

# Quarterly Funding & Investment Report

End December 2024

Prepared for: North Yorkshire Pension Fund

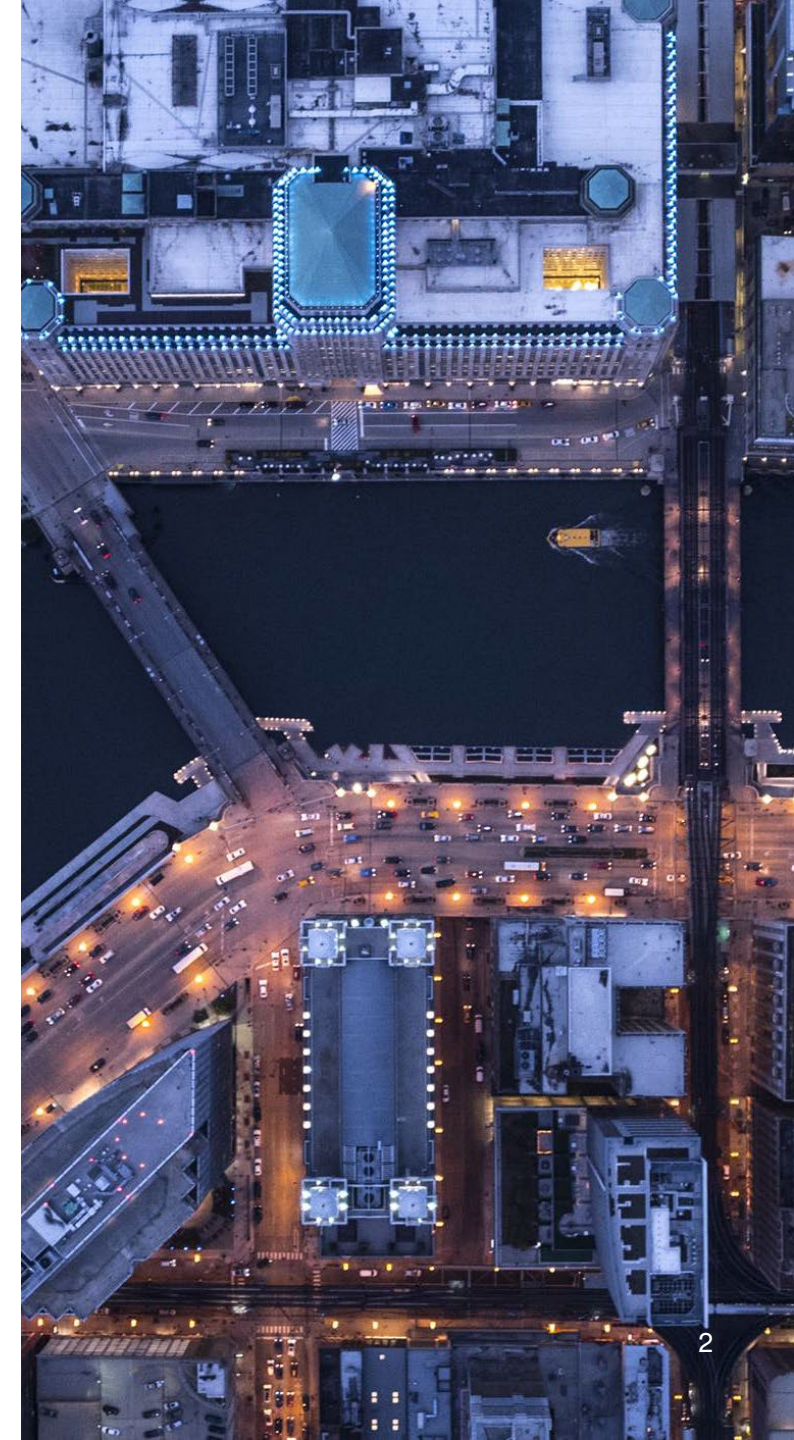
Prepared by: Aon

28 February 2025

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# 1

## At a glance

Pages 95  
A high level summary of your investments and funding



# At a glance...

Funding*	Asset Allocation and Implementation	Performance	Market Background and Investment Outlook (February 2025)**
<p>Since the results of the valuation at 31 March 2022 the Fund's ongoing funding level has increased by 2%, and the surplus has increased by £105M.</p> <p>This has been primarily driven by an increase in the net discount rate, although this has been offset by asset returns being lower than expected and pension increases being higher than expected.</p>	<p>In December, Officers met with their Advisors to discuss and agree the transfer of the existing property portfolio to the Border to Coase UK Real Estate Fund.</p> <p>Post quarter end, Officers and Advisors agreed to rebalance from equity, to Index Linked Gilts and Investment Grade Credit following a spike in yields in January 2025.</p> <p>Officers and Advisors are due to hold further discussions around short-term tactical asset allocation changes and rebalancing opportunities took place prior to the February PFC meeting.</p>	<p>Total Fund performance is ahead of the composite benchmark over the quarter, behind over the 1 year and 3 year periods, and broadly in-line over the 5 year period to 31 December 2024.</p>	<p>In Q4 2024, global equity markets rose over the quarter. The MSCI ACWI rose 1.4% in local currency and 6.1% in sterling terms.</p> <p>US Equities have grown to above 72% of global indices, but they have also become increasingly concentrated. Profits will need to become broader from AI Capex spending. With 9 out of the top 10 names at least partially driven by the AI theme, this only concentrates risk further.</p> <p>Gilt yields have been choppy. They reached very attractive levels in the middle of January, although have since fallen back. We think investors should be at least at strategic benchmarks for their gilts exposure and could even consider tactical overweight's if rates return to January highs in the run-up to the Spring Statement.</p>

## KEY ACTIONS



- Committee members to consider the contents of this report.
- Follow up discussions from the initial investment strategy review process will be held with Committee members at the February PFC meeting. The objective of this meeting is to agree an appropriate strategic asset allocation ahead of the 31 March 2025 actuarial valuation. Further advice on how the agreed strategy will be implemented will be discussed and considered later this year.

Note: \*This funding update rolls forward the results of the 2022 valuation of the Fund. We have made allowance for actual pension increases since the valuation (allowing for pension increases awarded in April 2023 and April 2024).

Note: \*\*The opinions referenced are as of the date of publication (6 February 2025) and are subject to change due to changes in the market or economic conditions and may not necessarily come to pass. Information contained herein is for informational purposes only and should not be considered investment advice.

# Key Stats – Q4 2024

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<p><b>Assets</b></p> <p><b>£4,804m</b></p> <p>Assets increased by £169m since 2022 valuation. £4,635m at 2022 valuation</p> 	<p><b>Funding level</b></p> <p><b>118%</b></p> <p>Funding level increased by 2% since 2022 valuation, 116% at 2022 valuation</p> 	<p><b>Return on Assets since 2022 Valuation</b></p> <p><b>1.6% pa</b></p> <p>This is below the assumed rate of return.</p> 
<p><b>Current Assets Expected Return (10 year p.a.)</b></p> <p><b>+7.1%</b></p> <p>1.2% increase since 2022 Valuation 5.9% at 2022 valuation</p> 	<p><b>Long-term Strategy Expected Return (10 year p.a.)</b></p> <p><b>+7.1%</b></p> <p>1.0% increase since 2022 Valuation 6.1% at 2022 valuation</p> 	<p><b>Discount rate</b></p> <p><b>4.8%</b></p> <p>Discount rate has increased by 0.6% since 2022 valuation 4.2% at 2022 valuation</p> 
<p><b>Current Assets Value at Risk (1 Year 1 in 20)</b></p> <p><b>£1,036m</b></p>	<p><b>Long-term Strategy Assets Value at Risk (1 Year 1 in 20)</b></p> <p><b>£965m</b></p>	<p><b>Estimated Total Employer cost</b></p> <p><b>11.1%</b></p> <p>Estimated Total Employer cost decreased by 6.3% since 2022 valuation 17.4% at 2022 valuation</p> 

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## Funding

Page 98  
A review of your funding position  
and contributions



# Funding position

<b>Funding level</b> <b>118%</b> at 31 December 2024  Increased from 116% at 31 March 2022	<b>Surplus</b> <b>£745M</b> at 31 December 2024  Up from £640m at 31 March 2022.	<b>Comments</b> Since the results of the valuation at 31 March 2022 the Fund's ongoing funding has level increased by 2%, and the surplus has increased by £105M.  This has been primarily driven by an increase in the net discount rate, although this has been offset by asset returns being lower than expected and pension increases being higher than expected.
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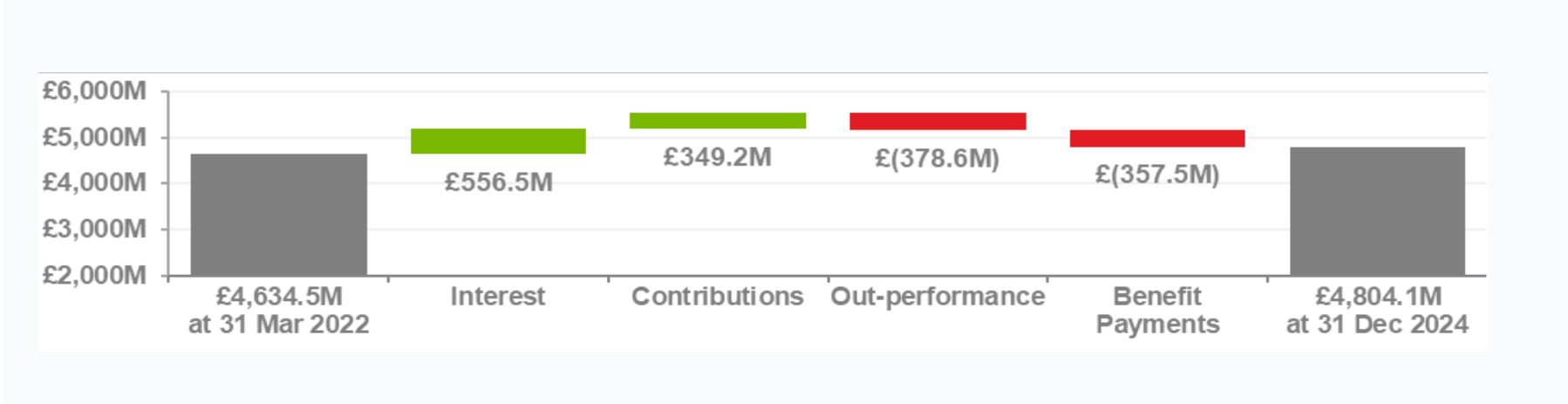
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Change to funding level since 31 March 2022



