | 10% |
| Authorities and Quasi-Agencies | 1,657,967,820.52 | 9% |
| Total | 18,925,947,474.51 | 100% |



- Extremely stable balances with the State's common cash pool accounting for two-thirds of the entire portfolio
- Historically, municipalities totaled approximately a third of the portfolio, but outsized State balances have dropped municipal balances to 15 percent of STIF assets

Daily Liquidity

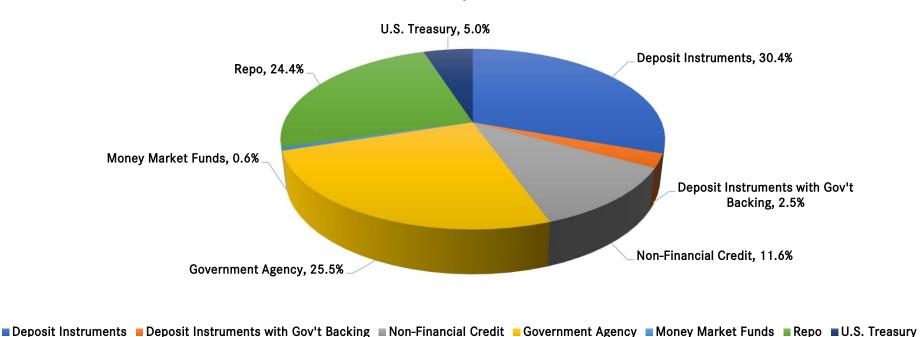
| Daily Liquidity | |
|-----------------|----------------|
| 1 Day | 6,662,556,595 |
| 2-7 Day | 439,738,944 |
| 8-30 Day | 3,107,165,922 |
| 31-90 Day | 1,809,718,969 |
| 91-180 Days | 3,365,090,544 |
| >181 Days | 3,665,156,653 |
| Total | 19,049,427,627 |



- STIF has a minimum daily liquidity requirement of 30 percent
- More than half the portfolio matures within one-month
- State's balances are very stable and account for more the twice the minimum daily liquidity requirement

Portfolio Diversification by Security Type

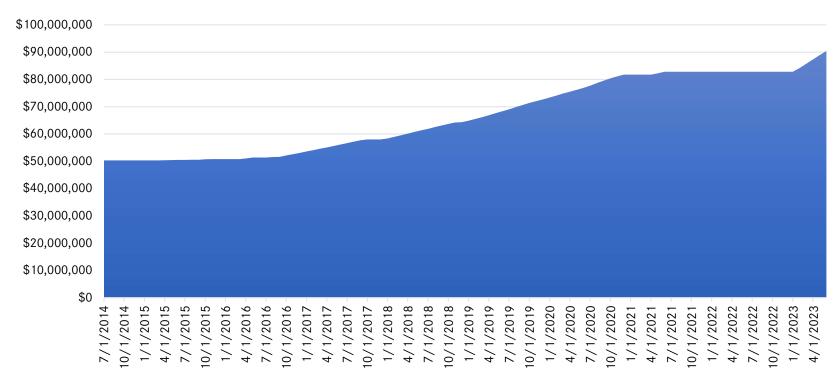
Portfolio Composition June 30, 2023



- STIF has approximately 58 percent of its assets in securities with some sort of government guarantee
- 12 percent in A1+ Corporate Commercial Paper
- 30 percent in high-quality Certificates of Deposit



STIF Reserve for Loss



 Reserve is targeted to be 1% of STIF assets. As assets grow, reserve continues to increase.

STIF Historical Performance vs. Benchmarks June 30, 2023

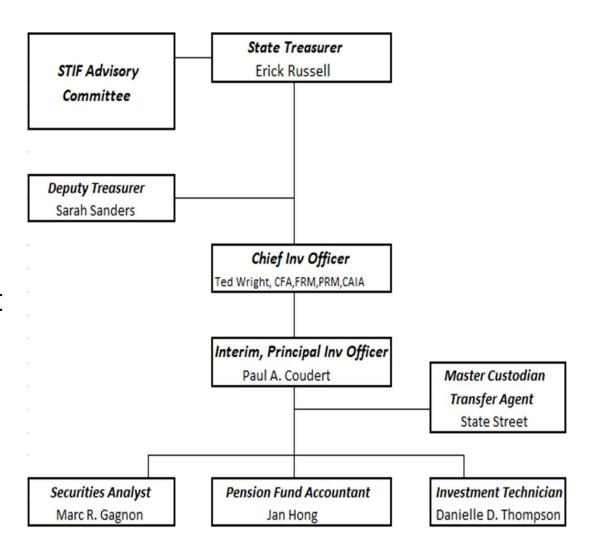


^{*} Represents iMoneyNet Money Fund Average TM - Rated first Tier Institutional Average (MFR) Index.

- The fund continues to outperform its primary benchmark while maintaining a conservative investment approach.
- Over the past ten years, STIF has outperformed its primary benchmark by 13 basis points, adding more than \$100 million in excess earnings versus the iMoneyNet index.

Organization Chart

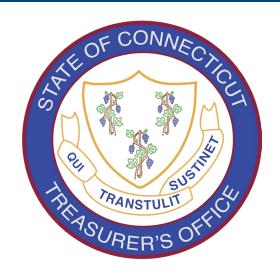
The team has an average of over twenty years of investment experience and is overseen by the Chief Investment Officer, who is responsible for the oversight of approximately \$70 billion in investments for the Office of the State Treasurer.



Summation

- Connecticut's STIF continues to focus on liquidity and safety before yield, resulting in a conservative investment portfolio.
- The largest participants in the fund the state and state agencies and authorities are well understood and are partners as well as participants. The state is the largest participant and provides the fund with estimated larger flows well in advance of the occurrence.
- STIF's reserves, at nearly \$100 million, provide a significant cushion to the portfolio.
- The conservative portfolio combined with close coordination with large investors and reserves allow the fund to maintain a stable NAV across interest rate environments and redemption scenarios.

Connecticut Retirement Plans and Trust Funds



Portfolio Rebalancing Philosophy January 10, 2024



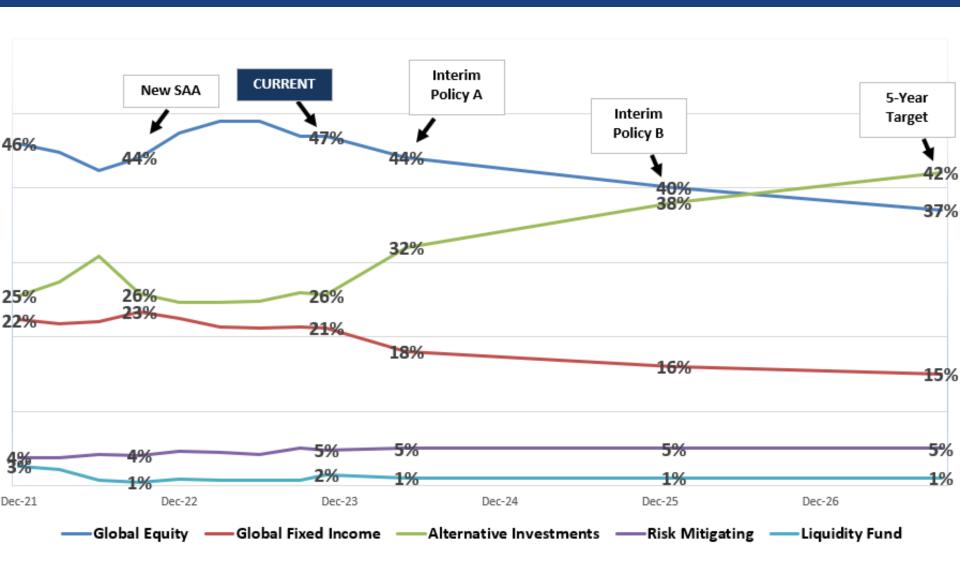
New Strategic Asset Allocation Adopted in Fall of 2022

- Global Equity <u>rebalanced</u> to reflect MSCI ACWI regional weights
- Domestic Equity increased to reflect staggered Private Equity pacing plan
- Core Fixed Income <u>restructured</u> to include Treasuries + new Active Strategies
- TIPS eliminated from Portfolio
- Infrastructure & Natural Resources rolled out as a "stand-alone" asset class
- Overweight to Non-Core Fixed Income maintained as a tactical offset to Private Credit
- Legacy Emerging Markets Debt reduced...used to fund higher Public Equities
- Risk Mitigating Strategy was <u>developed and funded</u>
- Innovate our SAA Implementation consider how PFM can achieve the asset allocation in a disciplined and thoughtful manner through interim policy targets.



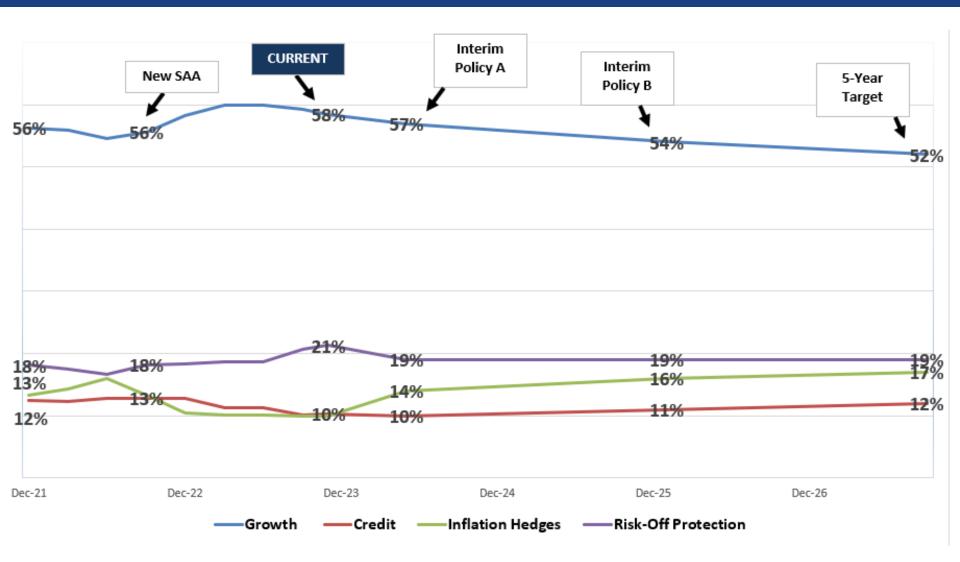
A Marathon...Not a Sprint

Current: As of November 30, 2023



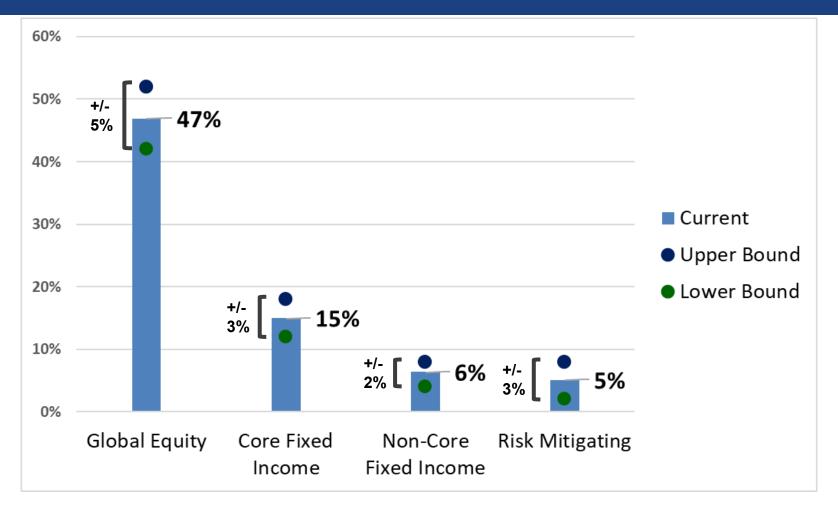
Public Proxy used for Thematic Buckets until Private Commitments are Called

Current: As of November 30, 2023





Rebalancing bounds limit Tracking Error and reduce tradingrelated transaction costs



Upper/ Lower bounds do not necessitate a systematic rebalancing but rather they are meant to serve as guideposts for initiating a discussion.



Portfolio Rebalancing Process

- 1. The process is only relevant for liquid public markets asset classes, namely Global Equities, Global Fixed Income and Risk Mitigation strategies.
- 2. The relevant Public Markets PIO monitors allocation to the public market asset classes.
- 3. Upon the previously mentioned thresholds being breached, the PIO initiates a discussion with the CIO.
- 4. The CIO and PIO agree upon the targets to which the portfolio needs to be rebalanced.
- 5. The PIO prepares and sends the memo for CIO approval to proceed with the rebalancing trades.
- 6. Given the size of the rebalancing required, the PIO can use multiple tranches over approximately a 4-week period depending on market conditions and liquidity.



