

Northern LGPS

Investment Benchmarking Results

For the 9-year period ending the 31st March 2023

Version 1
28-03-2024



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This benchmarking report provides an independent assessment of value-for-money.

We compare your costs with other pension funds, inside and outside LGPS. To provide context, we also compare your investment performance, asset mix, risk, funding etc. What emerges is a narrative about your fund, how it compares with others and why your investment outcomes compare as they do.

Cost

- How do our costs compare and why?
- Where are we paying more / less than others?
- What is the trend in our costs?

Performance

- Costs need to be seen in the context of performance.
- How do our returns compare with others and why?
- Are our active management decisions being rewarded?

Risk

- How does the risk in our portfolio compare with others?
- How does risk relate to relative funding levels?

Value-for-Money

- If we are paying more then are we getting more?
- How does our net value add compare with others?

The report is accompanied by an on-line dashboard. The dashboard allows your management team to drill-down on key metrics and access detailed comparisons of cost, performance and value at an asset class and mandate level.

Care is taken to validate the data contained in the report. This includes automated validations on outlying or unusual data as it is submitted, and an additional manual data 'clean' where our analysts interact with fund personnel to ensure the data is fit for purpose. Detailed notes and definitions are included as an appendix to the report.

We compare your costs with 19 global peer funds ranging from £13.2 bn to £126.0 bn.

The peer group is selected to answer a key question:

Are your costs reasonable for a fund of your size and with your assets?

Peers are therefore selected:

- Based on size - because size impacts costs.
- To include both LGPS and non-LGPS funds globally.
- Because they hold similar assets to you.
- For stability and validity:
 - Regular participants mean consistent year-on-year results.
 - To deliver a stable statistical sample.

The median size in the peer group is £56.9 bn (versus your average assets of £54.7 bn).

The names of peers are confidential and should not be disclosed to third parties.

¹ The data is aggregated for all of the funds within the pool, i.e., it includes both pooled and non-pooled assets (not just the assets managed by the pools on behalf of the funds).

² The data is aggregated from a sub-set of the funds within the pool (because not all of the individual funds benchmark with CEM).

We are benchmarking investment costs of £222.7m or 40.7 bps in 2023.

Asset class	Internal costs ¹ £000s	External management costs			Total		Trans. costs ² £000s	Other expenses ³ £000s
		Passive fees £000s	Active base fees £000s	Active perf. fees £000s	£000s	bps		
Equities, Bonds, Cash and Multi-Asset Strategies	6,616	1,902	32,996	280	41,794			
Global property	10		751	43	761	7.5		
Global property - LP	103		14,267	17,190	14,370	156.3		
Global property - FoFs								
Top Layer Fees			230	-457	230	164.3		
Underlying Fees			93	205	93	66.4		
Infrastructure	2,162		421	695	2,583	13.8		
Infrastructure - LP	343		30,735	22,764	31,078	151.4		
Infrastructure - Co-invest.	4		307	-114	311	38.9		
Domestic property - Evergreen	286		14,517	373	14,803	65.9		
Domestic property - LP	125		2,086	408	2,211	128.5		
Listed property	8		426		434	54.3		
Other listed real assets - External active	6		726		732	87.7		
Other real assets	78		7,440	-4,476	7,518	138.1		
Hedge funds - External active	1		1,914	340	2,255	105.6		
Hedge funds - FoFs								
Top Layer Fees	19		686	1,910	2,615	190.9		
Underlying Fees			1,767	2,329	4,096	299.0		
Private equity - Diversified - LP	484		45,672	9,644	46,156	153.8		
Private equity - Diversified - Co-invest.	55		2,401	-609	2,456	51.9		
Private equity - Diversified - FoFs								
Top Layer Fees	29		3,738	-4,961	3,767	43.8		
Underlying Fees			7,537	2,752	7,537	87.7		
Private credit	11		109	86	120	0.7		
Private credit - LP	223		22,518	9,832	22,741	137.6		
Private equity - Other - LP	316		6,528	3,721	6,844	85.2		
	10,879	1,902	197,866	4,859	215,506	39.4	4,755	
Oversight, custody and other costs ⁴					7,025	1.3		
Total benchmarked costs ⁵					222,531	40.7	16,057	

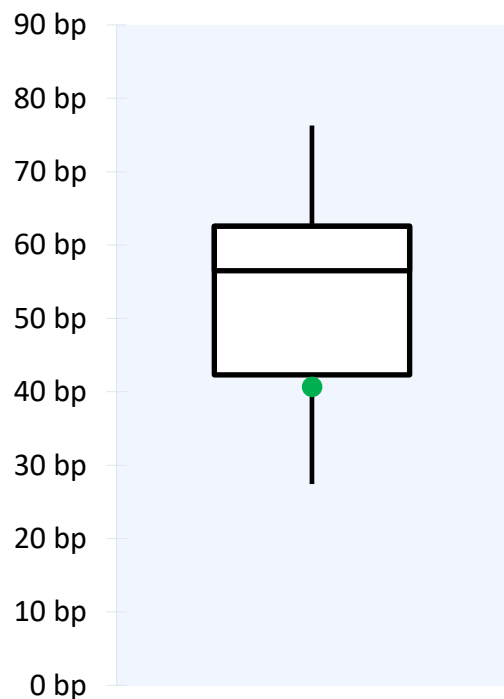
Numbers shaded in grey are excluded from the analysis that follows. Numbers shaded in blue include defaults for one or more mandates, please see appendix 1 to check the defaults used. Please see appendix 3 for any further notes.

Your cost of 40.7 bps was below your benchmark cost of 42.6 bps.

Comparison of costs *before adjusting for asset mix* :

Before adjusting for differences in asset mix, your costs of 40.7 bps were 15.8 bps below the peer median of 56.5 bps.

Your cost versus peers
(before adjusting for asset mix differences)



Comparison of costs *after adjusting for asset mix* :

To calculate a benchmark cost we apply peer median costs at an asset class level to your asset mix (i.e., we adjust for differences in asset mix).

Your cost versus benchmark
(after adjusting for asset mix differences)

	£000s	bps
Your investment cost	222,734	40.7
Your benchmark cost	232,965	42.6
Difference	(10,434)	(1.9)

The difference is explained by two factors:

	£000s	bps
1. Implementation style	36,170	6.6
2. Paying less for similar assets	(46,604)	(8.5)
Total	(10,434)	(1.9)

These factors are quantified in the pages overleaf.

