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Hertfordshire Pension Fund

Report on the actuarial valuation at 31 March 2022

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31 March 2023

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Executive Summary

We have been commissioned by Hertfordshire County Council (the Administering Authority) to carry out a valuation of the Hertfordshire Pension Fund (the Fund) as at 31 March 2022. This fulfils Regulation 62 of the Local Government Pension Scheme Regulations 2013. This report is a summary of the valuation.

Contribution rates

The contribution rates for individual employers set at this valuation can be found in the <u>Rates & Adjustments certificate</u>. Table 1 shows the combined individual employer rates set at this valuation and the last valuation (31 March 2019).

Table 1: Whole fund contribution rates compared with the previous valuation

	This valuation 31 March 2022			aluation rch 2019
Primary Rate	20.3%	6 of pay	19.2%	6 of pay
Secondary Rate	2023/2024	£13,158,000	2020/2021	£29,481,000
	2024/2025	£14,980,000	2021/2022	£24,334,000
	2025/2026	£15,311,000	2022/2023	£24,974,000

The Primary rate has increased mainly due to higher inflation

• The Secondary rate has decreased due to good investment performance since the last valuation

Funding position

At 31 March 2022, the past service funding position has improved from the last valuation at 31 March 2019. Table 2 shows the reported funding position at the current and previous valuation.

Table 2: Single reported funding position at 31 March 2022 compared with 31 March 2019

Valuation Date	31 March 2022	31 March 2019
Past Service Liabilities	(£m)	(£m)
Employees	1,969	1,633
Deferred Pensioners	1,395	1,195
Pensioners	2,429	2,094
Total Liabilities	5,793	4,922
Assets	6,162	4,835
Surplus/(Deficit)	370	(87)
Funding Level	106%	98%

The required investment return to be 100% funded is 3.5% pa (the same as at 2019). The likelihood of the Fund's investment strategy achieving the required return is 79% (74% at 2019).

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Approach to valuation



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Valuation Purpose

The triennial actuarial valuation is an important part of the Fund's risk management framework. Its main purpose is to ensure the Fund continues to have a contribution plan and investment strategy that will achieve the objectives set out in the Funding Strategy Statement.

We have been commissioned by Hertfordshire County Council (the Administering Authority) to carry out a valuation of the Hertfordshire Pension Fund (the Fund) as at 31 March 2022. This fulfils Regulation 62 of the Local Government Pension Scheme Regulations 2013. This report marks the culmination of the valuation process and contains its two key outcomes:



Employer contribution rates for the period 1 April 2023 to 31 March 2026.



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The funding level of the Fund at 31 March 2022.

Further information on the valuation process, methodology and strategy is set out in the publicly available Funding Strategy Statement, Investment Strategy Statement and published papers and minutes of the Fund's Pensions Committee. Additional material is also contained in <u>Hymans Robertson's LGPS 2022 valuation</u> toolkit¹.



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Setting employer contribution rates

Employer contributions need to be set at a level which ensures the Fund has a reasonable likelihood of having enough money to pay members' benefits. Identifying the amount of benefits that may be paid is complex as those earned today might only start being paid in 50 years' time. Over that time period, there is significant uncertainty over factors which affect the cost of benefits, eg inflation, investment returns. These uncertainties are allowed for by taking a risk-based approach to setting employer contribution rates. This approach is built around three key funding decisions set by the Fund and asset-liability modelling.

Key funding decisions

For each employer, the Fund determines the most appropriate choice for the following three funding decisions. Further detail is set out in the Funding Strategy Statement.



What is the funding target for each employer?

Will the employer remain in the Fund for the long-term or exit at some point

What is the funding time horizon? How long will the employer participate in the Fund

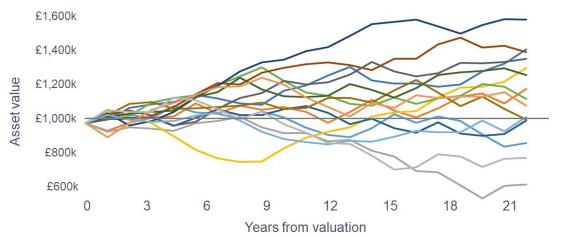
What is the required likelihood?