Risk-Off Scenario would suggest rebalancing to get Thematic Exposures back to Target

| HYPOTHETICAL RISK-OFF SCENARIO | | | | | | | |
|--------------------------------|------|--|--|--|--|--|--|
| Global Equity | -20% | | | | | | |
| Core Fixed Income | +10% | | | | | | |
| Non-Core Fixed Income | -10% | | | | | | |
| Risk Mitigating | +15% | | | | | | |

| Asset Class | Current Allocation | Market Value (\$M) | | Scenario arket Value (\$M) | Scenario Allocation | '' | | Post Rebalance Allocation |
|-----------------------|-----------------------|-----------------------|--------|----------------------------------|------------------------|----|---------|------------------------------|
| Global Equity | 47% | \$ | 24,211 | \$ 19,369 | 41% | \$ | 2,000 | 45% |
| Core Fixed Income | 15% | \$ | 7,694 | \$ 8,463 | 18% | \$ | (1,200) | 15% |
| Non-Core Fixed Income | 6% | \$ | 3,238 | \$ 2,914 | 6% | \$ | - | 6% |
| Risk Mitigating | 5% | \$ | 2,505 | \$ 2,880 | 6% | \$ | (800) | 4% |
| Private Equity | 12% | \$ | 5,950 | \$ 5,950 | 12% | \$ | - | 12% |
| Private Credit | 4% | \$ | 2,102 | \$ 2,102 | 4% | \$ | - | 4% |
| Real Estate | 7% | \$ | 3,766 | \$ 3,766 | 8% | \$ | - | 8% |
| Infrastructure | 3% | \$ | 1,388 | \$ 1,388 | 3% | \$ | - | 3% |
| Liquidity | 2% | \$ | 795 | \$ 795 | 2% | \$ | - | 2% |
| | | \$ | 51,649 | \$ 47,628 | | | | |



Overview of 2024 Private Markets Pacing Plans

January 10, 2024

| | Page # |
|---|--------|
| Executive Summary | 3 |
| Consolidated Private Markets Pacing Plans | 4 |
| Projected Asset Allocation Level, Capital Calls and Distributions | 5 |
| Commitments and Unfunded Commitments | 6 |
| Infrastructure/Natural Resources Pacing Plan Summary | 7 |
| Real Estate Pacing Plan Summary | 8 |
| Private Credit Pacing Plan Summary | 9 |
| Private Equity Pacing Plan Summary | 10 |
| Appendix | 11 |



Executive Summary

- Pacing plans are developed to support the achievement of the long-term strategic asset allocation targets for the CRPTF's Infrastructure/Natural Resources ("INR"), Real Estate ("RE"), Private Credit ("PC"), and Private Equity ("PE") portfolios.
- The pacing plans are developed annually and utilize various inputs (see Appendix) to target annual commitment levels and portfolio objectives consistent with the Investment Policy Statement for each asset class.
- Pension Funds Management staff worked with Albourne (INR & RE), and Hamilton Lane (PC & PE) to develop 2024 pacing plans with consistent baseline assumptions for the CPRTF, including:
 - Total CRPTF actual value of \$49.3 million as of October 31, 2023.
 - A range of net growth rates for the CRPTF total value of 3%, 4%, and 5% per annum used for scenario development
 - Annual net growth rate assumptions are intended to capture the estimated <u>net</u> impact of contributions, distributions, and investment returns
- The 2024 pacing plans identify targeted commitment levels for each asset class as shown below and more fully described in this overview.

| | 2024 Pacing Plan Targets | | | | | | | | |
|--------------|--------------------------|---------|---------|---------|---------|--|--|--|--|
| (\$Millions) | INR | RE | PC | PE | Total | | | | |
| Commitments | \$650 | \$1,100 | \$2,000 | \$1,700 | \$5,450 | | | | |

Targeted commitments shown based on 4% CRPTF net growth rate.



Consolidated Private Markets Pacing Plans

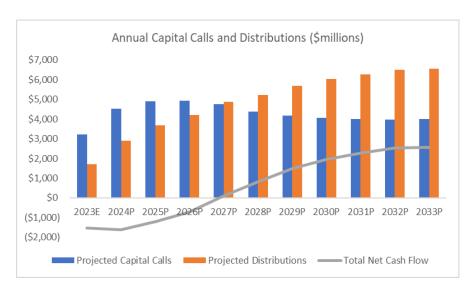
| | | | | Private M | arkets Pacing | Plan Summa | ry | | | | |
|-----------------------|-----------|-----------|-----------|-----------|---------------|------------|----------|----------|----------|----------|----------|
| (\$Millions) | 2023E | 2024P | 2025P | 2026P | 2027P | 2028P | 2029P | 2030P | 2031P | 2032P | 2033P |
| | | | | | Commitme | nts | | | | | |
| INR | \$825 | \$650 | \$550 | \$550 | \$400 | \$400 | \$400 | \$400 | \$400 | \$400 | \$400 |
| RE | \$500 | \$1,100 | \$1,130 | \$970 | \$550 | \$600 | \$680 | \$680 | \$680 | \$740 | \$800 |
| PC | \$810 | \$2,000 | \$1,500 | \$1,150 | \$1,150 | \$1,200 | \$1,200 | \$1,200 | \$1,200 | \$1,200 | \$1,200 |
| PE | \$1,925 | \$1,700 | \$1,600 | \$1,800 | \$1,800 | \$1,700 | \$1,700 | \$1,700 | \$1,700 | \$1,700 | \$1,700 |
| Total Commitments | \$4,060 | \$5,450 | \$4,780 | \$4,470 | \$3,900 | \$3,900 | \$3,980 | \$3,980 | \$3,980 | \$4,040 | \$4,100 |
| | | | | | Net Cash Fl | low | | | | | |
| INR | (\$415) | (\$608) | (\$575) | (\$373) | \$40 | \$174 | \$311 | \$269 | \$229 | \$280 | \$200 |
| RE | (\$269) | (\$199) | (\$194) | (\$228) | (\$160) | (\$65) | \$102 | \$228 | \$313 | \$376 | \$376 |
| PC | (\$651) | (\$766) | (\$436) | (\$428) | (\$138) | \$204 | \$430 | \$597 | \$652 | \$674 | \$668 |
| PE | (\$190) | (\$48) | (\$16) | \$301 | \$364 | \$514 | \$656 | \$870 | \$1,073 | \$1,207 | \$1,317 |
| Total Net Cash Flow | (\$1,525) | (\$1,621) | (\$1,221) | (\$727) | \$107 | \$827 | \$1,499 | \$1,964 | \$2,267 | \$2,537 | \$2,560 |
| | | | | | Net Asset V | alue | | | | | |
| INR | \$1,372 | \$2,148 | \$2,977 | \$3,689 | \$4,049 | \$4,288 | \$4,399 | \$4,538 | \$4,742 | \$4,894 | \$5,139 |
| RE | \$3,591 | \$4,050 | \$4,571 | \$5,175 | \$5,773 | \$6,194 | \$6,524 | \$6,764 | \$6,928 | \$7,054 | \$7,180 |
| PC | \$2,286 | \$3,431 | \$4,212 | \$5,102 | \$5,803 | \$6,226 | \$6,473 | \$6,572 | \$6,611 | \$6,624 | \$6,610 |
| PE | \$5,820 | \$6,589 | \$7,423 | \$8,046 | \$8,700 | \$9,290 | \$9,821 | \$10,221 | \$10,484 | \$10,656 | \$10,751 |
| Total Net Asset Value | \$13,068 | \$16,218 | \$19,183 | \$22,012 | \$24,325 | \$25,998 | \$27,217 | \$28,095 | \$28,765 | \$29,229 | \$29,680 |
| | | | | Un | funded Comn | nitments | | | | | |
| INR | \$1,532 | \$1,402 | \$1,160 | \$1,017 | \$855 | \$823 | \$823 | \$817 | \$808 | \$803 | \$802 |
| RE | \$1,720 | \$2,004 | \$2,059 | \$1,876 | \$1,385 | \$1,162 | \$1,128 | \$1,145 | \$1,186 | \$1,259 | \$1,380 |
| PC | \$2,524 | \$3,129 | \$3,204 | \$2,819 | \$2,474 | \$2,334 | \$2,270 | \$2,248 | \$2,240 | \$2,238 | \$2,236 |
| PE | \$3,793 | \$4,361 | \$4,451 | \$4,700 | \$4,670 | \$4,550 | \$4,480 | \$4,428 | \$4,401 | \$4,377 | \$4,369 |
| Total Unfunded | \$9,568 | \$10,896 | \$10,874 | \$10,413 | \$9,384 | \$8,869 | \$8,701 | \$8,638 | \$8,636 | \$8,677 | \$8,788 |

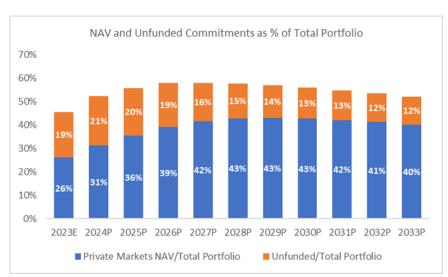
Targeted commitments and pacing plan outputs shown based on 4% CRPTF net growth rate.

Projected Capital Calls and Distributions

Projections Based on 4% Net Growth Rate Assumptions

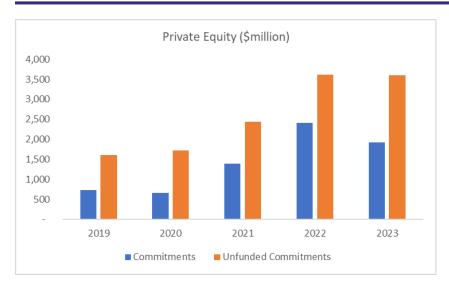
| Capital Calls and Distributions | | | | | | | | | | | |
|---------------------------------|-----------|-----------|-----------|---------|---------|---------|---------|---------|---------|---------|---------|
| (\$Millions) | 2023E | 2024P | 2025P | 2026P | 2027P | 2028P | 2029P | 2030P | 2031P | 2032P | 2033P |
| Projected Capital Calls | \$3,224 | \$4,528 | \$4,896 | \$4,937 | \$4,756 | \$4,389 | \$4,177 | \$4,063 | \$3,998 | \$3,980 | \$4,003 |
| Projected Distributions | \$1,699 | \$2,907 | \$3,675 | \$4,210 | \$4,863 | \$5,217 | \$5,676 | \$6,027 | \$6,265 | \$6,517 | \$6,563 |
| Total Net Cash Flow | (\$1,525) | (\$1,621) | (\$1,221) | (\$727) | \$107 | \$827 | \$1,499 | \$1,964 | \$2,267 | \$2,537 | \$2,560 |

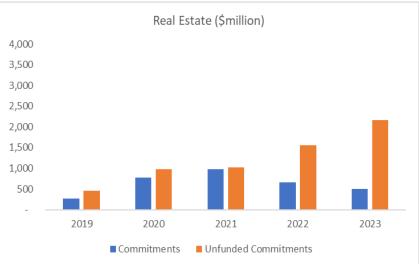


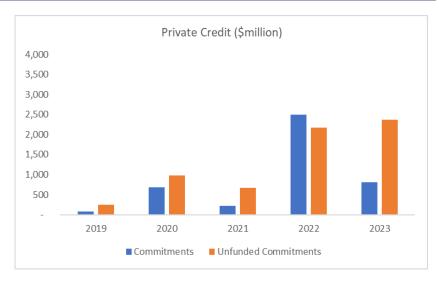


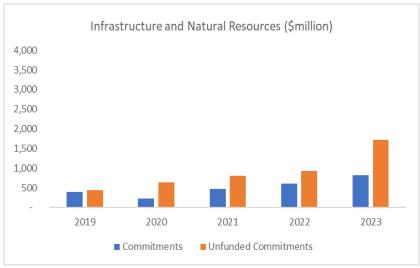
| | Asset Allocation Level | | | | | | | | | | |
|-----------------------|------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Net CRPTF Growth Rate | 2023E | 2024P | 2025P | 2026P | 2027P | 2028P | 2029P | 2030P | 2031P | 2032P | 2033P |
| 3% | 26.2% | 31.6% | 36.2% | 40.3% | 43.1% | 44.6% | 45.0% | 45.0% | 44.7% | 44.1% | 43.5% |
| 4% | 26.2% | 31.3% | 35.5% | 39.2% | 41.7% | 42.9% | 43.1% | 42.8% | 42.1% | 41.3% | 40.2% |
| 5% | 26.1% | 31.0% | 35.1% | 38.5% | 40.7% | 41.7% | 41.8% | 41.3% | 40.5% | 39.4% | 38.3% |

Commitments and Unfunded Commitments









Commitments represent commitment activities during the year.
Unfunded commitments represent unfunded commitments as of year-end.