Your fund was slightly low cost because it paid less than peers for similar services. These savings were mostly offset by a higher cost implementation style.

Reasons for your low cost status

	Excess Cost/ (Savings)	
	£000s	bps
1. Higher cost implementation style		
• More external active management (vs. lower cost passive and internal)	27,036	4.9
• More partnerships for private assets (vs. funds)	13,449	2.5
• Less fund of funds	(1,470)	(0.3)
• Less co-investment as a percentage of LP/Co	860	0.2
• Less overlays	(3,705)	(0.7)
	<u>36,170</u>	<u>6.6</u>
2. Paying less than peers for similar services		
• External investment management costs	(32,958)	(6.0)
• Internal investment management costs	(5,679)	(1.0)
• Oversight, custodial & other costs	(7,967)	(1.5)
	<u>(46,604)</u>	<u>(8.5)</u>
Total savings	(10,434)	(1.9)

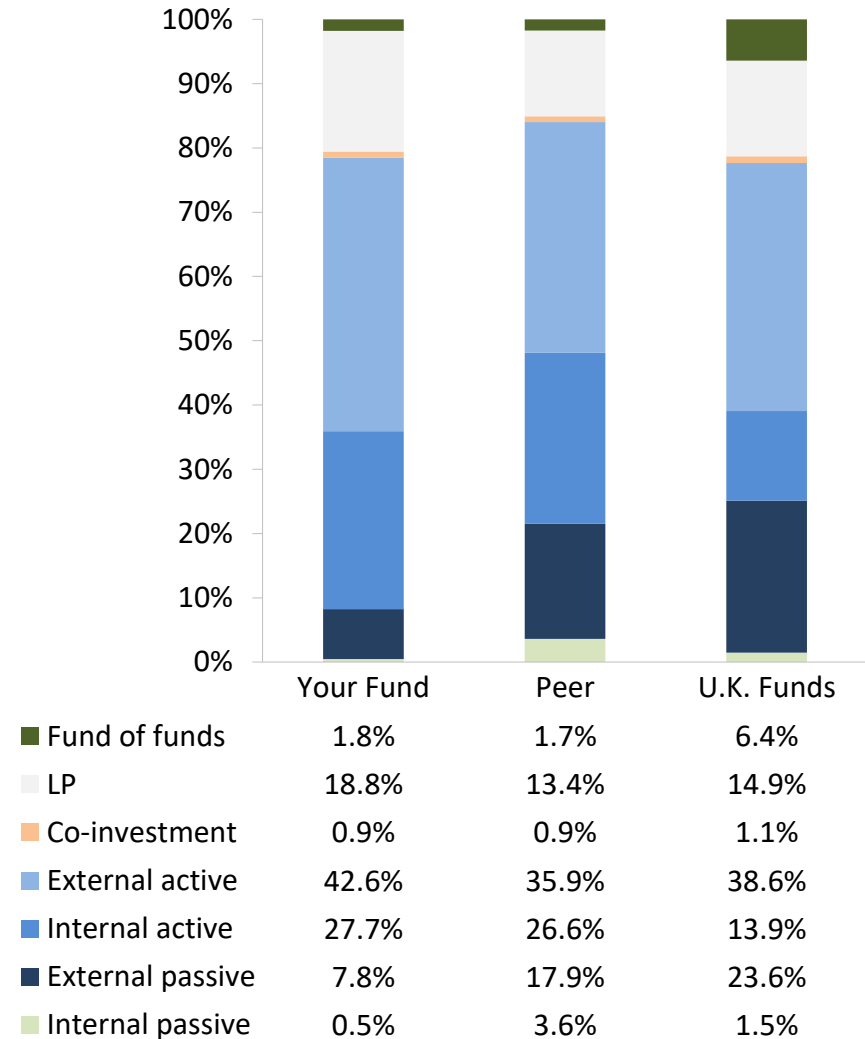
Your implementation decisions cost you 6.6 bps relative to peers.

Implementation choice is about structural differences in how funds implement strategy, e.g. more or less active or passive.

Your implementation choices versus peers	Impact bps	Impact £000s
Less fund of funds	(0.3)	(1,470)
More LPs (less evergreen)	2.5	13,449
More LPs (less co-investment)	0.2	860
More external (less internal)	2.7	14,653
More active (less passive)	2.3	12,383
Less overlays	(0.7)	(3,705)
Total impact	6.6	36,170

1. Typically, more internal than external is lower cost. But your mix of internal and external by asset class increased your cost. Specifically, your fund has more internal in public assets while peers have more internal in private assets. The difference between internal and external cost is larger in private assets, outweighing the benefit of your public advantage.

Implementation style



Changes in your asset mix increased your cost by 27.4 bps since 2015.

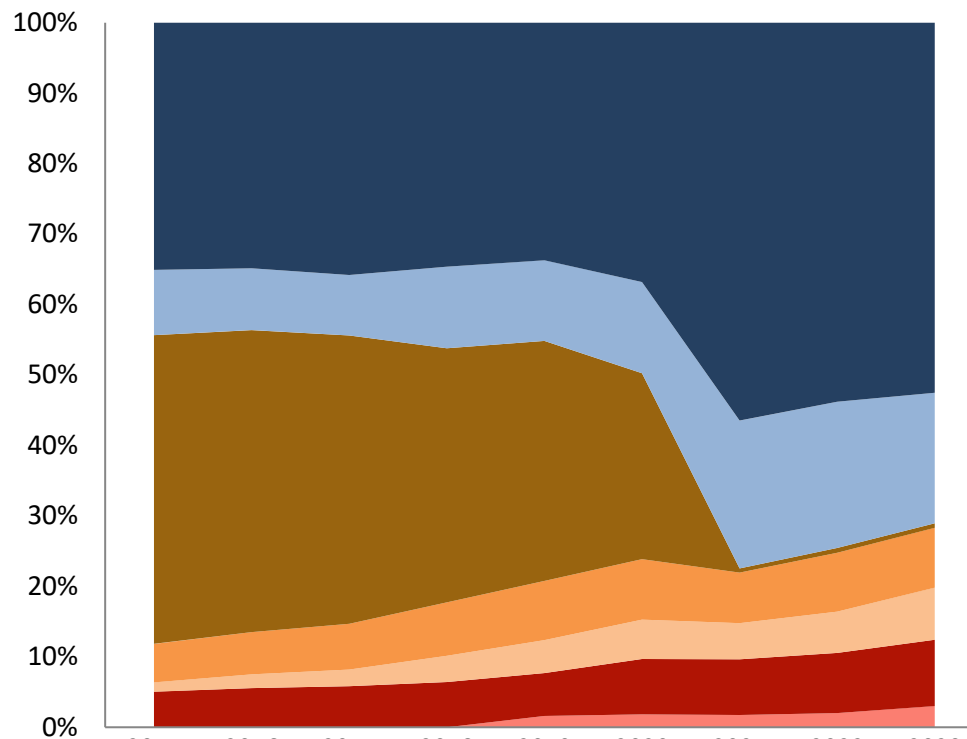
All other things being equal, changes in your asset mix influence your total cost. If you invest more in higher cost assets, particularly private assets, your costs

Asset classes that tend to have lower costs are denoted in blue and asset classes that tend to have higher cost assets are denoted in red colours.