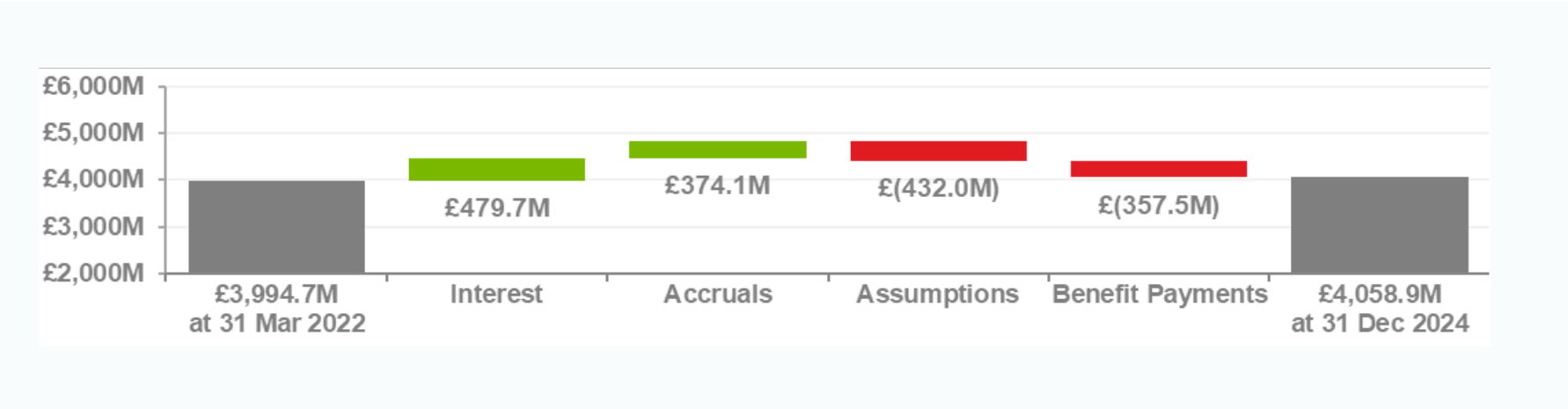
# Analysis – ongoing funding target

Reason for change since 31 March 2022 – Asset Attribution



**Comments**  
 Since the 2022 valuation the surplus has increased by £105M

Reason for change since 31 March 2022 – Liability Attribution





# Aggregate Employer contributions – ongoing funding target

Total employer contribution rate	Employer cost of accrual	Comments
<b>11.1%</b> at end 31 December 2024 Down from 17.4% at 31 March 2022	<b>15.8%</b> at end 31 December 2024 Down from 20.1% at 31 March 2022	The cost of accrual has decreased since 31 March 2022 due to the increase in net discount rate.

### Notes

The total employer contribution rate quoted above is based on the average total employer contribution rates across the Fund. Individual employer contributions can be very different to the average figure across the Fund shown above depending on their own characteristics, membership profile and funding target. The individual employer contributions have been reviewed as part of the triennial valuation at 31 March 2022.

# Funding position – Low Risk funding target

Funding level

**101%**

31 December 2024

**64%**

31 Mar 2022

Basis: Low Risk funding target  
Effective date: 31 December 2024

Surplus

**£56M**

31 December 2024

Deficit

**£2,573M**

31 Mar 2022

### Comments

The funding level on the low-risk basis has increased since the last valuation due to a rise in gilt yields over the period, leading to a decrease in the liabilities.

# Low risk funding target

Change to funding level since 31 March 2022



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## Asset allocation

Review of your strategic asset allocation

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# Asset allocation – Q4 2024

Asset Group	Manager	31 December 2024					
		Valuation (£m)	Current allocation	Long-term strategy*	Difference	Rebalancing Range	Possible action
<b>Equities</b>		<b>2,306.7</b>	<b>48.0%</b>	<b>50.0%</b>	<b>-2.0%</b>		✓
	BCPP UK Equity	196.9	4.1%	4.0%	+0.1%	TBC	
	BCPP Global Equity	1,427.3	29.7%	28.0%	+1.7%	+/- 5%	
	Baillie Gifford LTGG	682.5	14.2%	18.0%	-3.8%	+/- 3%	
<b>Absolute Return</b>		<b>1.9</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>		🕒
	Leadenhall Remote Risk	0.4	0.0%				
	Leadenhall Diversified	0.5	0.0%				
	Leadenhall Nat Cat	1.0	0.0%				
<b>Property</b>		<b>286.6</b>	<b>6.0%</b>	<b>7.5%</b>	<b>-1.5%</b>	<b>TBC</b>	✓
	L&G	46.9	1.0%				
	Threadneedle	239.7	5.0%				



Source: Northern Trust, Aon. Note: Numbers may not sum due to rounding.

\* The investment strategy agreed as part of the 31 March 2022 actuarial valuation discussions. A new investment strategy is to be discussed and agreed at the February 2025 PFC Meeting.

# Asset allocation – Q4 2024 (cont.)

Asset Group	Manager	Valuation (£m)	Current allocation	31 December 2024		Rebalancing Range	Possible action
				Long-term strategy	Difference		
<b>Infrastructure</b>		<b>750.1</b>	<b>15.6%</b>	<b>10.0%</b>	<b>+5.6%</b>		
	BCPP Infrastructure	385.9	8.0%				
	BCPP Listed Alts	292.0	6.1%				
	BCPP Climate Opportunities	71.2	1.5%				
	BCPP UK Opportunities	0.9	0.0%				
<b>Private Credit</b>		<b>203.5</b>	<b>4.2%</b>	<b>5.0%</b>	<b>-0.8%</b>		
	BCPP Private Credit	177.5	3.7%				
	Arcmont	19.3	0.4%				
	Permira	6.7	0.1%				
<b>Non-Investment Grade Credit</b>		<b>253.7</b>	<b>5.3%</b>	<b>5.0%</b>	<b>+0.3%</b>	<b>TBC</b>	
	BCPP Multi Asset Credit	253.7	5.3%				
<b>Investment Grade Credit</b>		<b>344.4</b>	<b>7.2%</b>	<b>7.5%</b>	<b>-0.3%</b>	<b>TBC</b>	
	BCPP Investment Grade Credit	344.4	7.2%				

# Asset allocation – Q4 2024 (cont.)

Asset Group	Manager	31 December 2024					
		Valuation (£m)	Current allocation	Long-term strategy	Difference	Rebalancing Range	Possible action
<b>Gilts</b>		<b>505.5</b>	<b>10.5%</b>	<b>15.0%</b>	<b>-4.5%</b>	<b>TBC</b>	
	BCPP Index Linked Bonds	505.5	10.5%				
<b>Cash</b>		<b>151.6</b>	<b>3.2%</b>	<b>0.0%</b>	<b>+3.2%</b>	<b>TBC</b>	
	Internal Cash	151.6	3.2%				
<b>Total</b>		<b>4,804.1</b>	<b>100.0%</b>	<b>100.0%</b>			

Source: Northern Trust, Aon. Note: Numbers may not sum due to rounding.

# Investment strategy update

## Recent and upcoming activity

- Follow up discussions from the initial investment strategy review process will be held with Committee members at the February PFC meeting. The objective of this meeting is to agree an appropriate strategic asset allocation ahead of the 31 March 2025 actuarial valuation. Further advice on how the agreed strategy will be implemented will be discussed and considered later this year.
- Post quarter end, Officers and Advisors agreed to rebalance from equity, to Index Linked Gilts and Investment Grade Credit following a spike in yields in January 2025.
- Officers and Advisors are due to hold further discussions around short-term tactical asset allocation changes and rebalancing opportunities took place prior to the February PFC meeting.
- In Q4 2024, Aon completed a high-level due diligence review of the Border to Coast UK Property Fund and presented to results to Committee members, agreement was reached to invest in the fund.
- There is limited support from other Border to Coast partner funds for listed impact equities, however this will continue to be discussed with the Committee and Officers.
- We believe there remains attractive opportunities available in non-traditional asset classes such as diversifying hedge funds and insurance linked securities, however, Border to Coast do not currently have any fund offerings for these asset classes.



# Transitions and cashflows

The following rebalancing activities took place over the quarter:

