

Investment Board Meeting Agenda

Thursday, June 18, 2026

IPERS Board Room or

Conference Telephone #: 646-558-8656

Meeting ID: 876 2284 1570

10:30 a.m. – 2:30 p.m.

- 10:30 a.m. Call to Order**
- 10:35 a.m. Approval of March 27, 2026, and April 6, 2026, Board Meeting Minutes**
- 10:40 a.m. Experience Study – Economic and Demographic Assumptions Review**
Brent Banister and Bryan Hoge, Cavanaugh Macdonald
- 11:45 a.m. Lunch Break**
- 12:15 p.m. Acting CEO Report – Elizabeth Hennessey**
- 12:30 p.m. Private Markets Program Annual Review**
Pat Reinhardt, Marcus Dong and Craig Payne, IPERS
- 1:30 p.m. IPERS Investment Staff Reports**
- Beta Report – Sriram Lakshminarayanan
 - Alpha Report – Investment Team
 - Private Market Program – Investment Team
 - Risk Report – Sriram Lakshminarayanan
 - CIO Updates – Sriram Lakshminarayanan
- 2:15 p.m. Securities Litigation Report**
Elizabeth Hennessey, IPERS
- 2:20 p.m. Public Comments**
- 2:25 p.m. Other Business**
- Confirm Next Board Meeting Dates of September 23–24, 2026
 - Next BAC Meeting is Monday, August 24, 2026
- 2:30 p.m. Adjourn**



INVESTMENT BOARD MEETING MINUTES
IPERS Headquarters
7401 Register Drive, Des Moines, Iowa
March 27, 2026

The following people participated in the IPERS Investment Board meeting held on Friday, March 27, 2026.

Members of the Board - Present

Bill Bemis, Chair

Kris Rowley, Vice Chair

Tami Loge

Brent Mathisen

Sara Meinders

Treasurer Roby Smith

Matt Watters

Representative Michael Bergan

Representative Elizabeth Wilson

Senator Molly Donahue

Members of the Board - Absent

Senator Mark Lofgren

Administration

Greg Samorajski, CEO

Sriram Lakshminarayanan, CIO

John Fujiwara, Head of Strategy

Sheldon Lien, Senior Investment Officer

Pat Reinhardt, Senior Investment Officer

Keith Scholten, Senior Investment Officer

Marcus Dong, Investment Officer

Kate Fishman, Investment Officer

Ankit Saw, Investment Officer

Melinda McElroy, Executive Assistant

Elizabeth Hennessy, General Counsel

Steve Herbert, Chief Benefits Officer

Shawna Lode, Chief Strategy Officer

Megan Schlesky, Legislative Liaison

Jina Bresson, Compliance Officer

Consultants

Thomas Toth, Wilshire

Ali Kazemi, Wilshire

Call to Order

Chair Bill Bemis called the meeting to order at 10:30 a.m.

Approval of Minutes from Previous Meeting

Following a review of the proposed edits to the December 5, 2025, meeting minutes, Brent Mathisen moved to approve both the amended December 5, 2025, minutes and the January 14, 2026, Investment Board meeting minutes. Matt Waters seconded the motion. The minutes were approved unanimously by voice vote.

CEO Report - Greg Samorajski

Greg Samorajski provided updates on IPERS' pension administration system, noting that the contract with Vitech/Majesco has been extended and that the Iowa Department of Management is leading negotiations on a potential move to a cloud-based system. He shared that the Member Service Division is under significant strain, as call volume exceeds capacity and counseling appointments are already booked through May. While Amazon Connect and temporary staff assist with routine tasks, temporary employees cannot handle complex calls or counseling sessions. Greg emphasized the need for additional full-time employees in future budget cycles.

Legislative Session Update

Megan Schlesky provided a legislative update, highlighting IPERS' modernization bill. The bill supports collaboration with the Treasurer's Office and the Great Iowa Treasurer Hunt to assist members with unclaimed benefits. It also restructures the mailing schedule for annual benefit statements by phasing them throughout the year and introduces an option for members to receive monthly benefits through a reloadable payment card.

Calendar Year 2025 Investment Performance Review

Thomas Toth and Ali Kazemi of Wilshire reported that the total fund performance for calendar year December 31, 2025, was 13.75%, outperforming the total fund policy benchmark return of 13.4%. The presentation included a return/risk ranking, sources of risk and a performance review of each publicly traded asset class and the managers within each class.

Closed Session for CEO and CIO Compensation

Bill Bemis moved that the IPERS Investment Board go into a closed session of this public meeting to discuss the annual performance evaluation of the chief investment officer and to discuss IPERS CEO compensation, as authorized by Iowa Code section 21.5(1)(i). Sara Meinders seconded the motion. The motion carried unanimously by roll-call vote.

Ayes: Bill Bemis, Kris Rowley, Tami Loge, Brent Mathisen, Sara Meinders, Treasurer Smith and Matt Watters

Nays: None

MOTION PASSED

Bill Bemis moved that the IPERS Investment Board end its closed session and resume the open session of this meeting. Sara Meinders Bemis seconded the motion. The motion carried unanimously by voice vote. The Board took no action during the closed session.

Ayes: Bill Bemis, Kris Rowley, Tami Loge, Brent Mathisen, Sara Meinders, Treasurer Smith and Matt Watters

Nays: None

MOTION PASSED

Bill Bemis moved that the Investment Board table the CEO salary compensation recommendation until the Board's June meeting. Sara Meinders seconded the motion. The motion carried unanimously by voice vote.

Active Risk Presentation

Thomas Toth, Ali Kazemi and Sriram Lakshminarayanan delivered a joint presentation on active risk. Wilshire explained that active risk is inherent in implementing a policy portfolio because private markets, rebalancing costs and structural constraints prevent fully passive execution, making some tracking error unavoidable. They emphasized distinguishing actionable from non-actionable risk and recommended recalibrating IPERS' risk budget to reflect only the portion staff can intentionally manage, suggesting a target of around 0.50% with an upper bound of 3.00% to manage through volatile/crisis time periods. Peer comparisons showed most large plans maintain tracking-error limits between 1% and 3%, with best practices emphasizing forward-looking quarterly monitoring. Sriram reported that IPERS' active risk remains low because it measures tracking error only in public markets and maintains a largely passive implementation supported by selective active strategies. He noted that active risk should be intentional, accountable and expected to add long-term value, with policy controls such as allocation ranges and oversight limiting total tracking error while allowing necessary flexibility. Staff expects to deploy 30–45 basis points of actionable risk in normal markets and emphasized the importance of maintaining a flexible upper limit during periods of market stress. The Board agreed to revisit policy language and continue refining the framework ahead of September's broader policy discussions.

IPERS Investment Staff Reports

Beta Report

Sriram Lakshminarayanan reviewed the beta report, noting the fund's estimated market value of \$48.7 billion as of March 20, 2026. All asset classes were within policy ranges.

Alpha Report

The investment team reviewed the alpha report and identified minor performance and personnel concerns regarding fixed income manager MAN, as well as personnel concerns for fixed income manager Mesirov. Performance concerns were also noted with LARS managers PIMCO and Welton Global.

Private Markets Program

The investment team noted minor organizational and personnel concerns within Pathway Capital Management's private equity and private credit portfolios. They also reported organizational concerns with Crestline Management and Marathon Asset Management, as well as personnel concerns with BlackRock. Material concerns persist regarding Heitman CREDIT in the private credit portfolio.

The private markets team presented ongoing analysis regarding potential expansion into additional core-plus or value-added strategies and the possible use of portfolio-level leverage to enhance returns while maintaining prudent risk management. They also discussed considerations related to fees, benchmarks and long-term portfolio construction.

Risk Report

Sriram Lakshminarayanan presented IPERS' risk monitoring report, highlighting that total public market active risk stands at 0.22%, significantly below the current target of 1.50%.

Public Comment

The Board heard public comments from former senator Patrick Deluhery.

Confirm Next Meeting Date

The next regularly scheduled Investment Board meeting is Thursday, June 18, 2026, at 10:30 a.m.

Adjourn

With no further business to come before the Investment Board, Tami Loge moved to adjourn. Matt Watters seconded the motion. The motion carried unanimously by voice vote. The meeting adjourned at 2:34 p.m.



INVESTMENT BOARD MEETING MINUTES
Virtual Video Meeting
April 6, 2026

The following people participated in the virtual IPERS Investment Board meeting held on Monday, April 6, 2026

Members of the Board

Bill Bemis, Chair
Kris Rowley, Vice Chair
Tami Loge
Brent Mathisen
Sara Meinders
Treasurer Roby Smith

Matt Watters
Representative Michael Bergan
Representative Elizabeth Wilson
Senator Molly Donahue
Senator Mark Lofgren

IPERS Administration and Staff

Eliabeth Hennessey, Acting CEO and General Counsel
Melinda McElroy, Executive Assistant

Other Attendees

Jacob Nicholson, Governor's Office
Stan Thompson, Governor's Office
Mark Campbell, Iowa Department of Administrative Services
Nathan Reckman, Iowa Department of Administrative Services
Lindsey Browning, Iowa Attorney General's Office

Proceedings

Bill Bemis, chair, called the meeting to order at 10:30 a.m.

Closed Session – Discussion of Confidential Records

Kris Rowley moved that the IPERS Investment Board go into a closed session of this public meeting to have a privileged discussion with counsel regarding confidential records as authorized by Iowa Code §21.5(1)(a). The records subject to discussion are authorized or required to be maintained as confidential pursuant to Iowa Code §22.7(11). Matt Watters seconded. The motion carried by unanimous roll call vote.

Ayes: Bill Bemis, Kris Rowley, Tami Loge, Brent Mathisen, Sara Meinders, Treasurer Roby Smith and Matt Watters

Nays: None

MOTION PASSED

Kris Rowley moved that the IPERS Investment Board end its closed session and resume the open session of the meeting. No action was taken by the Board in closed session. Sara Meinders seconded. The motion carried by a unanimous roll call vote.

Ayes: Bill Bemis, Kris Rowley, Tami Loge, Brent Mathisen, Sara Meinders, Treasurer Roby Smith and Matt Watters

Nays: None

MOTION PASSED

Adjourn

With no additional business to come before the Investment Board, Kris Rowley moved to adjourn the meeting. Bill Bemis seconded. The motion was approved by unanimous voice vote. Meeting adjourned at 10:52 a.m.

Iowa Public Employees' Retirement System

2021 – 2025 Experience Study



Brent Banister, PhD, FSA, EA, FCA, MAAA
Bryan Hoge, FSA, EA, FCA, MAAA

June 18, 2026



- Assumptions have a significant impact on the calculation of liabilities and actuarial contribution rates
 - Benefit payments are dependent on number of contingent events that are unknown
 - Actuaries use assumptions to determine information about future benefit payments including when, how much, and how long
 - Assumptions will impact the allocation of costs so generally set neither overly conservative or aggressive
- Assumptions are just that – assumptions. If actual experience differs from the assumption over time, the costs will differ also as the valuation process captures actual experience
- Assumptions are long-term estimates

- Evaluate whether to retain or change the current set of assumptions and actuarial methods
- Generally performed every 4 years for IPERS
 - New assumptions will first be used in the June 30, 2026 valuation
- Actuary's role is to make recommendations for each assumption
 - As **fiduciaries**, the Board is responsible for the selection of actuarial assumptions
 - Board can adopt all, none, or some of actuary's recommendations
- Assumptions do not affect the true cost of the plan which is the actual benefit payments paid from the trust fund

Our philosophy:

- Don't overreact: if experience is credible, we tend to move part of the way toward actual experience.
- Anticipate trends if expected to continue e.g., mortality improvements
- Simplify when possible: ignore factors that don't improve the accuracy of the liability measurement

- Compare actual experience during study period (Fiscal years 2022 through 2025) with expected results based on current assumptions
 - Key measurement tool: Actual/Expected Ratio or A/E Ratio
- Past experience provides strong guidance for some assumptions (like mortality) and weak guidance for others (like investment return)
- Assumption setting involves both science and art
 - Objective (science): number crunching of actual and expected numbers of members and rates of occurrence
 - Subjective (art): interpreting the information and deciding on appropriate changes
 - Professional judgement is involved
- The Covid pandemic did have an impact during this study period and was considered in making recommended changes



What Are They?

Economic

- Price Inflation
- Investment Return
- Wage Growth
- COLA
- Interest Crediting Rate on EE Contr
- Payroll Growth

Demographic

- Retirement Rates
- Promotional/Step Pay Increases
- Disability
- Turnover
- Mortality

Who Selects Them?

Economic

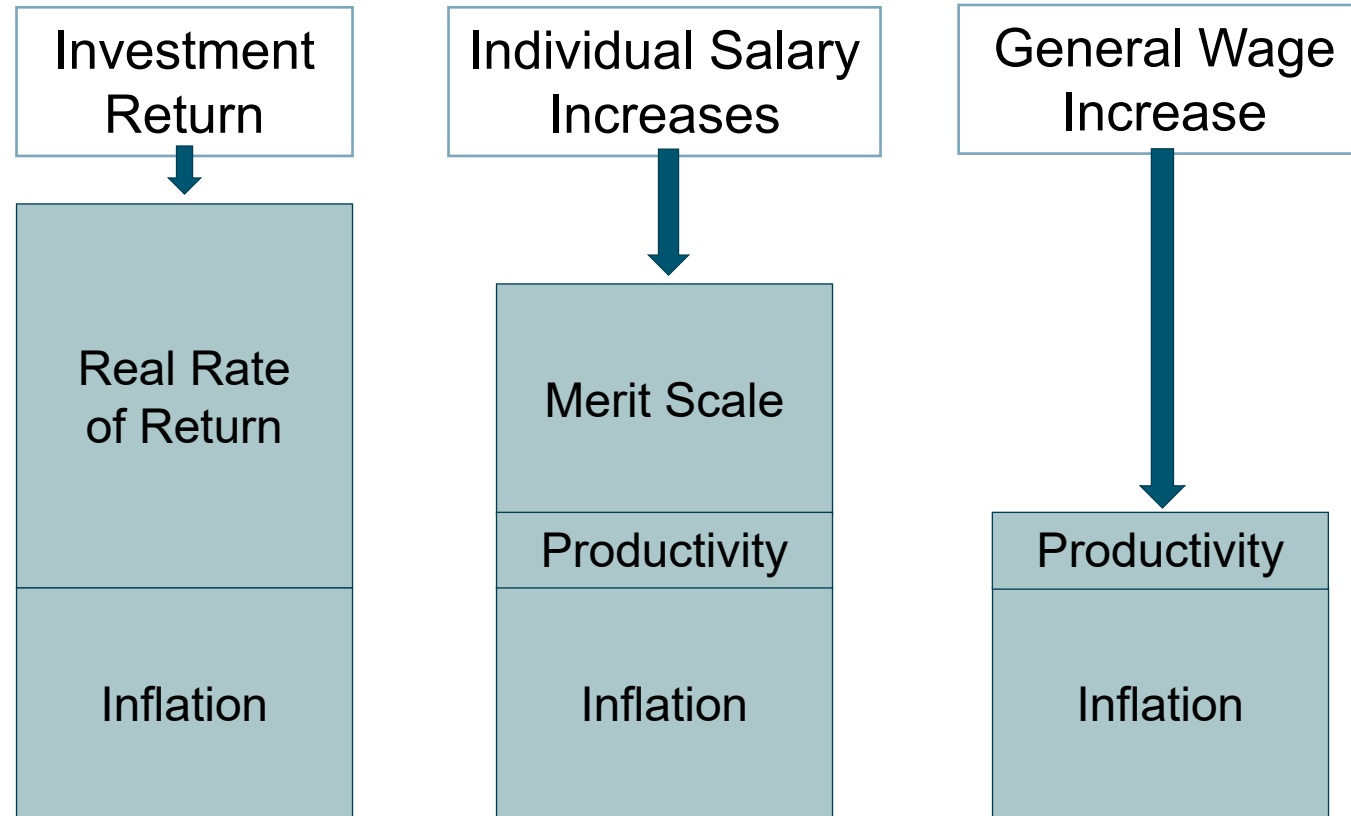
- Board
- Actuary
- Other Advisors

Demographic

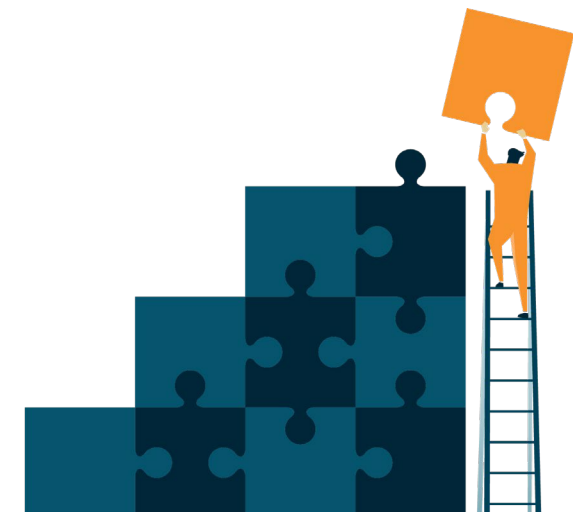
- Board Approves
- Mostly Actuary Since Data Driven

Economic Assumptions





Note: inflation assumption and productivity must be consistent in all assumptions.