The asset mix impact is the predicted change of your costs based on asset mix alone. It assumes that what you paid for each mandate and how you implemented your strategy was unchanged from the baseline year.

	Since last year	9-year
Start cost (bps)	38.1	34.7
Impact of:		
Asset mix	4.3	27.4
Implementation	3.8	(5.9)
Pay more/less	(5.6)	(15.5)
End cost (bps)	40.7	40.7

9-year trend in your actual asset mix



	2015	2016	2017	2018	2019	2020	2021	2022	2023
■ Equities	35%	35%	36%	35%	34%	37%	56%	54%	53%
■ Bonds	9%	9%	9%	12%	11%	13%	21%	21%	18%
■ Hedge funds & multi-asset	44%	43%	41%	36%	34%	26%	1%	1%	1%
■ Property	5%	6%	7%	8%	8%	9%	7%	8%	8%
■ Infrastructure ¹	1%	2%	2%	4%	5%	6%	5%	6%	7%
■ Private equity	5%	6%	6%	6%	6%	8%	8%	9%	9%
■ Private debt	0%	0%	0%	0%	2%	2%	2%	2%	3%

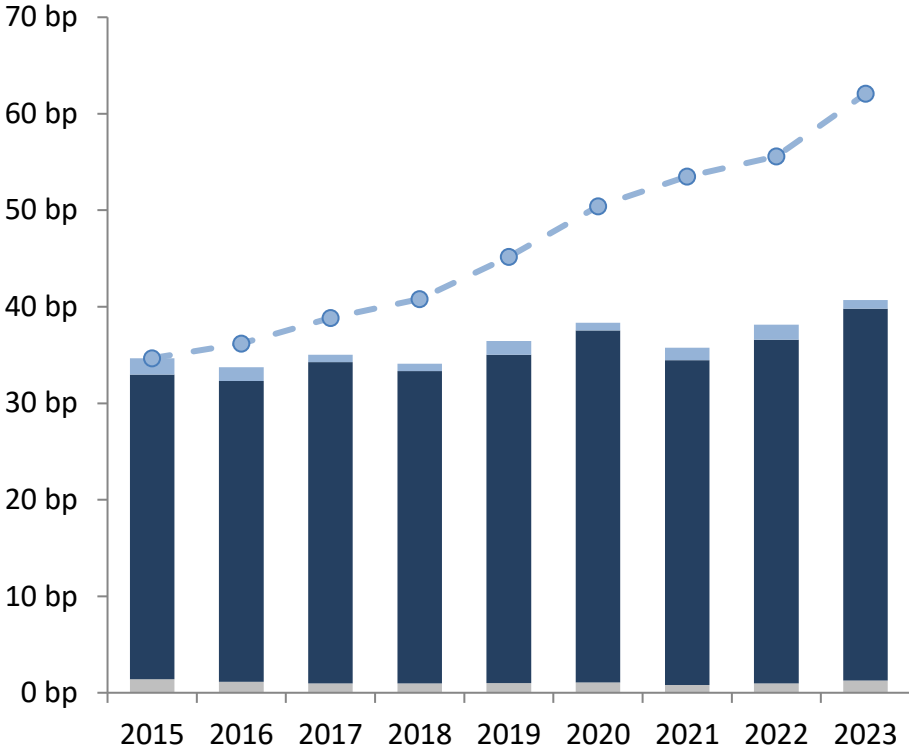
Your benchmarked costs increased from 34.7 bps in 2015 to 40.7 bps in 2023.

Your costs change over time because:

1. Your asset mix changes.
2. Your implementation approach changes, e.g., moving from active to passive or external to internal (or vice versa).
3. What you pay for mandates changes over time because:
 - Performance fees (if applicable) are variable.
 - Your line-up of managers and mandates changes.
 - Some mandates have cost bands that vary with assets.

The asset mix impact line on the graph shows the predicted change of your costs based on asset mix alone. It assumes that what you paid for each mandate and how you implemented your strategy was unchanged from the baseline year.

Investment cost changes (bps)

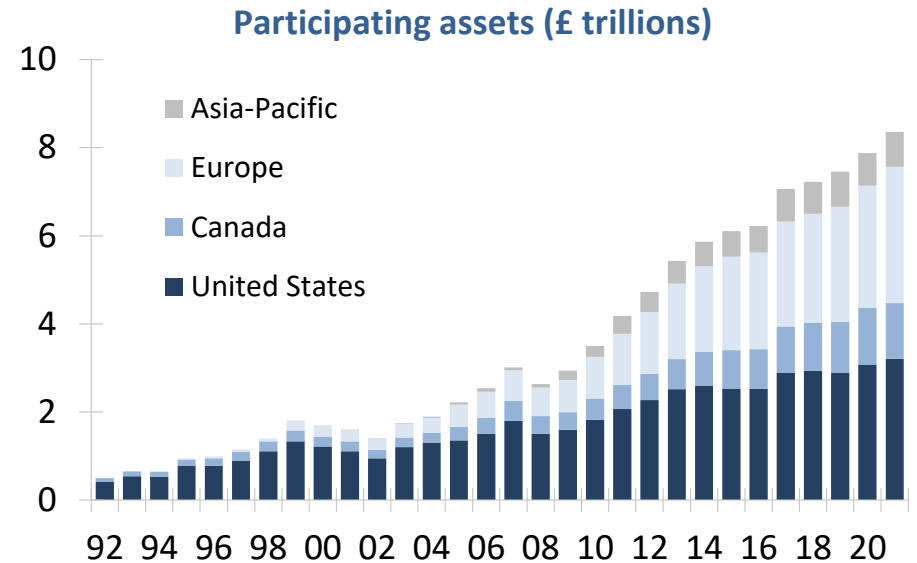


■ Performance	1.7	1.4	0.8	0.8	1.4	0.8	1.3	1.6	0.9
■ Base and intern	31.5	31.1	33.3	32.3	34.0	36.5	33.7	35.6	38.5
■ Oversight	1.4	1.1	1.0	1.0	1.0	1.1	0.8	1.0	1.3
Total	34.7	33.7	35.0	34.1	36.5	38.3	35.7	38.1	40.7
— Asset mix impac	34.7	36.2	38.8	40.8	45.2	50.4	53.5	55.6	62.1

