

Cambridgeshire Pension Fund
Monitoring Report
Quarter to
31 December 2022

Chris West

February 2023



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Please also note:

- The value of investments can go down as well as up and you may not get back the amount you have invested. In addition investments denominated in a foreign currency will fluctuate with the value of the currency.
- The valuation of investments in property based portfolios, including forestry, is generally a matter of a valuer's opinion, rather than fact.
- When there is no (or limited) recognised or secondary market, for example, but not limited to property, hedge funds, private equity, infrastructure, forestry, swap and other derivative based funds or portfolios it may be difficult for you to obtain reliable information about the value of the investments or deal in the investments.
- Care should be taken when comparing private equity / infrastructure performance (which is generally a money-weighted performance) with quoted investment performance (which is generally a time-weighted performance). Direct comparisons are not always possible.

Chris West

Executive Dashboard

Funding

The present value of the Fund's liabilities decreased over the quarter (from £3,038m to £2,885m).

The Fund's assets (including cash) increased over the quarter by £28.6m to £4,121.6m as at 31 December 2022. The Fund's assets (including cash) have decreased by £202.4m over the last twelve months.

The estimated funding level at 31 December 2022 was c. 143%, up from c. 135% as at 30 September 2022. For comparison, the funding level at 31 March 2019 (the date of the previous actuarial valuation) was 100%.

Asset Allocation

In December 2022, there was an investment of c. £35m in the Schroders Government Bond mandate.

Overweight Underweight

Equities +1.1% Fixed Income -1.1%

Performance

Short Term Performance

The Fund underperformed the benchmark over the quarter (returning 0.6% vs 1.7%).

Key Contributors to Relative Performance – Quarter

Outperformance by Dodge & Cox - Global Equity
(vs the MSCI AC World Index)

Outperformance by Longview – Global Equity

Negative impact from Schroders – Equity Protection

-0.4%

Underperformance in Private Equity

-0.9%

Longer Term Performance

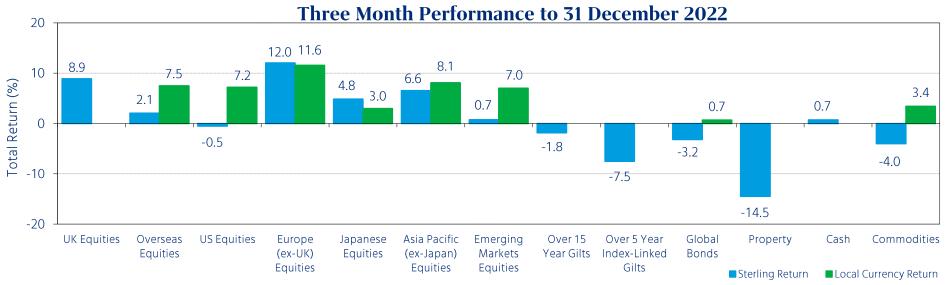
	Fund	B'mark
1 Year (%)	-5.7	-6.6
3 Years (% p.a.)	5.6	5.9

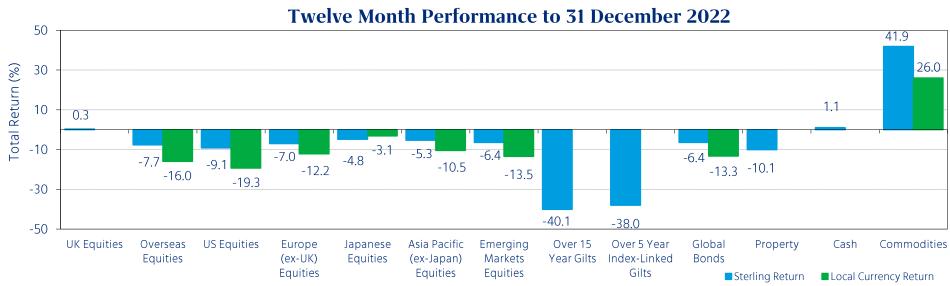
Manager Research

Rating Changes

Redacted.