How much funding risk can the employer's covenant support

Modelling approach

Asset-liability modelling is used to project each employer's assets and benefit payments into the future using 5,000 different economic scenarios. The economic scenarios are generated using Hymans Robertson's Economic Scenario Service (ESS) (further information in Appendix 2).

Picture 1: sample progression of employer asset values under different economic scenarios



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Measuring the funding level

The past service funding level is measured at the valuation. Whilst it is limited in providing insight into a funding plan, it is a useful high-level summary statistic. To measure the funding level, a market-related approach is taken to calculating both the assets and the liabilities (so they are consistent with each other).

- The market value of the Fund's assets at the valuation date have been used.
- The liabilities have been valued using assumptions based on market indicators at the valuation date (these assumptions are detailed in Appendix 2).

Further detail on the liabilities

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The liabilities are the value of all future payments to members based on all benefits earned up to the valuation date, expressed in today's money.

Chart 1 shows the projected payments for all members in the Fund at the valuation date. The projections are based on the membership data provided for the valuation (<u>Appendix 1</u>), the assumptions (Appendix 2) and our understanding of the LGPS benefit structure as at 31 March 2022 (details at www.lgpsregs.org).

To express the future payments in today's money, the projections are discounted with an assumed future investment return on the Fund's assets (the discount rate).

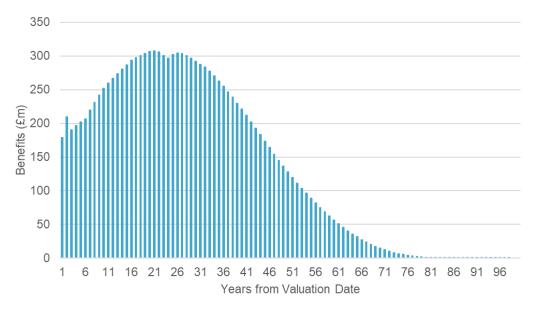


Chart 1: projected benefit payments for all service earned up to 31 March 2022

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Valuation results



Employer contribution rates

The primary objective of the Fund is to set employer contribution rates that will adequately cover the cost of benefits which will accrue in the future and any costs related to benefits already earned. A secondary objective is to ensure the rates are as stable as possible. The risk-based approach detailed earlier is used to meet both these objectives.

The employer contribution rate is made up of two components.

- 1. A primary rate: the level sufficient to cover all new benefits.
- 2. A secondary rate: the costs associated with sufficiently funding benefits accrued up to the valuation date.

		aluation rch 2022		aluation rch 2019
Primary Rate	20.3% of pay		19.2%	6 of pay
Secondary Rate	2023/2024	£13,158,000	2020/2021	£29,481,000
	2024/2025	£14,980,000	2021/2022	£24,334,000
	2025/2026	£15,311,000	2022/2023	£24,974,000

<u>Certificate</u>. Broadly speaking:
Primary rates have increased since the last valuation due to rising inflation.

Each employer has a contribution rate which is appropriate to their circumstances and these can be found in the Rates & Adjustments

• Secondary rates have decreased due to strong investment performance since the previous valuation.

However all employers will be different and the contribution rate will reflect the membership and experiences of each employer.

Table 3 shows the total of all employer contribution rates to be paid into the Fund over the period 1 April 2023 to 31 March 2026.

The primary rate includes an allowance of 0.6% of pensionable pay for the Fund's expenses.

Employees pay a contribution to the Fund in addition to these rates. These rates are set by the LGPS Regulations. The average employee contribution rate at 31 March 2022 is 6.6% of pay (6.4% at 31 March 2019).





Funding level

The funding level is the ratio of assets to liabilities. The market value of the assets at the valuation date are known. The value of the liabilities is uncertain given that the level of future investment returns are unknown.