Infrastructure/Natural Resources

2024 Infrastructure and Natural Resources Pacing Plan

- Developed to achieve INR's strategic asset allocation target of 7% by year-end 2027.
 - Includes sub-strategy risk target goals for Core Infrastructure 30-50%, Non-Core Infrastructure 35-55% and Natural Resources 10%-20%.
- 2023 investments include \$200m of investment recommended to IAC in November and expected to close in January.
- Targeted 2024 focus on core infrastructure investments, given the significant non-core commitments in 2022 and 2023 with unfunded commitments expected to be invested over the next few years.
- Investments will continue to be through highly selective additions of new managers and the potential expansion of existing manager mandates.

| | | Inf | rastructure | /Natural Re | esources Pa | cing Plan S | ummary | | | | |
|-----------------------------|---------|----------|-------------|-------------|-------------|-------------|--------------|---------|---------|---------|---------|
| (\$Millions) | 2023E | 2024P | 2025P | 2026P | 2027P | 2028P | 2029P | 2030P | 2031P | 2032P | 2033P |
| Commitments | | | | | | | | | | | |
| Non-Core Infrastructure | \$700 | \$100 | \$100 | \$250 | \$300 | \$300 | \$300 | \$300 | \$300 | \$300 | \$300 |
| Core Infrastructure | \$0 | \$400 | \$300 | \$200 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| Natural Resources | \$125 | \$150 | \$150 | \$100 | \$100 | \$100 | \$100 | \$100 | \$100 | \$100 | \$100 |
| Total Commitments | \$825 | \$650 | \$550 | \$550 | \$400 | \$400 | \$400 | \$400 | \$400 | \$400 | \$400 |
| Capital Calls | \$498 | \$785 | \$814 | \$703 | \$542 | \$437 | \$402 | \$411 | \$418 | \$415 | \$412 |
| Distributions | \$83 | \$177 | \$239 | \$330 | \$582 | \$611 | \$713 | \$680 | \$647 | \$695 | \$612 |
| Net Cash Flow | (\$415) | (\$608) | (\$575) | (\$373) | \$40 | \$174 | \$311 | \$269 | \$229 | \$280 | \$200 |
| Net Asset Value | \$1,372 | \$2,148 | \$2,977 | \$3,689 | \$4,049 | \$4,288 | \$4,399 | \$4,538 | \$4,742 | \$4,894 | \$5,139 |
| Unfunded Commitments | \$1,532 | \$1,402 | \$1,160 | \$1,017 | \$855 | \$823 | \$823 | \$817 | \$808 | \$803 | \$802 |
| | | Infrastr | ucture/Nati | ural Resour | ces Project | ed Asset Al | location Lev | vel 💮 | | | |
| Net CRPTF Growth Rate | | | | | | | | | | | |
| 3% | 2.7% | 4.2% | 5.6% | 6.8% | 7.2% | 7.4% | 7.3% | 7.3% | 7.4% | 7.4% | 7.5% |
| 4% | 2.7% | 4.1% | 5.5% | 6.5% | 6.9% | 7.0% | 6.9% | 6.9% | 6.9% | 6.9% | 6.9% |
| 5% | 2.7% | 4.1% | 5.5% | 6.5% | 6.9% | 7.0% | 6.9% | 6.9% | 6.9% | 6.9% | 6.9% |

Real Estate

2024 Real Estate Pacing Plan

- Developed to achieve Real Estate's strategic asset allocation target of 10% by year-end 2027.
 - Includes sub-strategy risk target goals of Core 30-50% and Non-core: 50-70%.
- 2023 investments include \$125m investment presented to IAC in November and expected to close in January.
- Targeted 2024 focus continues to be non-core investments given the below target allocation through highly selective additions of new managers and the potential expansion of existing manager mandates.
- Pacing targets assume core, open-end fund redemptions of approximately \$180-280m per year, over the next three years.

| | | | Rea | al Estate Pa | acing Plan S | Summary | | | | | |
|-----------------------------|---------|---------|-----------|--------------|--------------|-------------|---------|---------|---------|---------|---------|
| (\$Millions) | 2023E | 2024P | 2025P | 2026P | 2027P | 2028P | 2029P | 2030P | 2031P | 2032P | 2033P |
| Commitments | | | | | | | | | | | |
| Non-Core | \$500 | \$950 | \$950 | \$770 | \$350 | \$500 | \$580 | \$580 | \$580 | \$640 | \$740 |
| Core | \$0 | \$150 | \$180 | \$200 | \$200 | \$100 | \$100 | \$100 | \$100 | \$100 | \$60 |
| Total Commitments | \$500 | \$1,100 | \$1,130 | \$970 | \$550 | \$600 | \$680 | \$680 | \$680 | \$740 | \$800 |
| Capital Calls | \$818 | \$817 | \$978 | \$1,058 | \$964 | \$827 | \$741 | \$684 | \$650 | \$652 | \$688 |
| Distributions | \$549 | \$618 | \$784 | \$830 | \$804 | \$762 | \$843 | \$912 | \$963 | \$1,028 | \$1,064 |
| Net Cash Flow | (\$269) | (\$199) | (\$194) | (\$228) | (\$160) | (\$65) | \$102 | \$228 | \$313 | \$376 | \$376 |
| Net Asset Value | \$3,591 | \$4,050 | \$4,571 | \$5,175 | \$5,773 | \$6,194 | \$6,524 | \$6,764 | \$6,928 | \$7,054 | \$7,180 |
| Unfunded Commitments | \$1,720 | \$2,004 | \$2,059 | \$1,876 | \$1,385 | \$1,162 | \$1,128 | \$1,145 | \$1,186 | \$1,259 | \$1,380 |
| | | | Real Esta | ate Project | ed Asset A | llocation L | evel | | | | |
| Net CRPTF Growth Rate | | | | | • | | • | | • | | |
| 3% | 7.2% | 7.8% | 8.5% | 9.3% | 9.9% | 10.2% | 10.2% | 10.1% | 10.1% | 10.0% | 10.0% |
| 4% | 7.2% | 7.8% | 8.4% | 9.2% | 9.8% | 10.2% | 10.3% | 10.2% | 10.1% | 9.9% | 9.7% |
| 5% | 7.1% | 7.7% | 8.4% | 9.1% | 9.8% | 10.3% | 10.5% | 10.4% | 10.3% | 10.1% | 9.9% |

Private Credit

2024 Private Credit Pacing Plan

- Developed to achieve Private Credit's strategic asset allocation target of 10%.
 - Includes sub-strategy targeted allocations in alignment with IPS exposure ranges established for Senior (30% to 70%), Mezzanine (0% to 30%), Special Situations (0% to 20%), and Distressed (0% to 20%).
- Targeted 2024 commitments of \$2 billion <u>include</u> \$0.6 billion of pending commitments to ICG that were approved by Treasurer Russell in 2023 but will close in 2024.
- 2024 strategic initiatives include continued build out of Special Situations and Senior exposure, primarily through highly selective additions of new managers and the potential expansion of existing manager mandates.

| | | | Priv | vate Credit | Pacing Plar | Summary | | | | | |
|-----------------------------|---------|---------|-----------|--------------|-------------|------------|---------|---------|---------|---------|---------|
| (\$Millions) | 2023E | 2024P | 2025P | 2026P | 2027P | 2028P | 2029P | 2030P | 2031P | 2032P | 2033P |
| Commitments | | | | | | | | | | | |
| Primary Strategies | \$810 | \$2,000 | \$1,400 | \$1,000 | \$1,000 | \$1,000 | \$1,000 | \$1,000 | \$1,000 | \$1,000 | \$1,000 |
| Co-Investment | | | \$100 | \$150 | \$150 | \$200 | \$200 | \$200 | \$200 | \$200 | \$200 |
| Total Commitments | \$810 | \$2,000 | \$1,500 | \$1,150 | \$1,150 | \$1,200 | \$1,200 | \$1,200 | \$1,200 | \$1,200 | \$1,200 |
| Capital Calls | \$858 | \$1,394 | \$1,425 | \$1,535 | \$1,471 | \$1,339 | \$1,264 | \$1,221 | \$1,204 | \$1,199 | \$1,198 |
| Distributions | \$207 | \$628 | \$990 | \$1,107 | \$1,334 | \$1,544 | \$1,694 | \$1,818 | \$1,857 | \$1,873 | \$1,865 |
| Net Cash Flow | (\$651) | (\$766) | (\$436) | (\$428) | (\$138) | \$204 | \$430 | \$597 | \$652 | \$674 | \$668 |
| Net Asset Value | \$2,286 | \$3,431 | \$4,212 | \$5,102 | \$5,803 | \$6,226 | \$6,473 | \$6,572 | \$6,611 | \$6,624 | \$6,610 |
| Unfunded Comittments | \$2,524 | \$3,129 | \$3,204 | \$2,819 | \$2,474 | \$2,334 | \$2,270 | \$2,248 | \$2,240 | \$2,238 | \$2,236 |
| | | | Private (| Credit Proje | ected Asset | Allocation | Level | | | | |
| Net CRPTF Growth Rate | | | | | | | | | | | |
| 3% | 4.6% | 6.7% | 8.0% | 9.4% | 10.4% | 10.8% | 10.9% | 10.8% | 10.5% | 10.2% | 9.9% |
| 4% | 4.6% | 6.6% | 7.8% | 9.1% | 10.0% | 10.3% | 10.3% | 10.1% | 9.7% | 9.4% | 9.0% |
| 5% | 4.6% | 6.6% | 7.7% | 8.9% | 9.6% | 9.8% | 9.7% | 9.4% | 9.0% | 8.6% | 8.2% |

Private Equity

2024 Private Equity Pacing Plan

- Developed to achieve Private Equity strategic asset allocation target of 15%.
 - Pacing plan includes sub-strategy targeted allocations in alignment with IPS exposure ranges established for Corporate Finance (70% to 100%) and Venture Capital (0% to 30%).
- 2024 strategic initiatives include:
 - Continued top-grading of existing manager roster, with a focus on building out additional Small/Mid-Market and Growth Equity exposure, and,
 - Developing a customized solution to decrease the portfolio line items and administrative needs while simultaneously creating the opportunity to capture attractive secondary opportunities, including GP-led, continuation vehicle investments.

| | | | Priv | ate Equity | Pacing Plan | Summary | | | | | |
|-----------------------------|---------|---------|-----------|-------------|-------------|--------------|---------|----------|----------|----------|----------|
| (\$Millions) | 2023E | 2024P | 2025P | 2026P | 2027P | 2028P | 2029P | 2030P | 2031P | 2032P | 2033P |
| Commitments | | | | | | | | | | | |
| Primary Strategies | \$1,925 | \$1,700 | \$1,600 | \$1,600 | \$1,600 | \$1,500 | \$1,500 | \$1,500 | \$1,500 | \$1,500 | \$1,500 |
| Co-Investment | | | | \$200 | \$200 | \$200 | \$200 | \$200 | \$200 | \$200 | \$200 |
| Total Commitments | \$1,925 | \$1,700 | \$1,600 | \$1,800 | \$1,800 | \$1,700 | \$1,700 | \$1,700 | \$1,700 | \$1,700 | \$1,700 |
| Capital Calls | \$1,050 | \$1,532 | \$1,678 | \$1,641 | \$1,778 | \$1,786 | \$1,770 | \$1,747 | \$1,726 | \$1,714 | \$1,705 |
| Distributions | \$860 | \$1,484 | \$1,662 | \$1,943 | \$2,143 | \$2,300 | \$2,426 | \$2,617 | \$2,799 | \$2,921 | \$3,022 |
| Net Cash Flow | (\$190) | (\$48) | (\$16) | \$301 | \$364 | \$514 | \$656 | \$870 | \$1,073 | \$1,207 | \$1,317 |
| Net Asset Value | \$5,820 | \$6,589 | \$7,423 | \$8,046 | \$8,700 | \$9,290 | \$9,821 | \$10,221 | \$10,484 | \$10,656 | \$10,751 |
| Unfunded Comittments | \$3,793 | \$4,361 | \$4,451 | \$4,700 | \$4,670 | \$4,550 | \$4,480 | \$4,428 | \$4,401 | \$4,377 | \$4,369 |
| | | | Private E | quity Proje | cted Asset | Allocation I | Level | | | | |
| Net CRPTF Growth Rate | | | | | | | | | | | |
| 3% | 11.7% | 12.9% | 14.1% | 14.8% | 15.6% | 16.2% | 16.6% | 16.8% | 16.7% | 16.5% | 16.1% |
| 4% | 11.7% | 12.8% | 13.8% | 14.4% | 15.0% | 15.4% | 15.6% | 15.6% | 15.4% | 15.1% | 14.6% |
| 5% | 11.7% | 12.6% | 13.5% | 14.0% | 14.4% | 14.6% | 14.7% | 14.6% | 14.3% | 13.8% | 13.3% |