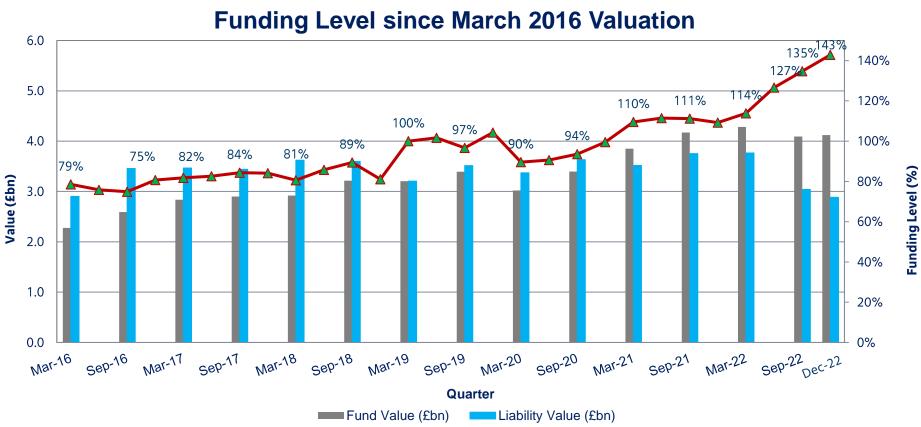
Market Index Performance





Source: Refinitiv.

Funding



Source: Hymans Robertson & WM Performance Reports. Figures don't reconcile with the Hymans Robertson Funding report due to differences in the total asset value. The Funding Level is a ratio of assets to liabilities.

- There has been a general trend from 2016 of a rise in both liabilities and assets.
- There was an increase in funding level at the March 2016 and March 2019 valuations.
- The funding level as at 31 December 2022 was 143%, which is higher than the funding level as at 30 September 2022, driven by a fall in liability value and assets value increase.

Allocation

	30/09/2022 Market Value (£M)	31/12/2022 Market Value (£M)	30/09/2022 Allocation (%)	31/12/2022 Allocation (%)	31/12/2022 B'mark (%)	31/12/2022 B'mark Range (%)
Total Invested Assets	4,093.0	4,106.3	100.0	100.0	100.0	
Equities	2,219.0	2,303.3	54.2	56.1	55.0	50.0 - 60.0
Fixed Income	534.0	571.9	13.0	13.9	15.0	12.0 - 18.0
Alternatives	1,277.1	1,231.1	31.2	30.0	30.0	25.0 - 35.0
Cash in Transit	63.0		1.5			

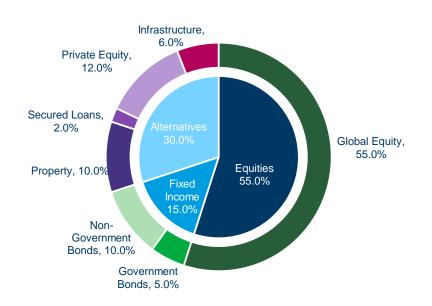
Source: Investment Managers, Link Asset Services and Mercer.

Figures may not sum to total due to rounding.

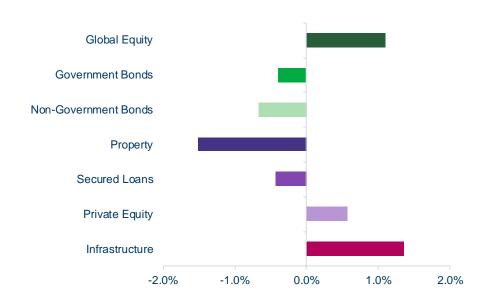
The total market value shown in the table above excludes cash (c. £15.3m at the end of quarter).

Cash value at the start of the quarter includes proceeds of £63m disinvestment from UBS equity in September 2022, which was used to meet capital calls from the Fund's private markets managers and M&G Shared Ownership over Q4.