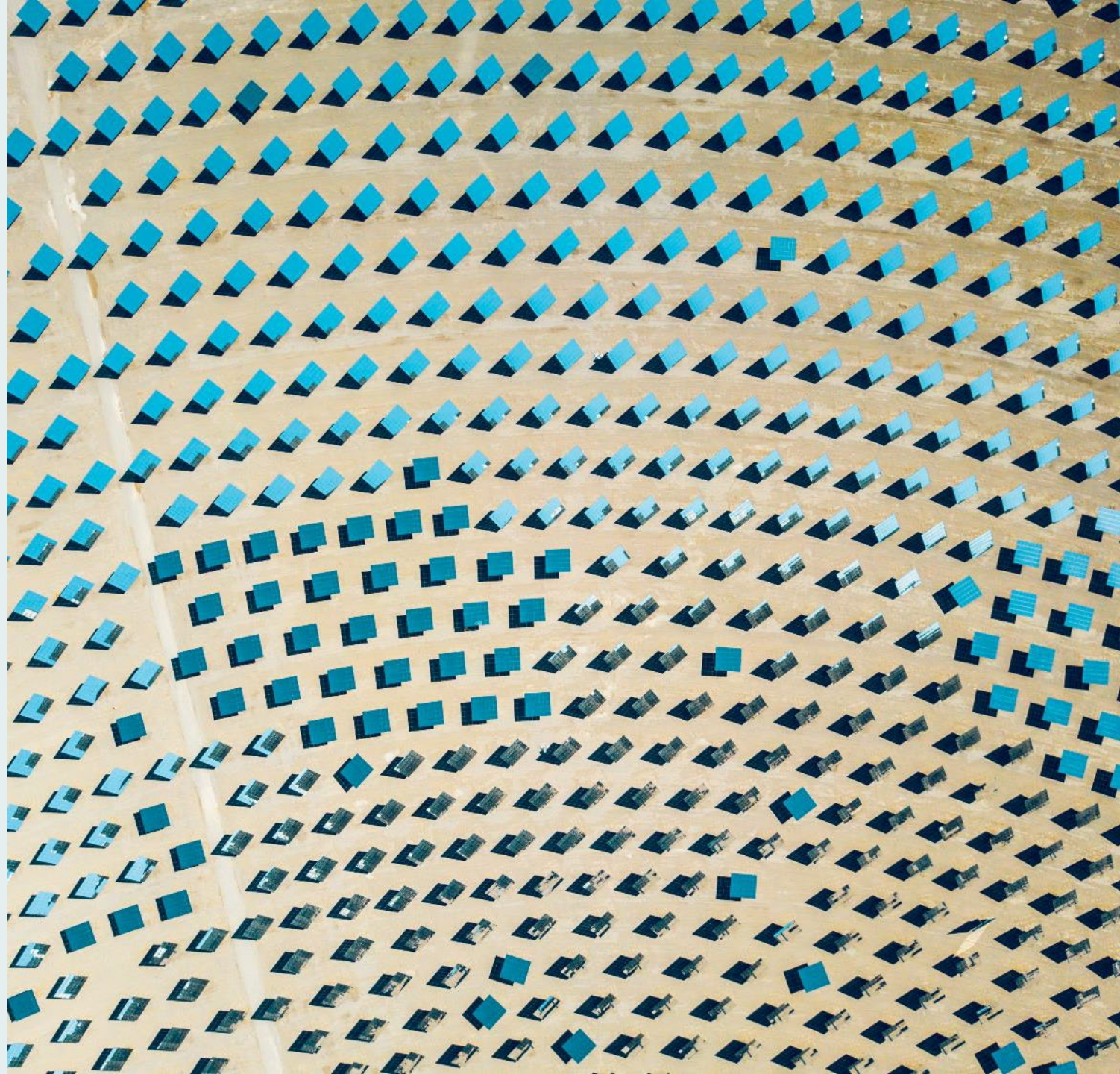
- Over the quarter, £90m was redeemed from Baillie Gifford, with the proceeds held in cash. There were no investments into other funds.
- Net capital calls and distributions:
  - Infrastructure: c.£15m
  - Private Credit: c.£6m
  - Climate Opportunities: c.£4m
  - UK Opportunities: c.£1m

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## Fund performance

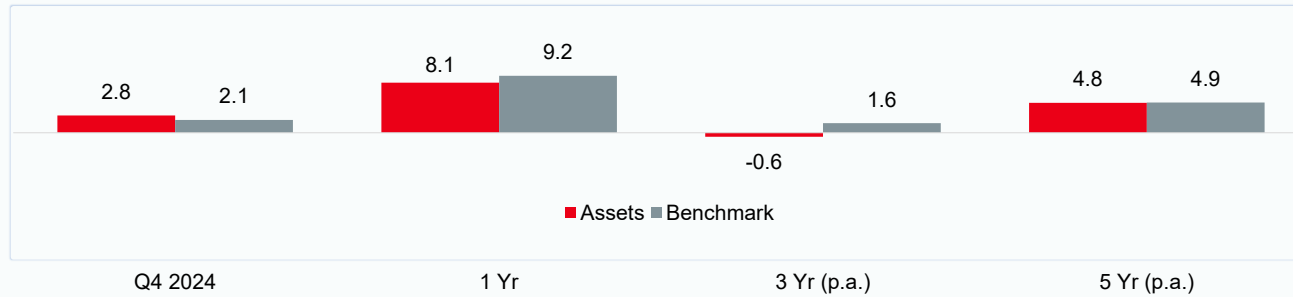
A review of your investment performance

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# Total Fund performance – Snapshot

## Fund performance & benchmark



### Quarterly (relative)

0.7%

The Fund outperformed the benchmark returning 2.8% vs 2.1% over the quarter.



### 3 year (relative)

-2.2%

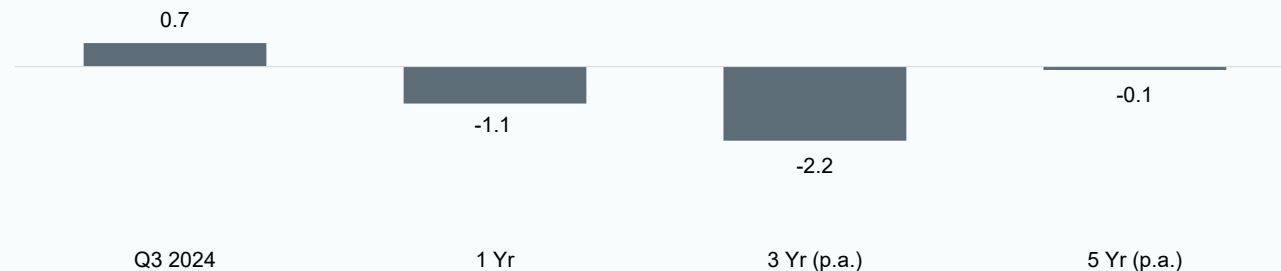
Over 3 years the Fund has underperformed the benchmark returning -0.6% vs 1.6%.



### Comments

Total Fund performance is ahead of the composite benchmark over the quarter, behind over the 1 year and 3 year periods, and broadly in-line over the 5 year period to 31 December 2024.

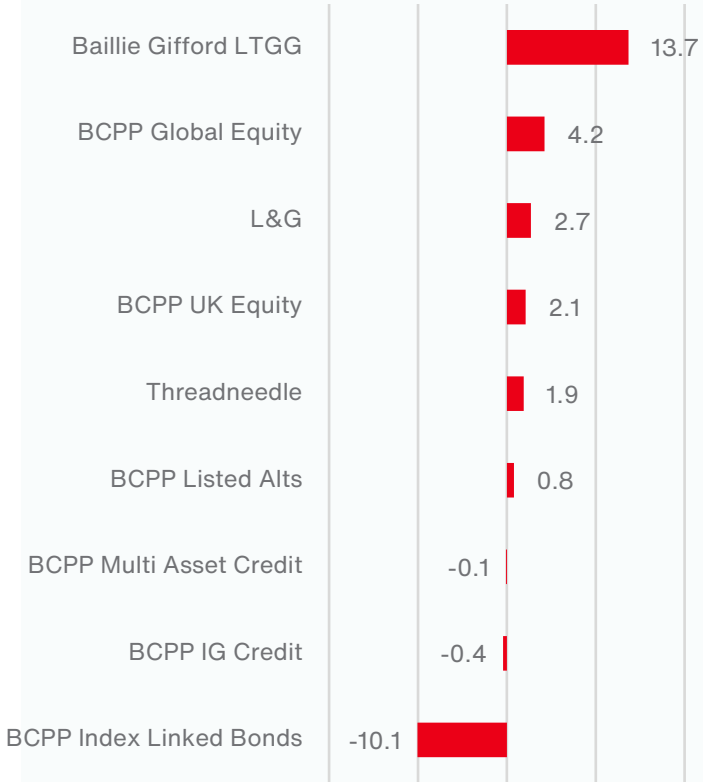
## Relative performance



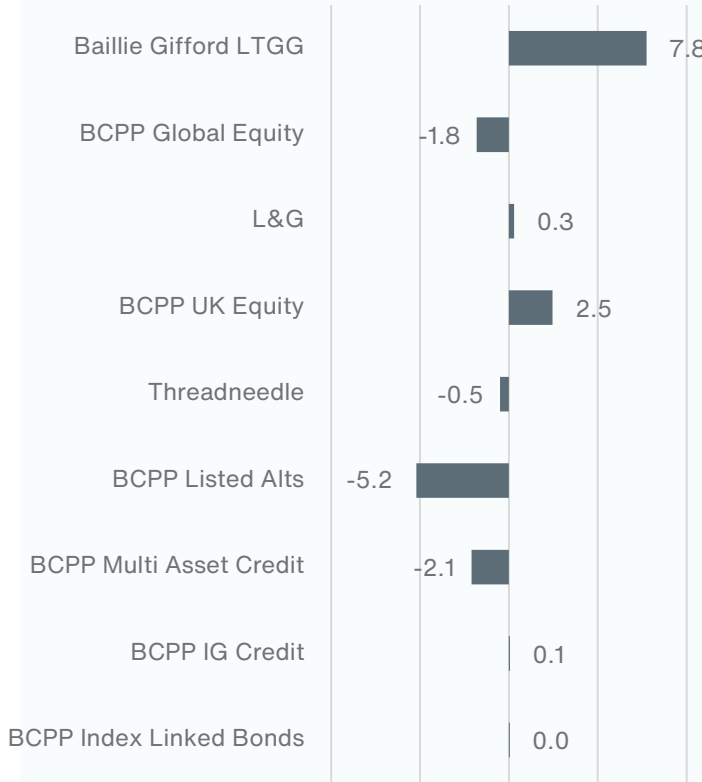
# Manager performance – Quarter Snapshot

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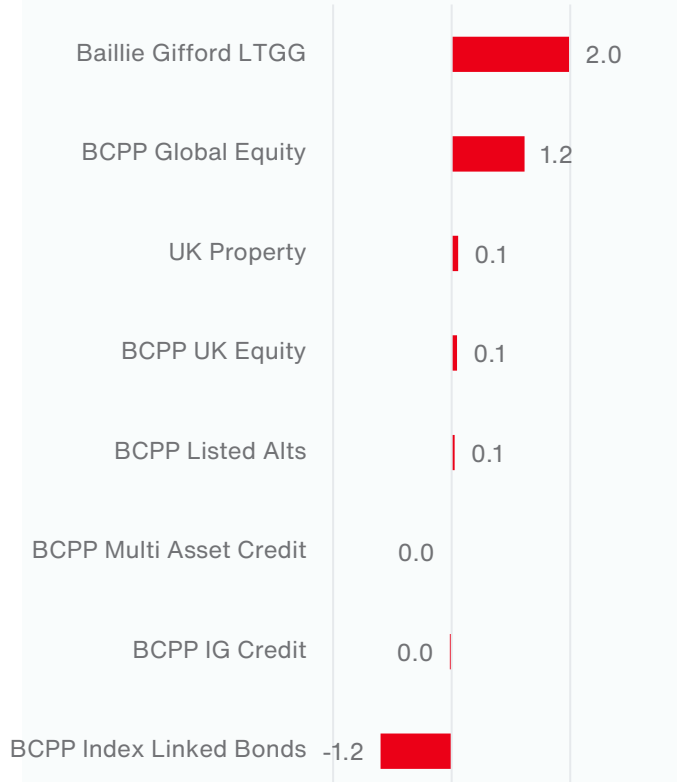
## Absolute performance



## Relative performance



## Contribution to absolute return



Source: Northern Trust, Managers, Aon.  
 Note: L&G, Threadneedle; MSCI data was used for fund performance and benchmarking purposes, total fund performance calculated using Northern Trust data.