Appendix - Pacing Plan Model Summary

- The CRPTF private markets pacing plans are developed utilizing models that incorporate numerous inputs, including:
 - Strategic asset allocation targets and ranges
 - The current overall value of the CRPTF and a range of projected, annual net growth rates for the CRPTF total value
 - The annual net growth rate assumptions are intended to capture the estimated net impact of contributions, distributions, and investment returns
 - Existing portfolio composition
 - Historical cash flow profiles for each asset/sub-asset class
 - Projected capital calls, distributions, and net asset values ("NAV") for each asset/subasset class





Connecticut Retirement Plans and Trust Funds

Pacing Plan - Private Credit Fund Portfolio

December 2023

Private Credit Fund Commitment Pacing

The Horizon Model is a Hamilton Lane proprietary tool that uses existing portfolio information coupled with future allocation targets to create a quantitative future investment plan

- Model uses a formulaic approach to project value and future cash flows
- The pacing model takes into account Connecticut's historical Private Credit Fund commitments
- The table below summarizes the input assumptions used to forecast cash flows and market values

| Horizon Model Pacing Assumptions | | | | | | | | | |
|---|------------------|--|--|--|--|--|--|--|--|
| Connecticut Total Plan Assets ¹ | \$49.3 billion | | | | | | | | |
| Net Plan Growth Rate | 3.0%; 4.0%; 5.0% | | | | | | | | |
| Private Credit Fund as % of Plan ² | 3.9% | | | | | | | | |
| Target Allocation to Private Credit Fund | 10.0% | | | | | | | | |
| Private Credit Fund Boundary | 5.0% - 15.0% | | | | | | | | |

See endnotes in the Appendix

² Uses 6/30/2023 CRPTF PC NAV and CRPTF Total Plan Assets as of 10/31/2023

Private Credit Fund Pacing Scenarios

CY 2024 Pacing - \$2.0B1



| CRPTF PCF Horizon Model - \$2,000M CY 2024 | | | | | | | | | | | |
|--|--------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| (\$ in millions) | CY 23 ² | CY 24 | CY 25 | CY 26 | CY 27 | CY 28 | CY 29 | CY 30 | CY 31 | CY 32 | CY 33 |
| Commitments | | | | | | | | | | | |
| Fund Commitments | \$5,075.3 | \$2,000.0 | \$1,400.0 | \$1,000.0 | \$1,000.0 | \$1,000.0 | \$1,000.0 | \$1,000.0 | \$1,000.0 | \$1,000.0 | \$1,000.0 |
| Direct Co-Investment Program* | - | - | \$100.0 | \$150.0 | \$150.0 | \$200.0 | \$200.0 | \$200.0 | \$200.0 | \$200.0 | \$200.0 |
| Period Cash Flow | | | | | | | | | | | |
| Paid-in Capital | \$857.6 | \$1,394.2 | \$1,425.4 | \$1,534.6 | \$1,471.4 | \$1,339.3 | \$1,264.3 | \$1,221.2 | \$1,204.1 | \$1,199.3 | \$1,197.8 |
| Distributions | \$207.1 | \$627.9 | \$989.9 | \$1,106.9 | \$1,333.9 | \$1,543.6 | \$1,693.9 | \$1,818.4 | \$1,856.5 | \$1,872.8 | \$1,865.3 |
| Net Cash Flow | (\$650.5) | (\$766.3) | (\$435.5) | (\$427.7) | (\$137.5) | \$204.3 | \$429.6 | \$597.2 | \$652.4 | \$673.6 | \$667.5 |
| Unfunded | \$2,523.7 | \$3,129.4 | \$3,129.6 | \$2,845.2 | \$2,514.5 | \$2,339.0 | \$2,269.9 | \$2,248.6 | \$2,242.1 | \$2,238.7 | \$2,236.3 |

CY 2024 commitments are elevated as a result of under allocation in CY 2023 versus target, coupled with the goal of achieving interim PCF targets set by CRPTF, as well as a 10% allocation to PCF by CY 2027

¹ CY 23 projected total CRPTF plan value (denominator) applies two-twelfths of the annual growth rates (3%, 4%, 5%) to the 10/31/2023 value as provided by CRPTF to achieve projected 12/31/2023 value.

² Commitment amount in CY 23 column represents total since inception through year-end 2023 (expected), CY 23 cash flows represent 1H 2023 real cash flows plus 2H 2023 projected cash flows.

^{*}Assumes \$320M deployed over 2024 out of the existing commitment (HarbourVest)

Private Credit Fund Horizon Model Scenarios

Private Credit Fund Horizon Model Output

| CRPTF PCF Horizon Model - Runoff | | | | | | | | | | | |
|----------------------------------|--------------------|-------------|-------------|-------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| (\$ in millions) | CY 23 ¹ | CY 24 | CY 25 | CY 26 | CY 27 | CY 28 | CY 29 | CY30 | CY 31 | CY 32 | CY 33 |
| Commitments | | | | | | | | | | | |
| Fund Commitments | \$5,075.3 | - | - | - | - | - | - | - | - | - | - |
| Direct Co-Investment Program* | - | - | - | - | - | - | - | - | - | - | - |
| Period Cash Flow | | | | | | | | | | | |
| Paid-in Capital | \$857.6 | \$1,150.1 | \$689.9 | \$383.2 | \$164.5 | \$63.2 | \$23.1 | \$9.0 | \$5.1 | \$3.2 | \$1.9 |
| Distributions | \$207.1 | \$622.0 | \$924.1 | \$912.6 | \$867.6 | \$769.7 | \$573.9 | \$463.4 | \$364.3 | \$288.8 | \$211.1 |
| Net Cash Flow | (\$650.5) | (\$528.2) | \$234.2 | \$529.4 | \$703.1 | \$706.5 | \$550.7 | \$454.4 | \$359.2 | \$285.5 | \$209.1 |
| Cumulative Cash Flow | | | | | | | | | | | |
| Paid-in Capital | \$2,026.5 | \$3,176.6 | \$3,866.5 | \$4,249.8 | \$4,414.3 | \$4,477.4 | \$4,500.6 | \$4,509.6 | \$4,514.7 | \$4,517.9 | \$4,519.8 |
| Distributions | \$531.8 | \$1,153.8 | \$2,077.9 | \$2,990.5 | \$3,858.1 | \$4,627.7 | \$5,201.6 | \$5,665.0 | \$6,029.3 | \$6,318.0 | \$6,529.1 |
| Net Cash Flow | (\$1,494.7) | (\$2,022.9) | (\$1,788.7) | (\$1,259.3) | (\$556.2) | \$150.3 | \$701.0 | \$1,155.4 | \$1,514.6 | \$1,800.2 | \$2,009.3 |
| PCF Portfolio | | | | | | | | | | | |
| PCF Market Value | \$2,285.7 | \$3,192.2 | \$3,273.7 | \$3,090.8 | \$2,724.7 | \$2,317.2 | \$2,030.2 | \$1,796.2 | \$1,639.0 | \$1,556.8 | \$1,518.1 |
| Unfunded | \$2,523.7 | \$1,373.5 | \$683.6 | \$300.4 | \$111.4 | \$48.2 | \$25.1 | \$16.1 | \$9.6 | \$6.3 | \$3.7 |
| 3.00% Plan Growth | 4.6% | 6.3% | 6.2% | 5.7% | 4.9% | 4.0% | 3.4% | 2.9% | 2.6% | 2.4% | 2.3% |
| 4.00% Plan Growth | 4.6% | 6.2% | 6.1% | 5.5% | 4.7% | 3.8% | 3.2% | 2.7% | 2.4% | 2.2% | 2.1% |
| 5.00% Plan Growth | 4.6% | 6.1% | 6.0% | 5.4% | 4.5% | 3.6% | 3.0% | 2.6% | 2.2% | 2.0% | 1.9% |

| CRPTF PCF Horizon Model - \$2,000M CY 2024 | | | | | | | | | | | |
|--|--------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|------------|------------|
| (\$ in millions) | CY 23 ¹ | CY 24 | CY 25 | CY 26 | CY 27 | CY 28 | CY 29 | CY 30 | CY 31 | CY 32 | CY 33 |
| Commitments | | | | | | | | | | | |
| Fund Commitments | \$5,075.3 | \$2,000.0 | \$1,400.0 | \$1,000.0 | \$1,000.0 | \$1,000.0 | \$1,000.0 | \$1,000.0 | \$1,000.0 | \$1,000.0 | \$1,000.0 |
| Direct Co-Investment Program* | - | - | \$100.0 | \$150.0 | \$150.0 | \$200.0 | \$200.0 | \$200.0 | \$200.0 | \$200.0 | \$200.0 |
| Period Cash Flow | | | | | | | | | | | |
| Paid-in Capital | \$857.6 | \$1,394.2 | \$1,425.4 | \$1,534.6 | \$1,471.4 | \$1,339.3 | \$1,264.3 | \$1,221.2 | \$1,204.1 | \$1,199.3 | \$1,197.8 |
| Distributions | \$207.1 | \$627.9 | \$989.9 | \$1,106.9 | \$1,333.9 | \$1,543.6 | \$1,693.9 | \$1,818.4 | \$1,856.5 | \$1,872.8 | \$1,865.3 |
| Net Cash Flow | (\$650.5) | (\$766.3) | (\$435.5) | (\$427.7) | (\$137.5) | \$204.3 | \$429.6 | \$597.2 | \$652.4 | \$673.6 | \$667.5 |
| Cumulative Cash Flow | | | | | | | | | | | |
| Paid-in Capital | \$2,026.5 | \$3,420.7 | \$4,846.1 | \$6,380.7 | \$7,852.1 | \$9,191.5 | \$10,455.8 | \$11,677.0 | \$12,881.1 | \$14,080.4 | \$15,278.2 |
| Distributions | \$531.8 | \$1,159.7 | \$2,149.6 | \$3,256.5 | \$4,590.4 | \$6,134.0 | \$7,827.9 | \$9,646.3 | \$11,502.8 | \$13,375.6 | \$15,240.9 |
| Net Cash Flow | (\$1,494.7) | (\$2,261.0) | (\$2,696.5) | (\$3,124.3) | (\$3,261.7) | (\$3,057.5) | (\$2,627.9) | (\$2,030.7) | (\$1,378.3) | (\$704.8) | (\$37.3) |
| PCF Portfolio | | | | | | | | | | | |
| PCF Market Value | \$2,285.7 | \$3,430.5 | \$4,212.0 | \$5,101.8 | \$5,803.2 | \$6,225.8 | \$6,473.3 | \$6,572.3 | \$6,610.8 | \$6,624.4 | \$6,610.2 |
| Unfunded | \$2,523.7 | \$3,129.4 | \$3,204.1 | \$2,819.4 | \$2,473.5 | \$2,334.2 | \$2,269.9 | \$2,248.1 | \$2,240.4 | \$2,238.0 | \$2,236.3 |
| 3.00% Plan Growth | 4.6% | 6.7% | 8.0% | 9.4% | 10.4% | 10.8% | 10.9% | 10.8% | 10.5% | 10.2% | 9.9% |
| 4.00% Plan Growth | 4.6% | 6.6% | 7.8% | 9.1% | 10.0% | 10.3% | 10.3% | 10.1% | 9.7% | 9.4% | 9.0% |
| 5.00% Plan Growth | 4.6% | 6.6% | 7.7% | 8.9% | 9.6% | 9.8% | 9.7% | 9.4% | 9.0% | 8.6% | 8.2% |

¹ Commitment amount in CY 23 column represents total since inception through year-end 2023 (expected). CY 23 cash flows represent 1H 2023 real cash flows plus 2H 2023 projected cash flows. CY 23 projected total CRPTF plan value (denominator) applies two-twelfths of the annual growth rates (3%, 4%, 5%) to the 10/31/2023 value as provided by CRPTF to achieve projected 12/31/2023 values