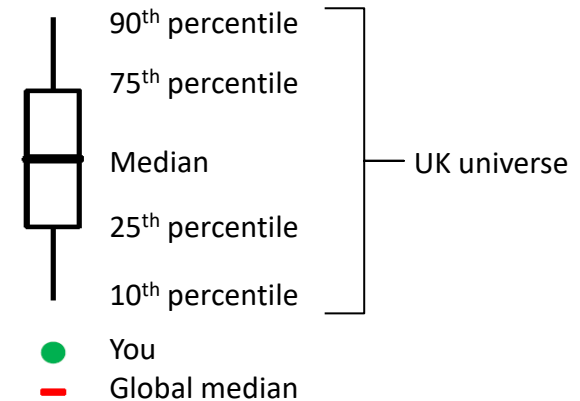
Costs need to be seen in the context of performance.

The CEM database contains data from 281 global funds with combined assets of £8 trillion. We are comparing your performance with the 24 UK funds within that universe with combined assets of £424 billion. These comparisons need to be interpreted cautiously because:

- Performance relative to liabilities is more important than performance relative to peers.
- Different funds have different liabilities, objectives, funding levels, employer covenants etc.
- Corporate funds that are de-risking have a very different risk appetite to open funds with a long time horizon (and so very different returns).
- Performance comparisons in this report are primarily with a domestic UK universe which contains both corporate and LGPS funds.



Key: Performance comparisons are presented in the form of 'bar and whisker' charts, as follows:

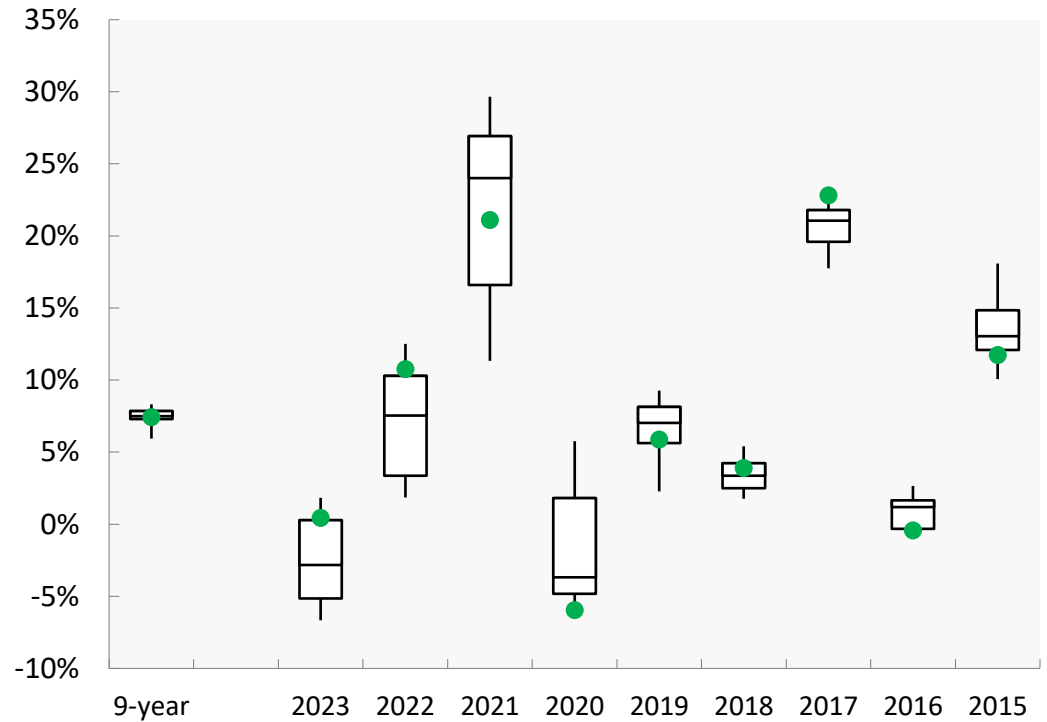


Your 9-year net total return of 7.4% was close to the LGPS median of 7.5%.

In the pages that follow, we help you to understand why your returns compare as they do by separating total return into its more

- *Benchmark return* : The return from strategic asset allocation decisions. These decisions are typically made by the local Pensions
- *Value added* : A function of active management decisions, including tactical asset allocation, manager selection, stock selection, etc. These 'implementation' decisions tend to be made by management.

U.K. net total returns - quartile rankings



Q3	7.9	0.3	10.3	26.9	1.8	8.1	4.2	21.8	1.7	14.8
Median	7.5	-2.8	7.5	24.0	-3.7	7.0	3.4	21.1	1.2	13.0
Q1	7.3	-5.1	3.4	16.6	-4.8	5.6	2.5	19.6	-0.3	12.1
Your fund	7.4	0.4	10.8	21.1	-6.0	5.9	3.9	22.8	-0.4	11.7
LGPS %ile	45%	82%	82%	40%	8%	32%	67%	92%	21%	20%

Your 9-year benchmark return of 6.6% was below the U.K. median of 7.2%.