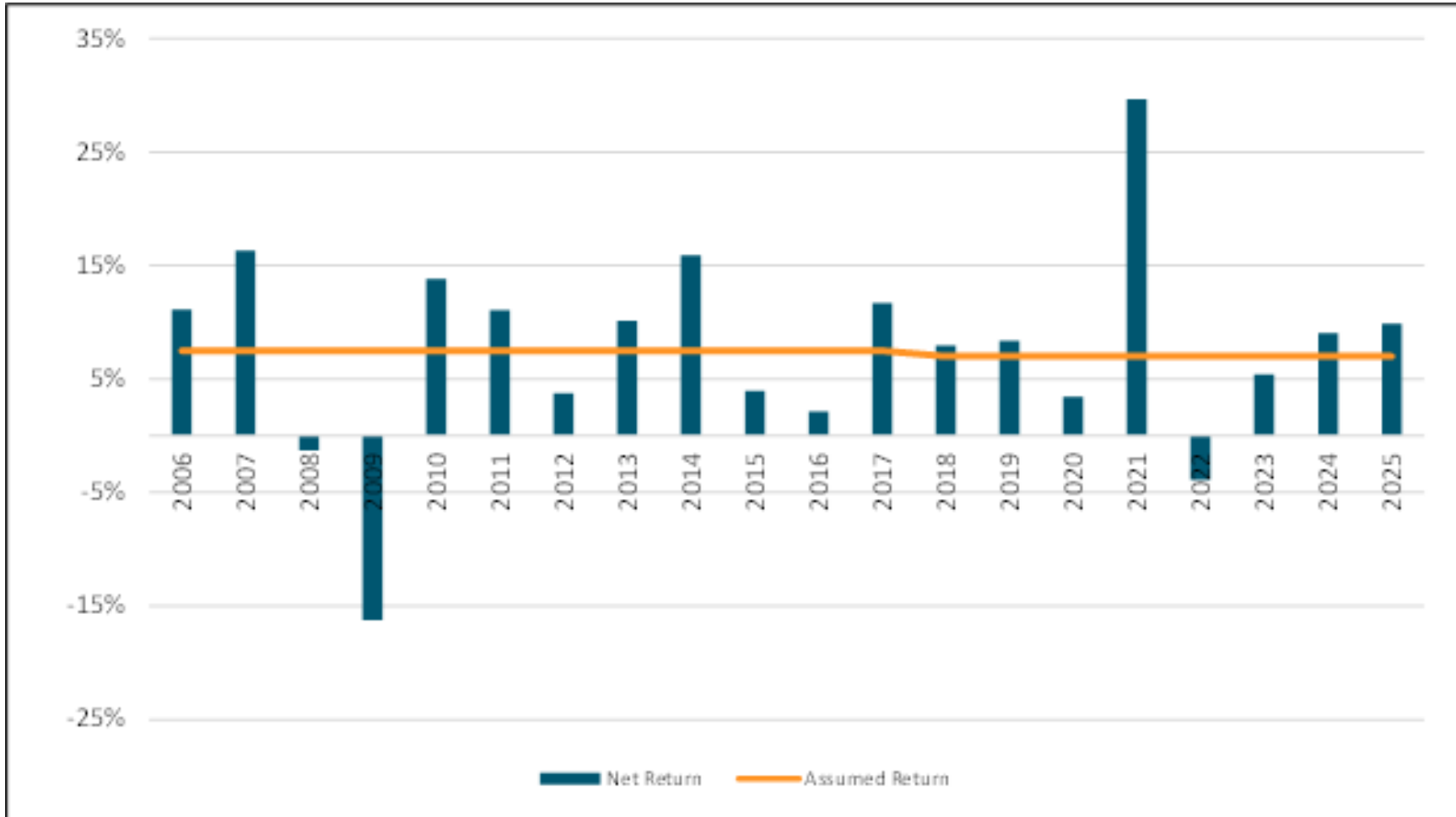


- Price inflation represents annual increase in cost of living, generally measured by the Consumer Price Index (CPI)
- Current assumption is 2.60%
- Expected future inflation is slightly below 2.60%, but recent actual inflation has been higher (3.20% over the last 10 years)
- **We recommend retaining the 2.60% inflation assumption**

- Law sets interest rate at 1% above 1-year CD rates
- Analyzed last 19 years of actual interest credited compared to inflation
 - Average was 0.06% below inflation, however...
 - Average was 0.78% above inflation, excluding years after 2021 when inflation spiked
- **Recommend keeping current assumption of 3.50%**

- Using the “building block” approach, the investment return assumption is composed of multiple components
 - Rate of price inflation (previously discussed)
 - Real rate of return
 - Administrative expenses
- Current assumption is 7.00%
 - 2.60% inflation + 4.45% real return – 0.05% administrative expenses
- Asset allocation is the key factor in setting this assumption
 - Portfolios that take risk are generally expected to be rewarded with higher returns, along with potentially greater volatility
- Most powerful assumption in the valuation
 - Small changes can have large impact on liabilities and contribution rates

Historical Investment Returns



Current assumption is 7.00%, net of investment and administrative expenses

Remember, the past is not a reliable indicator of future investment returns.

Source	Nominal Return	Consultant's Inflation Assumption	Real Rate of Return
Wilshire (10 years)	6.2%	2.3%	3.9%
Wilshire (30 years)	7.0%	2.4%	4.6%
Horizon Survey (10 years)	7.2%	2.4%	4.8%
Horizon Survey (20 years)	7.5%	2.4%	5.1%

Note: Wilshire's assumptions are from Q1 2026 while the Horizon Survey is from various early 2025 dates. Wilshire's expectations are assigned a higher level of credibility in evaluating the current assumption.

	Current Assumptions	Recommended Assumptions
Price inflation	2.60%	2.60%
Real return	4.45%	4.45%
Real return	<u>(0.05%)</u>	<u>(0.05%)</u>
Nominal return	7.00%	7.00%

We recommend the current investment return assumption of 7.00% be retained.

- This assumption reflects the broad wage increases that arise from increased productivity, etc.
- **Recommend retaining 3.25%** with components shown below:

	<u>Current</u>	<u>Proposed</u>
Price Inflation	2.60%	2.60%
Productivity	<u>0.65%</u>	<u>0.65%</u>
General Wage Growth	3.25%	3.25%

- Payroll growth assumption is used solely to determine the amortization payment on Unfunded Actuarial Liability
 - Unfunded Actuarial Liability is amortized as a level percent of payroll
 - Depends upon membership growth and general wage growth
- Current assumption of 3.25% based on stable population and the general wage growth assumption
- **Recommend retaining the 3.25% assumption**



Assumption	Current	Recommended
Price inflation	2.60%	2.60%
Interest on Member Accounts	3.50%	3.50%
General wage growth	3.25%	3.25%
Payroll growth	3.25%	3.25%
Investment Return	7.00%	7.00%

Actuarial Methods



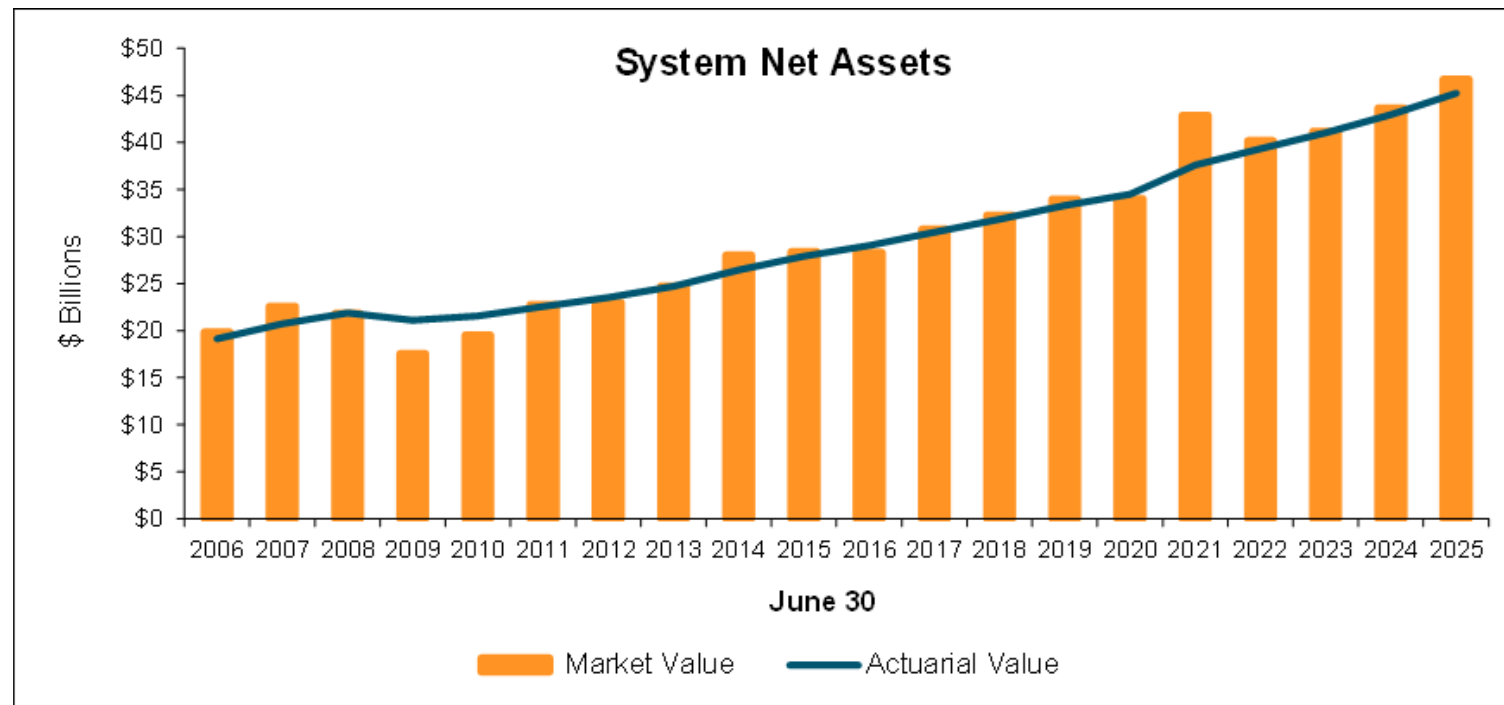
- **Current Method is Entry Age Normal (EAN)**
 - Most common cost method used by public plans
 - EAN develops a normal cost rate that is stable as a level percent of payroll
 - Required cost method for GASB 67/68 calculations

- **Recommendation: No Change**



Asset Smoothing Method

- Current Method is 75% Expected Value + 25% Actual Market Value (corridor of 80% - 120% of market value)
- Expected value = actuarial value of assets last year projected forward using assumed rate of return and actual contributions/benefit payments



- Current Method effectively smoothes market volatility as evidenced in graph on prior slide
- Quickly moves back toward actual market value when significant variations occur in actual returns, both positive and negative, over a relatively short period
- Meets actuarial standards of practice with the current corridor
- **Recommend retaining current method**



- **Unfunded Actuarial Liability (UAL)**
 - Actuarial Liabilities minus Actuarial Assets
 - UAL exists due to benefit improvements that have not been fully paid for, experience that is less favorable than expected, assumption changes and contributions if less than full actuarial rate
- Amortization policy determines the length of time and structure of the contributions required to systematically fund the UAL
- **Current Method**
 - Layered Amortization Bases
 - Amortization Period: UAL at 6/30/14 amortized over closed 30 Years (19 years remaining as of 6/30/25 valuation). New pieces of UAL amortized over 20 years.
 - Payment Methodology: Level Percent of Payroll
- **Recommend retaining current method**

- Current statutes provide for FED transfers when the plan is fully funded. Experience gains are transferred to the FED Reserve and cannot be transferred back.
- Supplemental Accounts for Active Members (SAAM) is a related provision that redirects a portion of contributions to member accounts when fully funded.
- These provisions were designed at a time when contributions rates were set in statute and did not adjust with funding needs.

- The potential liability from the FED and SAAM are not reflected in the most recent valuation
- IPERS Contribution Rate Funding Policy states:

For the purposes and only for the purposes of calculating potential transfers to the favorable experience dividend reserve account and to each member's supplemental account the term "fully funded" as specified in the relevant Iowa code and Administrative rules shall mean:

The funding percentage, which shall not be less than 100 percent, determined by the system's actuary at which calculated transfers to the favorable experience dividend reserve account and to the member's supplemental accounts will not result in a material probability that the System will fall below 100 percent funded.

- We believe it is reasonable to continue not valuing the FED and SAAM in the funding valuation
- **Recommend the Board work with the Legislature to more directly address the issues related to the FED and SAAM**

Demographic Assumptions

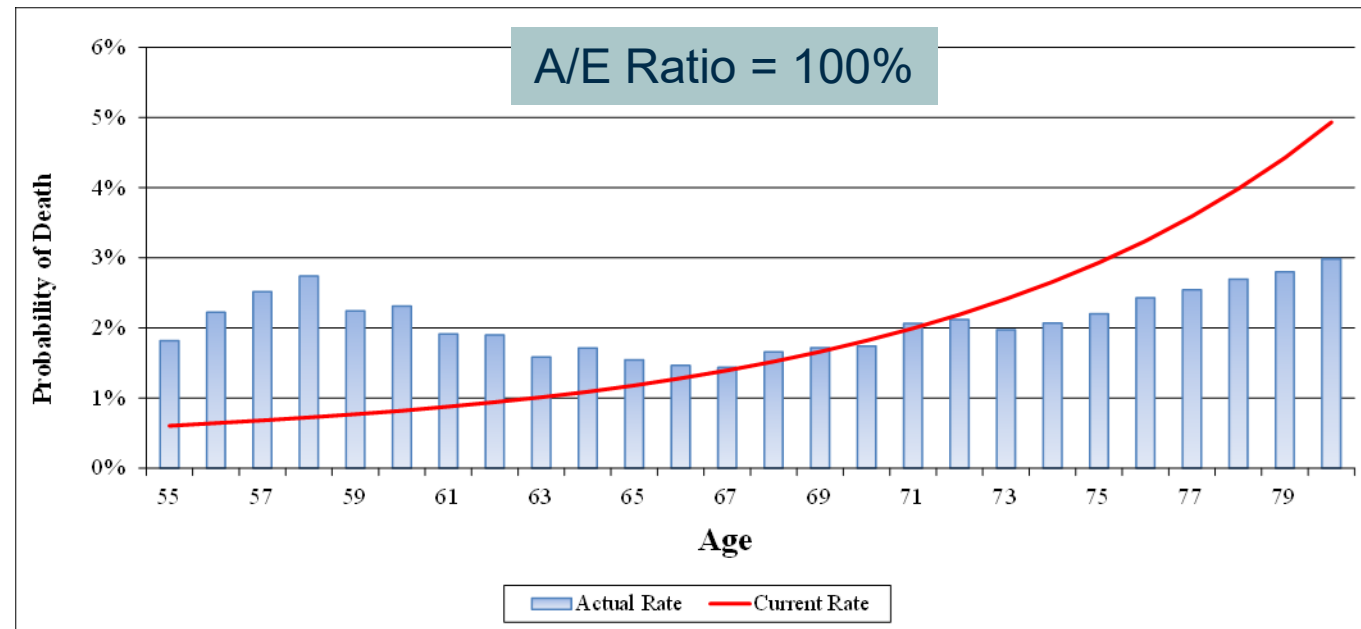


- Studies what happened to individual members
 - Mortality
 - Retirement
 - Disability
 - Termination of employment
 - Probability of electing a deferred vested benefit
 - Merit salary scale



- Compare what actually happened to individual members with what was expected to happen based on the actuarial assumptions
- Credibility – amount of weight assigned to the recent experience
 - Length of study period
 - Unusual events during study period (Covid for example)
 - Size of the group
- Key evaluation tool is actual decrements/expected decrements (called A/E ratio)
 - Decrement is a change in a member's status during the study period (e.g., retirement, termination, death)

- Generally, the closer A/E ratio is to 100%, the better the current assumption anticipated the experience
- Even if overall A/E ratio is close to 100%, pattern of the actual experience may vary significantly from the assumption, indicating a need for change

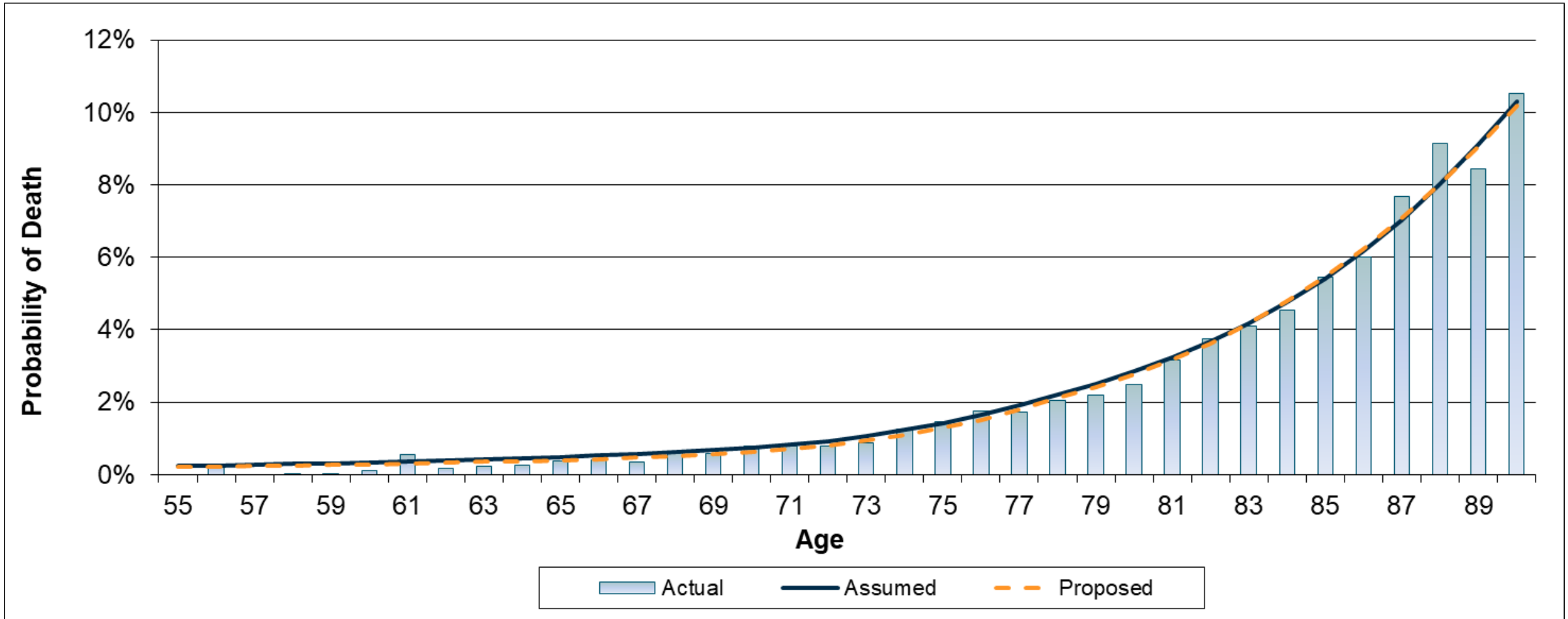


- When appropriate, we considered experience in the prior study period
- Experience studied separately for School, State and Other groups for Regular membership
- Aggregated Special Service groups when practical to improve credibility of results

- Critical assumption from a cost perspective because it anticipates the duration of benefit payments
 - If people live longer, benefits are paid longer, and it increases the liabilities and costs of the system
- Our focus is on mortality at key retirement ages (55-90), not life expectancy at birth
- May adjust tables in order to better fit the actual experience
 - Age setback or set forward
 - Benefit size (Below or Above Median)
 - Scaling factors

