## CEM Benchmarking

### lowa Public Employees' Retirement System

## **CEM Investment Benchmarking Report - 2022**

September 2023

#### **Key Takeaways**

#### Returns

- Your 5-year net total return was 7.0%. This was above both the U.S. Public median of 5.9% and the peer median of 5.7%.
- Your 5-year policy return was 5.3%. This was above both the U.S. Public median of 4.6% and the peer median of 4.8%.

#### Value added

• Your 5-year net value added was 1.7%. This was above both the U.S. Public median of 1.1% and the peer median of 0.8%.

#### Cost

- Your investment cost of 44.3 bps was below your benchmark cost of 57.7 bps. This suggests that your fund was low cost compared to your peers.
- Your fund was low cost because it paid less than peers for similar services and it had a lower cost implementation style.
- Your costs increased by 5.4 bps, from 38.9 bps in 2018 to 44.3 bps in 2022, primarily because you had a higher cost asset mix. This was partly offset by paying less in total for similar investment styles.

## This benchmarking report compares your cost and return performance to the 258 funds in CEM's extensive pension database.

• 140 U.S. pension funds participate. The median U.S. fund had assets of \$9.4 billion and the average U.S. fund had assets of \$28.5 billion. Total participating U.S. assets were \$4.0 trillion.

• 68 Canadian funds participate with assets totaling \$2.0 trillion.

• 45 European funds participate with aggregate assets of \$4.2 trillion. Included are funds from the Netherlands, Norway, Sweden, Finland, Ireland, Denmark and the U.K.

• 4 Asia-Pacific funds participate with aggregate assets of \$276.0 billion. Included are funds from Australia, New Zealand, China and South Korea.

• 1 funds from other regions participate.

The most meaningful comparisons for your returns and value added are to the U.S. Public universe, which consists of 37 funds.



## The most valuable comparisons for cost performance are to your custom peer group because size impacts costs.

#### Peer group for Iowa Public Employees' Retirement System

- 17 U.S. Public sponsors from \$22.5 billion to \$70.1 billion
  - Median size of \$39.3 billion versus your \$39.3 billion



To preserve client confidentiality, given potential access to documents as permitted by the Freedom of Information Act, we do not disclose your peers' names in this document. For some of the peers, 2021 cost data was used as a proxy for 2022.

## Your 5-year net total return of 7.0% was above both the U.S. Public median of 5.9% and the peer median of 5.7%.

Univ med

5.9%

Total returns, by themselves, provide little insight into the reasons behind relative performance. Therefore, we separate total return into its more meaningful components: policy return and value added.

	Your 5-year
Net total fund return	7.0%
- Policy return	5.3%
= Net value added	1.7%

This approach enables you to understand the contribution from both policy mix decisions (which tend to be the board's responsibility) and implementation decisions (which tend to be management's responsibility).

#### 25% 20% 15% 10% 5% 0% -5% Legend 90th -10% 75th median -15% 25th 10th -20% your value \_ peer med -25% 5-year 2022 2021 2020 2019 2018 7.0% You -10.6% 18.9% 13.4% 17.5% -1.1% 5.7% Peer med -12.5% 15.3% 12.4% 17.6% -2.9%

#### U.S. Public net total returns - quartile rankings

-2.9%

-10.6% 16.8% 11.9% 17.2%

#### Your 5-year policy return of 5.3% was above both the U.S. Public median of 4.6% and the peer median of 4.8%.

Legend 90th

75th

25th

10th

Your policy return is the return you could have earned passively by indexing your investments according to your policy mix.

Having a higher or lower relative policy return is not necessarily good or bad. Your policy return reflects your investment policy, which should reflect your:

- Long term capital market expectations
- Liabilities
- Appetite for risk

Each of these three factors is different across funds. Therefore, it is not surprising that policy returns often vary widely between funds.

#### **U.S. Public policy returns - quartile rankings**



To enable fairer comparisons, the policy returns of all participants, including your fund, were adjusted to reflect private equity benchmarks based on lagged, investable, public-market indices. Prior to this adjustment, your 5-year policy return was 7.0%, 1.6% higher than your adjusted 5-year policy return of 5.3%. Mirroring this, your 5year total fund net value added would be 1.6% lower.

## Your 5-year policy return of 5.3% was above the U.S. Public median of 4.6% primarily because of:

- Your higher allocation to U.S. Stock (your 25% 5-year average weight versus a U.S. Public average of 18%), which was one of the better performing asset classes over the past 5 years.
- This was partly offset by your higher allocation to Fixed Income - U.S. (your 26% 5-year average weight versus a U.S. Public average of 17%), which was one of the poorer performing asset classes over the past 5 years.