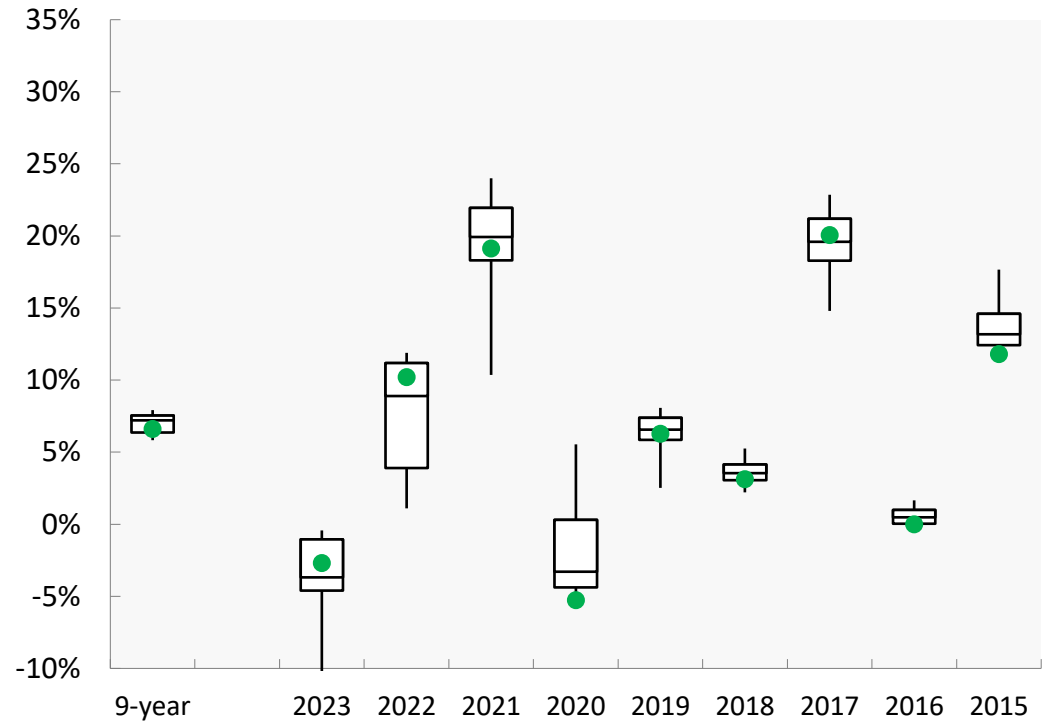
The benchmark return is the return you could have earned by implementing your strategy passively, i.e., by indexing your portfolio in line with your strategic asset allocation.

You have selected a strategic asset allocation based on your funding position, long-term market expectations, liabilities, employer covenant and appetite for risk.

These factors are different in each fund and it is unsurprising that benchmark returns (and total returns) often vary widely.

The following page looks at how your strategic asset allocation and choice of benchmarks compare with other LGPS funds.

U.K. benchmark returns - quartile rankings



Q3	7.5	-1.1	11.2	21.9	0.3	7.4	4.1	21.2	1.0	14.6
Median	7.2	-3.7	8.9	19.9	-3.3	6.6	3.5	19.6	0.5	13.2
Q1	6.4	-4.6	3.9	18.3	-4.4	5.9	3.1	18.3	0.0	12.4
Your fund	6.6	-2.7	10.2	19.1	-5.3	6.3	3.1	20.1	0.0	11.8
LGPS %ile	30%	57%	55%	35%	13%	32%	30%	56%	21%	15%

Benchmark returns are driven by strategic asset mix and choice of benchmarks.

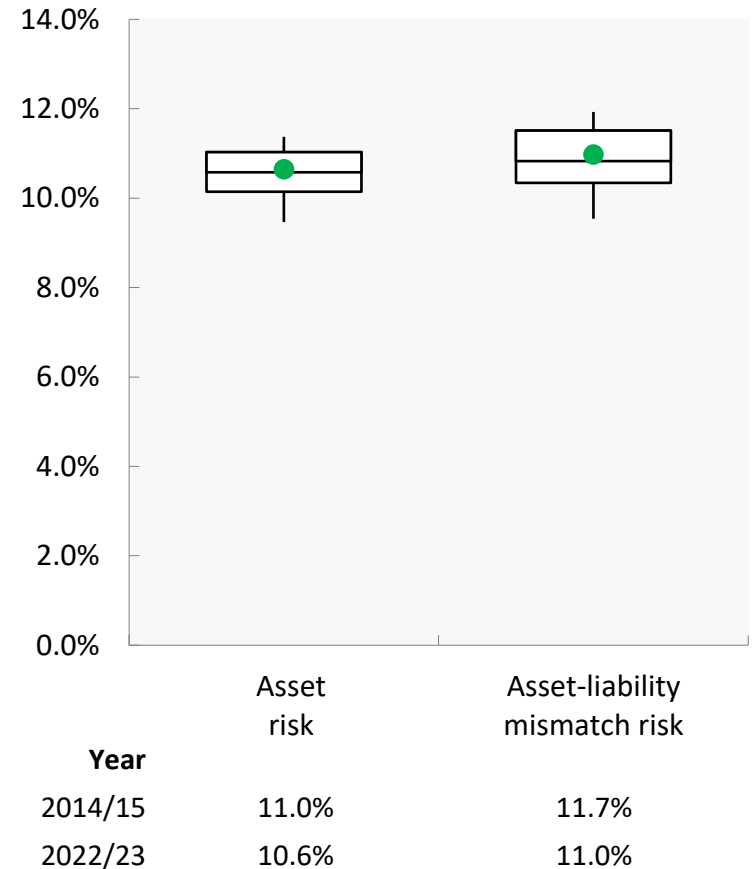
Strategic asset mix	You		Actual asset mix	9-year benchmark return	
	2015	2023	2023	You	U.K. Avg.
Equities - Asia-Pacific ex-Japan	4%	2%	3%	6.7%	7.2%
Equities - Japan	5%	3%	4%	9.0%	8.9%
Equities - UK	28%	19%	17%	5.8%	5.3%
Equities - Europe ex-UK	10%	7%	8%	8.5%	8.3%
Equities - U.S.	10%	5%	6%	15.0%	14.1%
Equities - Emerging	5%	4%	4%	7.5%	6.9%
Equities - Global	0%	5%	11%	9.5%	10.6%
Equities - Other	0%	5%	0%	n/a ¹	n/a ¹
Total equities	61%	52%	53%	8.5%	9.3%
Bonds - UK	1%	1%	3%	3.2%	3.1%
Bonds - UK gov't	4%	3%	2%	1.4%	1.4%
Bonds - UK credit	4%	3%	1%	2.7%	2.5%
Bonds - Inflation indexed	5%	3%	2%	2.6%	2.4%
Bonds - Global	3%	4%	4%	4.5%	3.0%
Bonds - Other	5%	6%	6%	n/a ¹	n/a ¹
Total bonds	22%	20%	18%	3.0%	2.5%
Global TAA	0%	0%	0%	n/a ¹	n/a ¹
Hedge funds	3%	1%	1%	2.8%	4.6%
Simple multi-asset strategies	0%	0%	0%	n/a ¹	n/a ¹
Infrastructure	2%	7%	7%	5.0%	3.4%
Real estate incl. REITs	8%	9%	7%	4.9%	5.8%
Other Real Assets	0%	1%	1%	n/a ¹	n/a ¹
Private equity	5%	7%	9%	4.8%	10.5% ²
Private debt	0%	3%	3%	n/a ¹	3.1%
Total alternatives	17%	26%	29%		

Your strategic asset mix is largely a function of your appetite for risk.