¹ HarbourVest commitments included in the CY 23 Fund Commitments total

^{*}Assumes \$320M deployed over 2024, out of the existing commitment (HarbourVest)

Building the Portfolio

- Co-Investments are expected to be accessed through existing customized CRPTF programs
 - The respective 'Pacing Target' ranges are intended to capture the expected deployment from the existing programs during CY 2024
 - The 'Pacing Target' ranges are not a recommendation for additional incremental commitments in CY 2024
 - Recently approved, but pending close, commitments to ICG funds will be allocated from the CY 2024 pacing targets

| Long-Term Portfolio Targets - By Structure | | | | | | | | | | |
|--|--------------------------------------|--|--|-----------------------|----------------------------------|---------------------|--|--|--|--|
| Strategy | Current NAV Exposure ¹ | Current Total Exposure ^{1,2} | Long-Term Portfolio Target ^{2,3} | Target Commitments | Target Commitment Sizes (\$M) | Pacing Target (\$M) | | | | |
| Primaries | 86% | 82% | 80-90% | 6-10 | \$200-\$350 | \$1,900-\$2,100 | | | | |
| Co-Investments ⁶ | 14% | 18% | 10-20% | 0-1 | \$0-\$320 | \$0-\$320 | | | | |

| Long-Term Portfolio Targets - By Strategy | | | | | | | | | | |
|---|--------------------------------------|--|--|-----------------------|----------------------------------|---------------------|--|--|--|--|
| Strategy ⁴ | Current NAV Exposure ¹ | Current Total Exposure ^{1,2} | Long-Term Portfolio Target ^{2,3} | Target Commitments | Target Commitment Sizes (\$M) | Pacing Target (\$M) | | | | |
| Senior⁴ | 66% | 70% | 50-60% | 5-7 | \$150-\$225 | \$1,000-\$1,200 | | | | |
| Mezzanine | 6% | 9% | 10-20% | 1-2 | \$200-\$300 | \$200-\$400 | | | | |
| Special Situations | 22% | 17% | 20-30% | 1-3 | \$150-\$400 | \$400-\$600 | | | | |
| Distressed | 6% | 4% | 10-20% | 1-2 | \$200-\$300 | \$200-\$400 | | | | |

| Long-Term Portfolio Targets - By Geography | | | | | | | | | | |
|--|-------------------------------|--|-----------------------|----------------------------------|---------------------|--|--|--|--|--|
| Geography | Current Exposure ⁵ | Long-Term Portfolio Target ⁵ | Target Commitments | Target Commitment Sizes (\$M) | Pacing Target (\$M) | | | | | |
| North America | 81% | 60-70% | 4-8 | \$150-\$300 | \$1,200-\$1,400 | | | | | |
| Western Europe | 10% | 20-30% | 1-3 | \$100-\$275 | \$400-\$600 | | | | | |
| Rest of World | 9% | 0-10% | 0-2 | \$0-\$100 | \$0-\$200 | | | | | |

Footnotes located on Endnotes & Disclosures page

Endnotes & Disclosures

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 1 As of 6/30/2023. Totals may not sum to 100% due to rounding.

²Total Exposure is equal to Remaining Net Asset Value plus Unfunded Commitment. Total exposure does not account for planned transfer of legacy ICG commitments from PIF to PCF.

³Long-Term Portfolio Target measured by Total Exposure.

⁴Senior exposure includes HarbourVest CT Vehicle, previously grouped under Co-Investments

⁵Current Exposure and Long-Term Portfolio Target by Geography refer to NAV exposure at the underlying company-level (CRPTF's share of a portfolio company's remaining NAV).

⁶Co-Investment exposure to be largely accessed through a vehicle/SMA structure



Connecticut Retirement Plans and Trust Funds

Pacing Plan – Private Investment Fund Portfolio

December 2023

Private Investment Fund Commitment Pacing

The Horizon Model is a Hamilton Lane proprietary tool that uses existing portfolio information coupled with future allocation targets to create a quantitative future investment plan

- Model uses a formulaic approach to project value and future cash flows
- The pacing model takes into account Connecticut's historical Private Investment Fund commitments
- The table below summarizes the input assumptions used to forecast cash flows and market values

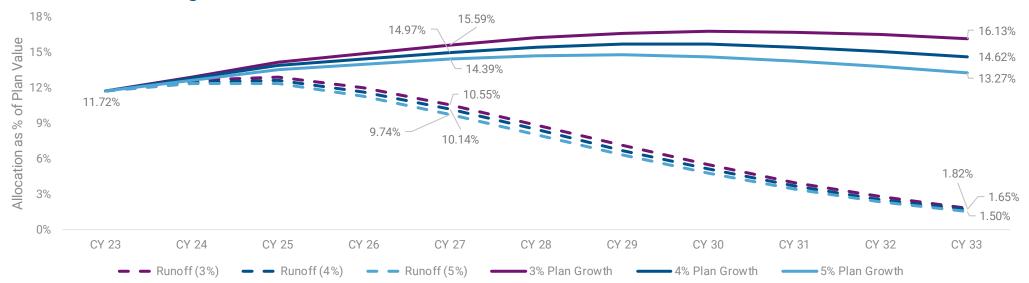
| Horizon Model Pacing Assumptions | | | | | | | | |
|---|------------------|--|--|--|--|--|--|--|
| Connecticut Total Plan Assets ¹ | \$49.3 billion | | | | | | | |
| Net Plan Growth Rate | 3.0%; 4.0%; 5.0% | | | | | | | |
| Private Investment Fund as % of Plan ² | 11.0% | | | | | | | |
| Target Allocation to Private Investment Fund | 15.0% | | | | | | | |
| Private Investment Fund Boundary | 10.0% - 20.0% | | | | | | | |

See endnotes in the Appendix

 $^{^2}$ Uses 6/30/2023 CRPTF PE NAV and CRPTF Total Plan Assets as of 10/31/2023. Does not include historical ICG commitments which are to be moved to PCF

Private Investment Fund Pacing Scenarios

CY 2024 Pacing - \$1.7b1



| CRPTF PIF Horizon Model - \$1,700M CY 2024 | | | | | | | | | | | |
|--|--------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| (\$ in millions) | CY 23 ² | CY 24 | CY 25 | CY 26 | CY 27 | CY 28 | CY 29 | CY 30 | CY 31 | CY 32 | CY 33 |
| Commitments | | | | | | | | | | | |
| Fund Commitments | \$21,212.3 | \$1,700.0 | \$1,600.0 | \$1,600.0 | \$1,600.0 | \$1,500.0 | \$1,500.0 | \$1,500.0 | \$1,500.0 | \$1,500.0 | \$1,500.0 |
| Direct Co-Investment Program* | - | - | - | \$200.0 | \$200.0 | \$200.0 | \$200.0 | \$200.0 | \$200.0 | \$200.0 | \$200.0 |
| Period Cash Flow | | | | | | | | | | | |
| Paid-in Capital | \$1,050.1 | \$1,531.8 | \$1,678.3 | \$1,641.2 | \$1,778.3 | \$1,786.0 | \$1,770.1 | \$1,746.8 | \$1,726.2 | \$1,713.5 | \$1,705.2 |
| Distributions | \$859.9 | \$1,483.9 | \$1,662.2 | \$1,942.6 | \$2,142.7 | \$2,299.9 | \$2,426.2 | \$2,617.0 | \$2,798.7 | \$2,920.9 | \$3,021.8 |
| Net Cash Flow | (\$190.1) | (\$47.9) | (\$16.1) | \$301.4 | \$364.4 | \$513.8 | \$656.1 | \$870.1 | \$1,072.5 | \$1,207.5 | \$1,316.6 |
| Unfunded | \$3,792.6 | \$4,360.8 | \$4,451.3 | \$4,700.2 | \$4,670.3 | \$4,550.1 | \$4,479.7 | \$4,427.5 | \$4,401.2 | \$4,377.3 | \$4,369.3 |

¹ CY 23 projected total CRPTF plan value (denominator) applies two-twelfths of the annual growth rates (3%, 4%, 5%) to the 10/31/2023 value as provided by CRPTF to achieve projected 12/31/2023 value.

² Commitment amount in CY 23 column represents total since inception through year-end 2023 (expected), CY 23 cash flows represent 1H 2023 real cash flows plus 2H 2023 projected cash flows.

^{*}Assumes \$300M deployed in 2024 and remaining \$70M deployed in 2025 for a total of 750M since inception (HarbourVest).

Private Investment Fund Horizon Model Scenarios

Private Investment Fund Horizon Model Output

| CRPTF PIF Horizon Model - Runoff | | | | | | | | | | | |
|----------------------------------|--------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| (\$ in millions) | CY 23 ¹ | CY 24 | CY 25 | CY 26 | CY 27 | CY 28 | CY 29 | CY 30 | CY 31 | CY 32 | CY 33 |
| Commitments | | | | | | | | | | | |
| Fund Commitments | \$21,212.3 | - | - | - | - | - | - | - | - | - | - |
| Direct Co-Investment Program* | - | - | - | - | - | - | - | - | - | - | - |
| Period Cash Flow | | | | | | | | | | | |
| Paid-in Capital | \$1,050.1 | \$1,354.7 | \$1,136.8 | \$704.5 | \$454.8 | \$270.0 | \$155.1 | \$90.7 | \$56.4 | \$35.4 | \$21.2 |
| Distributions | \$859.9 | \$1,480.5 | \$1,631.0 | \$1,849.1 | \$1,906.6 | \$1,818.7 | \$1,647.1 | \$1,469.7 | \$1,269.7 | \$1,028.9 | \$789.7 |
| Net Cash Flow | (\$190.1) | \$125.8 | \$494.2 | \$1,144.6 | \$1,451.8 | \$1,548.6 | \$1,492.0 | \$1,379.0 | \$1,213.4 | \$993.5 | \$768.5 |
| Cumulative Cash Flow | | | | | | | | | | | |
| Paid-in Capital | \$12,280.9 | \$13,635.6 | \$14,772.5 | \$15,477.0 | \$15,931.8 | \$16,201.8 | \$16,356.9 | \$16,447.6 | \$16,504.0 | \$16,539.3 | \$16,560.6 |
| Distributions | \$13,477.9 | \$14,958.5 | \$16,589.5 | \$18,438.6 | \$20,345.2 | \$22,163.8 | \$23,811.0 | \$25,280.7 | \$26,550.4 | \$27,579.3 | \$28,369.0 |
| Net Cash Flow | \$1,197.0 | \$1,322.8 | \$1,817.0 | \$2,961.6 | \$4,413.4 | \$5,962.0 | \$7,454.1 | \$8,833.1 | \$10,046.4 | \$11,039.9 | \$11,808.4 |
| PIF Portfolio | | | | | | | | | | | |
| PIF Market Value | \$5,819.7 | \$6,418.8 | \$6,754.6 | \$6,495.7 | \$5,889.2 | \$5,080.4 | \$4,203.7 | \$3,322.9 | \$2,494.8 | \$1,784.4 | \$1,214.0 |
| Unfunded | \$3,792.6 | \$2,837.9 | \$1,869.8 | \$1,255.4 | \$749.0 | \$444.9 | \$289.5 | \$193.3 | \$137.0 | \$91.1 | \$67.1 |
| 3.00% Plan Growth | 11.7% | 12.6% | 12.8% | 12.0% | 10.6% | 8.8% | 7.1% | 5.4% | 4.0% | 2.8% | 1.8% |
| 4.00% Plan Growth | 11.7% | 12.4% | 12.6% | 11.6% | 10.1% | 8.4% | 6.7% | 5.1% | 3.7% | 2.5% | 1.7% |
| 5.00% Plan Growth | 11.7% | 12.3% | 12.3% | 11.3% | 9.7% | 8.0% | 6.3% | 4.7% | 3.4% | 2.3% | 1.5% |