- New set of public plan mortality tables published in 2025 (Pub-2016 tables)
- Our recommendation is to move to the newest family of mortality tables
- Recommendation for Retiree Mortality Tables:
 - Regular Membership
 - Pub-2016 General Members Median Healthy Retiree Mortality Table
 - Various age adjustments and scaling before and after age 75 by group
 - Special Services
 - Pub-2016 Safety Median Healthy Retiree Mortality Table, set forward 3 years for males and set forward 2 years for females
- Future mortality improvements projected using Scale MP-2021 (most recent)

School Female Mortality



Current Assumption A/E Ratio: 94%
Proposed Assumption A/E Ratio : 100%

	A/E Ratios (weighted)	
	Current	Proposed
State		
Male	87%	98%
Female	92%	101%
School		
Male	98%	101%
Female	94%	100%
Other		
Male	86%	100%
Female	102%	100%
Special Services Males	90%	96%

- Our recommendation is to use the same Pub-2016 family of mortality tables and mortality improvement scale for Actives, Disabled and Beneficiaries
- **Recommendation for Active Base Table:**
 - Regular Members: General Members Employees Table, using same age adjustments for males and females as the retiree table and no scaling adjustments, projected generationally using Scale MP-2021
 - Special Services: Safety Members Employees Table, using same age adjustments for males and females as the retiree table, projected generationally using Scale MP-2021
- **Recommendation for Disabled Base Table:**
 - Regular Members: Non-Safety Members Disabled Table, using same age adjustments for males and females as the retiree table and no scaling adjustments, projected generationally using Scale MP-2021
 - Special Services: Safety Members Disabled Table, using same age adjustments for males and females as the retiree table, projected generationally using Scale MP-2021
- **Recommendation for Beneficiary Base Table:**
 - Regular Members: General Members Median Contingent Survivor Mortality Table, using same age adjustments for males and females as the retiree table and no scaling adjustments, projected generationally using Scale MP-2021
 - Special Services: Safety Members Median Contingent Survivor Mortality Table, using same age adjustments for males and females as the retiree table, projected generationally using Scale MP-2021

- Anticipates retirement directly from active status
- Type of retirement analyzed separately and by group
 - Early (reduced benefit)
 - Normal retirement (unreduced benefits) at either age 65, age 62 and 20 YOS or Rule of 88 (age + service ≥ 88)
 - Select (First Eligible)
 - Ultimate

	<u>A/E Ratio</u>	
	Count	Weighted
State		
Early	48%	60%
Select	104%	111%
Ultimate	101%	111%
Total	86%	94%
School		
Early	35%	52%
Select	79%	97%
Ultimate	71%	112%
Total	61%	98%
Other		
Early	40%	52%
Select	68%	93%
Ultimate	73%	105%
Total	63%	92%
Sheriffs and Deputies Protection Occupation	82%	87%
	78%	117%

- Count and weighted experience are different (other than State and Sheriffs/Deputies), consistent with past experience
- Covid-19 pandemic likely had an impact on retirement behavior during the early part of the study period
 - Did not significantly diminish the credibility of the data
- Recommend moving part of the way toward the observed experience

Proposed Retirement Rates

	<u>A/E Ratio (Weighted)</u>	
	Current	Proposed
State		
Early	60%	79%
Select	111%	105%
Ultimate	111%	104%
Total	94%	93%
School		
Early	52%	84%
Select	97%	97%
Ultimate	112%	106%
Total	98%	101%
Other		
Early	52%	82%
Select	93%	99%
Ultimate	103%	100%
Total	92%	97%
Sheriffs and Deputies	87%	89%
Protection Occupation	117%	104%

	A/E Ratios	
	Current	Proposed
Regular Members		
Male	36%	45%
Female	40%	50%
Special Service	69%	76%

- Number of occurrences is small, so credibility is limited
- Results are similar to the last three studies despite lowering of disability rates
- Recommend decreasing Regular Member rates by 20% and Special Service Members by 10%
- Recommend decreasing Special Service duty disabilities from 67% to 50%

Regular Membership

- Count and liability-weighted experience continue to differ, indicating lower-paid employees turn over more
- State rates up this study, reversing a downward trend
- Recommend some adjustments to the assumptions
- Observed A/E ratios:

	Male		Female	
	Count	Weighted	Count	Weighted
State	115%	116%	114%	115%
School	147%	110%	157%	119%
Other	111%	83%	111%	83%

Regular Membership

- Proposed Rates – Weighted A/E Ratios

	Male		Female	
	Current	Proposed	Current	Proposed
State	116%	105%	115%	109%
School	110%	105%	119%	109%
Other	83%	91%	83%	89%

Special Service Membership

- Separate assumptions for Sheriffs/Deputies and Protection Occupations membership groups
- Some adjustments recommended to Sheriffs/Deputies
- Sheriffs/deputies – A/E ratio moves from 165% to 133%
- Protection Occupations – A/E ratio remains at 107%

- Anticipates probability an active member is vested, terminates and elects a deferred vested benefit in future
- Recommend minor adjustments to more partway to observed experience
- A/E ratio (liability-weighted)

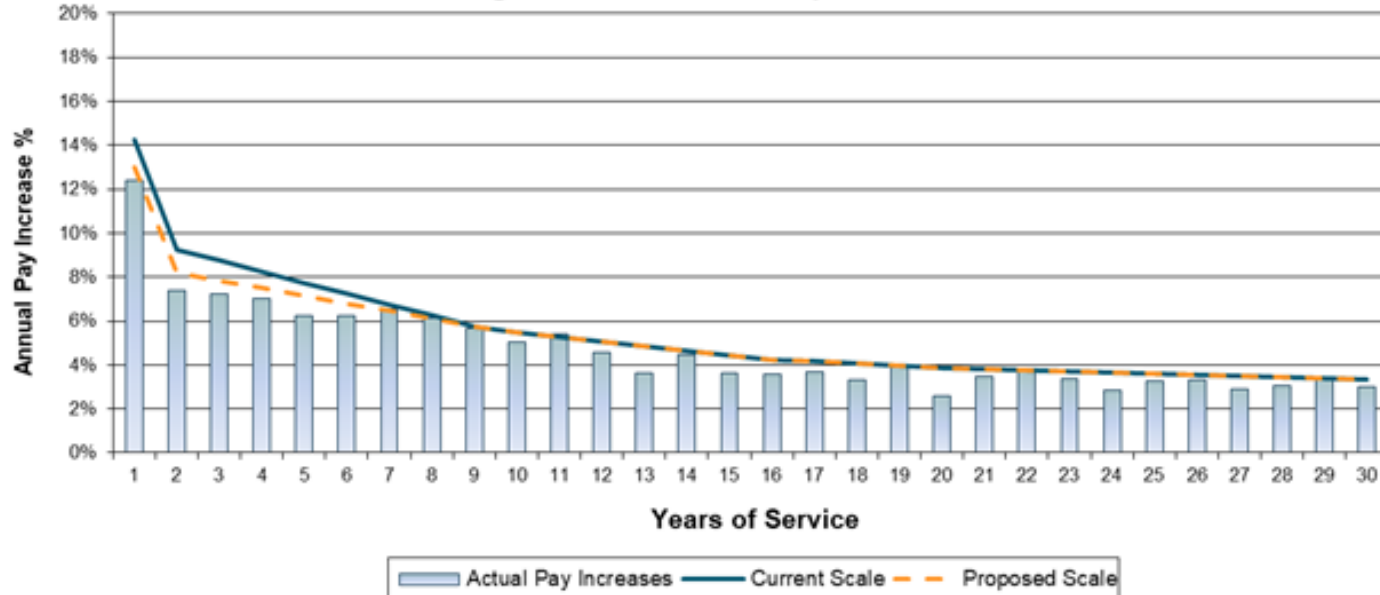
	Male		Female	
	Current	Proposed	Current	Proposed
State	109%	102%	110%	105%
School	101%	101%	104%	102%
Other	108%	104%	111%	105%
Special Service	93%	94%	(combined with male)	

- Two components:
 - Merit (promotion/longevity)
 - General wage increase (inflation plus productivity).
 - Previously discussed
- Current assumption is service based
- Difficult to separate merit and general wage increase, so studied total salary increase during the study period

Salary Experience

Fiscal Year	State	School	Other	Special Services
2022	3.77%	5.02%	6.71%	7.00%
2023	8.20%	5.74%	8.38%	10.24%
2024	2.86%	5.30%	6.24%	6.13%
2025	5.97%	5.90%	6.59%	6.51%
2022-25	5.18%	5.50%	6.95%	7.40%
Expected	5.95%	5.03%	5.74%	5.86%

Regular Membership - State

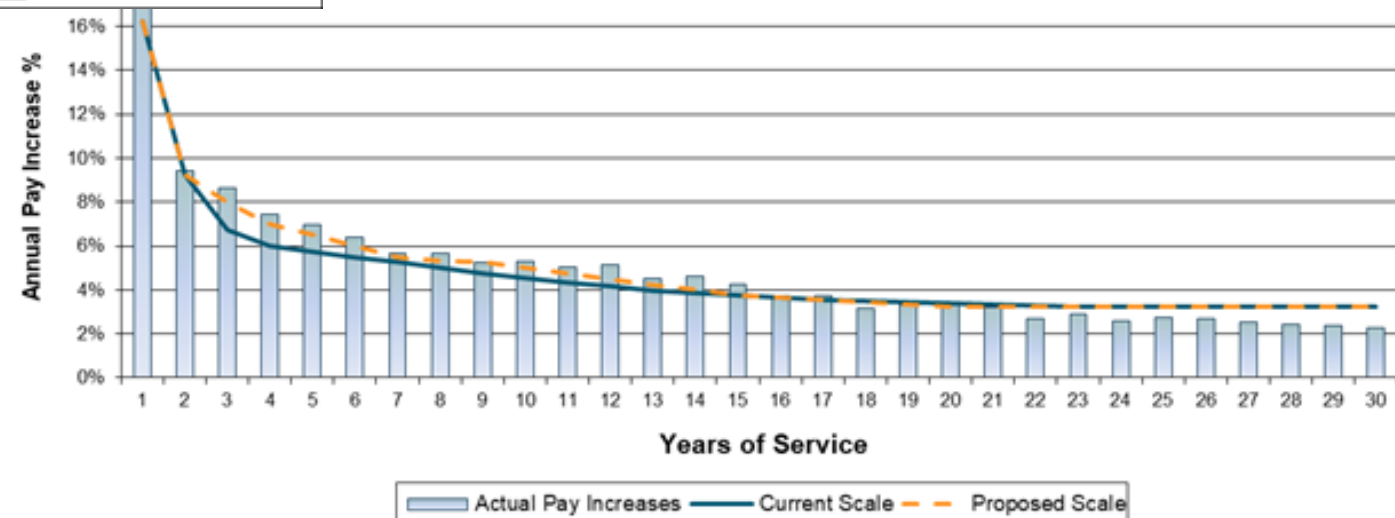


State

Current Assumption A/E Ratio: 87%

Proposed Assumption A/E Ratio: 91%

Regular Membership - Schools

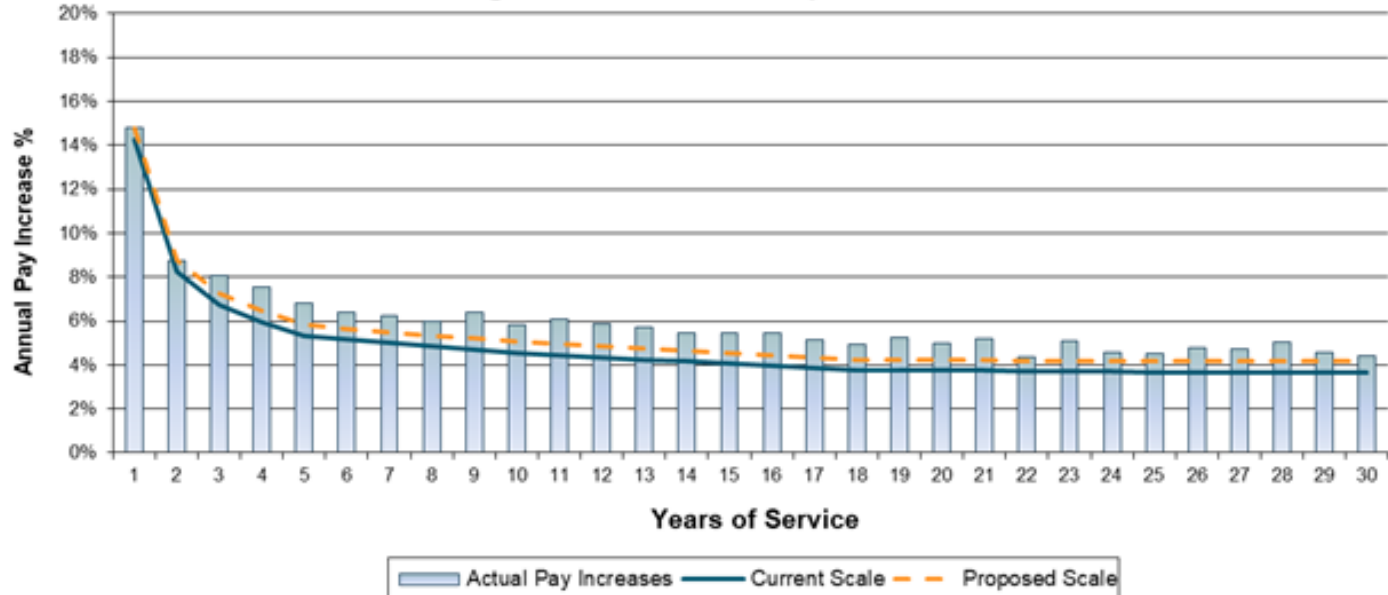


Schools

Current Assumption A/E Ratio: 109%

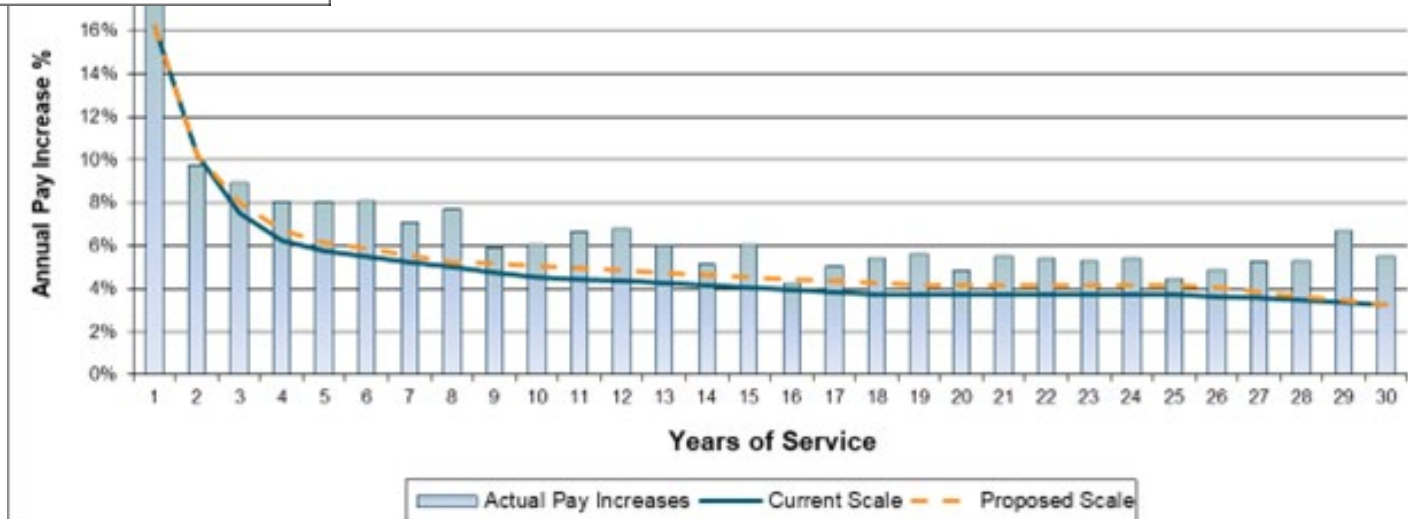
Proposed Assumption A/E Ratio : 105%

Regular Membership - Other



Other
 Current Assumption A/E Ratio: 121%
 Proposed Assumption A/E Ratio: 111%

Special Service Membership



Special Service
 Current Assumption A/E Ratio: 126%
 Proposed Assumption A/E Ratio : 119%

- Our philosophy is to move incrementally, especially with Covid-19 pandemic lingering effects
- Continue to modify and refine assumptions, as needed in the future
- Regular experience studies provide assurance that changes will be made in a timely manner
- Consider FED/SAAM Legislative changes



- At retirement, members can elect the form of their retirement benefit, e.g., single life, joint and survivor, certain and life.
- Optional form factors are used to convert the formula benefit to another form of payment
- Optional form factors are “actuarial equivalent” which is based on an investment return and mortality assumption
- If mortality is changed, we recommend that the optional form factors be updated when administratively feasible

	Current	Proposed
Regular Members		
Actuarial Liability	\$45,527M	\$45,764M
Normal Cost	10.63%	11.03%
Sheriffs and Deputies		
Actuarial Liability	\$1,150M	\$1,165M
Normal Cost	20.10%	20.84%
Protection Occupation		
Actuarial Liability	\$2,386M	\$2,434M
Normal Cost	15.42%	16.45%

Note: Based on June 30, 2025 Actuarial Valuation. The impact, as a percentage, on the June 30, 2026 actuarial valuation results is expected to be similar, but the dollar amount will be different.

	<u>Current</u>	<u>Proposed</u>
Regular Members	13.10%	13.69%
Sheriffs and Deputies	24.42%	25.82%
Protection Occupation	15.42%	16.45%

Note: Based on June 30, 2025 Actuarial Valuation.

We, Patrice A. Beckham, FSA, Brent A. Banister, FSA, and Bryan K. Hoge, FSA, are consulting actuaries with CavMac. We are members of the American Academy of Actuaries, Enrolled Actuaries and the Society of Actuaries. We meet the Qualification Standards of the American Academy of Actuaries to render the actuarial opinion contained herein. We are available to answer any questions or provide additional information as needed.