It is interesting and helpful to compare the overall expected level of volatility in your portfolio. Each fund has its own risk model, but we calculate risk on a standard basis in order to compare funds. It is your position relative to others that is helpful.

- Asset risk - A higher asset risk is indicative of a higher weighting to more volatile assets and/or more concentration in the portfolio (and vice-versa). Your asset risk of 10.6% was equal to the U.K. median of 10.6%.
- Asset-liability mismatch risk - A lower asset-liability mismatch risk means you are closer to a 'fully-matched' position. A higher asset-liability mismatch risk is indicative of a willingness to take more risk relative to liabilities. Your asset-liability risk of 11.0% was above the U.K. median of 10.8%.

LGPS risk levels at 31st March 2023



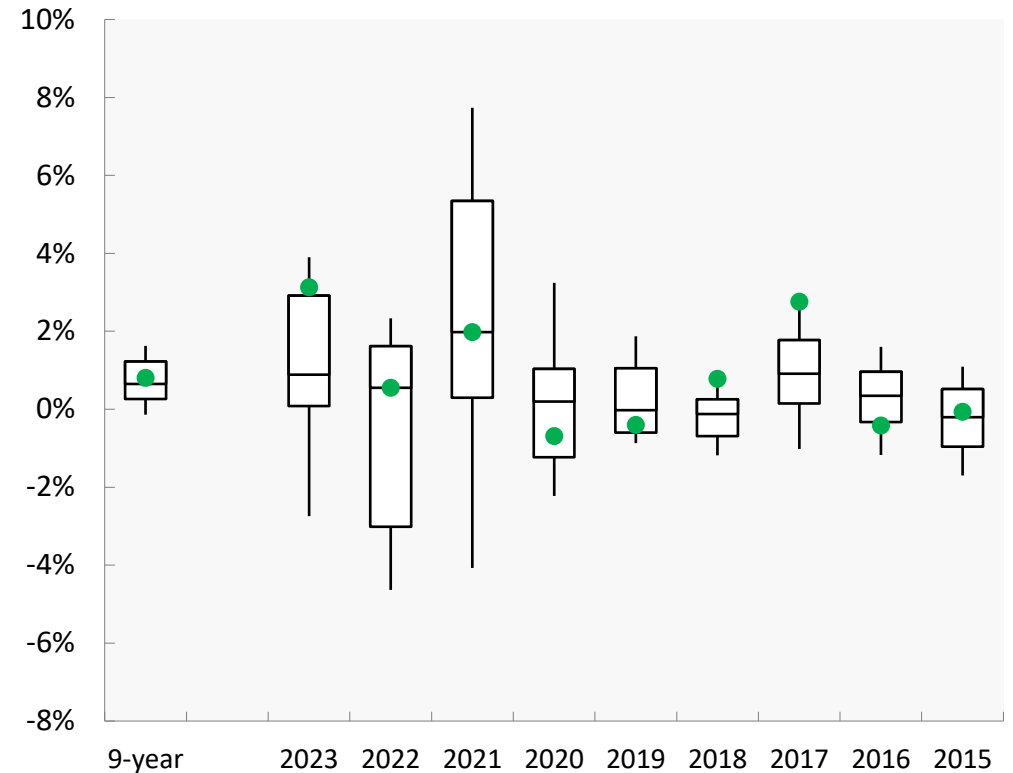
Your 9-year net value added of 0.8% was above the LGPS median of 0.6%.

Net value added is outperformance from active implementation decisions. It equals total net return minus benchmark return. It is a function of active management decisions made in the implementation of your strategy including tactical asset allocation, manager selection, stock selection, choice of benchmarks, hedging, overlays, etc.

Your average 9-year net value added of 0.8% compares to a median of 0.6% for the U.K. universe.

Year	Assets (£m)	Net value add (%)	Approx. net value add (£m)
2015	32,183	-0.1%	-23
2016	36,630	-0.4%	-154
2017	40,395	2.8%	1,115
2018	43,483	0.8%	339
2019	45,042	-0.4%	-180
2020	44,206	-0.7%	-305
2021	48,491	2.0%	960
2022	54,636	0.6%	300
2023	54,734	3.1%	1,713
Total		0.8%	3,766

U.K. net value added¹ - quartile rankings



Q3	1.2	2.9	1.6	5.3	1.0	1.0	0.3	1.8	1.0	0.5
Median	0.6	0.9	0.6	2.0	0.2	0.0	-0.1	0.9	0.3	-0.2
Q1	0.3	0.1	-3.0	0.3	-1.2	-0.6	-0.7	0.1	-0.3	-1.0
Your fund	0.8	3.1	0.6	2.0	-0.7	-0.4	0.8	2.8	-0.4	-0.1
LGPS %ile	60%	76%	50%	50%	29%	41%	85%	88%	21%	56%

9-year average net returns and net value added by major asset class



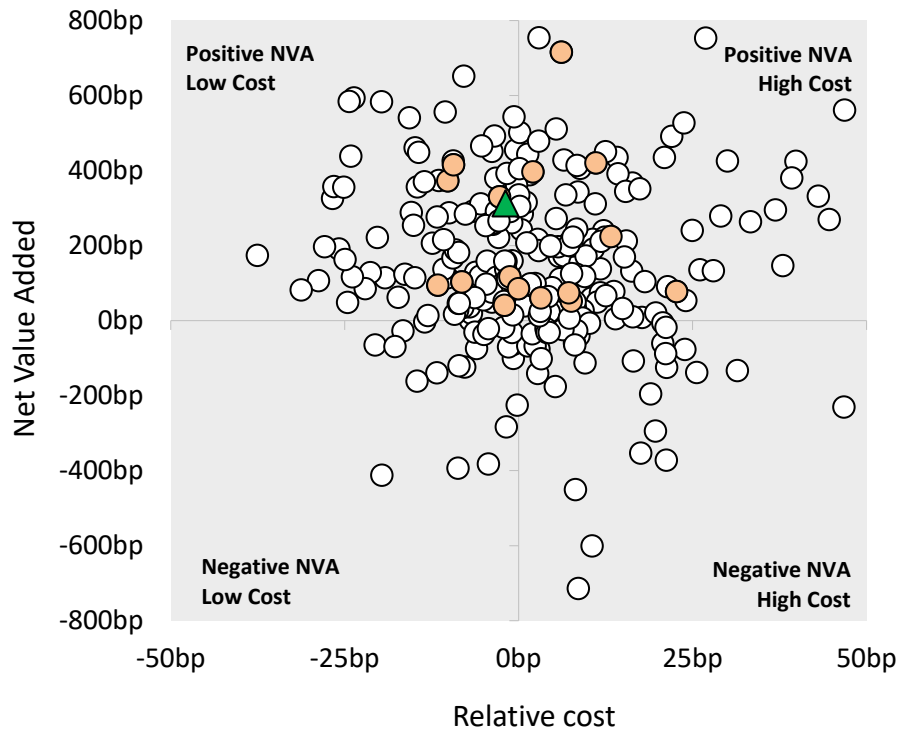
1. We do not have sufficiently detailed historic data to compare returns for 9 years.