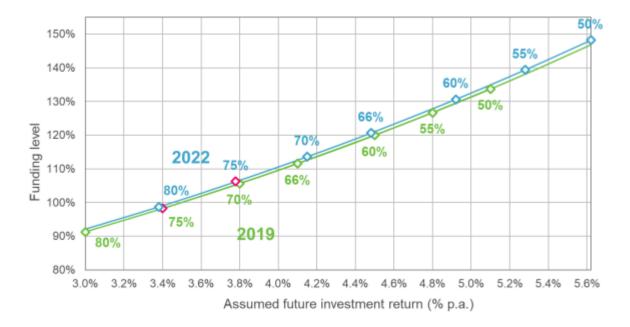
Therefore, the liabilities and funding level have been calculated across a range of different investment returns (the discount rate).

To help better understand funding risk, the likelihood of the Fund's investment strategy (detailed in <u>Appendix 1</u>) achieving certain levels of return has also been calculated.

Chart 2 shows how the funding level varies with future investment return assumptions at 31 March 2022 (blue line). The green line shows the same analysis at 31 March 2019.

- The funding position at 2022 is stronger than 2019.
- The funding level is 100% if future investment returns are c.3.5% pa. The likelihood of the Fund's assets yielding at least this return is around 79%.
- The comparator at 2019 was a return of 3.5% pa which had a likelihood of 74%.
- There is a 50% likelihood of an investment return of 5.6% pa. So the best-estimate funding level is 148% at 31 March 2022 (132% at 2019).





Figures on each line show the likelihood of the Fund's assets exceeding that level of return over the next 20 years

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Reported funding level as at 31 March 2022

Whilst the chart on the previous page provides a better understanding of the past service funding position, there is still a requirement to report a single funding level at 31 March 2022.

To report a single funding level and funding surplus/deficit for the 2022 valuation, a discount rate of 3.8% pa has been used. There is a 75% likelihood associated with a future investment return of 3.8% pa.

Table 4 details the liabilities, split by member status and the market value of assets at the valuation date. The results at the 2019 formal valuation are shown for comparison.

The funding level and surplus/deficit figures provide a high-level snapshot of the funding position of the Fund as at 31 March 2022, however there are limitations:

- The liabilities are calculated using a single set of assumptions about the future and so are very sensitive to the choice of assumptions.
- The market value of assets held by the Fund will change on a daily basis.

The future progression of the funding position is uncertain. If the financial and demographic assumptions made at this valuation actually occur, employers pay contributions in line with the R&A certificate and there are no other changes in the financial or demographic environment, we project that the funding level at the next valuation (31 March 2025) will be approximately 104%.

Table 4: single reported funding level

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Valuation Date	31 March 2022	31 March 2019
Past Service Liabilities	(£m)	(£m)
Employees	1,969	1,633
Deferred Pensioners	1,395	1,195
Pensioners	2,429	2,094
Total Liabilities	5,793	4,922
Assets	6,162	4,835
Surplus/(Deficit)	370	(87)
Funding Level	106%	98%

Important: the reported funding level does not directly drive the contribution rates for employers. The contribution rates consider how assets and liabilities will evolve over time in different economic scenarios and also reflect each employer's funding profile and covenant.



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Changes since the last valuation

Events between 2019 and 2022

The most significant external event to occur since the last valuation has been the Covid-19 pandemic. The experience analysis below shows that there has been a lower than expected number of deaths over the period. However, the impact on the funding position has been small. This is likely due to the age profile of the excess deaths and the level of pension.

Other significant factors occurring which affect the funding strategy of the Fund have been the better than expected investment returns. This has had a material positive impact on the funding position and employers' secondary contribution rates.

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Table 5: analysis of financial experience between 2019 and 2022 valuations

	Expected	Actual	Difference	Impact on funding position
3 year period	10.6%	24.9%	14.4%	+£720m
Annual	3.4% pa	7.7% pa	4.3% pa	

Membership

Table 6: analysis of membership experience between 2019 and 2022 valuations

	Expected	Actual	Difference	Impact on funding position
Early leavers	15,221	21,109	5,888	+£9m
III-health retirements	180	173	-7	+£3m
Salary increases	3.3% pa	4.4% pa	1.1% pa	-£30m
Benefit increases	2.3% pa	1.8% pa	-0.6% pa	+£74m
Pension ceasing	£11.3m	£10.5m	-£0.8m	-£6m

Changes since the last valuation

Future outlook

Expectations about the future, which inform the assumptions used to value the liabilities, have changed since the last valuation. The most significant changes are:

- Future inflation: this is expected to be on average higher than at 2019 due to the current level of high inflation.
- Investment returns: due to changes in financial markets, future investment returns are now expected to be higher than at the last valuation.