Benchmark Asset Allocation as at 31 December 2022



Deviation from Benchmark Asset Allocation



Manager Allocation (1/3)

	30/09/2022 Market Value (£M)	31/12/2022 Market Value (£M)	30/09/2022 Allocation (%)	31/12/2022 Allocation (%)	31/12/2022 B'mark (%)	31/12/2022 B'mark Range (%)
Total Invested Assets	4,093.0	4,106.3	100.0	100.0	100.0	
Equities (inc. Equity Options)	2,219.0	2,303.3	54.2	56.1	55.0	50.0 - 60.0
Active Global Equity	1,405.0	1,451.7	34.3	35.4	35.0	
JO Hambro - Global Equity (a)	467.8	467.1	11.4	11.4		
Dodge & Cox - Global Equity (a)	537.5	563.6	13.1	13.7		
Longview - Global Equity (a)	399.7	421.0	9.8	10.3		
Schroders - Equity Protection	33.1	16.3	8.0	0.4		
Passive Equity	780.8	835.4	19.1	20.3	20.0	
UBS - Passive Equity (a)	780.8	835.4	19.1	20.3	20.0	
Fixed Income	534.0	571.9	13.0	13.9	15.0	12.0 - 18.0
Government Bonds	163.1	189.1	4.0	4.6	5.0	
Schroders - Bonds	163.1	189.1	4.0	4.6	5.0	
Non-Government Bonds	370.9	382.8	9.1	9.3	10.0	
Bluebay - Multi-Asset Credit	174.9	183.6	4.3	4.5	5.0	
M&G - Multi-Asset Credit (a)	196.0	199.2	4.8	4.9	5.0	

Source: Investment Managers, Link Asset Services and Mercer.

Figures may not sum to total due to rounding.

Cash value at the start of the quarter includes proceeds of £63m disinvestment from UBS equity in September 2022, which was used to meet capital calls from the Fund's private markets managers and M&G Shared Ownership over Q4.

The total market value shown in the table above excludes cash (c. £15.3m at the end of quarter).

⁽a) The total market value invested in ACCESS is c. £2,381.8m at the start of quarter and c. £2,486.3m at the end of quarter.

Manager Allocation (2/3)

	30/09/2022 Market Value (£M)	31/12/2022 Market Value (£M)	30/09/2022 Allocation (%)	31/12/2022 Allocation (%)	31/12/2022 B'mark (%)	31/12/2022 B'mark Range (%)
Alternatives	1,277.1	1,231.1	31.2	30.0	30.0	25.0 - 35.0
Property	382.3	348.5	9.3	8.5	10.0	
Schroder - Property	307.6	274.7	7.5	6.7	7.0	
M&G - Residential Property	58.5	57.6	1.4	1.4	1.5	
M&G - Shared Ownership	16.2	16.2	0.4	0.4	1.5	
Secured Loans	62.6	64.0	1.5	1.6	2.0	
M&G - Secured Loans	62.6	64.0	1.5	1.6	2.0	
Private Equity	525.5	516.1	12.8	12.6	12.0	
Adams Street - Private Equity	195.1	197.0	4.8	4.8		
HarbourVest - Private Equity	200.4	187.3	4.9	4.6		
Foresight - Private Equity	30.0	31.9	0.7	0.8		
Cambridgeshire and Counties Bank	85.0	85.0	2.1	2.1		
Cambridgeshire Building Society	15.0	15.0	0.4	0.4		

Source: Investment Managers, Link Asset Services and Mercer.

Figures may not sum to total due to rounding.

Cash value at the start of the quarter includes proceeds of £63m disinvestment from UBS equity in September 2022, which was used to meet capital calls from the Fund's private markets managers and M&G Shared Ownership over Q4.

The total market value shown in the table above excludes cash (c. £15.3m at the end of quarter).

⁽a) The total market value invested in ACCESS is c. £2,381.8m at the start of quarter and c. £2,486.3m at the end of quarter.

Manager Allocation (3/3)

	30/09/2022 Market Value (£M)	31/12/2022 Market Value (£M)	30/09/2022 Allocation (%)	31/12/2022 Allocation (%)	31/12/2022 B'mark (%)	31/12/2022 B'mark Range (%)
Infrastructure	306.7	302.4	7.5	7.4	6.0	
UBS - Infrastructure	9.7	9.0	0.2	0.2		
Equitix - Infrastructure	30.3	30.5	0.7	0.7		
Partners Group - Infrastructure	54.9	47.9	1.3	1.2		
AMP Capital - Infrastructure Debt	45.6	44.3	1.1	1.1		
Allianz - Infrastructure Debt	12.5	12.4	0.3	0.3		
IFM - Infrastructure Equity	87.7	87.3	2.1	2.1		
JPM - Infrastructure Equity	66.1	71.0	1.6	1.7		
Cash in Transit	63.0		1.5			

Source: Investment Managers, Link Asset Services and Mercer.