Sincerely,



Patrice A. Beckham, FSA, EA, FCA, MAAA
Consulting Actuary



Brent A. Banister, PhD, FSA, EA, FCA, MAAA
Chief Actuary



Bryan K. Hoge, FSA, EA, FCA, MAAA
Principal and Consulting Actuary

THANK
YOU



Private Markets Program – Annual Review

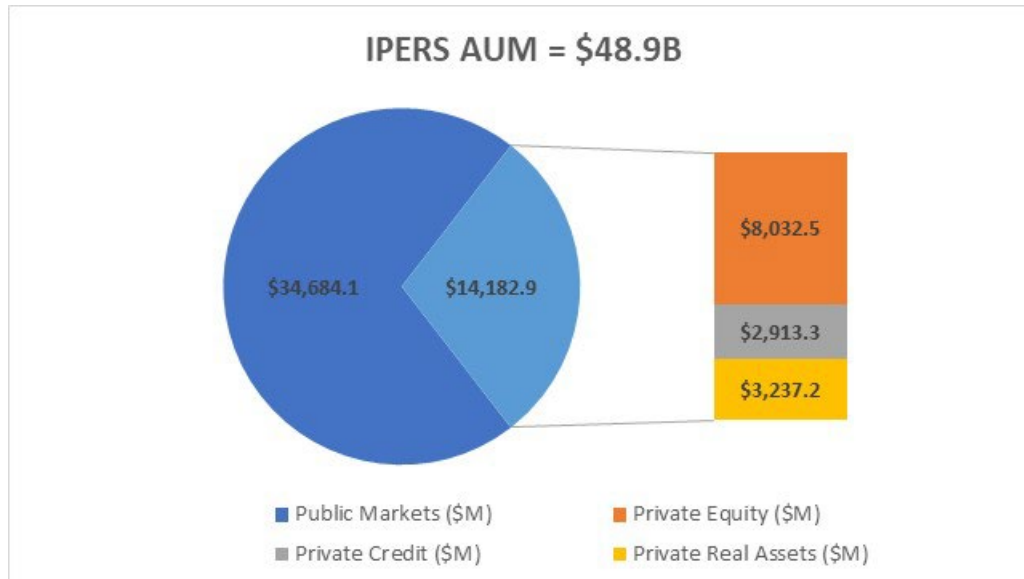
IPERS Investment Board

Private Market Team: Marcus Dong, Craig Payne, Pat Reinhardt

June 18, 2026



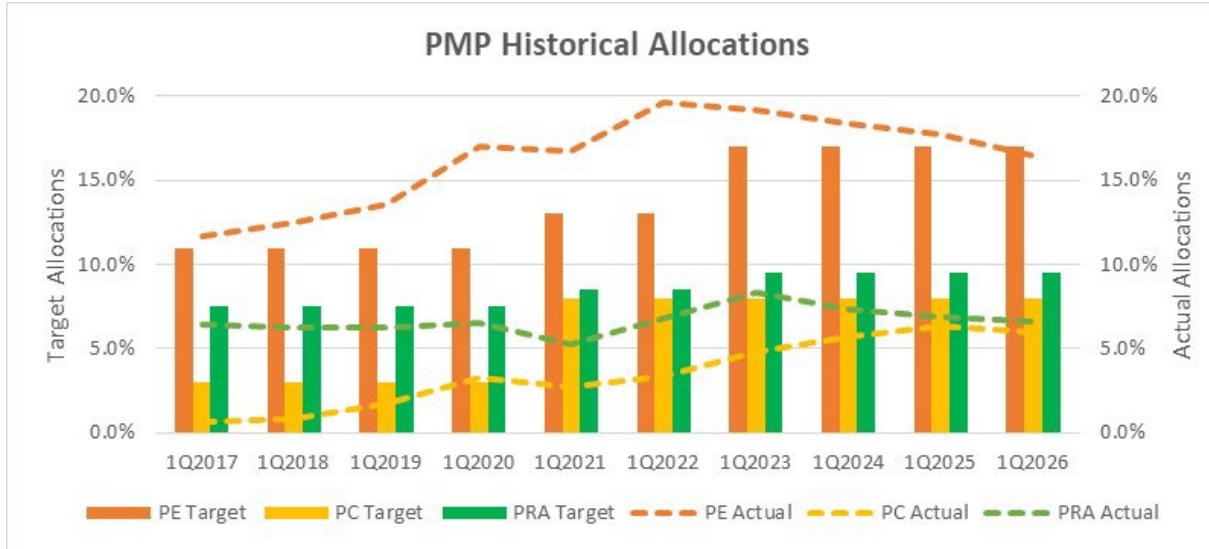
Private Market Program *(as of 3/31/26)*



* Data sourced from Wilshire

- On a dollar basis, the private market program increased from \$13.8 billion to \$14.2 billion
- Over the last year, public markets outpaced private markets. As a percent of the total fund, private market asset classes lost ground versus their target allocations:
 - Private Equity down from 17.7% to 16.4%
 - Private Credit down from 6.4% to 6.0%
 - Private Real Assets down from 6.9% to 6.6%

Private Market Program (as of 3/31/26)



* Data sourced from Wilshire

Private Market Allocation Sensitivity Analysis

Asset Class (Target)	Public Market Corrections				
	Current	-5.0%	-10.0%	-15.0%	-20.0%
Private Equity (17.0%)	16.4%	17.0%	17.7%	18.4%	19.2%
Private Credit (8.0%)	6.0%	6.2%	6.4%	6.7%	6.9%
Private Real Assets (9.5%)	6.6%	6.9%	7.1%	7.4%	7.7%

NOTE: Sensitivity analysis shows the increase in private market allocations through various public market corrections. The analysis assumes no change in private market valuations through the corrections.

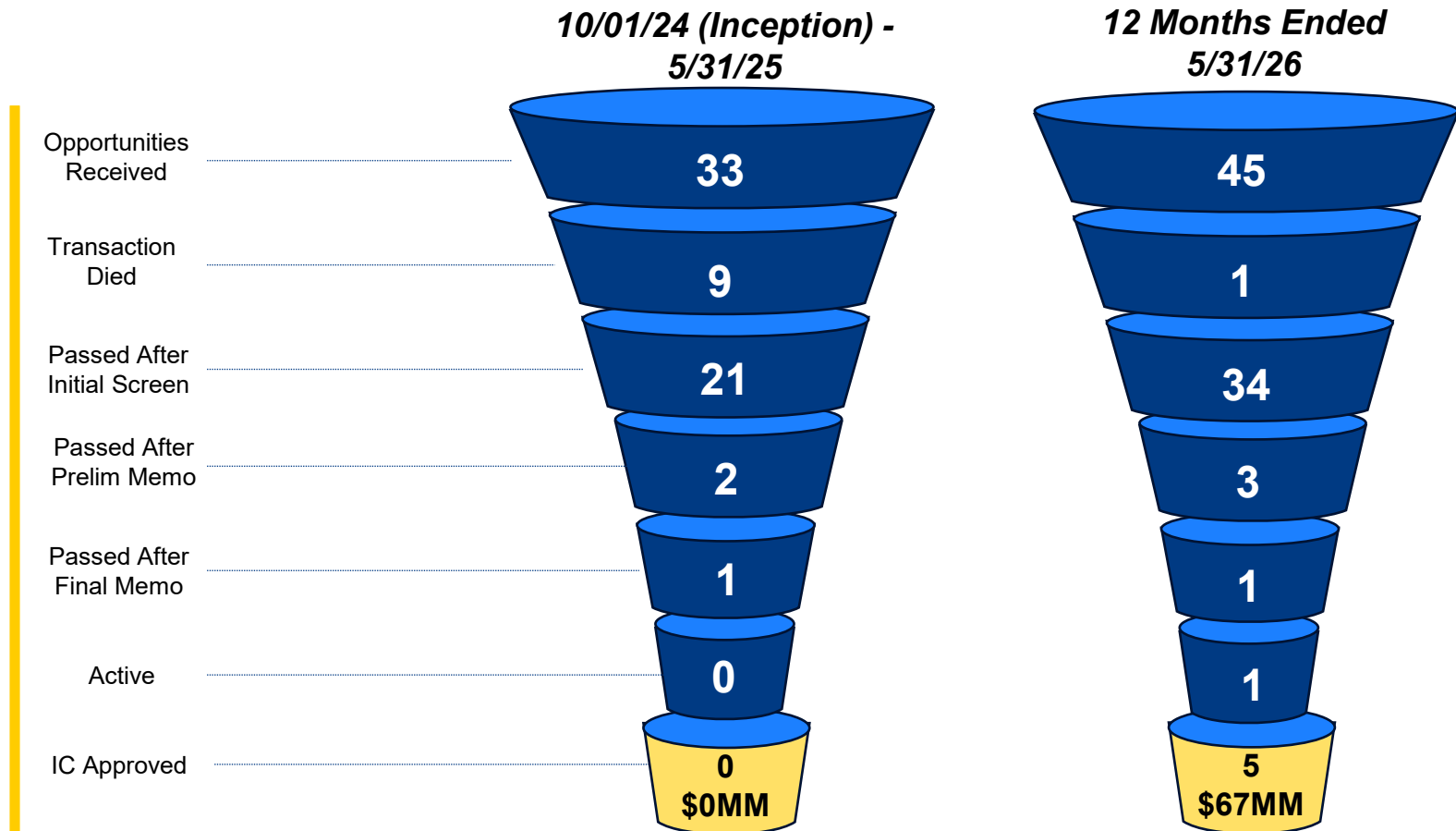
2026 Investment Plan and Progress (\$m; as of 5/31/26)

	Planned
Commitments	\$2,025
Target Size by Portfolio	Private Equity \$700; Private Credit \$450; Private Real Assets \$625; Internal Co-Investments \$250

Actual Commitments to Date and Potential Near-Term Commitments

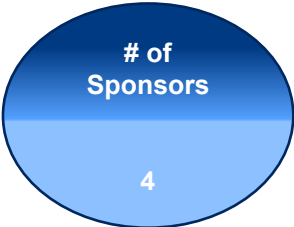
Portfolio	2026 Investment Plan	Commitments to Date	Uncommitted Capital	Commitment Status
Private Equity	\$700	\$464.8	\$235.2	On Pace
Private Credit	\$450	\$0	\$450	On Hold
Private Real Assets	\$625	\$265.3	\$359.7	On Pace
Internal Co-Investments	\$250	\$32.1	\$217.9	Selective
Total	\$2,025	\$762.2	\$1,262.8	

Co-Investments – Deal Flow Statistics

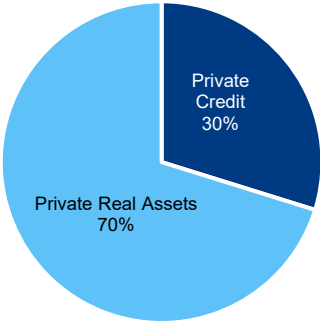


- A busy past 12 months
- Deal flow stronger in Real Assets, with Private Credit held back by slow M&A market
- Staff remains highly selective: Return / Risk, Deal Structures, Track Record, Timing

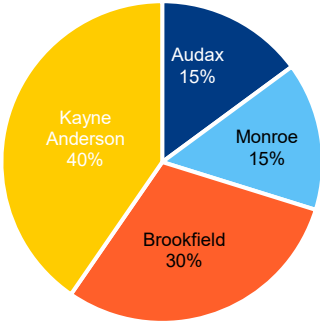
Co-Investment Portfolio *(as of 3/31/26)*



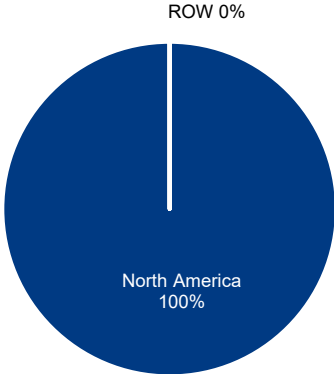
Asset Class



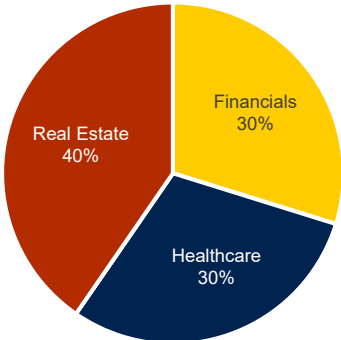
Sponsors



Geographic



Sector



Updates and Priorities

PRIVATE EQUITY

- Distributions > Contributions; Balanced Investment Pace

PRIVATE CREDIT

- Monitor Firm Acquisitions; Selective Allocations

PRIVATE REAL ASSETS

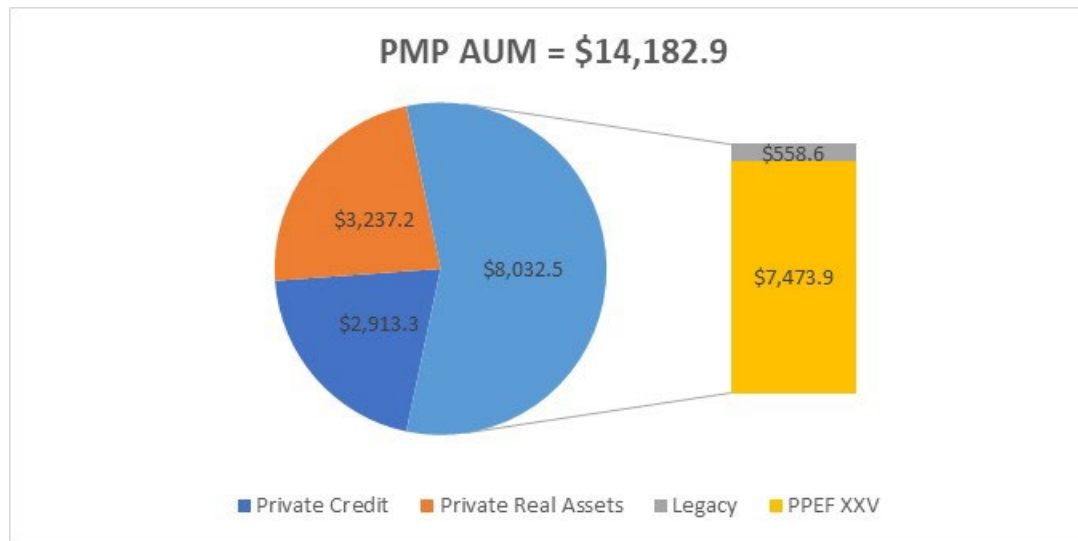
- Core Real Estate Mandates; Infrastructure Equity Search
- Portfolio Construction; Manage Liquidations
- In-House vs Third-Party Leverage

CO-INVESTMENTS

- Initial Investments Made; Sourcing and Monitoring

Private Equity Portfolio Review

Private Equity Portfolio Structure *(in \$m; as of 3/31/26)*



- The PE portfolio actual allocation of 16.4% is slightly below the 17.0% long-term target
 - The Legacy portfolio is anticipated to be fully liquidated by 2028-29
- Investment type allocations remain within limits:
 - Primaries – 78% (*100% limit*)
 - Co-Investments – 15% (*20% limit*)
 - Secondaries – 6% (*15% limit*)

Private Equity Performance & Evaluation *(as of 3/31/26)*

IRR Performance*

	<u>1-Yr</u>	<u>5-Yr</u>	<u>10-Yr</u>	<u>Inception (3Q85)</u>
Private Equity Portfolio	10.9%	10.4%	16.1%	14.3%
Program Objective**	22.2%	14.5%	17.6%	15.0%
Excess Returns	-11.3%	-4.1%	-1.5%	-0.7%

- While longer-term PE portfolio performance has been slightly below the Program Objective, short- and medium-term performance has meaningfully lagged the rapid rise in the public markets – rising interest rates have restricted transaction volumes
- As background, Staff evaluates private asset managers using a range of strategy-specific private benchmarks to assess value relative to both the broader PE market and passive public indexing – for example:
 - Pitchbook vintage year funds – peer benchmarking
 - MSCI Burgiss vintage year funds – peer benchmarking
 - Public Market Equivalent – passive public indexing equivalent

*All calculations are based on final partnership valuations through 12/31/2025 and cash activity through 3/31/26

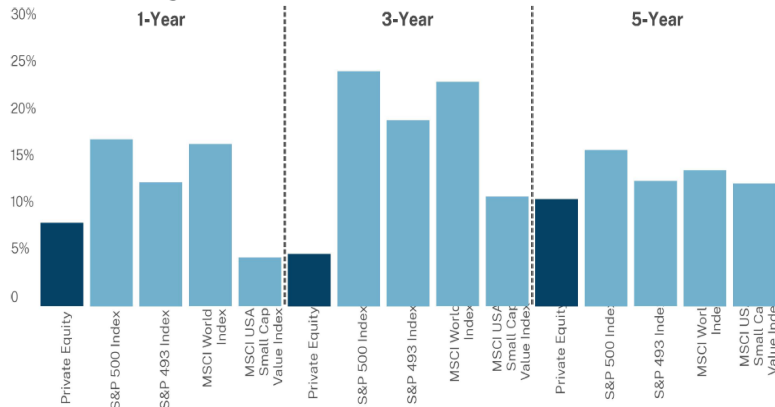
**Program Objective is currently Russell 3000 + 300 bps

Private Equity Performance & Evaluation

- The Private Equity industry - trailed the public markets recently:
 - Heightened interest rates
 - Lack of market liquidity
 - Geopolitical factors