Factor	What does it affect?	What's changed?	Impact on liabilities
Future investment returns	The rate at which future benefit payments are discounted back, ie the discount rate assumption	Future investment returns slightly higher at 2022 than at 2019. The assumed return is now 3.8% pa vs. 3.4% pa at 2019.	Decrease of £448m
Inflation	The rate at which pensions in payment and deferment and CARE pots increase	Significant increase in short-term future inflation expectations.	Increase of £435m
Salary increases	The rate at which future salaries increase. This affects benefits that are still linked to final salary, ie accrued before 1 April 2014	No material change since last valuation given competing factors e.g. tighter budgetary conditions vs. strong job market and pressure from National Living Wage increases.	Increase of £5m
Current life expectancy	How long we expect people to live for based on today's current observed mortality rates.	Slight reduction in life expectancy based on current observed data (not allowing for Covid-related excess deaths)	Decrease of £14m
Future improvements in life expectancy	How we expect life expectancies to change (increase) in the future.	Uncertainty about effectiveness of mitigations against life expectancy increases in the LGPS i.e. State Pension Age increases and Cost Cap. Need to better reflect wider pension and insurance industry long-term expectations.	Increase of £40m

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Reconciling the overall change in funding position

The tables below provide insight into the funding position change between 31 March 2019 and 31 March 2022. Firstly, the changes we expect to happen (Table 8), which relate mostly to items on the asset side. Then the impact of actual experience (Table 9), which mainly affects the liabilities. The valuation process illustrated some gaps/inconsistent membership data. This has led to a slightly higher "Other membership experience" item in the reconciliation that we would normally expect to see. However, the Fund, alongside the third party administrator, is putting in place a data rectification plan to resolve any data issues.

Table 8: expected development of funding position between 2019 and 2022 valuations **Expected development**

Change in the surplus/deficit position	Surplus / Deficit
	£m
Last valuation at 31 March 2019	(87)
Cashflows	
Employer contributions paid in	452
Employee contributions paid in	124
Net transfers into / out of the Fund	21
Other cashflows (e.g. Fund expenses)	(12)
Expected changes	
Expected investment returns	529
Interest on benefits already accrued	(525)
Accrual of new benefits	(636)
Expected position at 31 March 2022	(134)

Impact of actual events

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Table 9: impact of actual events on the funding position at 31 March 2022

Change in the surplus/deficit position	Surplus / Deficit
	£m
Expected position at 31 March 2022	(134)
Events between 2019 and 2022	
Salary increases greater than expected	(30)
Benefit increases less than expected	74
Early retirement strain (and contributions)	0
III health retirement strain	3
Early leavers greater than expected	9
Commutation less than expected	(13)
Pensions ceasing less than expected	(6)
McCloud remedy	(5)
Other membership experience	(218)
Higher than expected investment returns	720
Changes in future expectations	
Investment returns	448
Inflation	(435)
Salary increases	(5)
Longevity	(26)
Other demographic assumptions	(11)
Actual position at 31 March 2022	370
Numbers may not sum due to rounding	HYMANS

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Sensitivity & risk analysis



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Sensitivity and risk analysis: assumptions

There is risk and uncertainty inherent with funding benefit payments that will be paid out many years in the future. The Fund is aware of these and has in place a risk register which is regularly reviewed. Additionally, as part of the valuation, the Fund reviews sources of risk that may impact its funding position and the contribution rates payable by employers.

This section discusses some of the most significant sources of funding risk (assumptions, regulatory, administration and governance and climate change). Further information of the Fund's approach to funding risk management, including monitoring, mitigation and management, is set out in the Funding Strategy Statement.

The valuation results depend on the actuarial assumptions made about the future. By their nature, these assumptions are uncertain which means its important to understand their sensitivity and risk levels.