Figures may not sum to total due to rounding.

Cash value at the start of the quarter includes proceeds of £63m disinvestment from UBS equity in September 2022, which was used to meet capital calls from the Fund's private markets managers and M&G Shared Ownership over Q4.

The total market value shown in the table above excludes cash (c. £15.3m at the end of quarter).

⁽a) The total market value invested in ACCESS is c. £2,381.8m at the start of quarter and c. £2,486.3m at the end of quarter.

Net Manager Performance (1/2)

	2022 Q4 (%)	B'mark (%)	1 Yr (%)	B'mark (%)	3 Yrs (%)	B'mark (%)	5 Yrs (%)	B'mark (%)
Total	0.6	1.7	-5.7	-6.6	5.6	5.9	5.8	6.4
Equities (inc. Equity Options)	3.8	3.7	-6.6	-8.5	6.2	6.8	6.3	7.3
Equities (ex. Equity Options)	4.6	3.7	-7.8	-8.5	7.1	6.8	6.8	7.3
JO Hambro - Global Equity	-0.1	1.9	-23.4	-8.1	7.1	7.4	7.8	7.7
Dodge & Cox - Global Equity	4.9	6.2	5.4	4.9	9.3	7.4	7.4	6.7
Longview - Global Equity	5.3	1.9	2.4	-8.1				
UBS - Passive Equity	7.0	7.1	-9.0	-9.2	5.7	5.5		
Fixed Income	0.5	0.9	-16.6	-16.8	-3.3	-1.3	-1.3	0.0
Schroders - Bonds	-5.5	-5.5	-36.4	-36.4	-10.8	-10.8		
Bluebay - Multi-Asset Credit	5.0	4.1	-9.3	-7.1				
M&G - Multi-Asset Credit	1.6	4.1	-0.5	-7.1				

Figures shown are net of fees and based on performance provided by the Investment Managers, Link Asset Services, WM, Mercer estimates and Refinitiv.

For periods over one year the figures in the table above have been annualised.

M&G Multi-Asset Credit performance figures are reported by Link Asset Group with one month lag. M&G Shared Ownership last quarter performance is always assumed zero due the lag in final data.

Total Equities, Total Fixed Income, Total Alternatives and Total Fund performance includes the performance of terminated mandates.

Total and Equities (inc. Equity Options) fund performance include the contribution of the equity protection strategy managed by Schroders.

Dodge & Cox performance is monitored against the MSCI AC World Value Index, but the MSCI AC World (NDR) Index is used in total benchmark performance calculations.

Net Manager Performance (2/2)

	2022 Q4 (%)	B'mark (%)	1 Yr (%)	B'mark (%)	3 Yrs (%)	B'mark (%)	5 Yrs (%)	B'mark (%)
Alternatives	-5.1	-1.8	2.8	-2.1	9.5	7.3	8.6	7.2
Schroder - Property	-10.7	-14.1	-6.7	-9.5	2.2	2.2	3.2	2.9
M&G - Residential Property	-1.6	1.5	3.6	6.0	2.2	6.0		
M&G - Shared Ownership	0.0	1.5	6.6	6.0				
M&G - Secured Loans	2.8	1.7	-2.6	5.5	1.1	4.8	2.0	4.8
Adams Street - Private Equity	5.5	2.1	14.1	8.6	30.4	8.6	25.7	9.8
HarbourVest - Private Equity	6.8	2.1	36.4	8.6	37.1	8.6	30.0	9.8
Foresight - Private Equity	7.8	2.1	28.2	8.6				
UBS - Infrastructure	6.6	2.5	14.9	10.0	-8.4	10.0	-1.0	10.0
Equitix - Infrastructure	1.0	2.5	3.0	10.0	0.1	10.0	5.3	10.0
Partners Group - Infrastructure	9.1	2.5	16.8	10.0	12.3	10.0	12.6	10.0
AMP Capital - Infrastructure Debt	8.5	2.5	17.8	10.0	7.0	10.0	7.0	10.0
Allianz - Infrastructure Debt	-16.1	1.0	-33.8	4.0	-12.4	4.0		
IFM - Infrastructure Equity	6.4	2.5	24.0	10.0				
JPM - Infrastructure Equity	6.9	2.5	18.4	10.0				

Figures shown are net of fees and based on performance provided by the Investment Managers, Link Asset Services, WM, Mercer estimates and Refinitiv.