| CRPTF PIF Horizon Model - \$1,700M CY 2024 | | | | | | | | | | | |
|--|--------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| (\$ in millions) | CY 23 ¹ | CY 24 | CY 25 | CY 26 | CY 27 | CY 28 | CY 29 | CY 30 | CY 31 | CY 32 | CY 33 |
| Commitments | | | | | | | | | | | |
| Fund Commitments | \$21,212.3 | \$1,700.0 | \$1,600.0 | \$1,600.0 | \$1,600.0 | \$1,500.0 | \$1,500.0 | \$1,500.0 | \$1,500.0 | \$1,500.0 | \$1,500.0 |
| Direct Co-Investment Program* | - | - | - | \$200.0 | \$200.0 | \$200.0 | \$200.0 | \$200.0 | \$200.0 | \$200.0 | \$200.0 |
| Period Cash Flow | | | | | | | | | | | |
| Paid-in Capital | \$1,050.1 | \$1,531.8 | \$1,678.3 | \$1,641.2 | \$1,778.3 | \$1,786.0 | \$1,770.1 | \$1,746.8 | \$1,726.2 | \$1,713.5 | \$1,705.2 |
| Distributions | \$859.9 | \$1,483.9 | \$1,662.2 | \$1,942.6 | \$2,142.7 | \$2,299.9 | \$2,426.2 | \$2,617.0 | \$2,798.7 | \$2,920.9 | \$3,021.8 |
| Net Cash Flow | (\$190.1) | (\$47.9) | (\$16.1) | \$301.4 | \$364.4 | \$513.8 | \$656.1 | \$870.1 | \$1,072.5 | \$1,207.5 | \$1,316.6 |
| Cumulative Cash Flow | | | | | | | | | | | |
| Paid-in Capital | \$12,280.9 | \$13,812.7 | \$15,491.0 | \$17,132.2 | \$18,910.5 | \$20,696.5 | \$22,466.7 | \$24,213.5 | \$25,939.7 | \$27,653.2 | \$29,358.3 |
| Distributions | \$13,477.9 | \$14,961.8 | \$16,624.0 | \$18,566.6 | \$20,709.3 | \$23,009.2 | \$25,435.4 | \$28,052.4 | \$30,851.1 | \$33,772.0 | \$36,793.8 |
| Net Cash Flow | \$1,197.0 | \$1,149.1 | \$1,133.0 | \$1,434.4 | \$1,798.8 | \$2,312.6 | \$2,968.7 | \$3,838.9 | \$4,911.4 | \$6,118.9 | \$7,435.5 |
| PIF Portfolio | | | | | | | | | | | |
| PIF Market Value | \$5,819.7 | \$6,589.0 | \$7,422.8 | \$8,046.1 | \$8,700.1 | \$9,290.2 | \$9,820.8 | \$10,221.1 | \$10,483.7 | \$10,656.2 | \$10,750.9 |
| Unfunded | \$3,792.6 | \$4,360.8 | \$4,451.3 | \$4,700.2 | \$4,670.3 | \$4,550.1 | \$4,479.7 | \$4,427.5 | \$4,401.2 | \$4,377.3 | \$4,369.3 |
| 3.00% Plan Growth | 11.7% | 12.9% | 14.1% | 14.8% | 15.6% | 16.2% | 16.6% | 16.8% | 16.7% | 16.5% | 16.1% |
| 4.00% Plan Growth | 11.7% | 12.8% | 13.8% | 14.4% | 15.0% | 15.4% | 15.6% | 15.6% | 15.4% | 15.1% | 14.6% |
| 5.00% Plan Growth | 11.7% | 12.6% | 13.5% | 14.0% | 14.4% | 14.6% | 14.7% | 14.6% | 14.3% | 13.8% | 13.3% |

¹ Commitment amount in CY 23 column represents total since inception through year-end 2023 (expected). CY 23 cash flows represent 1H 2023 real cash flows plus 2H 2023 projected cash flows. CY 23 projected total CRPTF plan value (denominator) applies two-twelfths of the annual growth rates (3%, 4%, 5%) to the 10/31/2023 value as provided by CRPTF to achieve projected 12/31/2023 values

¹ HarbourVest commitments included in the CY 23 Fund Commitment total

^{*}Assumes \$300M deployed in 2024 and remaining \$70M deployed in 2025 for a total of 750M since inception (HarbourVest)

Building the Portfolio

- Co-Investments and Venture Capital are expected to be accessed through existing customized CRPTF programs
 - The respective 'Pacing Target' ranges are intended to capture the expected deployment from the existing programs during CY 2024
 - The 'Pacing Target' ranges are not a recommendation for additional incremental commitments in CY 2024

| Long-Term Portfolio Targets - By Structure | | | | | | | | | | |
|--|--------------------------------------|--|--|-----------------------|----------------------------------|---------------------|--|--|--|--|
| Strategy | Current NAV Exposure ¹ | Current Total Exposure ^{1,2} | Long-Term Portfolio Target ^{2,3} | Target Commitments | Target Commitment Sizes (\$M) | Pacing Target (\$M) | | | | |
| Primaries | 98% | 95% | 80-90% | 8-12 | \$100-\$300 | \$1,600-\$1,800 | | | | |
| Co-Investments ⁶ | 2% | 5% | 10-20% | 0-1 | \$0-\$300 | \$0-\$300 | | | | |

| | Long-Term Portfolio Targets - By Strategy | | | | | | | | | | | |
|------------------------------|---|--|--|-----------------------|----------------------------------|---------------------|--|--|--|--|--|--|
| Strategy ⁴ | Current NAV Exposure ¹ | Current Total Exposure ^{1,2} | Long-Term Portfolio Target ^{2,3} | Target Commitments | Target Commitment Sizes (\$M) | Pacing Target (\$M) | | | | | | |
| Buyout | 64% | 64% | 55-75% | 5-8 | \$200-\$300 | \$1,100-\$1,300 | | | | | | |
| Buyout Large/Mega | 27% | 25% | 15-25% | 1-3 | \$100-\$200 | \$300-\$400 | | | | | | |
| Buyout SMID ⁵ | 36% | 40% | 40-50% | 4-5 | \$150-\$250 | \$700-\$1,000 | | | | | | |
| Growth Equity | 5% | 4% | 10-20% | 2-3 | \$150-\$225 | \$300-\$450 | | | | | | |
| Venture Capital ⁶ | 14% | 10% | 5-10% | 0-1 | \$0-\$150 | \$0-\$150 | | | | | | |
| Secondaries | 8% | 12% | 5-10% | 1-2 | \$75-\$200 | \$150-\$200 | | | | | | |
| Mezzanine | 4% | 4% | 0-10% | 0-1 | \$100-\$150 | \$0-\$150 | | | | | | |
| Distressed/Restructuring | 4% | 4% | 0-10% | 0-1 | \$100-\$150 | \$0-\$150 | | | | | | |

| Long-Term Portfolio Targets - By Geography | | | | | | | | | | |
|--|-------------------------------|----------------------------------|---------------------|-------------|-----------------|--|--|--|--|--|
| Geography | Current Exposure ⁷ | Target Commitment Sizes (\$M) | Pacing Target (\$M) | | | | | | | |
| North America | 73% | 65-75% | 6-8 | \$200-\$350 | \$1,100-\$1,500 | | | | | |
| Western Europe | 13% | 15-25% | 2-4 | \$125-\$300 | \$400-\$600 | | | | | |
| Rest of World | 15% | 5-10% | 0-2 | \$100-\$150 | \$0-\$300 | | | | | |

Endnotes & Disclosures

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1As of 6/30/2023. Excludes Multi-Strategy and Special Situations, which represents ~1% of PIF NAV and Total Exposure as of 6/30/2023. Totals may not sum to 100% due to rounding. ²Total Exposure is equal to Remaining Net Asset Value plus Unfunded Commitment. Total exposure does not account for planned transfer of legacy ICG commitments from PIF to PCF.

³Long-Term Portfolio Target measured by Total Exposure.

⁴Co-Investment sidecars' strategies are aligned with the primary vehicle they invest alongside

⁵HarbourVest CI Vehicle is grouped into SMID Buyout

⁶Venture Capital and Co-Investment exposure to be largely accessed through a vehicle/SMA structure.

⁷Current Exposure and Long-Term Portfolio Target by Geography refer to NAV exposure at the underlying company-level (CRPTF's share of a portfolio company's remaining NAV).

Connecticut Retirement Plans and Trust Funds

Pacing Plan - Infrastructure & Natural Resources Portfolio

December 2023



Pacing Model Overview and Process

Albourne's proprietary cash flow simulator employs a Bayesian approach, adapting to new information as
it is gathered. This is in contrast with classical models (e.g. the Takahashi-Alexander model) where cash
flow forecasts are calculated in advance.

Advantages

- Utilizes prior knowledge of a strategy's cash flow profile
- Considers and adapts to the economic environment
- Affords flexibility in its assumptions, which can be customized to account for distortions such as subscription line facilities

Albourne utilized a bottom's up approach, modeling each item in the portfolio based on its unique characteristics.

Base assumptions were then set for CRPTF's Total Asset growth trajectory over the next 10 years.

Once aggregated,
Albourne used
strategy forecasts to
model future
commitments for
targeted strategies.

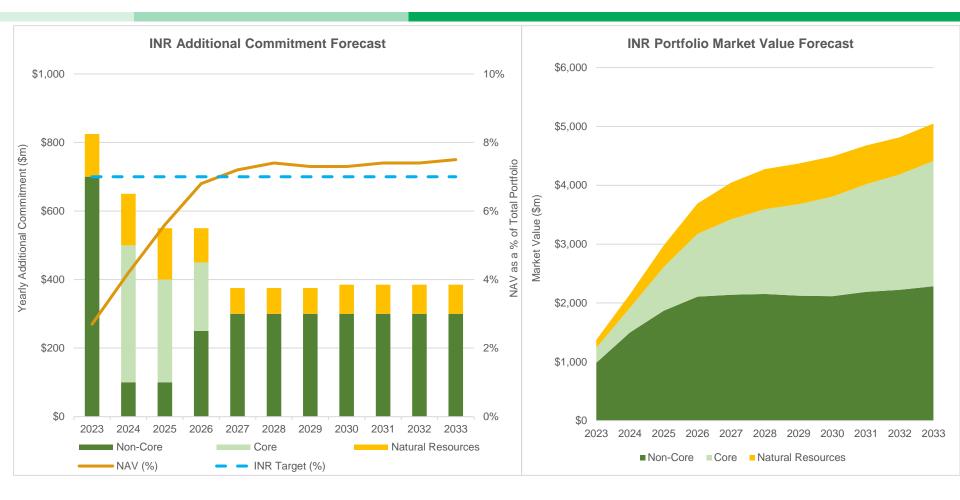
These future models were then used to build future commitment schedules for each portfolio, targeting annual and long term glidepath objectives.

CRPTF INR Assumptions & Targets

| Modelling Assumptions | | | | | | | | | | |
|---|--|--|--|--|--|--|--|--|--|--|
| Estimated 12/31/23 AUM | \$49.583bn (3% scenario) \$49.662bn (4% scenario) \$49.742bn (5% scenario) | | | | | | | | | |
| Growth Rate (annualized) | 3%; 4%; 5% | | | | | | | | | |
| Infrastructure allocation target as % of plan | 7% | | | | | | | | | |
| Core Sub-target | 40% | | | | | | | | | |
| Non-Core Sub-target | 45% | | | | | | | | | |
| Natural Resources Sub-target | 15% | | | | | | | | | |
| Target 2027 to achieve allocation goals | | | | | | | | | | |

- The starting point for portfolio data for all projections is 1/1/24.
- Estimated 12/31/23 AUM based on 10/30/23 CRPTF AUM grown by assumed rate over the final two months.

3% Plan Growth Rate



- Future commitments should increase Core Infrastructure relative to Non-Core.
- Core infrastructure calls capital much more quickly than closed-end non-Core, and does not distribute, and thus only minimal commitments will likely be needed in Core following 2026 in the forecast period to reach targets.