# Manager performance – Longer term

	Q4 24 asset allocation	1 Year (%)			3 Years (% p.a.)			5 Years (% p.a.)			Since inception			Inception date
		Perf	B'mark	Rel	Perf	B'mark	Rel	Perf	B'mark	Rel	Perf	B'mark	Rel	
<b>Equity</b>														
UK Equity														
BCPP UK Equity	4.1%	12.1	9.5	2.6	2.8	5.8	-3.0	3.7	4.8	-1.1	4.6	5.3	-0.7	Jun-19
Global Equity														
BCPP Global Equity	29.7%	12.2	19.6	-7.4	6.9	8.2	-1.3	9.8	11.5	-1.7	10.4	11.9	-1.5	Oct-19
Baillie Gifford LTGG	14.2%	28.6	19.8	8.8	0.7	8.7	-8.0	15.9	11.7	4.2	15.2	10.1	5.1	Sep-06
<b>Property</b>														
L&G														
L&G	1.0%	5.5	5.4	0.1	-1.4	-2.0	0.6	2.5	2.1	0.4	-	-	-	Dec-12
Threadneedle														
Threadneedle	5.0%	5.0	5.4	-0.4	-2.0	-2.0	0.0	2.3	2.1	0.2	-	-	-	Jun-12
<b>Infrastructure</b>														
BCPP Listed Alts														
BCPP Listed Alts	6.1%	10.5	19.6	-9.1	-	-	-	-	-	-	4.1	10.0	-5.9	Feb-22
<b>Investment grade credit</b>														
BCPP Investment Grade Credit														
BCPP Investment Grade Credit	7.2%	2.4	1.7	0.7	-2.4	-3.1	0.7	-	-	-	-1.2	-2.2	1.0	Aug-20
<b>Non-investment grade credit</b>														
BCPP Multi-Asset Credit														
BCPP Multi-Asset Credit	5.3%	7.2	8.7	-1.5	1.9	7.3	-5.4	-	-	-	1.8	7.0	-5.2	Nov-21
<b>Gilts</b>														
BCPP Index Linked Bonds														
BCPP Index Linked Bonds	10.5%	-15.2	-15.4	0.2	-24.3	-24.5	0.2	-	-	-	-16.2	-16.8	0.6	Oct-20
<b>Total</b>		<b>8.1</b>	<b>9.2</b>	<b>-1.1</b>	<b>-0.6</b>	<b>1.6</b>	<b>-2.2</b>	<b>4.8</b>	<b>4.9</b>	<b>-0.1</b>	<b>7.0</b>	<b>7.3</b>	<b>-0.3</b>	<b>Jan-02</b>

# Border to Coast Pensions Partnership – Private Markets Performance Summary

## BCPP Infrastructure

Fund	Q4 2024 Position				
	Capital Committed	Capital Drawn	Capital Distributed <sup>1</sup>	IRR <sup>2</sup>	TVPI <sup>2</sup>
Series 1A	98.7%	89.3%	22.0%	6.8%	1.18x
Series 1B	98.7%	74.6%	5.1%	4.9%	1.10x
Series 1C	100.0%	88.0%	13.8%	7.6%	1.17x
Series 2A	99.7%	54.0%	3.6%	-	-
Series 2B	99.9%	28.8%	0.2%	-	-
Series 2C	62.1%	23.4%	0.9%	-	-

## BCPP Private Credit

Fund	Q4 2024 Position				
	Capital Committed	Capital Drawn	Capital Distributed <sup>1</sup>	IRR <sup>2</sup>	TVPI <sup>2</sup>
Series 1A/B	99.5%	90.8%	32.6%	9.3%	1.20x
Series 1C	99.5%	80.7%	25.2%	8.7%	1.12x
Series 2A	100.0%	42.2%	5.2%	-	-
Series 2B	99.1%	19.5%	1.7%	-	-
Series 2C	49.0%	0.0%	0.0%	-	-

# Border to Coast Pensions Partnership – Private Markets Performance Summary (cont.)

## BCPP Climate Opportunities

Fund	Q4 2024 Position				
	Capital Committed	Capital Drawn	Capital Distributed <sup>1</sup>	IRR	TVPI
Climate Opps Series 1 (Series 2A/B)	<b>99.9%</b>	<b>45.0%</b>	<b>4.3%</b>	-	-
Climate Opps Series 2 (Series 2C)	<b>35.4%</b>	<b>28.0%</b>	<b>0.0%</b>	-	-

## BCPP UK Opportunities

Fund	Q4 2024 Position				
	Capital Committed	Capital Drawn	Capital Distributed <sup>1</sup>	IRR	TVPI
UK Opps (Series 2C)	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	-	-

# Border to Coast Pensions Partnership – Private Markets Commitments Summary

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Strategy	Total NYPF Commitments							
	Series 1	1A	1B	1C	Series 2	2A	2B	2C
Private Credit	£195m	£75m		£120m	£210m	£70m	£70m	£70m
Infrastructure	£320m	£70m	£50m	£200m	£360m	£120m	£120m	£120m
Climate Opportunities	N/A	N/A			£260m	£140m		£120m
UK Opportunities	N/A	N/A			£50m	N/A		£50m



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## Market background and investment outlook

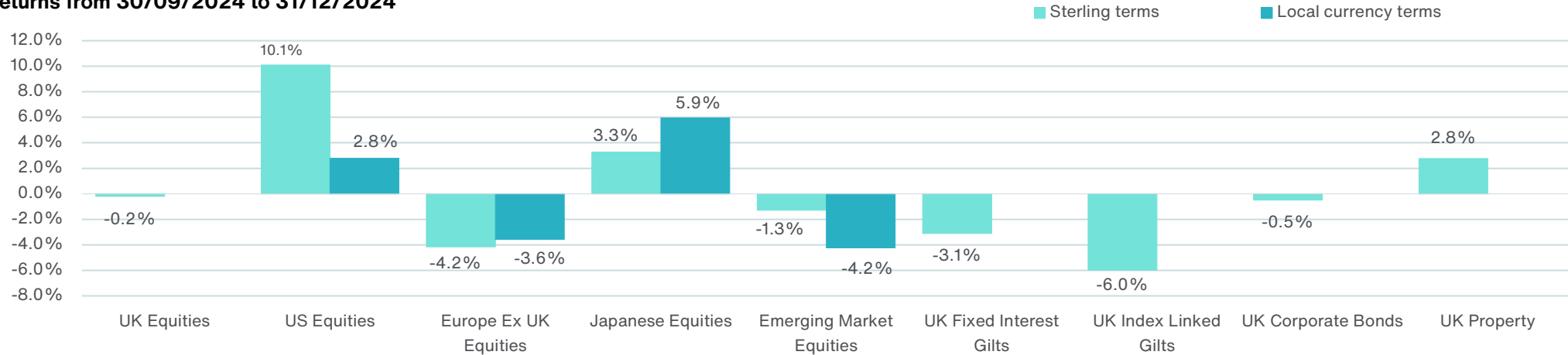
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Aon's views on the market outlook and snapshot of investment markets and key economic data



# Market Background Q4 2024

Index returns from 30/09/2024 to 31/12/2024



Sources: FactSet, MSCI (Equities, Property), FTSE (Gilts), iBoxx (Credit).

## Equities

In Q4 2024, global equity markets rose over the quarter. The MSCI ACWI rose 1.4% in local currency and 6.1% in sterling terms.

## Bonds

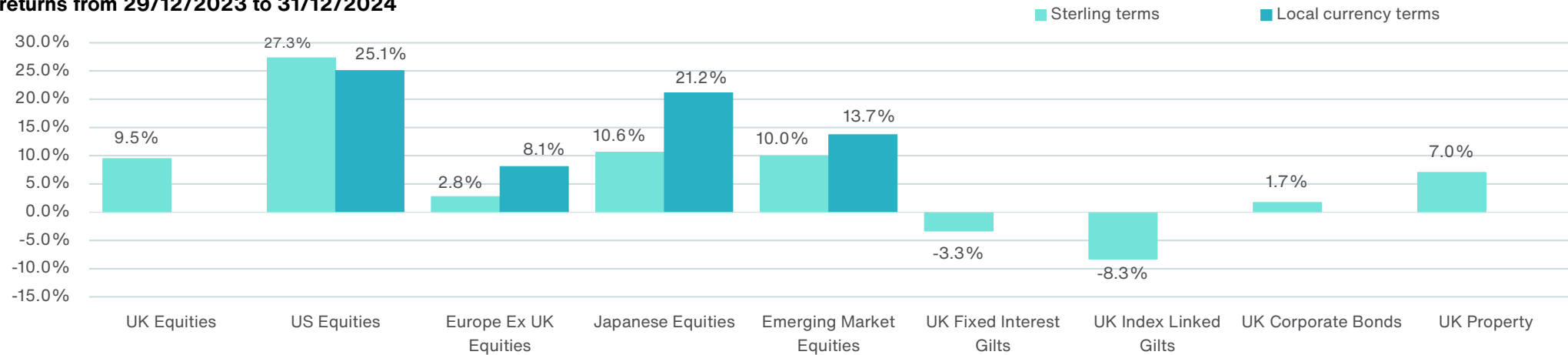
UK investment grade credit spreads narrowed by 16bps to 93bps over the quarter, based on the IBoxx Sterling Non-Gilts index. Both higher-quality and lower-quality bond credit spreads generally narrowed, with AAA-rated non-gilt spreads rising by only 1bp to 30bps, AA-rated non-gilt spreads falling by 6bps to 57bps, and BBB-rated non-gilt spreads narrowing by 28bps to 130bps. The IBoxx Sterling Non-Gilts Index posted a return of -0.5%.