1, 3 & 5-Year Private Equity Performance

Annualized Time-Weighted Returns as of 9/30/2025

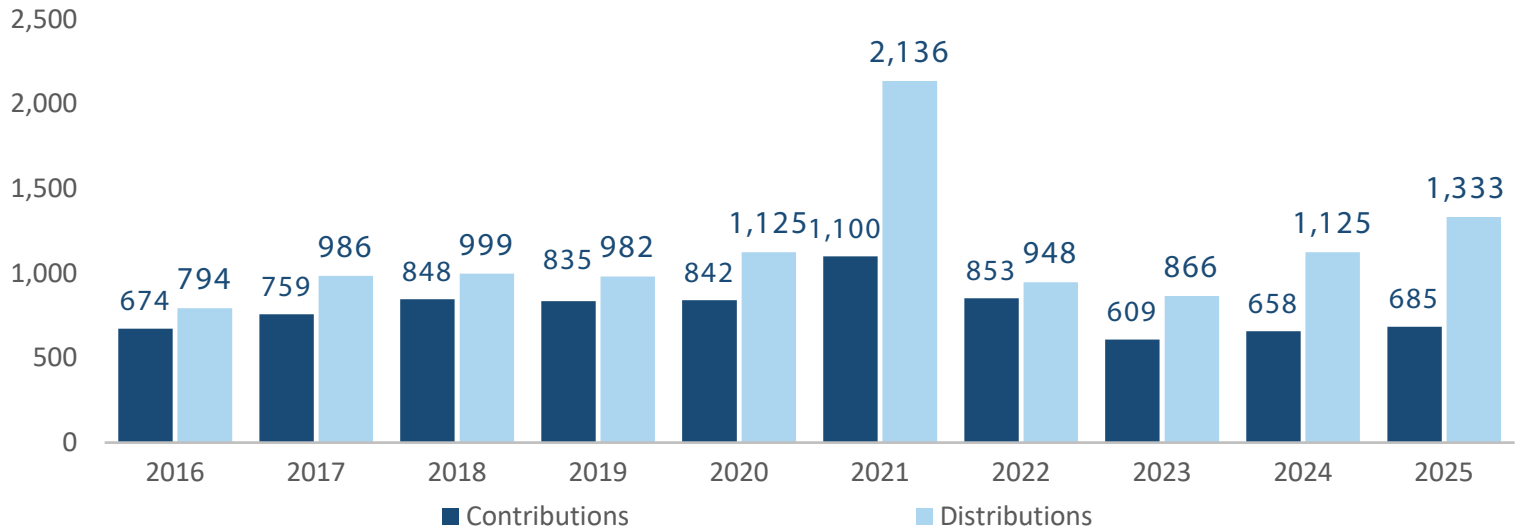
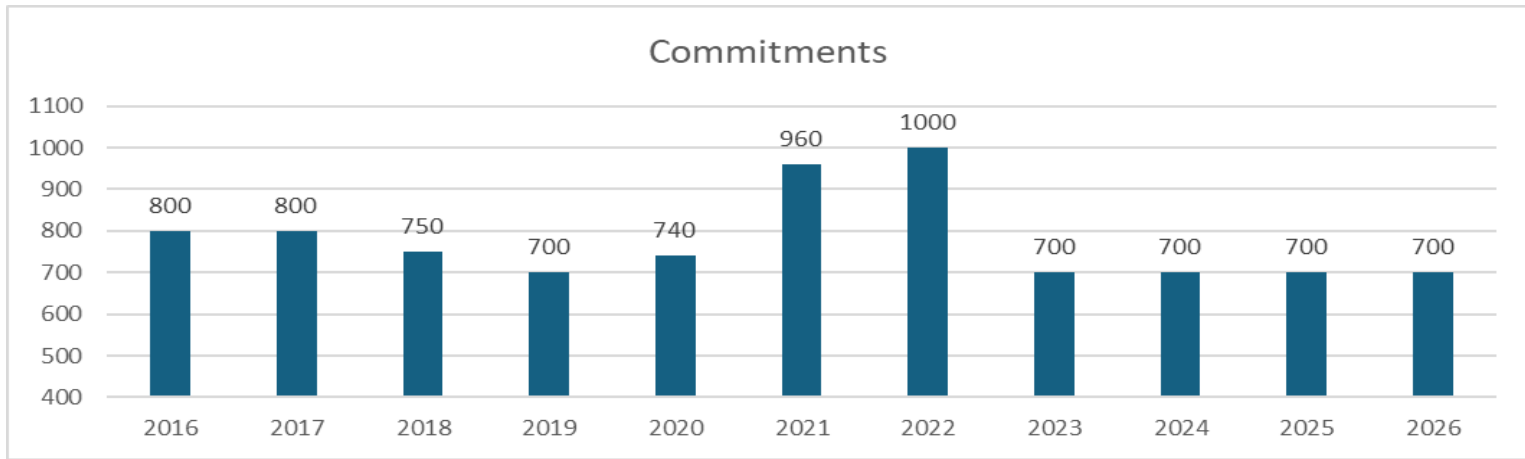


All Private Equity 10-Year Rolling TWRs



*Source – Hamilton Lane, [Private Markets Performance](#)

Commitments & Investment Activity (\$m)



Private Equity Performance Evaluation *(as of 3/31/26)*

- IPERS is now able to evaluate Private Equity portfolio performance using subscription-based market data, such as Pitchbook
- This enables IPERS to be precise in completing performance attribution analysis across multiple criteria, including investment strategy, vintage year, and investment pacing

Buyouts - Medium						
Pitchbook Benchmark IRR						
Vintage Year	IPERS IRR	Top Quartile	Median	Bottom Quartile	N	IPERS Quartile
2015	17.8%	24.5%	17.7%	12.1%	16	2nd
2016	23.7%	19.3%	15.7%	12.0%	33	1st
2017	17.1%	22.7%	16.4%	12.2%	38	2nd
2018	23.1%	22.0%	13.2%	9.5%	36	1st
2019	20.0%	21.7%	15.7%	12.4%	59	2nd
2020	11.9%	17.9%	12.2%	8.8%	62	3rd
2021	14.6%	15.1%	11.6%	5.3%	83	2nd
2022	11.0%	15.9%	11.9%	7.8%	53	3rd
2023	14.0%	22.8%	15.1%	6.3%	38	3rd
2024	40.2%	33.3%	13.1%	5.7%	49	1st


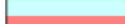

Buyouts - Large						
Pitchbook Benchmark IRR						
Vintage Year	IPERS IRR	Top Quartile	Median	Bottom Quartile	N	IPERS Quartile
2015	19.7%	16.0%	12.8%	12.0%	8	1st
2016	13.3%	20.7%	15.2%	11.4%	9	3rd
2017	0.0%	19.5%	18.8%	18.4%	9	NA
2018	19.9%	13.9%	13.2%	9.0%	6	1st
2019	12.8%	15.0%	12.7%	11.6%	12	2nd
2020	12.8%	15.6%	11.0%	9.9%	13	2nd
2021	13.7%	14.0%	10.1%	5.0%	17	2nd
2022	13.0%	14.4%	11.9%	8.7%	14	2nd
2023	16.7%	20.5%	17.2%	7.4%	10	3rd
2024	26.7%	23.8%	8.9%	2.1%	13	1st

Private Equity Performance Evaluation *(as of 12/31/25)*

- IPERS is also able to evaluate Private Equity portfolio performance using MSCI Burgiss
 - The data below support the view that the PE portfolio is performing on par with the broader PE market

IPERS PRIVATE EQUITY PORTFOLIO
Vintage Year Analysis as of Dec. 31, 2025

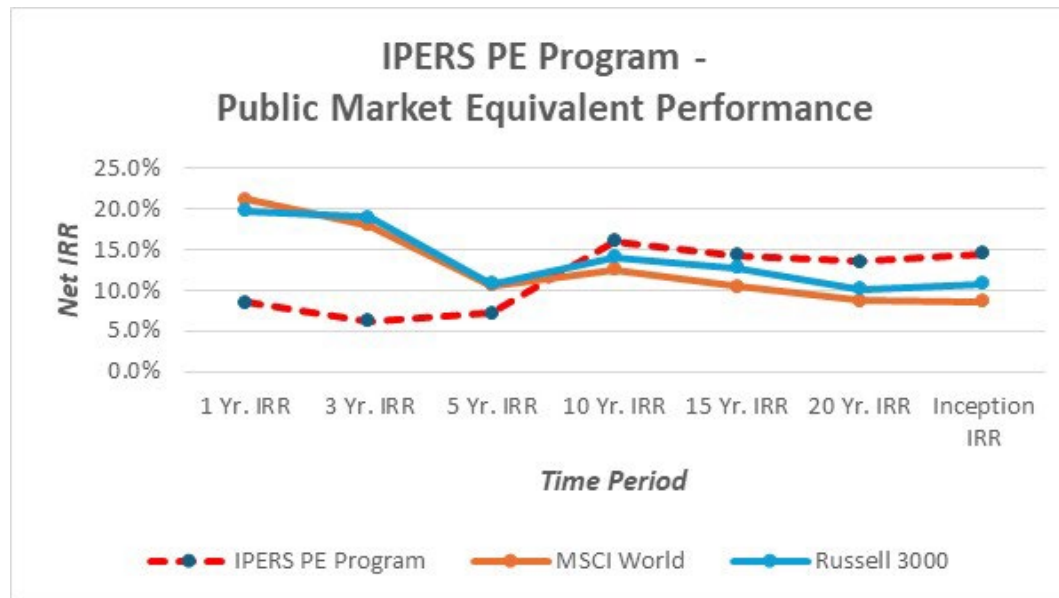
VINTAGE YEAR	CAPITAL COMMITTED*	PAID-IN CAPITAL	VALUE DISTRIBUTED	UNREALIZED VALUE	GAIN/ (LOSS)	IPERS' SINCE INCEPTION IRR	MSCI LOWER QUANTILE IRR	MSCI MEDIAN IRR	MSCI TOP QUANTILE IRR	IPERS' TVPI *	MSCI MEDIAN TVPI *	MSCI TOP QUANTILE TVPI *	IPERS' DPI **	MSCI MEDIAN DPI **	MSCI TOP QUANTILE DPI **
2006	901,431,547	935,598,719	1,502,937,469	4,708,155	572,046,904	8.66%	-1.28%	5.45%	11.57%	1.61	1.38	1.80	1.61	1.34	1.74
2007	668,363,995	745,599,377	1,206,871,018	39,309,327	500,580,968	11.32%	1.19%	8.45%	13.54%	1.67	1.48	2.03	1.62	1.44	1.94
2008	610,337,234	609,669,197	1,054,717,253	15,958,892	461,006,949	12.28%	1.79%	8.25%	14.35%	1.76	1.45	1.82	1.73	1.40	1.73
2009	105,292,500	104,427,058	223,305,066	8,453,412	127,331,420	15.98%	5.54%	12.64%	21.44%	2.22	1.67	2.38	2.14	1.60	2.19
2010	195,176,827	194,902,476	434,135,223	10,857,940	250,090,687	15.17%	5.18%	10.87%	19.01%	2.28	1.55	2.19	2.23	1.51	1.99
2011	399,952,129	439,625,169	832,144,019	81,936,386	474,455,237	15.30%	5.35%	12.18%	20.13%	2.08	1.75	2.29	1.89	1.57	2.09
2012	406,623,236	391,588,405	716,211,033	143,861,178	468,483,806	17.81%	4.47%	10.40%	17.81%	2.20	1.64	2.35	1.83	1.45	1.83
2013	437,876,172	462,508,833	832,795,132	175,708,477	545,994,776	15.40%	5.24%	10.80%	17.83%	2.18	1.61	2.21	1.80	1.34	1.80
2014	849,890,758	874,321,478	1,712,490,353	293,755,207	1,131,924,082	17.98%	5.83%	11.75%	20.09%	2.29	1.71	2.52	1.96	1.30	1.89
2015	732,369,018	806,817,683	1,170,810,709	472,960,213	836,953,239	15.71%	6.79%	12.37%	17.88%	2.04	1.75	2.35	1.45	1.10	1.49
2016	774,405,140	790,681,140	1,248,208,174	621,058,171	1,078,585,205	20.86%	6.97%	13.04%	20.33%	2.36	1.73	2.29	1.58	1.01	1.53
2017	586,249,904	620,513,439	758,199,967	509,055,236	646,741,764	17.44%	6.83%	13.66%	20.99%	2.04	1.71	2.22	1.22	0.91	1.35
2018	774,844,211	766,336,410	800,921,916	819,547,861	854,133,366	18.38%	7.01%	12.29%	18.56%	2.11	1.59	1.99	1.05	0.57	0.98
2019	849,670,967	826,634,767	645,833,829	905,854,385	725,053,447	17.78%	5.50%	10.03%	16.19%	1.88	1.41	1.72	0.78	0.34	0.70
2020	746,850,854	744,069,440	262,684,485	876,335,446	394,950,491	11.68%	4.41%	9.61%	15.42%	1.53	1.35	1.59	0.35	0.14	0.45
2021	1,207,805,902	1,102,146,391	185,825,172	1,295,636,056	379,314,837	9.90%	2.43%	8.43%	14.88%	1.34	1.24	1.45	0.17	0.05	0.26
2022	570,749,934	441,395,861	51,608,724	570,108,842	180,321,705	14.36%	0.96%	9.05%	16.94%	1.41	1.18	1.34	0.12	0.00	0.11
2023	544,961,322	392,699,099	21,802,894	498,548,412	127,652,206	16.79%	-0.17%	10.29%	21.24%	1.33	1.13	1.30	0.06	0.00	0.07
2024	680,432,053	358,354,529	18,579,772	457,737,283	117,962,527	27.55%	-11.39%	7.42%	22.56%	1.33	1.06	1.21	0.05	0.00	0.01
2025	846,106,054	296,048,574	4,121,505	316,425,955	24,498,886	18.12%	-19.29%	-2.66%	11.79%	1.08	0.98	1.09	0.01	0.00	0.00
Totals:	12,889,389,757	11,903,938,046	13,684,203,714	8,117,816,835	9,898,082,503										

KEY:	Meets or exceeds Top Quartile:	
	Between Median and Top Quartile:	
	Below Median:	

NOTES: Amounts may not foot due to rounding. NA – Not applicable. Benchmarks for vintage years 2006-2025 based on MSCI Private Capital (formerly Burgiss Private i) global all private equity returns, as of December 31, 2025, as produced using MSCI data.
 *Commitments to non-USD-denominated investments are accounted for by multiplying unfunded commitments by the quarter-ending exchange rate, then adding the result to cumulative capital contributions, causing commitments to non-USD-denominated partnerships to fluctuate quarterly.
 ** TVPI is (Value Distributed + Unrealized Value) divided by Paid-In Capital.
 *** DPI is Value Distributed divided by Paid-In Capital.
 NOTES: Performance is based on underlying partnership market values updated through December 31, 2025, which are preliminary and therefore subject to change.
 Data for vintage years 2022-2025 should be interpreted with caution. It is too early to make meaningful conclusions for such recent investments.
 Table does not include any 2026-2027 vintage year funds to which commitments had been made but not funded as of 12/31/25.
 Total includes 2006-2025 vintage year funds.

Private Equity Performance & Evaluation *(as of 3/31/26)*

- Beyond standalone performance evaluation, IPERS evaluates the performance of its Private Equity portfolio relative to public market equivalent investments to assess value contribution

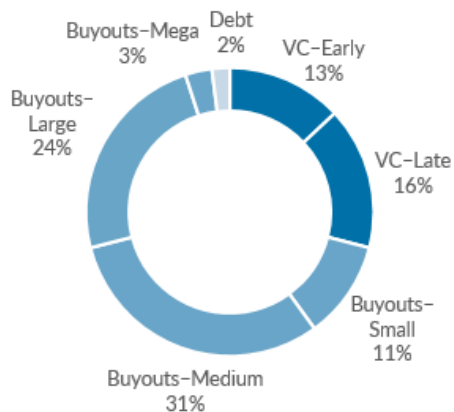


**Source – Pathway Capital's Online Management System (POMS)*

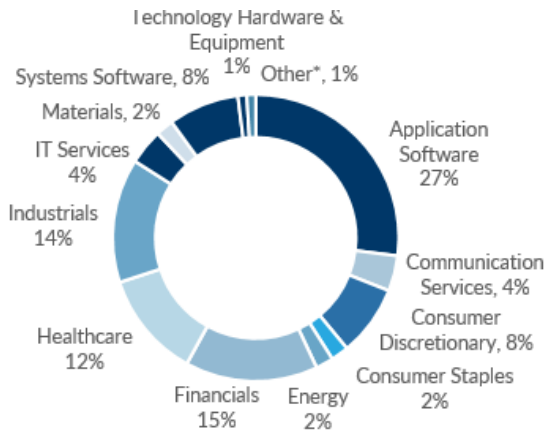
Private Equity Portfolio¹



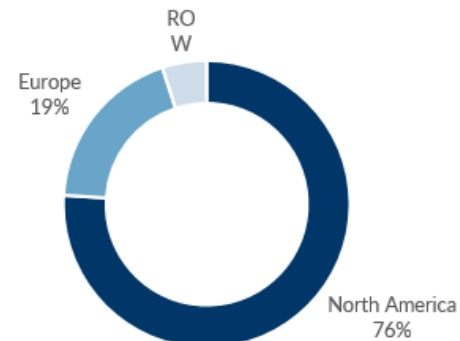
Strategy²



Sector²



Geography²



¹ Data sourced from Pathway. Summary data is since the inception of the private equity program and as of 3/31/26

² Diversification pie charts are as of 3/31/26

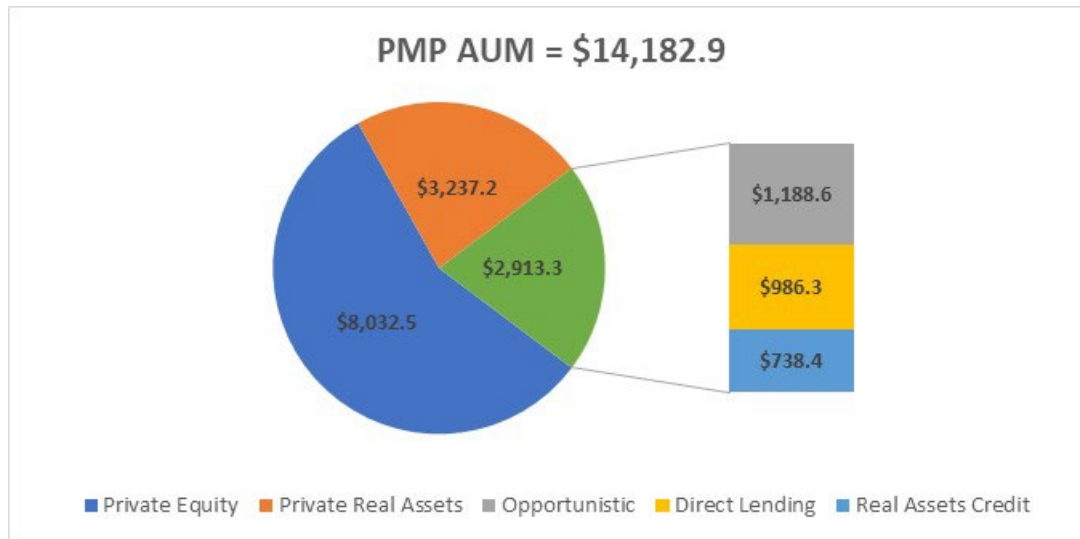
*"Other" in the sector pie chart includes real estate, utilities, and semiconductors and semiconductor equipment sectors

Private Equity Outlook

- Positives
 - Long-term performance has been reasonably close to the Program Objective
 - Overall performance has been in-line with PE industry benchmark averages
 - Strong distributions are projected to reduce PE exposure, reducing the denominator effect
- Challenges
 - The PE industry as a whole has underperformed the public markets recently
 - A continuation of elevated interest rates could prolong PE's path to higher liquidity and overall performance improvement

Private Credit Portfolio Review

Private Credit Portfolio Structure *(in \$m; as of 3/31/26)*



- The Private Credit portfolio has an AUM of ~\$2.9b, representing 6% of the total fund, Vs. 8% of its long-term target.
- The current portfolio consists of:
 - Direct Lending – 34%
 - Opportunistic – 41%
 - Real Asset Credit – 25%

Private Credit Performance Evaluation *(in \$m; as of 3/31/26)*

<u>IRR Performance</u>	<u>1-Yr</u>	<u>3-Yr</u>	<u>5-Yr</u>	<u>Inception (2Q13)</u>
Private Credit Portfolio	7.1%	7.9%	7.6%	7.5%
Program Objective*	7.7%	9.5%	7.9%	7.8%
Excess Returns	-0.6%	-1.6%	-0.3%	-0.3%

<u>TWR Performance</u>	<u>1-Yr</u>	<u>3-Yr</u>	<u>5-Yr</u>	<u>Inception (2Q13)</u>
Private Credit Portfolio	7.1%	7.8%	7.4%	7.5%
Program Objective*	5.9%	9.1%	7.0%	6.0%
Excess Returns	1.2%	-1.3%	0.4%	1.5%

*Program Objective is currently Morningstar LSTA Leveraged Loan Index + 100 bps

- IRR performance trails the program objective driven by the time lag in mark-to-market valuations and underlying portfolio composition, etc.
- The portfolio has been consistently delivering high single-digit returns across time horizons.