2. To enable fairer comparisons, the private equity benchmarks of all participants, except your fund, were adjusted to reflect lagged, investable, public-market indices. If CEM used this same adjustment for your fund, your fund's 9-year private equity net value added would have been 4.5%.

Value-for-Money (VfM)

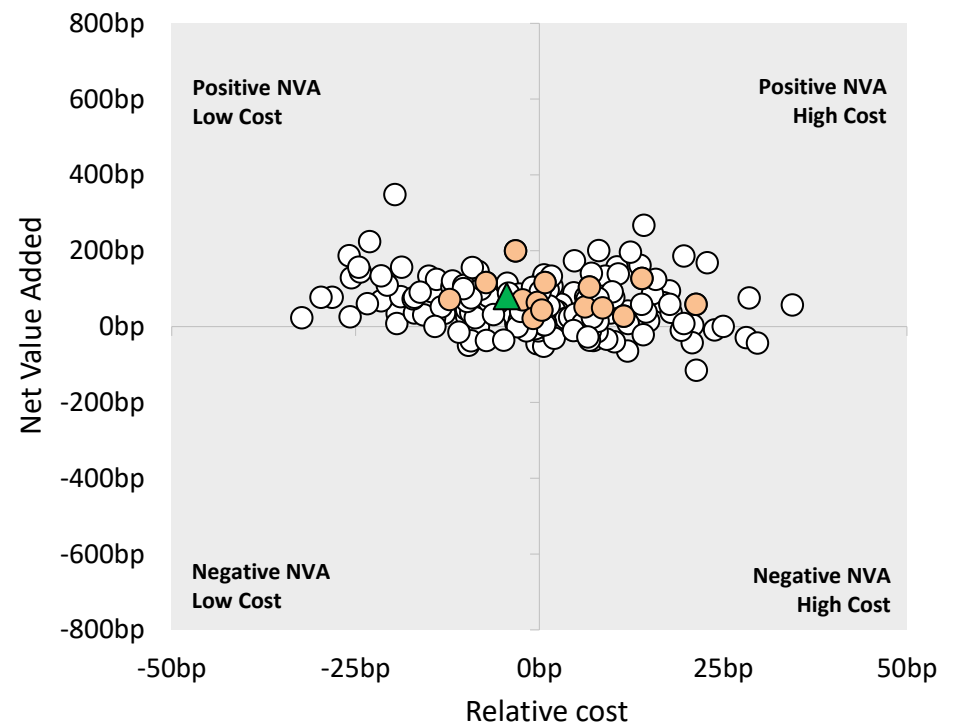
Your 2023 performance placed in the positive value added, low cost quadrant of the VfM chart.

(Your 2022/23: net value added 313.0 bps, cost savings 1.9 bps)



Your 9-year performance placed in the positive value added, low cost quadrant of the VfM chart.

(Your 9-year: net value added 80.2 bps, cost savings 4.5 bps)



	2023	2022	2021	2020	2019	2018	2017	2016	2015	9-year
Net value added (bps)	313.0	55.0	198.0	(69.0)	(40.0)	78.0	276.0	(42.0)	(7.0)	80.2
Your relative cost (bps)	(1.9)	(3.3)	(3.4)	(3.2)	(4.0)	(5.0)	(4.0)	(14.8)	(0.5)	(4.5)

Key takeaways

Cost

- Your investment cost of 40.7 bps was below your benchmark cost of 42.6 bps.
- In aggregate, you had a higher cost implementation style.
- In aggregate, you paid less than peers for similar assets.

Cost trend

- Your costs increased from 34.7 bps in 2014/15.
- Your costs increased because you moved to a higher cost asset mix. Your underlying costs fell materially.

Returns

- Your 9-year net total return was 7.4%. This was close to the U.K. median of 7.5%.
- Your 9-year benchmark return was 6.6%. This was below the U.K. median of 7.2%.

Funding and Risk

- Your strategic asset allocation suggests that you take more risk relative to your liabilities than U.K. peers.

Value added

- Your 9-year net value added was 0.8%. The U.K. median was 0.6% and the global median was 0.3%.
- Your cumulative 9-year net value added has added £3,766 million to the funding of your plans.

Cost effectiveness / value-for-money

- Your 9-year performance placed in the positive value added, low cost quadrant of the VfM chart.

Appendix 1: Defaults

Defaults are used where the fund is unable to provide data. Defaults are universe median costs by asset class and style.

Asset Class	Implementation style	Default used	Default bps	Based on
Hedge funds	Fund of funds	Underlying base fees	126	NAV
Private Equity - Diversified	Fund of funds	Underlying base fees	154	Fee basis ¹
Domestic Property	Limited Partnerships	Manager base fees	130	Fee basis ¹
Infrastructure	Limited Partnerships	Manager base fees	128	Fee basis ¹
Private Equity - Diversified	Limited Partnerships	Manager base fees	154	Fee basis ¹

1. For external property, infrastructure, natural resources and private equity/credit investments the fee basis is usually the committed amount during the commitment period and unreturned invested capital (i.e., book cost) afterward. Unreturned invested capital equals contributed capital less contributed capital attributable to realized investments plus the aggregate amount of write-downs, if any, with respect to unrealized investments. If this has not been provided the default will be based on NAV.