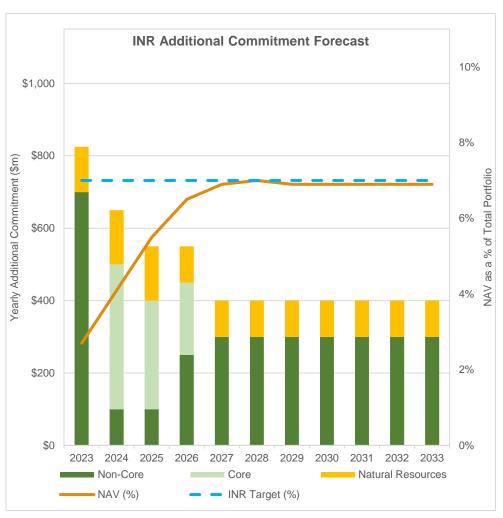


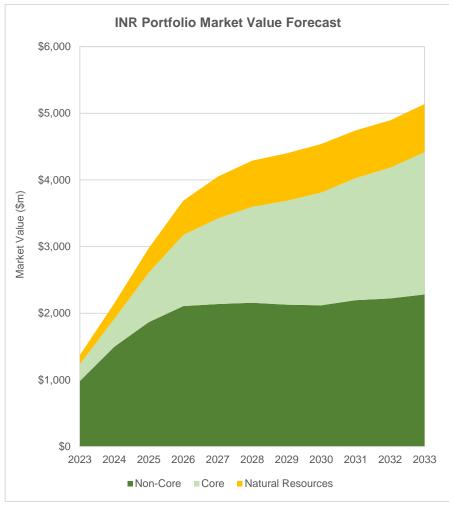
3% Plan Growth Rate - Data 121

| Year Ending | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 | 2031 | 2032 | 2033 | | |
|----------------------------------|---------|---------|------------|------------|------------|-------------|------------|---------|---------|---------|---------|--|--|
| NAV as % of Total Portfolio | | | | | | | | | | | | | |
| INR Target (%) | 7.0% | 7.0% | 7.0% | 7.0% | 7.0% | 7.0% | 7.0% | 7.0% | 7.0% | 7.0% | 7.0% | | |
| NAV (%) | 2.7% | 4.2% | 5.6% | 6.8% | 7.2% | 7.4% | 7.3% | 7.3% | 7.4% | 7.4% | 7.5% | | |
| Future Commitment Schedule (\$m) | | | | | | | | | | | | | |
| Non-Core | \$700 | \$100 | \$100 | \$250 | \$300 | \$300 | \$300 | \$300 | \$300 | \$300 | \$300 | | |
| Core | \$0 | \$400 | \$300 | \$200 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | | |
| Natural Resources | \$125 | \$150 | \$150 | \$100 | \$80 | \$80 | \$80 | \$90 | \$90 | \$90 | \$90 | | |
| Total Commit. | \$825 | \$650 | \$550 | \$550 | \$380 | \$380 | \$380 | \$390 | \$390 | \$390 | \$390 | | |
| Period Cash Flow (\$m) | | | | | | | | | | | | | |
| Paid-in Capital | \$498 | \$785 | \$814 | \$703 | \$538 | \$426 | \$386 | \$392 | \$397 | \$396 | \$394 | | |
| Distributions | \$83 | \$177 | \$239 | \$330 | \$582 | \$611 | \$712 | \$676 | \$641 | \$685 | \$601 | | |
| Net Cash Flow | (\$415) | (\$608) | (\$575) | (\$373) | \$43 | \$184 | \$326 | \$284 | \$243 | \$289 | \$207 | | |
| Unfunded | \$1,532 | \$1,402 | \$1,160 | \$1,017 | \$834 | \$787 | \$778 | \$777 | \$772 | \$771 | \$772 | | |
| | | Infras | tructure & | Natural Re | esources F | Portfolio M | arket Valu | e (\$m) | | | | | |
| Non-Core | \$985 | \$1,497 | \$1,867 | \$2,106 | \$2,140 | \$2,154 | \$2,123 | \$2,115 | \$2,189 | \$2,225 | \$2,283 | | |
| Core | \$254 | \$419 | \$744 | \$1,066 | \$1,282 | \$1,440 | \$1,555 | \$1,693 | \$1,829 | \$1,960 | \$2,131 | | |
| Natural Resources | \$133 | \$232 | \$366 | \$516 | \$623 | \$680 | \$690 | \$682 | \$659 | \$631 | \$636 | | |
| Total MV | \$1,372 | \$2,148 | \$2,977 | \$3,689 | \$4,046 | \$4,274 | \$4,369 | \$4,490 | \$4,677 | \$4,815 | \$5,050 | | |
| | | | | Strat | egy Perce | ntage | | | | | | | |
| Non-Core | 71.8% | 69.7% | 62.7% | 57.1% | 52.9% | 50.4% | 48.6% | 47.1% | 46.8% | 46.2% | 45.2% | | |
| Core | 18.5% | 19.5% | 25.0% | 28.9% | 31.7% | 33.7% | 35.6% | 37.7% | 39.1% | 40.7% | 42.2% | | |
| Natural Resources | 9.7% | 10.8% | 12.3% | 14.0% | 15.4% | 15.9% | 15.8% | 15.2% | 14.1% | 13.1% | 12.6% | | |



4% Plan Growth Rate





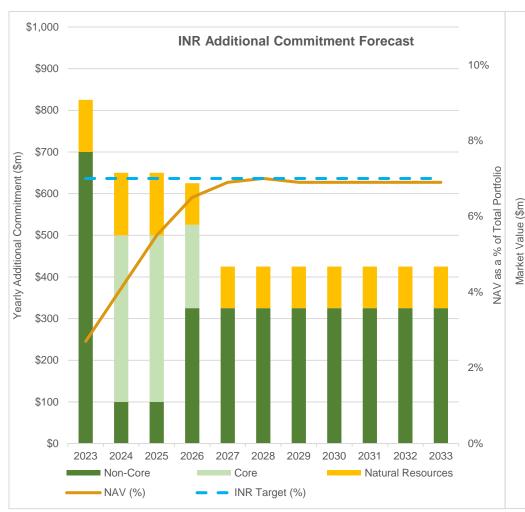


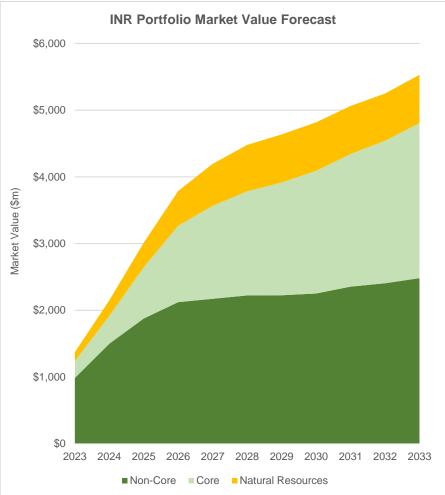
4% Plan Growth Rate - Data

| Year Ending | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 | 2031 | 2032 | 2033 | | |
|----------------------------------|---------|---------|------------|-----------|-----------|-------------|-------------|---------|---------|---------|---------|--|--|
| NAV as % of Total Portfolio | | | | | | | | | | | | | |
| INR Target (%) | 7.0% | 7.0% | 7.0% | 7.0% | 7.0% | 7.0% | 7.0% | 7.0% | 7.0% | 7.0% | 7.0% | | |
| NAV (%) | 2.7% | 4.1% | 5.5% | 6.5% | 6.9% | 7.0% | 6.9% | 6.9% | 6.9% | 6.9% | 6.9% | | |
| Future Commitment Schedule (\$m) | | | | | | | | | | | | | |
| Non-Core | \$700 | \$100 | \$100 | \$250 | \$300 | \$300 | \$300 | \$300 | \$300 | \$300 | \$300 | | |
| Core | \$0 | \$400 | \$300 | \$200 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | | |
| Natural Resources | \$125 | \$150 | \$150 | \$100 | \$100 | \$100 | \$100 | \$100 | \$100 | \$100 | \$100 | | |
| Total Commit. | \$825 | \$650 | \$550 | \$550 | \$400 | \$400 | \$400 | \$400 | \$400 | \$400 | \$400 | | |
| Period Cash Flow (\$m) | | | | | | | | | | | | | |
| Paid-in Capital | \$498 | \$785 | \$814 | \$703 | \$542 | \$437 | \$402 | \$411 | \$418 | \$415 | \$412 | | |
| Distributions | \$83 | \$177 | \$239 | \$330 | \$582 | \$611 | \$713 | \$680 | \$647 | \$695 | \$612 | | |
| Net Cash Flow | (\$415) | (\$608) | (\$575) | (\$373) | \$40 | \$174 | \$312 | \$269 | \$230 | \$280 | \$201 | | |
| Unfunded | \$1,532 | \$1,402 | \$1,160 | \$1,017 | \$855 | \$823 | \$823 | \$817 | \$808 | \$803 | \$802 | | |
| | | Infras | tructure & | Natural R | esources | Portfolio M | larket Valu | e (\$m) | | | | | |
| Non-Core | \$985 | \$1,497 | \$1,867 | \$2,106 | \$2,138 | \$2,157 | \$2,129 | \$2,119 | \$2,195 | \$2,222 | \$2,282 | | |
| Core | \$254 | \$419 | \$744 | \$1,066 | \$1,284 | \$1,441 | \$1,557 | \$1,692 | \$1,830 | \$1,962 | \$2,133 | | |
| Natural Resources | \$133 | \$232 | \$366 | \$516 | \$628 | \$690 | \$713 | \$726 | \$716 | \$710 | \$725 | | |
| Total MV | \$1,372 | \$2,148 | \$2,977 | \$3,689 | \$4,049 | \$4,288 | \$4,399 | \$4,538 | \$4,742 | \$4,894 | \$5,139 | | |
| | | | | Strat | egy Perce | ntage | | | | | | | |
| Non-Core | 71.8% | 69.7% | 62.7% | 57.1% | 52.8% | 50.3% | 48.4% | 46.7% | 46.3% | 45.4% | 44.4% | | |
| Core | 18.5% | 19.5% | 25.0% | 28.9% | 31.7% | 33.6% | 35.4% | 37.3% | 38.6% | 40.1% | 41.5% | | |
| Natural Resources | 9.7% | 10.8% | 12.3% | 14.0% | 15.5% | 16.1% | 16.2% | 16.0% | 15.1% | 14.5% | 14.1% | | |



5% Plan Growth Rate







5% Plan Growth Rate - Data

| Year Ending | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 | 2031 | 2032 | 2033 | | |
|----------------------------------|---------|---------|------------|-----------|------------|-------------|-------------|---------|---------|---------|---------|--|--|
| NAV as % of Total Portfolio | | | | | | | | | | | | | |
| INR Target (%) | 7.0% | 7.0% | 7.0% | 7.0% | 7.0% | 7.0% | 7.0% | 7.0% | 7.0% | 7.0% | 7.0% | | |
| NAV (%) | 2.7% | 4.1% | 5.5% | 6.5% | 6.9% | 7.0% | 6.9% | 6.9% | 6.9% | 6.9% | 6.9% | | |
| Future Commitment Schedule (\$m) | | | | | | | | | | | | | |
| Non-Core | \$700 | \$100 | \$100 | \$330 | \$330 | \$330 | \$330 | \$330 | \$330 | \$330 | \$330 | | |
| Core | \$0 | \$400 | \$400 | \$200 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | | |
| Natural Resources | \$125 | \$150 | \$150 | \$100 | \$100 | \$100 | \$100 | \$100 | \$100 | \$100 | \$100 | | |
| Total Commit. | \$825 | \$650 | \$650 | \$630 | \$430 | \$430 | \$430 | \$430 | \$430 | \$430 | \$430 | | |
| Period Cash Flow (\$m) | | | | | | | | | | | | | |
| Paid-in Capital | \$498 | \$785 | \$814 | \$703 | \$542 | \$437 | \$402 | \$411 | \$418 | \$415 | \$412 | | |
| Distributions | \$83 | \$177 | \$239 | \$330 | \$582 | \$611 | \$713 | \$680 | \$647 | \$695 | \$612 | | |
| Net Cash Flow | (\$415) | (\$608) | (\$575) | (\$373) | \$40 | \$174 | \$312 | \$269 | \$230 | \$280 | \$201 | | |
| Unfunded | \$1,532 | \$1,402 | \$1,160 | \$1,017 | \$855 | \$823 | \$823 | \$817 | \$808 | \$803 | \$802 | | |
| | | Infras | tructure & | Natural R | esources l | Portfolio N | larket Valu | e (\$m) | | | | | |
| Non-Core | \$985 | \$1,497 | \$1,878 | \$2,122 | \$2,173 | \$2,222 | \$2,225 | \$2,250 | \$2,354 | \$2,405 | \$2,483 | | |
| Core | \$254 | \$419 | \$769 | \$1,148 | \$1,393 | \$1,563 | \$1,692 | \$1,841 | \$1,990 | \$2,137 | \$2,323 | | |
| Natural Resources | \$133 | \$232 | \$368 | \$519 | \$629 | \$694 | \$719 | \$728 | \$719 | \$709 | \$724 | | |
| Total MV | \$1,372 | \$2,148 | \$3,014 | \$3,789 | \$4,195 | \$4,479 | \$4,636 | \$4,819 | \$5,063 | \$5,251 | \$5,530 | | |
| | | | | Strat | egy Perce | ntage | | | | | | | |
| Non-Core | 71.8% | 69.7% | 62.3% | 56.0% | 51.8% | 49.6% | 48.0% | 46.7% | 46.5% | 45.8% | 44.9% | | |
| Core | 18.5% | 19.5% | 25.5% | 30.3% | 33.2% | 34.9% | 36.5% | 38.2% | 39.3% | 40.7% | 42.0% | | |
| Natural Resources | 9.7% | 10.8% | 12.2% | 13.7% | 15.0% | 15.5% | 15.5% | 15.1% | 14.2% | 13.5% | 13.1% | | |



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Connecticut Retirement Plans and Trust Funds

Pacing Plan – Real Estate Portfolio

December 2023



Pacing Model Overview and Process

Albourne's proprietary cash flow simulator employs a Bayesian approach, adapting to new information as
it is gathered. This is in contrast with classical models (e.g. the Takahashi-Alexander model) where cash
flow forecasts are calculated in advance.