Private Credit Performance Evaluation *(as of 3/31/26)*

IRR Performance

	1-Yr	3-Yr	5-Yr	Inception (2Q13)
Private Credit Portfolio	7.1%	7.9%	7.6%	7.5%
Pitchbook Private Debt All Global Index*	5.4%	7.9%	8.7%	N/A

IRR Performance

	1-Yr	3-Yr	5-Yr	Inception (2Q13)
Private Credit Portfolio	7.1%	7.9%	7.6%	7.5%
MSCI Private Credit Peer Group** (75 th %)	10.3%	12.7%	13.1%	12.2%
MSCI Private Credit Peer Group** (50 th %)	5.9%	8.9%	9.5%	9.2%
MSCI Private Credit Peer Group** (25 th %)	-0.7%	2.6%	5.3%	6.7%

TWR Performance

	1-Yr	3-Yr	5-Yr	Inception (2Q13)
Private Credit Portfolio	7.1%	7.8%	7.4%	7.5%
Pitchbook Private Credit Evergreen Vehicles*** (75 th %)	5.3%	5.7%	6.1%	N/A
Pitchbook Private Credit Evergreen Vehicles*** (50 th %)	1.5%	3.0%	0.6%	N/A
Pitchbook Private Credit Evergreen Vehicles*** (25 th %)	-2.1%	-2.9%	-4.5%	N/A

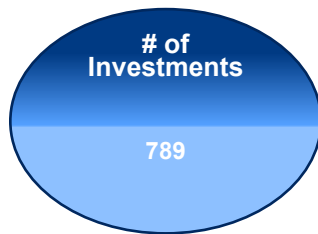
- There are multiple ways to evaluate private credit asset class performance
- Performance dispersion is wide across managers

*As of 12/31/2025

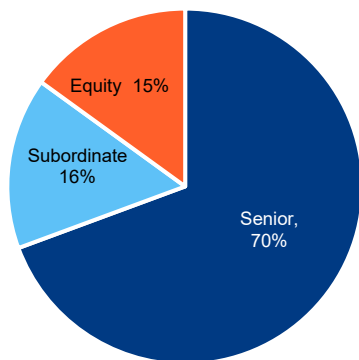
** As of 12/31/2025; Source: MSCI Private Credit Closed-End Fund Peer Group of 608 funds with vintages 2013-2025

*** Source: Pitchbook Private Credit Evergreen Vehicle Peer Group of 64 funds reporting as 3/31/2026

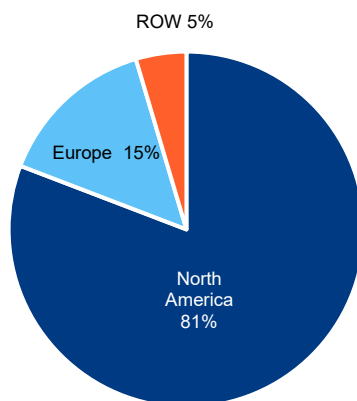
Corporate Debt Portfolio¹



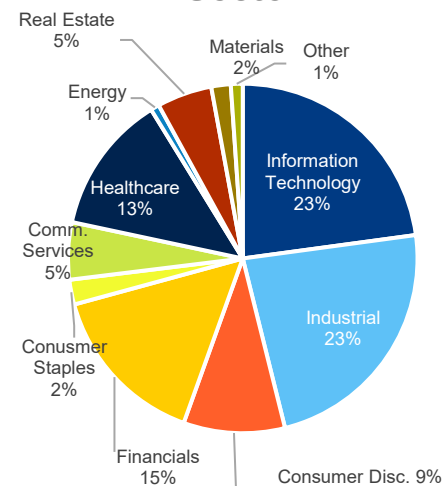
Seniority



Geographic

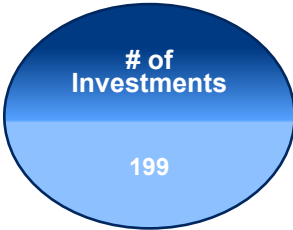


Sector

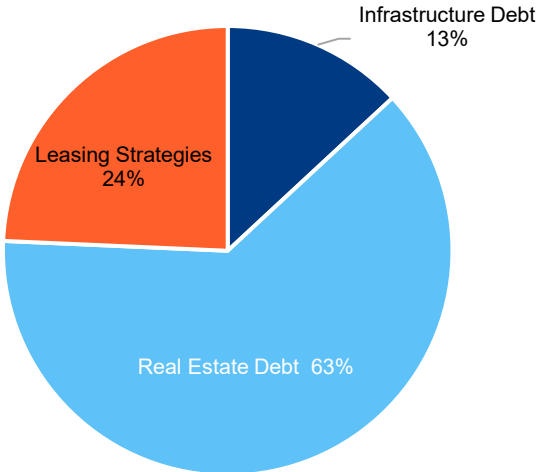


¹The corporate debt portfolio includes direct lending and opportunistic mandates (asset-based lending strategies are excluded in the exposure charts). All data presented is for active mandates as of 1Q26.

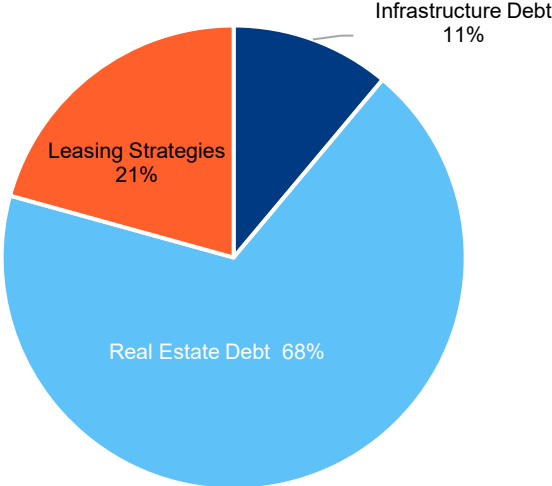
Real Assets Credit Portfolio¹



Strategy (NAV)



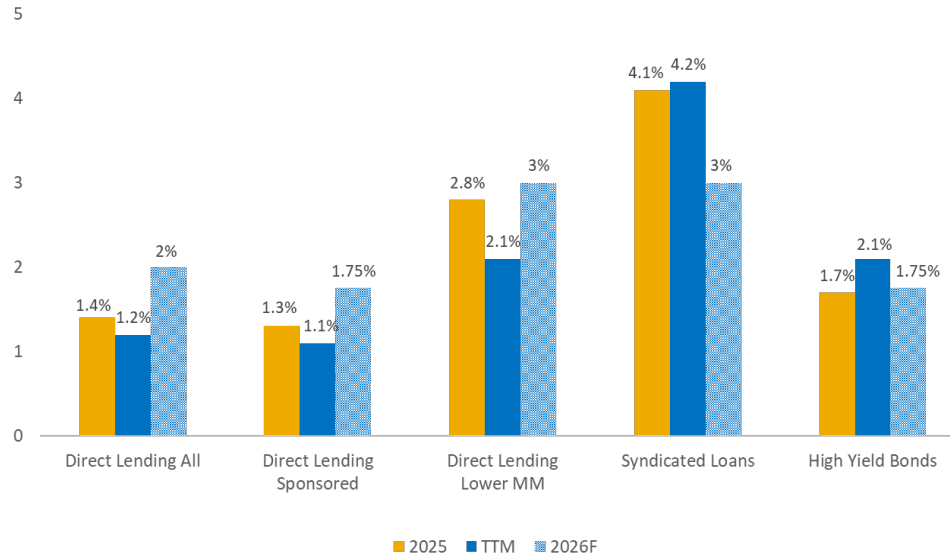
Strategy (NAV + Unfunded)



¹All data presented is for active mandates as of 1Q26

Private Credit Outlook

Default Rates & Forecasts: By Volume

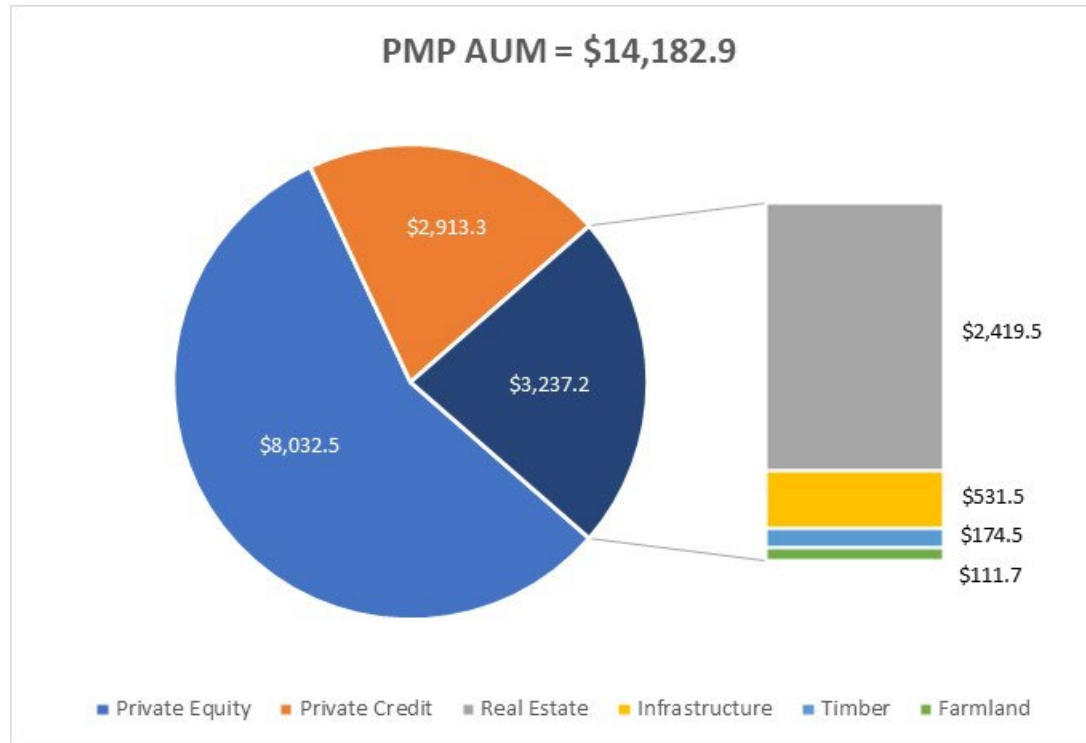


Source: KBRA DLD Default Research; Trailing 12-month period through April 28. F=Forecast

- Fundraising remains resilient despite recent headlines
- Transaction activity has been slow, with potential uptick
- Spreads have widened and underwriting standards are tightening
- Performance dispersion may widen among software companies and across managers
- Default increases anticipated but not systemic

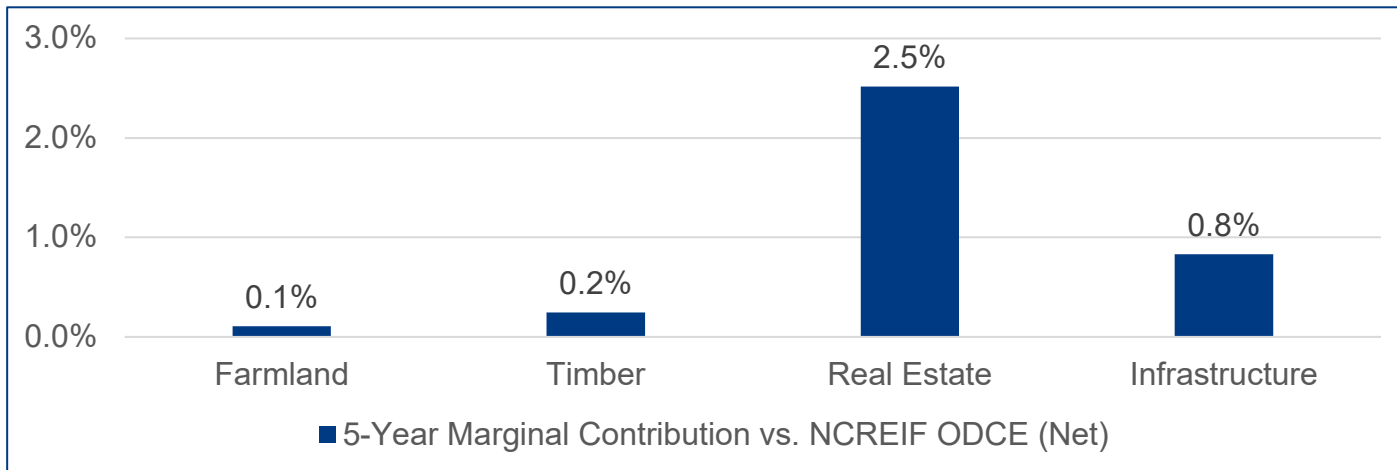
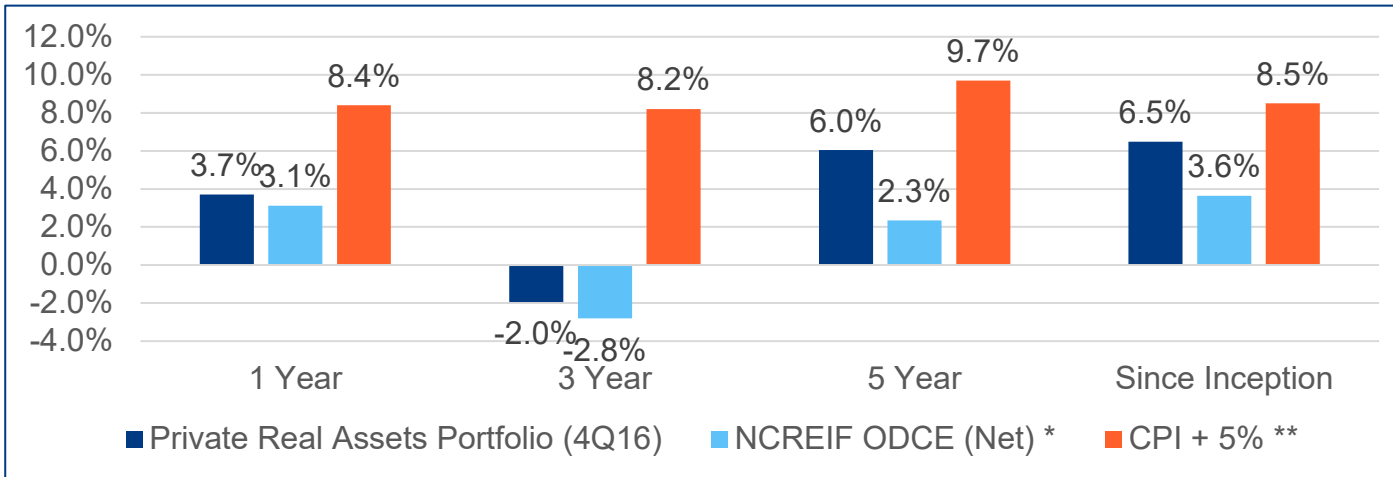
Private Real Assets Portfolio Review