For periods over one year the figures in the table above have been annualised. Total Equities, Total Fixed Income, Total Alternatives and Total Fund performance includes the performance of terminated mandates. Total Fund and Alternatives performances include quarterly performances for the private markets managers, calculated by Mercer using a Modified Dietz approach based on data provided by these managers (with the exception of IFM where performance is provided by the manager). Over the long term, performances are chain linked using quarterly Total Fund performances. Performance shown is net of illiquid mandates' fees. Performance for the underlying private equity and infrastructure mandates is shown in the GBP currency with a quarter lag. Benchmark performance shown for the underlying private equity mandates is the rolling 3 year MSCI World Index return, averaged on a quarterly basis.

Appendix

Appendix A

Benchmarks

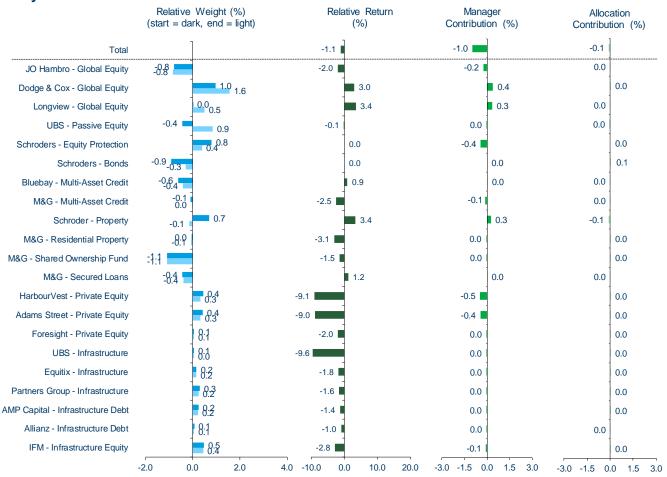
Name	B'mark (%)	Performance Benchmark	Performance Target	Tracking Error Expectation
Total Invested Assets	100.00	-	-	-
Equities (inc. Equity Options)	55.00	-	-	-
JO Hambro - Global Equity		MSCI AC World (NDR) Index	+3.00% p.a. (gross of fees)	5.00% - 12.00% p.a.
Dodge & Cox - Global Equity	35.00	MSCI AC World Value Index	+3.00% p.a. (gross of fees)	-
Longview - Global Equity		MSCI AC World (NDR) Index	+3.00% p.a. (gross of fees)	-
Schroders - Equity Protection		-	-	-
UBS - Passive Equity	20.00	Composite Benchmark	To match the benchmark	-
Fixed Income	15.00	-	-	-
Schroders - Bonds	5.00	Assumed equal to fund performance	-	-
Bluebay - Multi-Asset Credit	5.00	Composite Benchmark	-	-
M&G - Multi-Asset Credit	5.00	Composite Benchmark	-	-
Alternatives	30.00	-	-	-
Schroder - Property	7.00	MSCI All Balanced Property Funds Index	+0.75% p.a. (net of fees)	-
M&G - Residential Property	1.50	Absolute Return of 6.0% p.a.	-	-
M&G - Shared Ownership	1.50	Net Return of 5-7% p.a.	-	-
M&G - Secured Loans	2.00	SONIA +4.0% p.a.	-	-
Private Equity	12.00	-	-	-
Adams Street - Private Equity		MSCI World Index	+3.00% p.a. (gross of fees)	-
HarbourVest - Private Equity		MSCI World Index	+3.00% p.a. (gross of fees)	-
Foresight - Private Equity		MSCI World Index	+3.00% p.a. (gross of fees)	-
Infrastructure	6.00	-	-	-
UBS - Infrastructure		IRR of 10.0% p.a.	-	-