1. 5-year weights are based only on plans with 5 years of continuous data.

2. Other stock includes: Stock - Emerging. Other fixed income includes: Fixed income - U.S. gov't and Fixed income - U.S. credits. Other real assets include: Commodities and Infrastructure.

3. A value of 'n/a' is shown if asset class returns are not available for the full 5 years or if they are broad and incomparable.

5-year average poli			5-year be mark ret		
	Your	U.S. Publ	More/	Your	U.S. Publ
	Fund	Avg.	Less	Fund	Avg.
Stock - U.S.	25%	18%	7%	9.0%	8.6%
Stock - EAFE	0%	5%	-5%	n/a³	1.8%
Stock - ACWI x U.S.	18%	6%	12%	0.9%	1.8%
Stock - Global	0%	14%	-14%	n/a³	5.4%
Other Stock <sup>2</sup>	0%	5%	-5%	n/a³	n/a³
Total Stock	43%	47%	-4%	5.6%	5.4%
Fixed income - U.S.	26%	17%	9%	0.2%	0.2%
Fixed income - Long bonds	0%	2%	-2%	n/a³	-1.7%
Fixed income - Inflation indexed	2%	3%	-1%	n/a³	1.6%
Cash	1%	-1%	2%	1.3%	1.2%
Other Fixed Income <sup>2</sup>	4%	5%	-1%	n/a³	n/a³
Total Fixed Income	33%	26%	6%	0.3%	0.3%
Hedge funds	0%	3%	-3%	n/a³	4.0%
Natural resources	1%	1%	1%	8.8%	5.4%
REITs	1%	1%	0%	n/a³	2.6%
Real estate ex-REITs	6%	8%	-2%	7.7%	8.3%
Other Real Assets <sup>2</sup>	1%	2%	-2%	n/a³	n/a³
Private equity	13%	10%	3%	6.5%	6.5%
Private debt	3%	2%	1%	7.0%	4.7%
Total	100%	100%			

#### Net value added is the component of total return from active management. Your 5year net value added was 1.7%.

Net value added equals total net return minus policy return.

#### Value added for Iowa Public Employees' Retirement System

	Net	Policy	Net value
Year	return	return	added
2022	-10.6%	-12.7%	2.1%
2021	18.9%	17.6%	1.4%
2020	13.4%	11.1%	2.3%
2019	17.5%	14.0%	3.5%
2018	-1.1%	-0.4%	-0.8%
5-Year	7.0%	5.3%	1.7%

Your 5-year net value added of 1.7% compares to a median of 0.8% for your peers and 1.1% for the U.S. Public universe.

To enable fairer comparisons, the value added for each participant including your fund was adjusted to reflect private equity benchmarks based on lagged, investable public market indices. Prior to this adjustment, your fund's 5-year total fund net value added was 0.0%.



2022

2.1%

1.7%

2.5%

5-year

You 1.7%

Peer med 0.8%

Univ med 1.1%

2021

1.4%

0.6%

0.6%

2020

2.3%

1.9%

1.4%

#### U.S. Public net value added - quartile rankings

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2019

3.5%

1.8%

2.1%

2018

-0.8%

-0.8%

-0.8%

#### Comparisons of your 5-year net return and net value added by major asset class:



#### 5-year average net return by major asset class

#### 5-year average net value added by major asset class



1. To enable fairer comparisons, the private equity benchmarks of all participants, including your fund were adjusted to reflect lagged, investable, public-market indices. Prior to this adjustment, your fund's 5-year private equity net value added was -1.2%.

## Your investment costs, excluding private asset performance fees, were \$190.9 million or 44.3 basis points in 2022.

Asset management costs by asset	et management costs by asset Internal External Management						
class and style (\$000s)	Overseeing	Passive	Active	Perform.			
	of external	fees	base fees	fees <sup>2</sup>	Total		
Stock - U.S. broad/all		288	324	387	999		
Stock - Emerging		39	1,361	671	2,070		
Stock - ACWI x U.S.		621	757	288	1,667		
Fixed income - U.S.		31	1,723	3,121	4,874		
Fixed income - High yield			570	1,522	2,092		
Cash			234		234		
Infrastructure <sup>2</sup>			1,095	1,194	1,095		
Natural resources <sup>2</sup>			1,971	1,958	1,971		
Real estate ex-REITs <sup>2</sup>			12,200	9,706	12,200		
Private equity - Diversified - LP <sup>12</sup>	9,792		121,321	126,047	131,113		
Private equity - Diversified - Co-invest. <sup>2</sup>	1,088				1,088		
Private credit - Evergreen <sup>2</sup>			10,596		10,596		
Derivatives/Overlays	340	239	6	16,217	16,802		
Total excluding private asset perform	ance fees				186,801	43.3bp	
2							
Oversight, custodial and other costs	3						
Oversight of the fund					2,263		
Trustee & custodial					809		
Consulting and performance measure	ement				480		
Audit					164		
Other					345		
Total oversight, custodial & other costs4,061							
Total investment costs (excl. transact	Total investment costs (excl. transaction costs & private asset performance fees)						