## Gilts

The UK nominal gilt curve shifted upwards over the quarter as yields rose across maturities. The 10-year nominal bond yield rose by 60bps to 4.68% and the 30-year nominal bond yield rose by 54bps to 5.28%. The index-linked gilt yield curve shifted upwards over the quarter as yields rose across maturities (except at the shortest end of the curve). Breakeven inflation rose across the maturities, with 10-year breakeven inflation rising by 8bps to 3.54%.

# Market Background 12 month

Index returns from 29/12/2023 to 31/12/2024



Sources: FactSet, MSCI (Equities, Property), FTSE (Gilts), iBoxx (Credit).

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## Equities

Global equity markets rose over the last twelve months. The MSCI ACWI rose 20.7% in local currency and 20.1% in sterling terms, with sterling appreciating against major global currencies except the US Dollar. Inflation slowed down in most major economies and the global economy proved more resilient than previously anticipated.

## Bonds

The UK credit market performed positively over the past twelve months. UK investment-grade credit spreads (the difference between corporate and government bond yields), based on the iBoxx Sterling Non-Gilt Index, narrowed by 29bps to 93bps. The index rose 1.7% over the year.

## Gilts

The UK nominal gilt curve shifted upwards over the year, with yields rising across maturities. Yields rose more sharply towards the medium and long end of the yield curve compared to the short-term maturities. The 10-year nominal bond yield rose by 103bps to 4.68%. Overall, according to FTSE All-Stocks indices, UK fixed-interest gilts fell by 3.3% and index-linked gilts fell by 8.3% over the last twelve months.

# Quarterly Investment Outlook – February 2025\*

- Gilt yields have been choppy. They reached very attractive levels in the middle of January, although have since fallen back. We think investors should be at least at strategic benchmarks for their gilts exposure and could even consider tactical overweights if rates return to January highs in the run-up to the Spring Statement.
- Not only have US equities climbed to above 72% of global indices, but they have also become increasingly concentrated, with the share of the top 10 stocks reaching record levels. Some stocks have generated extraordinary profit growth thanks to increases in capex, but profits will need to become broader from AI if capex is to continue to grow. With 9 out of the top 10 names at least partially driven by the AI theme, this only concentrates risk further.
- Within credit, we have tended to prefer asset backed securities (ABS) and certain private strategies where we felt the risk-reward outlook was better. The ABS universe has seen compressed spreads over the year, but some relative value has crept into selected corporate bonds. We think the most attractive opportunities for investors who can absorb liquidity risk are in select private credit areas.

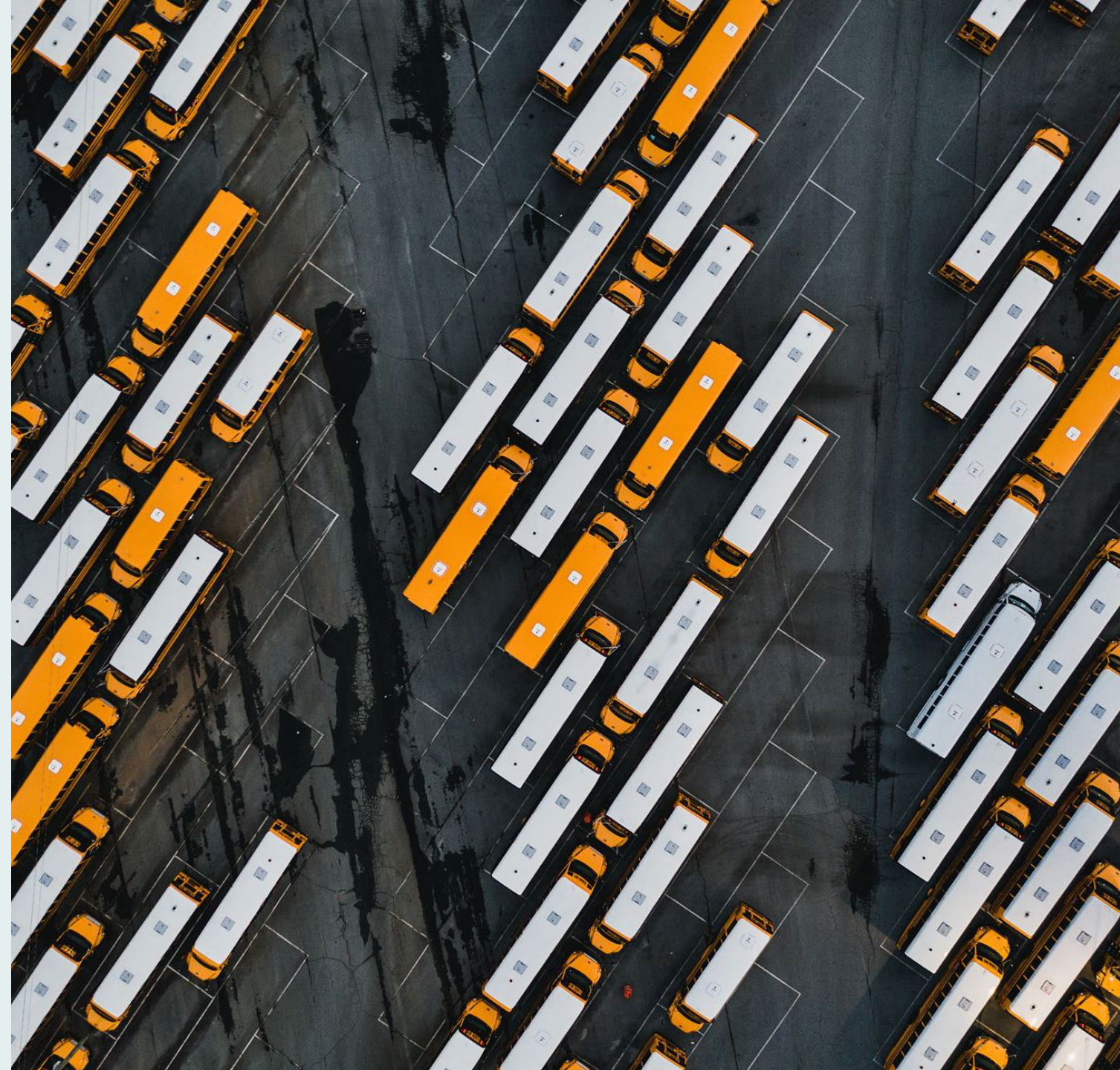
Note: \*The opinions referenced are as of the date of publication (6 February 2025) and are subject to change due to changes in the market or economic conditions and may not necessarily come to pass. Information contained herein is for informational purposes only and should not be considered investment advice.

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## Manager review

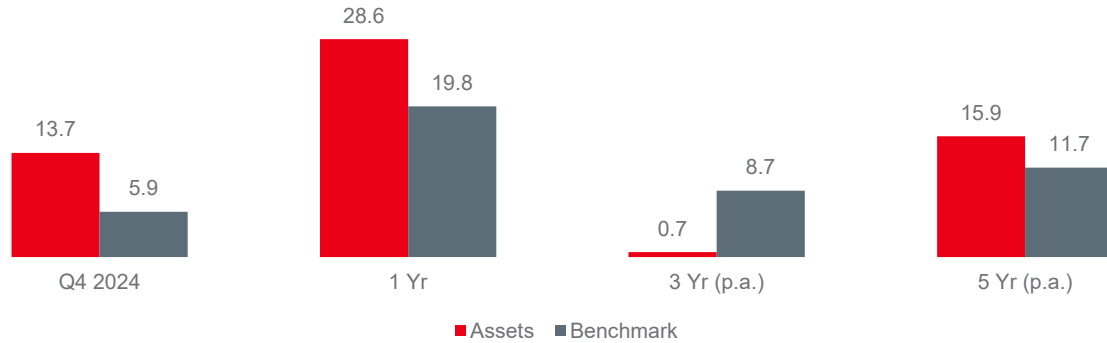
Peer ratings and understanding  
manager performance

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# Baillie Gifford - LTGG

## Fund performance & benchmark



## Performance

- The strategy outperformed over the fourth quarter.
- The largest contributors to performance were AppLovin, Atlassian and Shopify.
- AppLovin’s (software) share price more than doubled over the quarter. The company's latest results showed exceptional growth, highlighting the success of its technology in targeted advertising and its potential expansion into broader e-commerce.
- Atlassian (software) strengthened its position in collaboration and productivity software focusing on cloud migration and AI-driven features with revenues for the quarter surpassing expectations.
- Shopify (e-commerce software) demonstrated strengthening growth with consistent revenue increases and improving margins, reflecting the improving quality of Shopify’s business following the divestment of its logistics business in 2023.
- The largest detractors to performance were PDD Holdings, Nu Holdings and ASML.

**Buy**

Reviewed: February 2025

## Ratings detail

**ODD:** A1 pass      **Risk:** ●●●●  
**Business:** ●●●●      **Perf:** ●●●●  
**Staff:** ●●●●      **Terms:** ●●●●  
**Process:** ●●●●      **ESG:** Integrated

## Key Info

**Appointed:** 29 September 2006

**Vehicle:** Baillie Gifford Long Term Global Growth (+3% over 5-10yrs)

**Mandate:** Global Unconstrained Equities

**Benchmark:** FTSE All World Index from 31 March 2008

**Target:** To outperform the benchmark by 3% p.a. over rolling three-year periods.

# Baillie Gifford – LTGG (cont.)

## Performance (cont.)

- PDD Holdings (China e-commerce) detracted from performance following a deceleration in revenue and earnings, raising concerns regarding competitive pressures. The team have re-underwritten the investment case and remains confident in the long-term thesis.
- Nu Holdings (Latin America digital banking) detracted from performance despite strong results amidst deteriorating macro backdrop for Brazil and concerns on the stock's valuation. The team remains confident on the long-term thesis.
- ASML (semiconductors) detracted from performance with revenues below market expectations due to weaker demand and a downward revision of the 2025 outlook. The team continue to evaluate the company's long-term prospects.