Private Real Assets Portfolio Structure *(in \$m; as of 3/31/26)*



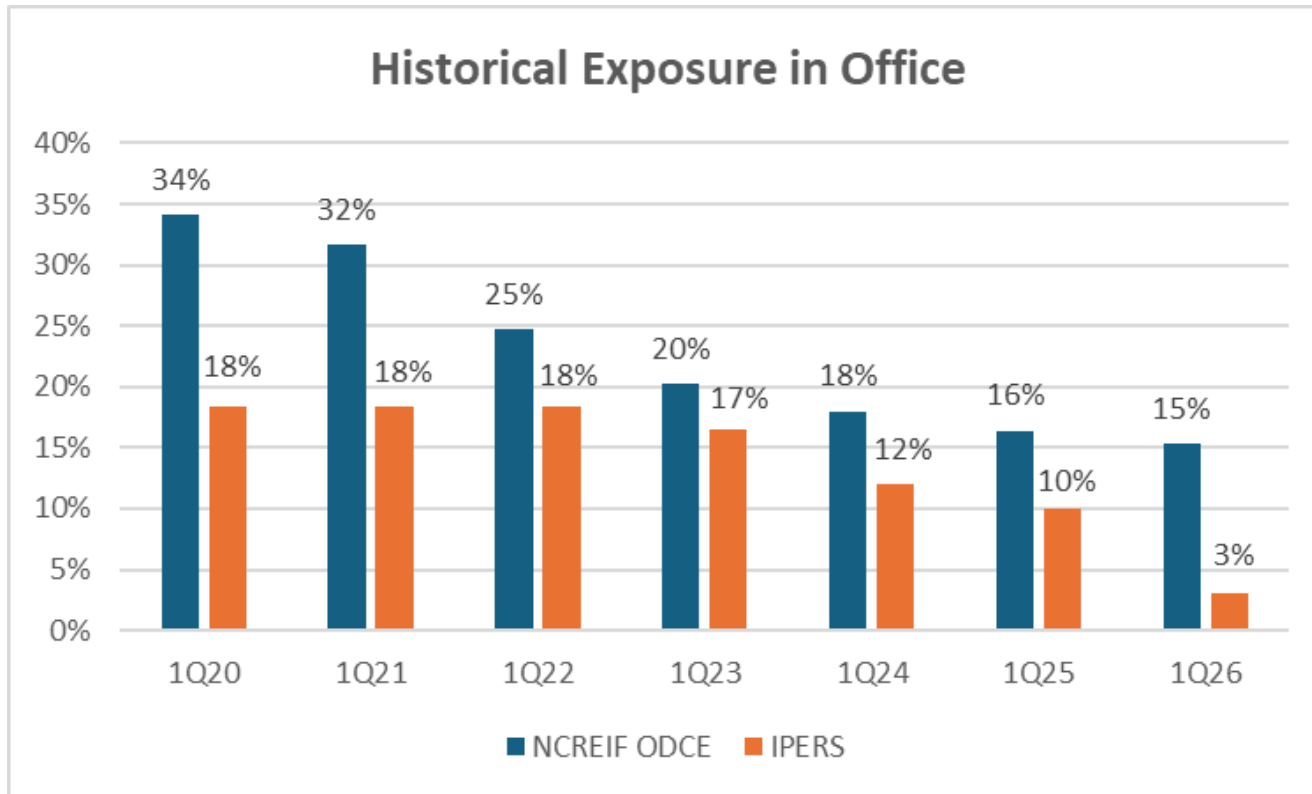
- Subsequent to 1Q26, staff finalized a \$200 million infrastructure commitment
- The real assets portfolio market value was \$3,079.7 million in 1Q25 versus \$3,237.2 million in 1Q26

Private Real Assets Performance *(as of 3/31/26)*



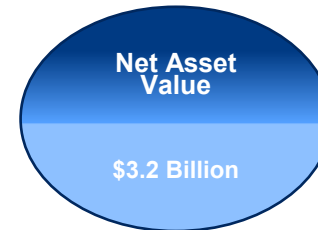
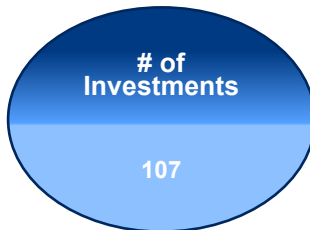
- The Private Real Assets program's primary objective is to exceed the NCREIF ODCE (Net) index, while the secondary return objective is to exceed CPI + 5%

Historical Exposure in Office



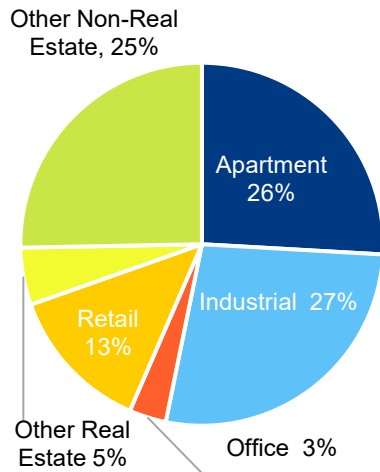
- Office exposure dropped significantly post COVID
- IPERS underweight position attributed to our relative excess returns over the last five-years

Real Assets Portfolio (as of 1Q26)

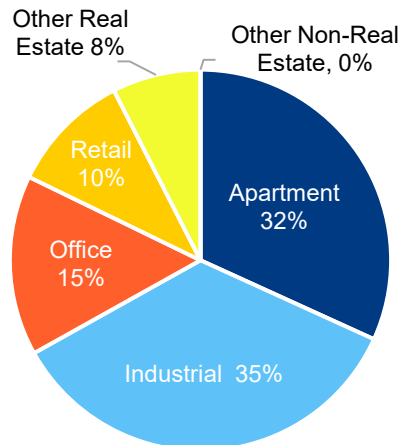


Property Type

IPERS

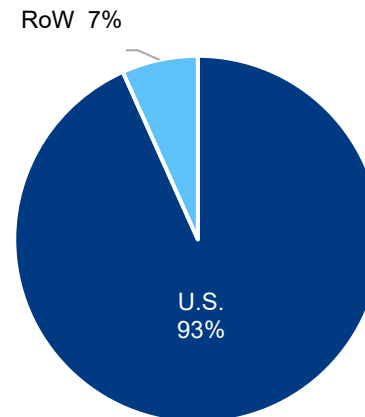


NCREIF ODCE



Geographic

IPERS



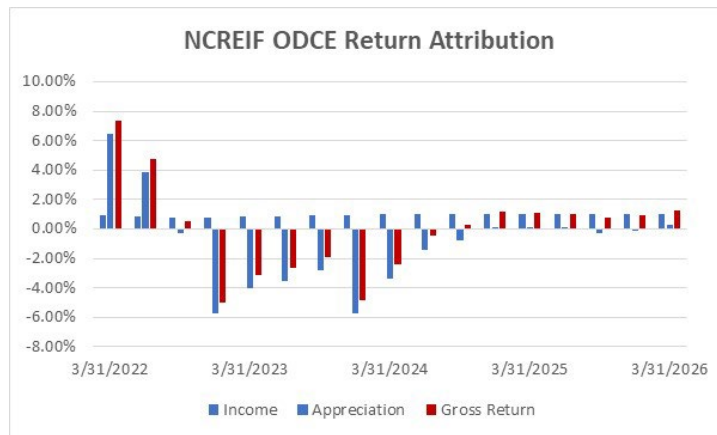
Other Non-Real Estate includes Timber, Farmland, and Infrastructure

NCREIF ODCE is U.S. based index

Private Real Assets Market Outlook

Real Estate

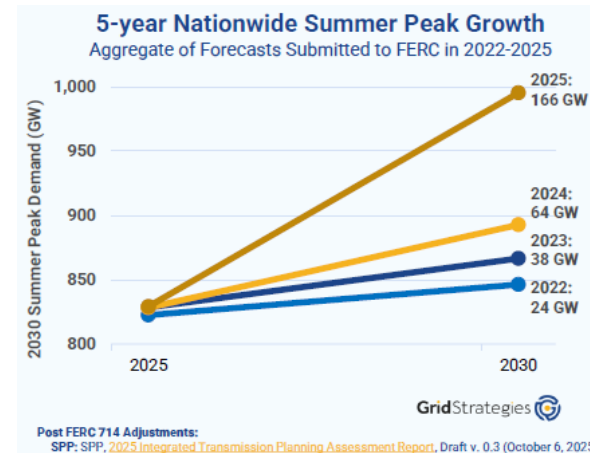
- Valuations stabilized beginning '24, but have remained relatively flat for the past 6 quarters
- While Office has stabilized (0.63% 1-year return), Residential, Industrial, and Retail have been the primary market return drivers (77% of total unlevered return)
- Higher interest rates may dampen a more meaningful valuation recovery



Source: NCREIF Fund Index – Open End Diversified Core Equity Index

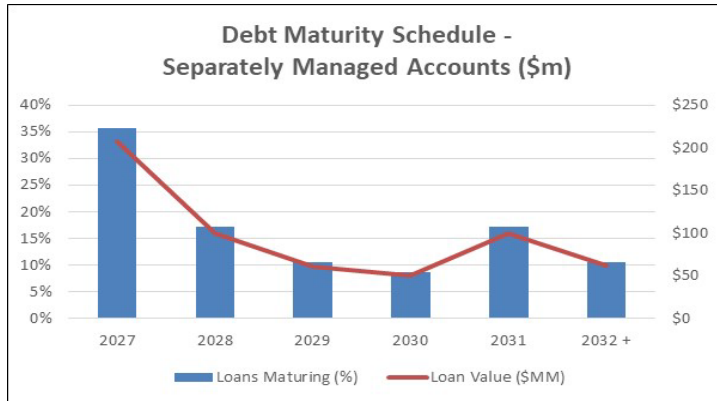
Infrastructure*

- Large capital requirements for global infrastructure persist – estimated to be \$94T by 2040 – private capital will be critical
- Global electricity demand to rise 40% in the next decade (AI; population growth; etc), requiring massive grid, generation, and resiliency investment
- While investment opportunities are plentiful, potential risks are shifting and emerging (e.g., potential hyperscaler over-spending)



*Sources: (1) KKR, "Why Infrastructure in 2026?" May 2026; (2) Stonepeak, "Why Infrastructure?" December 2024; (3) BlackRock, "Private Markets Outlook 2026," November 2025; (4) Grid Strategies, "Power Demand Forecasts Revised Up for Third Year Running," November 2025

Private Real Estate Leverage (as of 3/31/26)



	IPERS	NFI-ODCE	Difference
Loan-to-Value	20.0%	26.8%	-6.8%
Weighted Cost of Debt	3.8%	4.5%	-0.7%

- ~\$308MM of debt maturities in CY27-28 – some will have to be refinanced at higher rates given the higher base lending rate
- IPERS’ strong credit profile provides the ability to implement real estate portfolio-level debt at SOFR + 20bps vs the SOFR + 160bps current market cost of debt
- **By directly implementing portfolio-level debt within NFI-ODCE loan-to-value levels, IPERS can pass the savings up to the total fund**

Private Real Assets Equity - September Discussion Topics

- Given (1) IPERS' strong funding status, and (2) the under-allocation of the Private Real Assets portfolio relative to target, the investment team is evaluating:
 - Optimal mix between Real Estate and Infrastructure to balance:
 - Achieving the asset class primary and secondary return objectives
 - Minimizing volatility (i.e., risk)
 - Policy objectives (diversification, income and inflation hedge)
 - Focusing on Core and Core+ strategies to mitigate risk (vs Value Add and Opportunistic strategies); and
 - Employing a conservative amount of IPERS-level leverage (level TBD) to optimize returns relative to risk

Summary

PRIVATE EQUITY

- Exposure is moderating through excess distributions
- Stay the course despite recent underperformance, but sharpen focus on performance relative to directly comparable strategies

PRIVATE CREDIT

- Monitor impact of firm acquisitions; Selective allocations and potential searches

PRIVATE REAL ASSETS

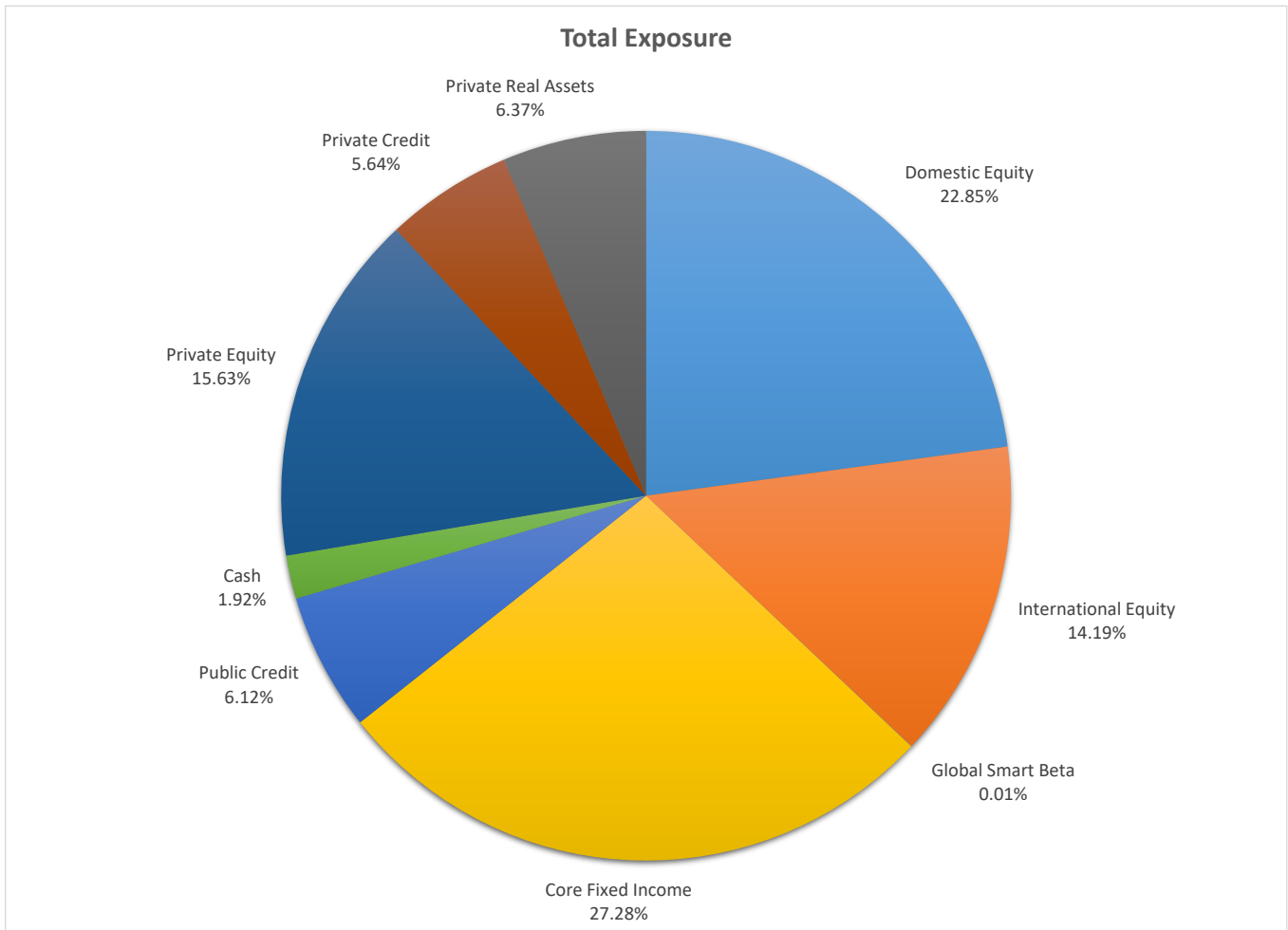
- Evaluate a program-wide self-leveraging strategy to reduce expense
- Finalize evaluation of an appropriately levered Core strategy

CO-INVESTMENTS

- Continue to selectively invest to reduce fee and carry drag

BETA REPORT
IOWA PUBLIC EMPLOYEES' RETIREMENT SYSTEM PORTFOLIO
PRELIMINARY (Unreconciled) MARKET VALUES AT
6/5/2026

	Actual	Overlay	Total	Policy	Difference
PUBLIC MARKETS					
Domestic Equity	22.58%	0.27%	22.85%	23.27%	-0.42%
International Equity	14.41%	-0.21%	14.19%	14.41%	-0.22%
Global Smart Beta	0.01%	0.00%	0.01%	0.00%	0.01%
Total Equities	37.00%		37.05%	37.68%	-0.63%
Core Fixed Income	27.37%	-0.10%	27.28%	27.15%	0.13%
Public Credit	6.12%		6.12%	6.65%	-0.53%
Cash	1.87%	0.05%	1.92%	1.10%	0.82%
PRIVATE MARKETS					
Private Equity	15.63%		27.63%	27.42%	0.21%
Private Credit	5.64%		5.64%	5.60%	0.04%
Private Real Assets	6.37%		6.37%	6.32%	0.05%
TOTAL FUND	100.00%			100.00%	0.00%




Alpha Report


For periods ending March 31, 2026

α

IPERS' Active Manager Alpha Scorecard

Net of Fees as of 1Q26	1Q26	1 Year	3 Year	5 Year	SI	Perf	Org	People	Process
<i>Excess Returns v. Benchmark</i>									
Domestic Equity									
BlackRock - Russell 1000 SAE	0.54%	5.03%	1.53%	NA	1.21%				
BlackRock - Russell 2000 SAE	0.71%	1.53%	0.70%	1.08%	1.42%				
International Equity									
BlackRock – EAFE SAE	0.19%	-0.48%	2.10%	1.88%	1.45%				
PanAgora - Dynamic EAFE	1.38%	3.90%	3.14%	2.29%	1.38%				
Wellington - Emerging Markets	-0.01%	5.25%	1.64%	-0.13%	0.25%				
BlackRock - Emerging Markets SAE	1.80%	1.07%	-0.04%	-0.55%	-0.24%				
Core Fixed Income									
BlackRock - Universal	0.20%	0.28%	0.46%	0.68%	0.78%				
PGIM - Universal	0.87%	4.39%	1.83%	1.05%	0.98%				
Man EM Global Macro	0.96%	-16.47%	NA	NA	-14.49%				
Mesirow EM Currency	-3.36%	10.31%	NA	NA	-0.26%				
Public Credit									
PGIM - High Yield	0.02%	-0.48%	0.45%	0.25%	0.61%				
Aegon USA - High Yield	-0.16%	0.38%	-0.26%	-0.26%	0.20%				
PGIM - Emerging Market Debt	-0.32%	0.44%	1.33%	0.63%	0.81%				
LARS									
Aspect Capital	4.77%	3.75%	0.09%	NA	3.77%				
Graham Capital Management	10.08%	12.67%	2.45%	0.46%	3.70%				
P/E Global	4.41%	-2.52%	1.78%	0.46%	3.39%				
PIMCO	-21.40%	-19.82%	-3.34%	NA	-0.24%				
Welton Global	-0.03%	-2.67%	-6.42%	NA	-3.34%				
ARP	2.00%	-0.22%	-0.04%	NA	-1.00%				
DCM	1.93%	11.01%	0.86%	NA	10.27%				
Staff Directed Trades									
Staff Directed Trades	3.50%	NA	NA	NA	17.61%				