Advantages

- Utilizes prior knowledge of a strategy's cash flow profile
- Considers and adapts to the economic environment
- Affords flexibility in its assumptions, which can be customized to account for distortions such as subscription line facilities

Albourne utilized a bottom's up approach, modeling each item in the portfolio based on its unique characteristics.

Base assumptions were then set for CRPTF's Total Asset growth trajectory over the next 10 years.

Once aggregated,
Albourne used
strategy forecasts to
model future
commitments for
targeted strategies.

These future models were then used to build future commitment schedules for each portfolio, targeting annual and long term glidepath objectives.

CRPTF Real Estate Assumptions & Targets

| Modeling Assumptions | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|
| Estimated 12/31/23 AUM | \$49.583bn (3% scenario) \$49.662bn (4% scenario) \$49.742bn (5% scenario) | | | | | | | | |
| Growth Rate (annualized) | 3%; 4%; 5% | | | | | | | | |
| Real Estate allocation target as % of Plan | 10.0% | | | | | | | | |
| Core Sub-target | 40% | | | | | | | | |
| Non-Core Sub-target | 60% | | | | | | | | |
| Target 2027 to achieve allocation goal | | | | | | | | | |

- The starting point for additional commitments is 1/1/24.
- The starting AUM for each scenario is based on the 10/30/23 CRPTF AUM grown by the assumed annual rates for the final two months of 2023.

3% Plan Growth Rate





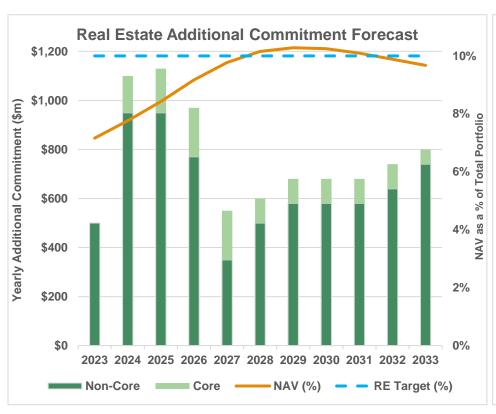
 While additional commitments over the next three years allow the plan to reach the NAV target of 10% by 2027, higher commitments are also required towards the tail-end of the forecast period to maintain this target.

3% Plan Growth Rate - Data 121

| Year Ending | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 | 2031 | 2032 | 2033 |
|--|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| NAV as % of Total Portfolio | | | | | | | | | | | |
| RE Target (%) | 10.0% | 10.0% | 10.0% | 10.0% | 10.0% | 10.0% | 10.0% | 10.0% | 10.0% | 10.0% | 10.0% |
| NAV (%) | 7.2% | 7.8% | 8.5% | 9.3% | 9.9% | 10.2% | 10.2% | 10.1% | 10.1% | 10.0% | 10.0% |
| Future Commitment Schedule (\$m) | | | | | | | | | | | |
| Non-Core | \$500 | \$850 | \$850 | \$650 | \$300 | \$300 | \$350 | \$700 | \$700 | \$700 | \$700 |
| Core | \$0 | \$150 | \$180 | \$200 | \$200 | \$100 | \$70 | \$70 | \$100 | \$100 | \$50 |
| Total Commit. | \$500 | \$1,000 | \$1,030 | \$850 | \$500 | \$400 | \$420 | \$770 | \$800 | \$800 | \$750 |
| Period Cash Flow (\$m) | | | | | | | | | | | |
| Paid-in Capital | \$818 | \$799 | \$963 | \$1,050 | \$924 | \$727 | \$573 | \$536 | \$598 | \$665 | \$694 |
| Distributions | \$549 | \$618 | \$784 | \$823 | \$786 | \$730 | \$797 | \$847 | \$876 | \$933 | \$972 |
| Net Cash Flow | (\$269) | (\$182) | (\$180) | (\$227) | (\$138) | \$3 | \$224 | \$311 | \$278 | \$267 | \$278 |
| Unfunded | \$1,720 | \$1,918 | \$1,914 | \$1,676 | \$1,214 | \$892 | \$761 | \$1,016 | \$1,234 | \$1,376 | \$1,439 |
| Real Estate Portfolio Market Value (\$m) | | | | | | | | | | | |
| Non-Core | \$1,323 | \$1,791 | \$2,392 | \$2,991 | \$3,415 | \$3,680 | \$3,791 | \$3,837 | \$3,893 | \$3,966 | \$4,064 |
| Core | \$2,267 | \$2,244 | \$2,123 | \$2,063 | \$2,123 | \$2,232 | \$2,304 | \$2,375 | \$2,468 | \$2,566 | \$2,650 |
| Total MV | \$3,591 | \$4,035 | \$4,515 | \$5,054 | \$5,538 | \$5,912 | \$6,096 | \$6,212 | \$6,361 | \$6,532 | \$6,714 |
| Strategy Percentage | | | | | | | | | | | |
| Non-Core | 36.9% | 44.4% | 53.0% | 59.2% | 61.7% | 62.2% | 62.2% | 61.8% | 61.2% | 60.7% | 60.5% |
| Core | 63.1% | 55.6% | 47.0% | 40.8% | 38.3% | 37.8% | 37.8% | 38.2% | 38.8% | 39.3% | 39.5% |



4% Plan Growth Rate





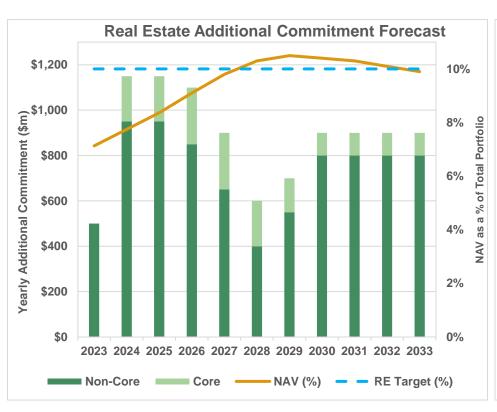


4% Plan Growth Rate – Data

| Year Ending | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 | 2031 | 2032 | 2033 |
|--|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| NAV as % of Total Portfolio | | | | | | | | | | | |
| RE Target (%) | 10.0% | 10.0% | 10.0% | 10.0% | 10.0% | 10.0% | 10.0% | 10.0% | 10.0% | 10.0% | 10.0% |
| NAV (%) | 7.2% | 7.8% | 8.4% | 9.2% | 9.8% | 10.2% | 10.3% | 10.2% | 10.1% | 9.9% | 9.7% |
| Future Commitment Schedule (\$m) | | | | | | | | | | | |
| Non-Core | \$500 | \$950 | \$950 | \$770 | \$350 | \$500 | \$580 | \$580 | \$580 | \$640 | \$740 |
| Core | \$0 | \$150 | \$180 | \$200 | \$200 | \$100 | \$100 | \$100 | \$100 | \$100 | \$60 |
| Total Commit. | \$500 | \$1,100 | \$1,130 | \$970 | \$550 | \$600 | \$680 | \$680 | \$680 | \$740 | \$800 |
| Period Cash Flow (\$m) | | | | | | | | | | | |
| Paid-in Capital | \$818 | \$817 | \$978 | \$1,058 | \$964 | \$827 | \$741 | \$684 | \$650 | \$652 | \$688 |
| Distributions | \$549 | \$618 | \$784 | \$830 | \$804 | \$762 | \$843 | \$912 | \$963 | \$1,028 | \$1,064 |
| Net Cash Flow | (\$269) | (\$200) | (\$194) | (\$228) | (\$160) | (\$65) | \$102 | \$228 | \$314 | \$377 | \$376 |
| Unfunded | \$1,720 | \$2,004 | \$2,059 | \$1,876 | \$1,385 | \$1,162 | \$1,128 | \$1,145 | \$1,186 | \$1,259 | \$1,380 |
| Real Estate Portfolio Market Value (\$m) | | | | | | | | | | | |
| Non-Core | \$1,323 | \$1,806 | \$2,449 | \$3,112 | \$3,610 | \$3,962 | \$4,193 | \$4,332 | \$4,397 | \$4,425 | \$4,457 |
| Core | \$2,267 | \$2,244 | \$2,123 | \$2,063 | \$2,123 | \$2,232 | \$2,331 | \$2,432 | \$2,531 | \$2,629 | \$2,724 |
| Total MV | \$3,591 | \$4,050 | \$4,571 | \$5,175 | \$5,733 | \$6,194 | \$6,524 | \$6,764 | \$6,928 | \$7,054 | \$7,180 |
| Strategy Percentage | | | | | | | | | | | |
| Non-Core | 36.9% | 44.6% | 53.6% | 60.1% | 63.0% | 64.0% | 64.3% | 64.0% | 63.5% | 62.7% | 62.1% |
| Core | 63.1% | 55.4% | 46.4% | 39.9% | 37.0% | 36.0% | 35.7% | 36.0% | 36.5% | 37.3% | 37.9% |



5% Plan Growth Rate





5% Plan Growth Rate – Data

| Year Ending | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 | 2031 | 2032 | 2033 | |
|----------------------------------|---------|---------|---------|-------------|-------------|------------|----------|---------|---------|---------|---------|--|
| NAV as % of Total Portfolio | | | | | | | | | | | | |
| RE Target (%) | 10.0% | 10.0% | 10.0% | 10.0% | 10.0% | 10.0% | 10.0% | 10.0% | 10.0% | 10.0% | 10.0% | |
| NAV (%) | 7.1% | 7.7% | 8.4% | 9.1% | 9.8% | 10.3% | 10.5% | 10.4% | 10.3% | 10.1% | 9.9% | |
| Future Commitment Schedule (\$m) | | | | | | | | | | | | |
| Non-Core | \$500 | \$950 | \$950 | \$850 | \$650 | \$400 | \$550 | \$800 | \$800 | \$800 | \$800 | |
| Core | \$0 | \$200 | \$200 | \$250 | \$250 | \$200 | \$150 | \$100 | \$100 | \$100 | \$100 | |
| Total Commit. | \$500 | \$1,150 | \$1,150 | \$1,100 | \$900 | \$600 | \$700 | \$900 | \$900 | \$900 | \$900 | |
| Period Cash Flow (\$m) | | | | | | | | | | | | |
| Paid-in Capital | \$818 | \$858 | \$1,031 | \$1,174 | \$1,116 | \$1,004 | \$846 | \$762 | \$770 | \$803 | \$856 | |
| Distributions | \$549 | \$619 | \$787 | \$835 | \$812 | \$780 | \$884 | \$966 | \$1,023 | \$1,097 | \$1,151 | |
| Net Cash Flow | (\$269) | (\$239) | (\$244) | (\$339) | (\$304) | (\$223) | \$38 | \$204 | \$252 | \$294 | \$295 | |
| Unfunded | \$1,720 | \$2,010 | \$2,062 | \$1,951 | \$1,697 | \$1,298 | \$1,176 | \$1,338 | \$1,489 | \$1,602 | \$1,656 | |
| | | | Re | al Estate l | Portfolio M | arket Valu | ıe (\$m) | | | | | |
| Non-Core | \$1,323 | \$1,806 | \$2,449 | \$3,124 | \$3,687 | \$4,122 | \$4,393 | \$4,581 | \$4,740 | \$4,874 | \$5,004 | |
| Core | \$2,267 | \$2,288 | \$2,196 | \$2,185 | \$2,298 | \$2,506 | \$2,667 | \$2,782 | \$2,888 | \$2,994 | \$3,132 | |
| Total MV | \$3,591 | \$4,094 | \$4,645 | \$5,309 | \$5,985 | \$6,628 | \$7,060 | \$7,363 | \$7,628 | \$7,868 | \$8,136 | |
| Strategy Percentage | | | | | | | | | | | | |
| Non-Core | 36.9% | 44.1% | 52.7% | 58.8% | 61.6% | 62.2% | 62.2% | 62.2% | 62.1% | 61.9% | 61.5% | |
| Core | 63.1% | 55.9% | 47.3% | 41.2% | 38.4% | 37.8% | 37.8% | 37.8% | 37.9% | 38.1% | 38.5% | |



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