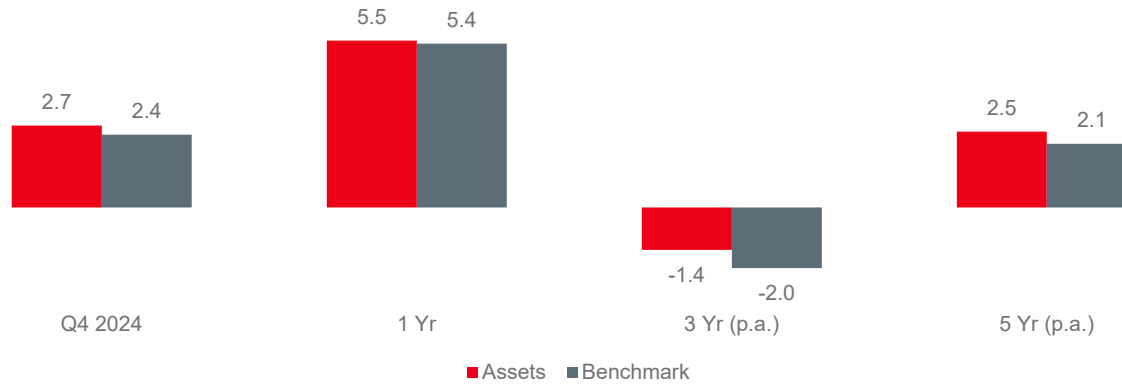
## Positioning and Transactions

- During the period, the team sold HDFC Bank. The LTGG team noted deterioration in the investment thesis as a consequence of a merger between related HDFC entities which led to reduced confidence on future loan growth, cultural cohesion and financial strength of the combined entity.
- The team added AppLovin and Horizon Robotics over the quarter. AppLovin (software) is focused on enhancing return on advertising spend with a particular focus on mobile gaming. The team believe that AppLovin offers an attractive growth profile with a high-margin capital-light business model. Horizon Robotics is a Hong Kong-listed technology company focused on enabling autonomous driving hardware and software. The team see long-term potential in the growth trajectory and initiated a small position in the IPO.
- The team trimmed exposure to AppLovin into share price strength and redeployed funds into Nu Holdings.
- The strategy remains concentrated (40 holdings), with significant exposure to tech-related businesses.

# LGIM – Managed Property Fund

**Buy**  
Reviewed: Q3 2024

## Fund performance & benchmark



## Key Info

**Appointed:** 1 November 2012

**Vehicle:** Property Fund

**Mandate:** UK Property Pooled Fund

**Benchmark:** IPD All Balanced Property Fund Index

**Target:** To outperform the benchmark over three year rolling periods.

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## Monitoring comments (Q3 2024)

- As of Q3 2024, the Fund was overweight to the alternatives sector compared to the benchmark (19.1% vs 14.1%) and had a strong cash position of (8.3% vs 7.5%). Compared to the benchmark, the Fund is underweight to industrial (36.6% vs 40.0%) and retail (17.9% vs 18.3%) sectors and underweight to offices (18.1% vs 20.0%). In overall terms, these sector positions have been broadly neutral relative to the benchmark over the last 12 months but positive over 3 years. In terms of actual stock selection, the Fund has a positive score at an overall level relative to the benchmark over 1- and 3-year periods to end-Q3 2024, the only key detractor being the retail holdings.
- Cash has been accretive to returns over the last 24 months, although we expect this to reverse as and when property returns increase. The Fund continues to benefit from a large amount of DC pension inflows (average net inflows of £18 million per month over the trailing 12 months), allowing the Fund to be highly active in the investment market. Overall, c.80% of the Fund is Defined Contribution ('DC') capital.
- The manager has highlighted that the office exposure will be further reduced through strategic sales outside core locations where the manager expects further valuation falls and weakening occupier demand. Moreover, despite the manager's cautious outlook on retail, especially high street and shopping centres, the manager remains relatively positive on retail warehousing, which is proving to be resilient. The manager also has a positive view on leisure assets, especially those located in core locations, with the Fund gaining exposure through the LGIM Leisure Fund, improving the Funds' income profile. LGIM forecasts that this segment will outperform All Property over the next 3 years and offer an attractive yield profile, also presenting opportunities for asset management initiatives. The Fund's void rate has marginally dropped since last quarter (11.6% vs 12%). Of this 11.6%, 1.2% relates to strategic void, 1.5% for buildings undergoing refurbishment with 2.7% under offer.



# LGIM – Managed Property Fund

Monitoring comments (Q3 2024) – cont.

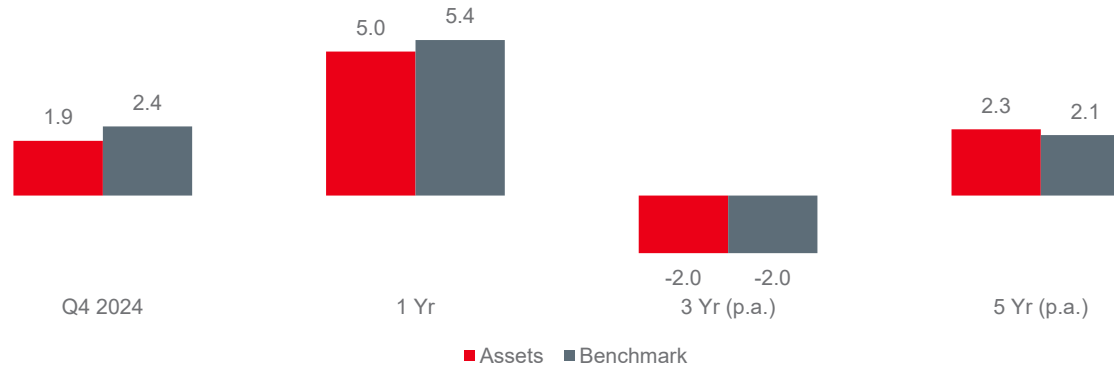
## Transactions

- As mentioned, the Fund remains highly active in the investment market, completing on 6 acquisitions, totalling c.£120 million during the quarter and bringing year-to-date total acquisitions to c.£270 million across 10 deals. The Fund has taken a deal-led approach, focused predominantly on value-add and income-led opportunities. Most notably, the Fund purchased The Beacon Shopping Centre, Eastbourne for c.£50-60 million reflecting a net initial yield of 11%. The Scheme comprises 97 units with 92% occupancy including a large car park with a strong income, anchored by Primark, Sainsburys and Next. The Fund also purchased The Light in Leeds for c.£30-40 million, a core city leisure scheme, in the city centre. The asset is in one of the manager's preferred sectors and offers an attractive lease profile with a weighted unexpired lease term of 14 years.

# Threadneedle – TPEN

**Buy**  
Reviewed: Q3 2024

## Fund performance & benchmark



### Key Info

**Appointed:** 21 June 2012

**Vehicle:** Property Fund

**Mandate:** UK Property Pooled Fund

**Benchmark:** IPD All Balanced Property Fund Index

**Target:** To outperform the benchmark by 1 to 1.5%.

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## Monitoring comments (Q3 2024)

- The Fund continues to have an overweight position to industrials, with 47.9% of the portfolio invested in the sector versus the benchmark at 39.1%. The Fund believes that the industrial sector will continue to benefit from structural societal trends. For the retail sector, the Fund exposure is slightly below the benchmark at 18.3%, albeit with an overweight position to retail warehouses (15.4% versus 12.0%) and an underweight position to both supermarkets, standard retail and shopping centres (combined exposure of 2.9% versus 6.7%). The Fund believes that the strategic overweight positions in industrials and retail warehouses should continue to provide a solid foundation for outperformance over the remainder of 2024 and into 2025.
- Over one year to end-Q3 2024, the Fund’s directly held assets generated a total return of 3.6%, outperforming the broader property market on a relative basis by 1.3% (based on the MSCI UK Monthly Index – Unfrozen). This was achieved through a positive relative income return of 1.0% and relative capital value performance of 0.2%. TPEN’s retail assets outperformed the wider market by 0.5%, delivering a total return of 5.0% with a relative capital value of -0.6%. Offices outperformed by 6.9% relative to the market, producing a total return of 0.1% over the previous 12 months. The Fund’s proactive approach to capital expenditure, required to retain and enhance the long-term value of its office portfolio, is evidenced by these figures. The Fund’s industrial assets delivered a total return of 5.0%, marginally underperforming the market by -0.8%, with relative capital value performance to the market of -1.8% over the previous 12 months.

# Threadneedle – TPEN

## Monitoring comments (Q3 2024) – cont.

- Rent collection for Q3 2024 (as at Day 14 post-quarter end) stands at 94.5%. For the previous quarter (Q2 2024) rent collection was c.99.1%. The Fund continues to work with occupiers on a case-by-case basis to agree appropriate strategies for rent collection. As at end of Q3 2024, the Fund's liquidity position was c.£53.7 million, equivalent to c.3.9% of net asset value. The Fund is currently targeting a number of strategic sales which will increase its liquidity in line with target (10%).

## Transactions

- There were no purchases to report over the quarter. The Fund made five strategic assets sales with an achieved total sales receipt of c.£13.7m. The Fund sold 502 High Street, Wembley (unit shop) for c.£2.5m, reflecting a net initial yield of 4.0%. Additionally, the Fund sold 46-48 Parliament Street, Harrogate (unit shop) for c.£2.5m, reflecting a net initial yield 11.3%. Another unit shop sold was 148-170 High Road, Ilford for c.£5-£10m, at a net initial yield of 5.9%. The Fund sold Lobley Hill Road, Gateshead (miscellaneous) for c.£2.5m, indicating a net initial yield of 16.9%. Lastly, the Fund sold Broadway, Wood Green, London N22 (unit shop) for c.£2.5-£5m, exhibiting a net initial yield of 6.5%.

# BCPP – Quarterly high-level monitoring (Q4 2024)

## Changes to views of External and Internal Managers

### BCPP Global Equity Alpha

- Loomis Sayles: The manager was first placed on the Watchlist in Q1 2023 due to a material level of turnover within the analyst pool. BCPP have held several engagements with the CEO, CIO and the investment team at Loomis around challenges in recruitment and retention. Following the October 2024 Global Equity Search interviews, the manager has been given notice that BCPP will be closing the mandate.
- Lindsell Train & Ninety-One Franchise: The managers were added to the watchlist on the 4 December 2024. The managers have underperformed over a prolonged period of time against both the primary and style benchmarks. BCPP plan to conduct a deep-dive into performance, the role of the funds in the mandate and if they are comfortable holding this style of fund.