Footnotes 1. Default base fees were added: Private equity - Diversified - LP 154 bp. Refer to Appendix A for full details regarding defaults. 2. Total cost excludes carry/performance fees for real estate, infrastructure, natural resources and private equity. Performance fees are included for the public market asset classes and hedge funds. 3. Excludes non-investment costs, such as benefit insurance premiums and preparing cheques for retirees. Your costs increased by 5.4 bps, from 38.9 bps in 2018 to 44.3 bps in 2022, primarily because you had a higher cost asset mix. This was partly offset by paying less in total for similar investment styles.



\*Includes fees for managing internal assets and internal costs of monitoring external programs, where allocated.

#### Your total investment cost of 44.3 bps was below the peer median of 56.6 bps.

Legend

90th 75th

median 25th

10th
your value
peer avg

Differences in total investment cost are often caused by two factors that are often outside of management's control:

- Asset mix, particularly holdings of the highest cost asset classes: real estate (excl. REITs), infrastructure, hedge funds, private equity and private credit. These high cost assets equaled 33% of your assets at the end of 2022 versus a peer average of 28%.
- Fund size. Bigger funds have advantages of scale.

Therefore, to assess whether your costs are high or low given your unique asset mix and size, CEM calculates a benchmark cost for your fund. This analysis is shown on the following page.

#### **Total investment cost**

excluding transaction costs and private asset performance fees



## Benchmark cost analysis suggests that, after adjusting for fund size and asset mix, your fund was low cost by 13.4 basis points in 2022.

Your benchmark cost is an estimate of what your cost would be given your actual asset mix and the median costs that your peers pay for similar services. It represents the cost your peers would incur if they had your actual asset mix.

Your total cost of 44.3 bp was below your benchmark cost of 57.7 bp. Thus, your cost savings were 13.4 bp.

#### Your cost versus benchmark

	\$000s	basis points
Your total investment cost	190,862	44.3 bp
Your benchmark cost	248,792	57.7 bp
Your excess cost	(57 <i>,</i> 930)	(13.4) bp

## Your fund was low cost because it paid less than peers for similar services and it had a lower cost implementation style.

#### Reasons for your low cost status

	Excess C (Saving	
	\$000s	bps
1. Lower cost implementation style		
<ul> <li>Less active management, more lower cost passive</li> </ul>	(6,027)	(1.4
<ul> <li>More external management, less lower cost internal</li> </ul>	1,820	0.4
<ul> <li>Less LPs as a percentage of external</li> </ul>	(8,474)	(2.0
Less fund of funds	(11,380)	(2.6
<ul> <li>More co-investment as a percentage of LP/Co</li> </ul>	(6,075)	(1.4
More overlays	13,633	3.2
	<mark>(16,503)</mark>	(3.8)
2. Paying less than peers for similar services		
<ul> <li>External investment management costs</li> </ul>	(35,745)	(8.3
<ul> <li>Oversight, custodial &amp; other costs</li> </ul>	(5,682)	(1.3
	(41,427)	(9.6
Total savings	(57,930)	(13.4

#### Your implementation style was 3.8 bps lower cost than the peer average.

Implementation style is the way in which your fund implements asset allocation. Each implementation choice has a cost. Your first choice is how much to implement passively or actively. The table below summarizes your aggregate choices versus peers and their cost impact.

Implementation choices	Impact
More passive, less active	(1.4) bp
Less internal as a % of passive	(0.0) bp
Less internal as a % of active	0.4 bp
More evergreen % in private assets, excl. PE	(2.0) bp
Less fund of funds % of LP/Co/FoF	(2.6) bp
More co-investment % of LP/Co	(1.4) bp
More overlays	3.2 bp
Total impact	(3.8) bp

1. Implementation style is shown as a % of total fund fee basis because the fee basis is the primary driver of cost for private assets (e.g., new private equity LP commitments increase costs before LP NAV increases). Style weights are based on average holdings. Cash and derivatives are excluded.