 No Concerns

 Minor Concerns

 Material Concerns

IPERS' Active Manager Listing

MANAGER	INCEPTION DATE	MANDATE	BENCHMARK
Domestic Equity			
BlackRock - Russell 1000 SAE	May 2022	Large Cap	Russell 1000
BlackRock - Russell 2000 SAE	May 2019	Small Cap	Russell 2000
International Equity			
BlackRock – EAFE SAE	May 2019	Developed EAFE	MSCI EAFE Index (net)
PanAgora - Dynamic EAFE	May 2019	Developed EAFE	MSCI EAFE Index (net)
Wellington - Emerging Markets	February 2009	Global Emerging Markets	MSCI Emerging Markets (net)
BlackRock - Emerging Markets SAE	May 2019	Global Emerging Markets	MSCI Emerging Markets (net)
Core Fixed Income			
BlackRock - Universal	November 2020	Relative Value	Bloomberg U.S. Aggregate
PGIM - Universal	March 2021	Relative Value	Bloomberg U.S. Aggregate
Man EM Global Macro	October 2023	Relative Value	Bloomberg U.S. Aggregate
Mesirow EM Currency	October 2023	Relative Value	Bloomberg U.S. Aggregate
Public Credit			
PGIM - High Yield	June 2019	High Yield	Bloomberg U.S. HY 2% Capped Index
Aegon USA - High Yield	February 2012	High Yield	High Yield Policy Index
PGIM - Emerging Market Debt	April 2016	Emerging Market Debt	JP Morgan EMBI Global
LARS			
Aspect Capital	March 2022	Diversified Trend	Absolute Return
Graham Capital Management	December 2016	Tactical Trend	Absolute Return
P/E Global	December 2016	FX Strategy	Absolute Return
PIMCO	July 2022	Commodity Alpha	Absolute Return
Welton Global	June 2021	Welton Global	Absolute Return
ARP	November 2022	Alternative Risk Premium	Absolute Return
DCM	March 2025	Diversified Alpha	Absolute Return

Private Market Program Manager Updates

For periods ending March 31, 2026

IOWA PUBLIC EMPLOYEES' RETIREMENT SYSTEM

June 18, 2026



IPERS' Private Market Policy Objectives

Private Equity Policy Objective*

	<u>1-Yr</u>	<u>5-Yr</u>	<u>10-Yr</u>	<u>Inception (3Q85)</u>
Private Equity Portfolio	10.9%	10.4%	16.1%	14.3%
Program Objective**	22.2%	14.5%	17.6%	15.0%
Excess Returns	-11.3%	-4.1%	-1.5%	-0.7%

*All calculations are based on final partnership valuations through 12/31/2025 and cash activity through 3/31/26

**Private Equity Program Objective is Russell 3000 + 300 bps calculated on an internal rate of return basis over rolling ten-year periods

Private Credit Policy Objective*

	<u>1-Yr</u>	<u>3-Yr</u>	<u>5-Yr</u>	<u>Inception (2Q13)</u>
Private Credit Portfolio	7.1%	7.9%	7.6%	7.5%
Program Objective**	7.7%	9.5%	7.9%	7.8%
Excess Returns	-0.6%	-1.6%	-0.3%	-0.3%

*All calculations are based on final valuations through 12/31/2025 and cash activity through 3/31/26

**Private Credit Program Objective is Morningstar LSTA Leveraged Loan Index + 100 bps calculated on an internal rate of return basis over rolling five-year periods


Private Real Assets Policy Objective


	<u>1-Yr</u>	<u>3-Yr</u>	<u>5-Yr</u>	<u>Inception (4Q16)</u>
Private Real Assets Portfolio	3.7%	-2.0%	6.0%	6.5%
Program Objective*	3.1%	-2.8%	2.3%	3.6%
Excess Returns	0.6%	0.8%	3.7%	2.9%

*Private Real Assets Primary Program Objective is NCREIF ODCE (Net) Index calculated on a time-weighted return basis over rolling ten-year periods

IPERS' PMP Manager Scorecard

	1 Year	5 Year	10 Year	SI	Performance	Organization	People	Process
Private Equity								
Multi-Strategy								
Pathway	10.98%	9.99%	15.51%	12.75%				
Private Credit								
Direct Lending								
BlackRock	3.43%	5.99%	N/A	6.70%				
Monroe Capital	3.80%	7.01%	N/A	7.04%				
Pathway XXV-B	8.24%	N/A	N/A	8.98%				
Opportunistic								
Arrowmark	12.89%	N/A	N/A	10.39%				
Ares Private Credit Solutions II	11.37%	N/A	N/A	7.93%				
Ares Special Opportunities Fund III	N/A	N/A	N/A	N/A				
Audax Mezzanine Fund V	8.24%	N/A	N/A	14.20%				
Audax Mezzanine Co-Invest IA	14.29%	N/A	N/A	12.84%				
Crestline Series I	1.36%	N/A	N/A	6.34%				
Crestline Series II	10.91%	N/A	N/A	8.36%				
KKR	6.66%	7.83%	N/A	7.81%				
Marathon	8.85%	N/A	N/A	7.03%				
Real Assets								
Heitman – CREDIT	4.56%	N/A	N/A	-0.53%				
IFM – USIDF	4.93%	N/A	N/A	4.80%				
PGIM Real Estate Global Debt	10.76%	8.38%	N/A	7.65%				
Kayne Anderson – KARED IV	11.11%	N/A	N/A	9.55%				
JP Morgan – GTIF	12.75%	N/A	N/A	10.15%				
ITE Rail Fund IA	5.91%	N/A	N/A	8.48%				
PGIM – PREDS	7.57%	N/A	N/A	6.12%				
Oaktree – RECIF	7.51%	N/A	N/A	5.79%				
Principal – OEDF	6.28%	N/A	N/A	5.61%				
Private Credit Co-Investments								
loway Private Credit	N/A	N/A	N/A	5.62%				


 No Concerns


 Minor Concerns


 Material Concerns

IPERS' PMP Manager Scorecard

	1 Year	5 Year	10 Year	SI	Performance	Organization	People	Process
Private Real Assets								
Real Estate								
Clarion Partners	17.34%	-5.54%	-1.29%	3.49%				
Invesco	2.96%	9.70%	10.79%	9.79%				
RREEF	1.65%	5.08%	6.97%	8.81%				
UBS Realty	8.15%	9.86%	10.19%	9.63%				
Kayne Anderson – KAREP VII	3.05%	N/A	N/A	-0.64%				
Other Real Assets								
Brookfield – BSIP	8.79%	N/A	N/A	7.80%				
Forest Investment Associates	-1.74%	6.30%	4.50%	5.18%				
UBS Farmland	2.44%	5.26%	N/A	6.35%				
Macquarie - MIP VI	N/A	N/A	N/A	-2.57%				
Private Real Assets Co-Investments								
loway Private Real Assets	N/A	N/A	N/A	1.36%				

 No Concerns

 Minor Concerns

 Material Concerns

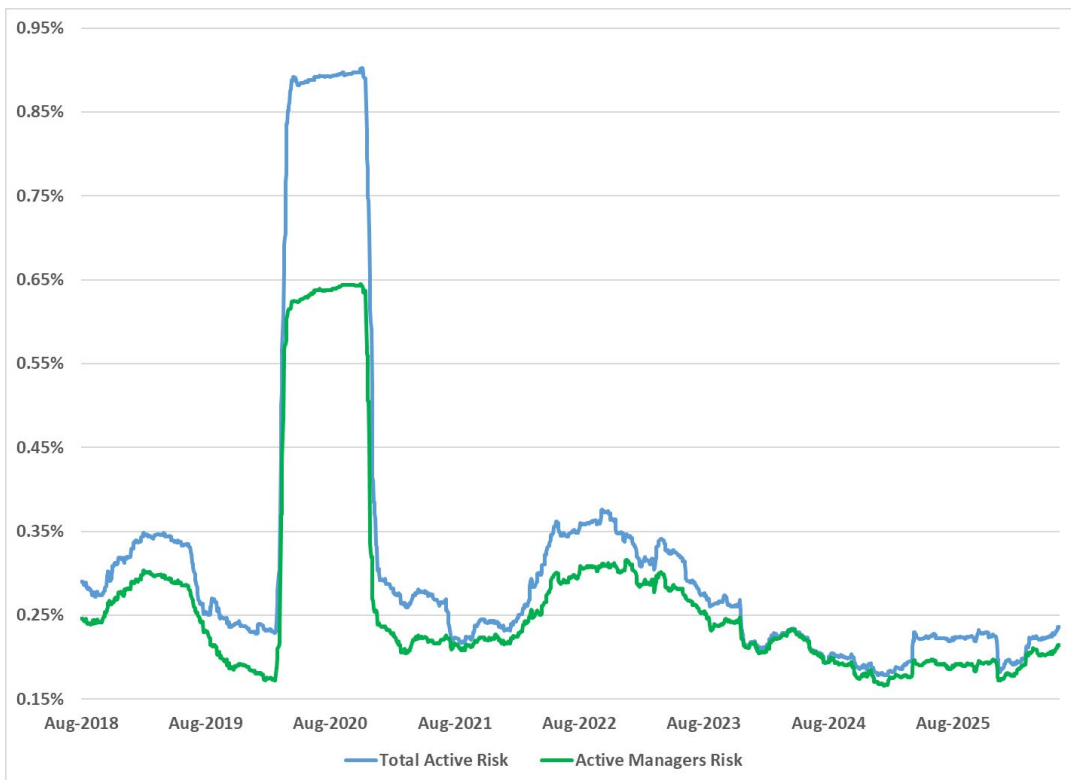
Public Markets Active Risk –180 Days (Jun 2026)

	Active	Passive	Misfit	Total
Equities				
Domestic Equities	0.09%	0.01%	0.00%	0.09%
International Equities	0.09%	0.05%	0.00%	0.11%
Fixed Income				
Core Fixed Income	0.12%	0.01%	0.00%	0.12%
Public Credit	0.02%	-	0.00%	0.03%
LARS (External)	0.06%	-	-	0.06%
Internal (ARP+SDT)	0.03%	-	-	0.03%
Asset Allocation	-	0.09%	-	0.09%
Total Public Markets	0.21%	0.10%	0.00%	0.24%

Target	1.50%
Upper Limit	3.00%

- Plan-level Total Active Risk at 0.24%
- Public Credit transition mandates are rolled up into the total plan active risk
- No additional active mandates added or subtracted.

Public Markets Active Risk –180 Days (Jun 2026)





SECURITIES LITIGATION AND MONITORING REPORT

I. STATUS OF CASES THAT IPERS IS SERVING IN AN ACTIVE ROLE

A. Allegheny County Employees’ Retirement System vs. Energy Transfer

In October 2025, the Court approved the parties settlement agreement resolving this case for \$15 million in cash. The deadline to submit proof of claim forms was November 28, 2025. IPERS claim was timely submitted. IPERS received compensation for its role as a lead plaintiff in the amount of \$48,58620, which is incorporated in the recovery amounts below. This will be the last report on this case.

B. IPERS vs. BANA

Settlement reached with Defendants Morgan Stanley, Goldman Sachs, UBS, JP Morgan, EquiLend, and Credit Suisse for a total of \$580 million in cash payments. EquiLend agreed to implement various reforms. Litigation against the remaining Defendant, Bank of America, continues.

II. FUNDS RECOVERED FROM MONITORED CASES*

<u>Company Name</u>	<u>Claim Filing Deadline</u>	<u>Date of Receipt</u>	<u>Amount Recovered</u>	<u>Total Amount Recovered To Date</u>
Sealed Air Corporation	12/27/2022	6/10/2025	\$18.84	\$1,171.90
Bank of America Corporation	11/14/2016	6/16/2025	\$248.06	\$53,059.16
Bank of America Corporation	11/14/2016	6/25/2025	\$320.47	\$53,059.16
Cardinal Health, Inc	7/24/2023	7/01/2025	\$23,474.36	\$23,474.36
SolarWinds Corporation	07/07/2023	7/17/2025	\$370.22	\$7,730.65
Citrix Systems, Inc	12/14/2024	7/23/2025	\$476.03	\$476.03
Synchrony Financial	9/7/2023	7/25/2025	\$2,125.47	\$35,862.87
Conduent, Inc	5/19/2023	7/25/2025	\$4,435.99	\$4,435.99
Zillow Group, Inc	7/11/2023	7/30/2025	\$28,806.75	\$28,806.75
Wells Fargo & Company	10/5/2023	7/31/2025	\$594.19	\$5,616.86
Myriad Genetics, Inc	1/16/2024	8/1/2025	\$5,575.31	\$113,037.88
Patterson Companies, Inc.	5/25/2022	8/4/2025	\$609.09	\$85,426.75
Prudential Financial, Inc.	7/30/2024	8/6/2025	\$8,447.75	\$8,447.75
Novo Nordisk A/S	7/27/2022	8/6/2025	\$2,389.88	\$31,487.83
Mallinckrodt PLC	10/27/2022	8/7/2025	\$44,717.70	\$44,717.70
Oracle Corporation	2/3/202	8/20/2025	\$28.33	\$4,024.54
Spectrum Brands Legacy, Inc.	1/25/2022	8/26/2025	\$10.63	\$2,267.64
Signet Jewelers Limited	8/28/2020	8/27/2025	\$1,160.65	\$83,92267

BioMarin Pharmaceutical, Inc.	10/30/2023	9/8/2025	\$63.31	\$7,047.29
Jernigan Capital, Inc.	1/11/2025	9/9/2025	\$449.36	\$449.36
Valeant Pharmaceuticals Inter. Inc.	5/6/2020	9/10/2025	\$6,841.60	\$416,372.88
DaVita, Inc.	3/20/2021	9/10/2025	\$22.86	\$14,339.87
OSI Systems, Inc.	5/11/2022	9/15/2025	\$106.99	\$3,402.28
Case Unknown/Recoveries Received		9/17/2025	\$14,919.65	\$82,119.38
Perrigo Company, PLC	8/26/2024	9/25/2025	\$4,294.97	\$4,294.97
Arconic, Inc.	8/21/2023	9/26/2025	\$18,577.99	\$18,577.99
Emergent BioSolutions, Inc.	2/4/2025	9/29/2025	\$64,140.77	\$64,140.77
United Rentals Ins. SEC Fair Fund	3/31/2011	10/3/2025	\$48.11	\$207.49
Textron, Inc.	1/20/2023	10/16/2025	\$338.92	\$2,982.73
Gogo, Inc.	9/29/2022	10/27/2025	\$39.52	\$1,137.96
Talis Biomedical Corporation	3/13/2025	10/27/2025	\$3,225.23	\$3,225.23
Grand Canyon Education, Inc	9/19/2024	10/30/2025	\$2,972.11	\$2,972.11
Athira Pharma, Inc.	9/6/2024	11/7/2025	\$76.60	\$76.60
Oak Street Health, Inc.	11/21/2024	11/19/2025	\$1,273.13	\$1,273.13
Alexion Pharmaceuticals, Inc.	12/15/2023	11/24/2025	\$6,654.25	\$96,895.10
Mohawk Industries, Inc.	7/5/2023	11/28/2025	\$258.15	\$4,854.50
CenturyLink, Inc.	8/13/2021	12/30/2025	\$17.93	\$1,968.74
Cabot Oil & Gas Corporation	10/16/2024	1/7/2026	\$4,934.52	\$4,934.52
Jernigan Capital, Inc.	6/10/2025	1/12/2026	\$2,185.10	\$2,185.10
VMware, Inc.	3/17/2025	1/12/2026	\$15,590.72	\$15,590.72
CBL & Associates Properties, Inc.	8/14/2023	1/29/2026	\$46.64	\$9,213.33
CBL & Associates Properties, Inc.	8/14/2023	9/2/2025	\$535.51	\$9,213.33
Soundview Home Loan Trust	10/31/2023	1/20/2026	\$1,442,170.17	\$1,422,170.17
Chegg, Inc.	3/31/2025	2/10/2026	\$2,599.15	\$2,599.15
James River Group Holdings, LTD	6/25/2024	2/20/2026	\$19.28	\$1,929.39
James River Group Holdings, LTD.	6/25/2024	6/26/2025	\$1,910.11	\$1,929.39
Stericycle, Inc.	8/7/2019	2/26/2026	\$18.57	\$289.00
Caribou Biosciences, Inc.	1/17/2025	3/9/2026	\$102.90	\$102.90
Qualcomm Incorporated	11/8/2024	4/2/2026	\$5,455.95	\$5,455.95
First Solar Inc.	7/1/2020	4/8/2026	\$348.20	\$133,577.63
Apple, Inc.	10/4/2024	4/9/2026	\$22,929.37	\$22,929.37
Sea Limited	6/23/2025	4/14/2026	\$13,759.26	\$13,759.26
Six Flags Entertainment Corporation	2/4/2025	4/14/2026	\$24,880.24	\$24,880.24
Viatis, Inc.	7/2/2024	4/21/2026	\$881.62	\$881.62

Valeant Pharmaceuticals International, Inc.	1/16/2025	4/27/2026	\$22,802.58	\$22,802.58
Kraft Heinz Company	10/10/2023	10/20/2025	\$47,918.82	\$53,449.76
Kraft Heinz Company	10/10/2023	5/4/2026	\$5,530.94	\$53,449.76
Wynn Resorts Limited	2/3/2025	5/8/2026	\$16,929.77	\$16,929.77
Total Recovery			\$1,879,680.59	

The funds were received during the period of June 10, 2025 through June 11, 2026

*Additional Funds received during the period of June 10, 2025 through June 11, 2026:

1. Lead Plaintiff fees in Allegheny vs. Energy Transfer: \$48,568.20
2. JPMorgan Investment Mgmt Class Action: \$320.47
3. Bondholder Libor Settlement: \$24.69
4. In re: Foreign Exchange Benchmark Rates Antitrust Litigation: \$568.77
5. In re Grand Canyon Education, Inc. Securities Litigation: \$780.33
6. Foreign Exchange Cartel Class Action (Australia FX): \$2,044.72
7. In re LIBOR-Based Instruments Antitrust: \$11,355.04
8. Mexican Government Bonds Antitrust Litigation: \$4,981.33
9. SSA Bonds Antitrust Settlement Fund: \$713.94

Total Additional Recovery: \$69,357.49

Total Recovered through June 11, 2026: \$1,949,038.08

2026

Board Meetings

JANUARY						
S	M	T	W	T	F	S
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

FEBRUARY						
S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28

MARCH						
S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

APRIL						
S	M	T	W	T	F	S
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30		

MAY						
S	M	T	W	T	F	S
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						

JUNE						
S	M	T	W	T	F	S
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30				

JULY						
S	M	T	W	T	F	S
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

AUGUST						
S	M	T	W	T	F	S
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					

SEPTEMBER						
S	M	T	W	T	F	S
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30			

OCTOBER						
S	M	T	W	T	F	S
			1	1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

NOVEMBER						
S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30					

DECEMBER						
S	M	T	W	T	F	S
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

March 27, 2026

CY2025 Investment Performance

June 18, 2026

Private Markets Program Review

September 23-24, 2026

Continuing Education Session

FY2025 Investment Performance Review

Asset Allocation

Investment Policy & Goal Statement

December 4, 2026

Actuarial Valuation Presentation