Name	B'mark (%)	Performance Benchmark	Performance Target	Tracking Error Expectation
Equitix - Infrastructure		IRR of 10.0% p.a.	-	-
Partners Group - Infrastructure		IRR of 10.0% p.a.	-	-
AMP Capital - Infrastructure Debt		IRR of 10.0% p.a.	-	-
Allianz - Infrastructure Debt		IRR of 4.0% p.a.	-	-
IFM - Infrastructure Equity		IRR of 10.0% p.a.	-	-
JPM - Infrastructure Equity		IRR of 10.0% p.a.	-	-

Dodge & Cox performance is monitored against the MSCI AC World Value Index, but the MSCI AC World (NDR) Index is used in total benchmark performance calculations. Bluebay - Multi-Asset Credit: composite benchmark is 50% ICE BofAML Global High Yield Constrained and 50% Morningstar LSTA US Leveraged Loan 100 Hedged. M&G - Multi-Asset Credit: composite benchmark is 50% ICE BofAML Global High Yield Constrained and 50% Morningstar LSTA US Leveraged Loan 100 Hedged.

Appendix B

Detailed Attribution Analysis - Quarter



Please note that the relative return and relative weight charts use unrounded performance and allocation figures to calculate the relative difference, hence the numbers are not directly comparable to the implied relative difference given in the performance and allocation tables.

All Global Equity Funds use MSCI AC World index as the underlying benchmark. Total Fund performance figures exclude the Cambridgeshire and Counties Bank and Cambridgeshire Building Society private equity mandates so relative weights will not tie up with the allocation tables. Figures shown for the private equity and infrastructure mandates (with the exception of IFM) are estimated in GBP to the quarter end date.

Explanation of Attribution Analysis Chart

The purpose of the attribution analysis chart is give a visual representation of the contribution of each portfolio to the relative performance of the Total Scheme against the Total Benchmark". The contribution is apportioned between "Manager Contribution" and "Allocation Contribution. Further explanation of the terms used in the chart is given below.

Relative Weight - This is the difference in percentage terms of the actual Scheme allocation and benchmark allocation at both the start and end of the period. A bar greater (less) than zero indicates that the Scheme was overweight (underweight) to that portfolio.

Relative Performance - This shows the relative performance of the portfolio against its benchmark performance. A bar greater than zero indicates there was outperformance, whereas a bar less than zero indicates underperformance.

Quarterly Manager Contribution - This shows the contribution at a total level of the relative performance achieved by the portfolio, taking into account the initial actual allocation. A larger allocation will lead to a greater contribution at a total level (all other things being equal).

Positive (negative) relative performance will result in positive (negative) manager contribution. Note that for passive mandates manager contributions should be close to zero, given its performance objective of tracking the benchmark. In calculation terms this is as follows:

```
Manager\ Contribution = (Performance_{pi} - Performance_{bi}) \times Initial\ Actual\ Allocation_{pi}
```

Quarterly Allocation Contribution - The allocation contribution shows whether a portfolio underweight / overweight position has had a positive or negative effect on the Total Scheme outperformance / underperformance in relation to the Total Scheme Benchmark.

For example, an overweight allocation to a portfolio whose benchmark performance was superior to that of the Total Scheme Benchmark would result in a positive contribution. In calculation terms this is as follows:

```
Allocation Contribution = (Performance_{bi} - Performance_{bT}) \times (Actual Allocation_{vi} - Benchmark Allocation_{bi})
```

Please note that the relative return and relative weight figures shown in the chart use unrounded performance and allocation figures to calculate the relative differences. Therefore, the numbers are not directly comparable to the implied relative differences given in the performance table and allocation tables.

Key: $pi = portfolio\ I$; $bi = portfolio\ I$ benchmark; $bT = Total\ Fund\ benchmark$

Attribution for Quarters with Significant Events - In cases where there are significant events over the quarter (for example large cashflows, new or terminated portfolios), both manager and allocation contributions are first calculated for the underlying part periods. The quarterly contributions are then a sum of the part period contributions.



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