The peer and universe style was adjusted to match your asset mix. It equals their average style for each asset class weighted by your fee basis for the asset class. It shows how the average peer would implement your asset mix.

#### Implementation style<sup>1</sup>



#### The table below summarizes why your fund is high/low cost relative to the peermedian by asset class.

Asset class/category	<u>Style weig</u> Your cost	<u>hted cost</u> Peer median <sup>1</sup> = Benchmark	More/ (less)	Your average assets (or fee basis) <sup>2</sup>	Due to impl. style	Due to paying more/(less) <sup>3</sup>	Total more/ (less)	1. The weighted peer median cost for asset management is the style-weighted average of the peer median costs for all implementation styles (e.g., internal passive,
Asset management costs Stock - U.S. broad/all Stock - Emerging Stock - ACWI x U.S. Fixed income - U.S. Fixed income - Emerging Fixed income - High yield Real estate ex-REITs Infrastructure Natural resources Private equity - Diversified Private credit Derivatives/Overlays Total asset management Oversight, custody and other costs Oversight of the Fund Trustee & Custodial Consulting Audit	0.5 bp 0.2 bp 0.1 bp 0.0 bp	(B) 6.7 bp 36.6 bp 29.2 bp 8.0 bp 32.7 bp 28.8 bp 100.5 bp 78.7 bp 89.8 bp 169.9 bp 97.1 bp 0.7 bp 55.5 bp 0.8 bp 0.4 bp 0.2 bp 0.1 bp	(C = A - B) (5.7) bp (26.8) bp (26.2) bp (3.0) bp (32.7) bp (52.5) bp (52.5) bp (52.5) bp (15.8) bp (15.8) bp (15.8) bp (12.4) bp 3.2 bp (12.1) bp (0.2) bp (0.0) bp (0.0) bp	(D) 9,999 2,121 5,557 9,684 463 935 2,539 150 266 8,817 1,458 43,093 43,093	(833) (941) (3,738) 846 138 73 (4,017) (228) (420) (17,455) (3,561) 13,633 (16,503)	(4,866) (4,746) (10,802) (3,727) (1,653) (679) (9,309) 144 0 (107) 0 0 (107) 0 0 (35,745)	(C × D) (5,699) (5,687) (14,540) (2,880) (1,514) (606) (13,326) (85) (420) (17,562) (3,561) 13,633 (52,247)	external active, fund of fund, etc.). It excludes performance fees on private assets. 2. Total fund average holdings is used as the base when calculating the relative cost impact of the overlay programs. 3. Total more/less differences include the impact of performance fees, which are not shown separately on this page. Refer to section 4 for a comprehensive breakdown of your differences. 4. Benchmarks for oversight total and individual lines are based on peer medians. Sum of the lines may be different from the total.
Other Total oversight, custody & other	0.1 bp 0.9 bp	0.2 bp 2.3 bp	(0.1) bp (1.3) bp	43,093	n/a	(5,682)	(5,682)	
Total	44.3 bp	57.7 bp	(13.4) bp	43,093	(16,503)	(41,427)	(57,930)	

#### Why are you high/(low) cost by asset class?

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## Your 5-year performance placed in the positive value added, low cost quadrant of the cost effectiveness chart.



Excess Cost

1. Your 5-year savings of 11.0 basis points is the average of your peer-based savings for the past 5 years.

	2022	2021	2020	2019	2018	5-year
Net value added	206.7bp	138.4bp	228.7bp	349.9bp	(78.0) bp	165.3bp
Excess cost	(13.4) bp	(9.0) bp	(14.0) bp	(10.3) bp	(8.4) bp	(11.0) bp

#### Summary of key takeaways

#### Returns

- Your 5-year net total return was 7.0%. This was above both the U.S. Public median of 5.9% and the peer median of 5.7%.
- Your 5-year policy return was 5.3%. This was above both the U.S. Public median of 4.6% and the peer median of 4.8%.

#### Value added

• Your 5-year net value added was 1.7%. This was above both the U.S. Public median of 1.1% and the peer median of 0.8%.

#### **Cost and cost effectiveness**

- Your investment cost of 44.3 bps was below your benchmark cost of 57.7 bps. This suggests that your fund was low cost compared to your peers.
- Your fund was low cost because it paid less than peers for similar services and it had a lower cost implementation style.
- Your costs increased by 5.4 bps, from 38.9 bps in 2018 to 44.3 bps in 2022, primarily because you had a higher cost asset mix. This was partly offset by paying less in total for similar investment styles.

#### Thank you



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