### BCPP UK Equity Alpha

- Redwheel: The manager was placed on the Watchlist during December 2023 following the UK Value team's launch of a new Global Value strategy. Removed from the Watchlist in October 2024 following conclusion resourcing is adequate.

# Border to Coast Pensions Partnership – RI Quarterly Report Snapshot

## UK Equity Alpha Fund

Fund	Q4 2024 Position	
	Weighted Average Carbon Intensity	Weighted ESG Score
UK Equity Alpha	<b>41.6</b>	<b>7.9</b>
Benchmark (FTSE All Share)	<b>82.1</b>	<b>7.7</b>

## Global Equity Alpha Fund

Fund	Q4 2024 Position	
	Weighted Average Carbon Intensity	Weighted ESG Score
Global Equity Alpha	<b>37.5</b>	<b>7.2</b>
Benchmark (MSCI ACWI)	<b>113.8</b>	<b>6.7</b>

## Sterling Investment Grade Credit Fund

Fund	Q4 2024 Position	
	Weighted Average Carbon Intensity	Weighted ESG Score
Sterling Investment Grade Credit	<b>53.9</b>	<b>7.3</b>
Benchmark (iBoxx Sterling Non Gilt Index)	<b>58.5</b>	<b>7.4</b>

## Listed Alternatives Fund

Fund	Q4 2024 Position	
	Weighted Average Carbon Intensity	Weighted ESG Score
Listed Alternatives	<b>147.8</b>	<b>7.6</b>
Benchmark (MSCI ACWI)	<b>113.8</b>	<b>6.7</b>

<sup>1</sup>This disclosure was developed using information from MSCI ESG Research LLC or its affiliates or information providers. Although Border to Coast information providers, including without limitation, MSCI ESG Research LLC and its affiliates (the “ESG Parties”), obtain information (the “Information”) from sources they consider reliable, none of the ESG Parties warrants or guarantees the originality, accuracy and/or completeness, of any data herein and expressly disclaim all express or implied warranties, including those of merchantability and fitness for a particular purpose. The Information may only be used for your internal use, may not be reproduced or disseminated in any form\* and may not be used as a basis for, or a component of, any financial instruments or products or indices. Further, none of the Information can in and of itself be used to determine which securities to buy or sell or when to buy or sell them. None of the ESG Parties shall have any liability for any errors or omissions in connection with any data herein, or any liability for any direct, indirect, special, punitive, consequential or any other damages (including lost profits) even if notified of the possibility of such damages.

\*In accordance with the Licence Agreement between Border to Coast Pensions Partnership Limited and MSCI ESG Research (UK) Limited



## Further information

Key reference information about your Fund

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# Explanation of Ratings

## Overall Ratings

### Overall Ratings

An overall rating is then derived taking into account both the above outcomes for the product. The table lists how the overall rating can be interpreted.

The comments and assertions reflect our views of the specific investment product and our opinion of its quality. Differences between the qualitative and Aon InForm outcome can occur and if meaningful these will be explained within the Key Monitoring Points section. Although the Aon InForm Assessment forms a valuable part of our manager research process, it does not automatically alter the overall rating where we already have a qualitative assessment. Overall rating changes must go through our qualitative manager vetting process. Similarly, we will not issue a Buy recommendation before fully vetting the manager on a qualitative basis.

Overall Rating	What does this mean?
Buy	We recommend clients invest with or maintain their existing allocation to our Buy rated high conviction products
Buy (Closed)	We recommend clients invest with or maintain their existing allocation to our Buy rated high conviction products, however it is closed to new investors
Qualified	A number of criteria have been met and we consider the investment manager to be qualified to manage client assets
Not Recommended	A quantitative assessment of this strategy indicates it does not meet our desired criteria for investment. This strategy is not recommended.
Sell	We recommend termination of client investments in this product
In Review	The rating is under review as we evaluate factors that may cause us to change the current rating

# Explanation of Ratings

## ODD

### Operational Due Diligence (“ODD”)

The ODD factor is assigned a rating. The table below describes what these ratings mean.

Please note: Operational due diligence inputs provided to the research team by Aon’s Operational Risk Solutions and Analytics Group (ORSA). ORSA is an independent entity from Aon Solutions UK Limited, Aon Hewitt Investment Consulting, Inc., and Aon Hewitt Inc./Aon Hewitt Investment Management Inc. Investment advice is provided by these Aon entities.

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Overall ODD Rating	What does this mean?
A1 Pass	No material operational concerns – the firm’s operations largely align with a well-controlled operating environment.
A2 Pass	The firm’s operations largely align with a well-controlled operating environment, with limited exceptions – managers may be rated within this category due to resource limitations or where isolated areas do not align with best practice.
Conditional Pass (“CP”)	Specific operational concerns noted that the firm has agreed to address in a reasonable timeframe; upon resolution, we will review the firm’s rating.



# Explanation of Ratings

## Overall Ratings

### ESG Factor

The ESG factor is assigned a rating and can be interpreted as follows:

Overall ESG Rating	What does this mean?
Advanced	The fund management team demonstrates an advanced awareness of potential ESG risks in the investment strategy. The fund management team can demonstrate advanced processes to identify, evaluate and potentially mitigate these risks across the entire portfolio.
Integrated	The fund management team has taken appropriate steps to identify, evaluate and mitigate potential financially material ESG risks within the portfolio.
Limited	The fund management team has taken limited steps to address ESG considerations in the portfolio.
Not Applicable	ESG risks and considerations are not applicable to this strategy, for example, on the grounds of materiality or asset class relevance

# Method

## Liabilities

This funding update is consistent with the calculations for the formal actuarial valuation at 31 March 2022. The assumptions used have been modified only insofar as is necessary to maintain consistency with the approach set out in the latest Funding Strategy Statement, reflecting the change in the effective date and in relevant market conditions.

The funding update is projected from the results of the formal actuarial valuation at 31 March 2022 and is therefore approximate. Since the update is not based on up-to-date membership data, it becomes more approximate the longer the period of time that has elapsed since the last actuarial valuation.

The funding update takes account of the following over the period since the last formal actuarial valuation:

- Known fund returns provided; and
- Actual price inflation and its impact on benefit increases.

Demographic experience since the last formal actuarial valuation has been assumed to be in line with the assumptions set out in the 2022 valuation report.

This update is designed to give a broad picture of the direction of funding changes since the actuarial valuation but does not have the same level of reliability as, and therefore does not replace the need for, formal actuarial valuations.

It does not reflect any changes to assumptions which would be made if a full actuarial valuation were to be carried out to reflect, for example, changes to the investment strategy or economic outlook.

## Assets

For the purpose of this funding update, we have used an unaudited value of the assets at 31 December 2024 as provided by the Administering Authority.

## Contributions

The whole of fund total employer contribution rates shown in this funding update allow for a recovery period ending 31 March 2041 and allow for any surplus in excess of 110% to be recovered as set out in the Funding Strategy Statement.

## Assumptions

	Discount rate (Ongoing/Low Risk)	Pay growth (Ongoing/Low Risk)	Pension increases (Ongoing/Low Risk)
31 March 2022	4.20% / 1.70%	3.55% / 4.65%	2.30% / 3.40%*
30 September 2024	4.90% / 4.30%	3.45% / 4.15%	2.20% / 2.90%
31 December 2024	4.80% / 4.80%	3.35% / 4.15%	2.10% / 2.90%

\* Plus an allowance for short term inflationary increases

# Risk/Return Assumptions



- The table to the right sets out the 10-year median returns and volatility assumptions in absolute terms used in the modelling.
- Assumptions are based on Aon's Capital Market Assumptions as at 31 December 2024
- Allocations modelled are those set out in the main body of this presentation. Allocations are assumed to be annually rebalanced.
- Allowance for active management is made in some of the assets classes, in particular where there is no real passive version of the asset, for example private equity funds.
- Unless stated otherwise, all returns are net of underlying manager fees.

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High level asset class	Expected Return	Expected Volatility
<b>Equities</b>	6.9%	18.9%
<b>Property</b>	6.4%	12.6%
<b>Infrastructure</b>	8.4%	16.3%
<b>Listed alternatives</b>	6.9%	19.5%
<b>Illiquid credit</b>	8.4%	7.8%
<b>Investment grade credit</b>	5.4%	10.2%
<b>Non-investment grade credit</b>	6.7%	8.7%
<b>Absolute Return</b>	8.2%	5.6%
<b>Gilts</b>	3.9%	9.7%
<b>Cash</b>	4.7%	1.4%

# Correlation Table

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High level asset class	Equities	Property	Infrastructure	Listed Alternatives	Illiquid credit	IG Credit	Non-IG Credit	Absolute Return	Gilts	Cash
Equities	100%	35%	59%	100%	20%	5%	53%	22%	-6%	-1%
Property		100%	18%	34%	18%	5%	25%	8%	-1%	7%
Infrastructure			100%	61%	10%	3%	22%	21%	-2%	1%
Listed Alternatives				100%	19%	5%	52%	22%	-6%	-2%
Illiquid credit					100%	66%	62%	17%	5%	18%
IG Credit						100%	33%	18%	47%	37%
Non-IG Credit							100%	21%	2%	12%
Absolute Return								100%	10%	34%
Gilts									100%	30%
Cash										100%

# Data and assumptions

Date of calculation	31 December 2024
Number of simulations	5000
Time horizon	10 years
Asset value	£ 4,804.1M

- Infrastructure is modelled as a blend of 37.5% EU and 62.5% US Infrastructure in line with BCPP's mandate.
- Listed Alternatives are modelled as passive global equities (including emerging markets).
- Private Credit modelled as combination of 2/3 Senior Direct Lending (for Arcmont and Permira) and 1/3 Whole Property Debt (for BCPP).
- Gilts are modelled as a 62.9% 15 year index-linked gilts and 37.1% 20 year index-linked gilts.
- Property is modelled as UK Property.
- Liquid IG Credit modelled as UK corporate bonds (A-rated with average duration of 10 years)
- Liquid Non-IG Credit modelled as high yield multi-asset credit.
- Absolute Return is modelled as Leadenhall Insurance Linked Securities modelled as an equal blend of Aggressive, Conservative and Moderate ILS.
- The Fund has an allocation to Equities which make up 50% of the long term allocation.
- For modelling purposes (and for consistency with the approach taken by the Actuary) we do not allow for any outperformance from active management (alpha).
- We have not allowed for the impact of equity protection on the risk and return of the portfolio
- Equities have been modelled using region splits in line with the long term allocation:

Passive UK Equity	10%
Passive Global Equity (including Emerging Markets)	90%

## Purpose, key assumptions and judgements of the model

The purpose of this analysis is to consider and monitor the return and risk characteristics of the current and long term investment strategy of the Fund. The key assumptions and judgements of the model are set out below and we believe are reasonable for the intended purpose.