Appendix 2: SAA, Benchmarks and NVA (1 year)

Asset class	Strategic asset allocation (SAA)	Benchmark	Benchmark return	Actual net return	Net value added (NVA)
Equities - U.S.	5.4%	Your Stock: U.S. broad/all benchmark	0.4%	-0.6%	-1.0%
Equities - UK	18.9%	Your Stock: UK benchmark	3.8%	1.4%	-2.4%
Equities - Europe ex-UK	7.3%	Your Stock: Europe ex-UK benchmark	10.5%	9.5%	-1.0%
Equities - Japan	3.4%	Your Stock: Japan benchmark	3.9%	3.5%	-0.4%
Equities - Asia-Pacific ex-Japan	2.5%	Your Stock: Asia-Pacific ex-Japan benchmark	-2.6%	-1.3%	1.3%
Equities - Global	5.3%	MSCI ACWI with Special Taxes GBP	2.4%	1.3%	-1.1%
Equities - other	5.4%	Your Stock: Other benchmark	-0.5%		
Equities - Emerging	4.4%	Your Stock: Emerging benchmark	-3.6%	0.9%	4.5%
Bonds - U.S.				-11.1%	
Bonds - UK	1.2%	PLA UK Bonds BM	-4.1%	-25.4%	-21.3%
Bonds - UK gov't	2.6%	Your Bonds: UK gov't benchmark	-16.3%	-14.2%	2.1%
Bonds - UK credit	3.3%	Your Bonds: UK credit benchmark	-10.2%	-3.0%	7.2%
Bonds - Global	2.0%	LIBOR 3 Month +4%	-1.1%		
Bonds - Global gov't	2.0%	JPM GLOBAL GOV'T EX UK JPM World Ex UK Government Bc	-2.1%	-1.0%	1.1%
Bonds - Global credit		JPM GLOBAL GOV'T EX UK	-2.1%	-1.0%	1.1%
Bonds - other	1.0%	Barclays US TIPS			
Bonds - Inflation indexed	3.4%	Your Bonds: Inflation indexed benchmark	-24.9%	-25.3%	-0.4%
Bonds - Absolute return bonds				1.0%	
Bonds - Multi-asset credit	2.5%	Barclays Global Aggregate Credit Index	6.3%	-3.7%	-10.0%
Cash	2.4%	GBP 7 DAY LIBID LIBID 7 DAY RATE PLA Cash BM	2.2%	2.3%	0.1%
Infrastructure	6.5%	7.5% per annum GBP 7 day LIBID RPI+4%	13.6%	13.2%	-0.4%
Listed property				-15.3%	
Global property	7.9%	AREF-MSCI UK Quarterly Property Fund Index IPD UK Month	-15.3%	0.8%	16.1%
Domestic property	0.8%	IPD UK Monthly Property Index Merseyside IPD Quarterly In	-7.8%	-8.9%	-1.1%
Other real assets	1.0%	RPI+4%	17.5%	4.9%	-12.6%
Hedge funds	1.1%	7.5% PER ANNUM GBP 7 day LIBID	3.6%	8.7%	5.1%
Private credit	2.7%	Your Private credit benchmark	7.5%	8.4%	0.9%
Private equity - Diversified	5.7%	Your Private equity - Diversified benchmark	5.3%	5.0%	-0.3%
Private equity - Other	1.5%	RPI+4%	17.5%	6.6%	-10.9%
Total	100.0%				
Net Actual Return (reported by you) at a whole-of-fund level				0.4%	
Benchmark Return (reported by you) at a whole-of-fund level				-2.7%	

Net Value Added (Net Return - Benchmark Return)

3.1%

Appendix 3: Notes

Page	Note
4	<ol style="list-style-type: none">1. Your internal costs reflect both the cost of managing assets internally (either yourself or at a pooled level) and the cost of selection, monitoring2. Transaction costs should not be regarded as complete. They are shown only where provided. We specifically exclude transaction costs from the benchmarking analysis because of concerns over the consistency and validity of data. We hope to include transaction costs in future years.3. Other expenses include fund administration, governance, compliance, distribution and communication costs captured from CTI templates.4. Benchmarked investment costs exclude pension administration costs and non-investment related governance and oversight costs.5. Your 2022/23 financial statements report investment costs of £208.18 million . The costs benchmarked here are different. This is likely because of differences in standard definitions, and/or estimations of costs in financial statements.
7	<ol style="list-style-type: none">1. The LGPS universe currently comprises of 24 funds.
8	<ol style="list-style-type: none">1. The cost that the Peer group is expected to pay for this asset class and style, based on their median cost (in bps).2. Bps impact at the total fund level, i.e., what the mandate contributes to the overall total cost vs. benchmark.
8	<ol style="list-style-type: none">1. Also includes natural resources.
13	<ol style="list-style-type: none">1. A value of 'n/a' is shown if asset class returns are not available for the full 9 years or if they are broad and incomparable.2. To enable fairer comparisons, the private equity benchmarks of all participants, except your fund, were adjusted to reflect lagged, investable, public-market indices. If CEM used this same adjustment for your fund, your fund's 9-year private equity net value added would have been 4.5%. The 9-year average, self-reported benchmark from private equity was 6.29%
14	<ol style="list-style-type: none">1. Asset risk is the standard deviation of your benchmark return. It is based on the historical variance of, and covariance between, the asset classes in your strategic asset allocation.2. Asset-liability mismatch risk is the standard deviation of funded status caused by market factors. It is a function of the standard deviations of your asset risk, your marked-to-market liabilities and the correlation between the two.
15	<ol style="list-style-type: none">1. The funding level is based on standardised actuarial assumptions developed for the Scheme Advisory Board (SAB). Most of the key assumptions are consistent across funds but some assumptions, and in particular mortality assumptions, are fund specific. The standard basis serves a useful purpose in providing context for comparisons of asset risk and asset-liability mismatch risk.

Appendix 3: Notes

Page	Note
16	<ol style="list-style-type: none">1. To enable fairer comparisons, the value added for each participant, except your fund, was adjusted to reflect private equity benchmarks based on lagged, investable, public-market indices. If CEM used this same adjustment for your fund, your 9-year total fund value added would have been 0.3% lower.
17	<ol style="list-style-type: none">1. We do not have sufficiently detailed historic data to compare returns for 9 years.2. To enable fairer comparisons, the private equity benchmarks of all participants, except your fund, were adjusted to reflect lagged, investable, public-market indices. If CEM used this same adjustment for your fund, your fund's 9-year private equity net value added would have been 4.5%.