- The calculation considers (5000 stochastic) simulations of annual absolute returns over the period modelled. The simulations are constructed using Aon's Stochastic Asset Model, further details and assumptions are outlined in this appendix.
- A liability proxy is not considered.
- Allocations are assumed to be annually rebalanced, in practice this may not always be possible for illiquid assets.
- The calculations do not take into account any cashflows payable.

# Limitations

Material risks to the Fund include covenant, longevity, market, inflation, contributions, expenses and liquidity.

- Our stochastic scenarios include market risk only, and this risk is present in the distribution of returns and is reflected in the risk metrics shown. Market risk has been calculated on an asset only basis.
- This modelling does not cover liability basis, inflation, covenant, longevity, contributions, expenses and liquidity risk. When using the modelling analysis, the user should consider how these risks apply and whether they are material to the decisions under consideration.

There are other factors that could materially affect the Fund's funding and strategy decisions, or the exposure or realisation of the risks above:

- These other factors include external factors such as climate change or political, regulatory and legislative change.
- The general risk factors of economic or technological change are reflected in our economic assumptions and the prevalence of extreme events in our economic model, but not all specific risks can be captured (e.g. disruptions to the financial system, or technological change leading to improvements in longevity).
- There are other risks to which the Fund is exposed that we assume are not material to long-term funding and investment strategy decisions, such as timing of member options or operational risks

# Limitations (continued)

There are necessarily some limitations associated with the stochastic scenarios calibrated to Aon's Capital Market Assumptions used for asset-liability modelling.

- CMAs and asset-liability modelling. Asset-liability projections rely on views of the future and whilst median projections are our Aon-house views (intended to reflect no bias), we do not know what will materialise in practice (for example it cannot be predicted exactly how the equity market and bond market will develop over the next year). To help build up a more complete picture of possible outcomes, we project assets and liabilities stochastically with the aim of capturing the uncertainty associated with the projections. This approach is designed to be coherent with each asset being calibrated to target a CMA median return, volatility and set of interdependencies (correlations) assumptions. Nevertheless, there remain some limitations, including but not limited to those set out below.
- Whilst Aon's CMA assumptions are supported by historical data, current financial market prices and expert views there are necessary some limitations in the analysis, including, but not limited to, the following:
  - Long-term versus short-term. The stochastic scenario calibration primarily seeks to capture a realistic long-term distribution of outcomes but is also mindful of short-term risk behaviours. These, sometimes competing, objectives can lead to some trade-offs within stochastic scenario calibration and the requirement for significant expert judgement. Where significant focus is applied to an individual asset class, particularly for more extreme outcomes, the user should bear this limitation in mind, and/or may wish to consider the use of deterministic scenarios.
  - Only 5,000 scenarios are produced. There is necessarily a trade-off between running more scenarios and spurious accuracy. Notably as you approach extreme tails, i.e., 1-200 this is an area of the distributions where there is insufficient market information to apply rigorous statistical analysis to explicitly calibrate models to, as such seeking to define the model outcome with a high degree of confidence is to some extent spurious and will be heavily driven by model selection.
  - Data used for the CMAs may be limited and/or be subject to interpretation for relevance today. The issues that arise from a lack of or poor historical data may be compounded by changing context. For example, for part of the last 100 years the UK was either on the gold standard or a quasi-gold standard, which is a very different economic framework than floating currencies. This obviously creates significant issues for the relevance of any cash rate and bond yield data.
  - Defined randomness rather than chaotic behaviour. The model, by necessity, assumes an underlying distribution of returns and yields. This presumes the underlying asset returns are random in nature rather than deterministic and chaotic. In a deterministic and/or chaotic framework the concept of a 1-in-X event has no meaning and so is not used in this modelling.
  - Some extreme events are not modelled. Our model is built on the premise that the current monetary and political framework will continue and presumes that there will not be a breakdown of civil order, a major natural disaster, UK government default or a significant global armed conflict. We view these risks as being outside the typical use case, however where very extreme scenarios are considered these may be relevant and should be addressed through deterministic scenario analysis.
  - Unknown unknowns. The model deals with known risks and therefore does not allow for "black swan events" or "unknown unknowns", while our model does have fat tails, it is not possible to fully allow for these types of unknown risks.
  - Volatilities and correlations. Volatility and the correlation of assets are only observable after the fact and can change over time. Within the stochastic scenario calibration, volatility and correlations vary for each of 5,000 scenarios, with the distribution of outcomes largely a function of the chosen economic models and the median long-term volatility and correlation targets. Some correlation behaviour is introduced in the tails e.g., large equity falls with more downward credit transitions.



# Capital Market Assumptions

Aon's Capital Market Assumptions (CMAs) are our asset class return, volatility, and correlation assumptions. The return assumptions are "best estimates" of annualised returns. Below we set out the key features and approach taken in setting these assumptions.

- Aon's CMAs. Market risk is the primary risk considered as part of the CMA setting process.
  - The return assumptions are Aon's "best estimate" returns, with the uncertainty around the expected return represented by the volatility (annualised standard deviation of returns over the projection period) assumptions. Correlation assumptions allow for the interconnectedness of the risks facing different asset classes.
  - By 'best estimate' we specifically refer to the median annualised return. That is, there is a 50/50 chance that outcomes will be above or below the assumptions.
  - Assumptions are set by Aon's Global Asset Allocation Team and represent the long-term (10 and 30 year) market outlook.
  - Our long-term assumptions are based on historical results, current market characteristics, our professional judgment, and forward-looking consensus views.
- Consideration of other approaches. Alternative approaches include using generalized global models, such as the Capital Asset Pricing Model (CAPM) or a fixed risk premia approach, but we believe these approaches over-simplify the analysis and do not capture as much of the intricacies around each asset class.
- Climate risks. We consider the impacts of climate change when setting our assumptions. Making direct adjustments is challenging and subject to a high degree of subjectivity, as climate change effects are extremely 'non-linear'. Aon's capital market assumptions (CMAs) are based on long-term consensus views of what is priced into the market, and therefore indirectly capture the climate risk that is currently captured in current market conditions. A separate range of deterministic scenarios focusing on climate change scenarios can be used to inform and help aid decisions.
- Other risks. The effects of other internal or external environmental factors, such as technological, economic, political and geopolitical, regulatory and legislative changes, are also indirectly captured, in consensus views on the economic outlook and market pricing, which feed into our return assumptions.

# Aon's Stochastic Scenario Generator (SSG) Model

Aon's Stochastic Scenario Generator (SSG) Model is a set of 5,000 stochastic scenarios, calibrated quarterly to Aon's Capital Market Assumptions. These stochastic scenarios can be used to evaluate the risk and return characteristics of a Fund's assets versus its liabilities.

## Asset-liability modelling

- Stochastic scenarios. Aon's Capital Market Assumptions CMAs are used as targets to calibrate a set (typically 5,000) of stochastic scenarios for each economic variable. This allows us to perform stochastic asset-liability studies i.e. project portfolios of assets and liabilities many times into the future, building up a coherent picture of possible outcomes. Allowing for the interactions of asset and liabilities stochastically impacts median outcomes and enables percentile outcomes and probabilistic metrics to be considered.
- Consistent framework. All the major markets and asset classes are modelled within a consistent framework allowing for the interactions between them to be properly taken into account.
- Model choice. When setting assumptions, we have opted to use different economic models for different asset classes (listed on this slide), as we believe this would be the best way to capture the specific characteristics associated with each asset class.

## Key economic models used

- Nominal yields are modelled using an extended displaced Black-Karasinski model, which enables us to model full yield curves. Yields are positively skewed, and the model can fit the starting curve. In the current calibration, average nominal yields are assumed to broadly follow the market for the first c.20 years of the projections.
- Real yields are modelled using a Hull-White model, this enables us to model unbounded full yield curves. The model can fit the starting curve. In the current calibration, average real yields are assumed to broadly follow the market for the first c.20 years of the projections
- Inflation is taken as the difference between nominal and real short rates, and the positive skew of the nominal yield model ensures realised inflation is positively skewed. For realised inflation a 'surprise' element is allowed for making inflation more volatile than purely predicted by the short rates.
- Investment grade corporate bonds are modelled using an extended Jarrow-Lando-Turnbull framework which assumes bonds can be modelled based on their credit rating and anticipated cashflows. This ensures positive credit spreads with positive skew and ratings transitions which broadly reflect historically observed transitions.
- Return-seeking assets are modelled using exposures to factors, where each factor can contain stochastic volatility and/or jump diffusion process. This gives the flexibility to capture more complex tail behaviour than is typically observed in simpler log-normal models.
- Other assets generally use outputs from the models above and exposure to some degree of idiosyncratic element in order to capture desired properties for the asset being considered.

# TAS compliance

This document has been prepared in accordance with the framework set out below.

This document has been requested by the Administering Authority. It has been prepared under the terms of the Agreement between the North Yorkshire Council and Aon Solutions UK Limited on the understanding that it is solely for the benefit of the addressee.

This document, and the work relating to it, complies with 'Technical Actuarial Standard 100: General Actuarial Standards' ('TAS 100') (updated July 2023).

The compliance is on the basis that North Yorkshire Council is the addressee and the only user and that the document is for information only and is not to be used to make any decisions on the contributions payable or the investment strategy. If you intend to make any decisions after reviewing this document, please let me know and I will consider what further information I need to provide to help you make those decisions.

This document should be read in conjunction with:

- The report on the most recent actuarial valuation of the Fund as at 31 March 2022.
- The latest Funding Strategy Statement.

If you require further copies of any of these documents, please let us know.

# Third Party Disclaimers

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	Notes
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