Contribution rates

The risk-based approach to setting employer contribution rates mitigates the limitation of relying on one set of assumptions. Therefore, there is no need to carry out additional analysis of the sensitivity of contribution rates to changes in financial assumptions. The contribution rates are sensitive to changes in demographic assumptions. The results in this section in relation to the funding position can be broadly applied to the contribution rates.

Funding level Financial assumptions

On page 10, we have already set out how the results vary with the assumed future investment return. The table below considers inflation.

Table 10: sensitivity of funding position to inflation assumption

CPI Assumption	Surplus/ (Deficit)	Funding Level
% pa	(£m)	%
2.5%	555	110%
2.7%	370	106%
2.9%	178	103%

Demographic assumptions

The main area of demographic risk is if people live longer than expected. The table below shows the impact of longer term longevity rates improving at a faster rate (1.75% pa vs 1.5% pa used in the results)

Table 11: sensitivity of funding position to longevity assumption

Long term rate of improvement	Surplus/ (Deficit)	Funding Level		
% pa	(£m)	%		
1.5%	370	106%		
1.75%	319	105%		

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Sensitivity and risk analysis: other risks

Regulatory, Administration and Governance risks

Potential risks in this area include change in central government legislation which changes the future cost of the LGPS and failures in administration processes leading to incorrect data and inaccuracies in actuarial calculations. At this valuation, specific risks include:

- McCloud: the remedy to resolve the McCloud case is yet to be formalised in regulations. However, an allowance has been included for this expected benefit change at the 2022 valuation as directed by the Department of Levelling Up, Housing and Communities in their letter dated March 2022¹.
- **Goodwin:** the remedy to this issue is still uncertain, it is difficult to identify who it would apply to and its impact is estimated to be very small for a LGPS fund (0.1-0.2% of liabilities). Therefore, no allowance has been made for this case at the 2022 valuation.
- **Cost Cap:** a legal challenge is ongoing in relation to the 2016 cost cap valuation and no information is known about the outcome of the 2020 cost cap valuation. At this valuation, no allowance has been made for any changes to the benefit structure that may occur as a result of a cost cap valuation.
- **GMP indexation:** it is assumed that all increases on GMPs for members • reaching State Pension Age after 6 April 2016 will be paid for by LGPS employers. This is the same approach that was taken for the 2019 valuation.

Post valuation events

Since 31 March 2022, there has been significant volatility in the financial markets, short-term inflation expectations and rises in interest rates by central banks. These events affect the value of the Fund's assets and liabilities.

- The Fund's investment return between 31 March 2022 and 28 February 2023 is estimated to be somewhere between -5% and -10%.
- Liability valuations are likely to be lower at 28 February 2023 than at 31 March 2022 due to rises in expected future investment returns more than offsetting the higher than expected (10.1%) pension increase at April 2023.

As an open scheme, with a strong covenant, the Fund takes a long-term view when considering the funding impact of such events. For employers who have a very short time horizon, recent volatility may be more immediately impactful, and the Fund has engaged with these employers as appropriate.

No explicit allowance has been made for this volatility in the valuation results or contribution rates detailed in the Rates & Adjustments Certificate. The Fund will continue to monitor changes in the financial and demographic environment as part of its ongoing risk management approach.

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Sensitivity and risk analysis: climate change

Background

Climate change is a major source of uncertainty which could affect future investment returns, inflation and life expectancies. Therefore, the Fund has explicitly explored the resilience of its funding and investment strategy to future potential climate change outcomes.

It is impossible to confidently quantify the effect of climate risk given the significant uncertainty over the impact of different possible climate outcomes. Instead, three different climate change scenarios have been considered as a stress-test (instead of trying to predict how climate change affects the funding level in the future).

All the scenarios assume that there will be a period of disruption linked either to the response to climate risk (transition risks) or the effect of it (physical risks). This disruption will lead to high volatility in financial markets, and the later the disruption, the more pronounced it will be.

Further detail on the scenarios is shown on the next page and in our guide 10 of Hymans Robertson's LGPS 2022 valuation toolkit¹

Outcome of analysis

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The Fund has set its funding and investment strategy using asset-liability modelling and considering two main risk metrics:

¹ www.hymans.co.uk/media/uploads/LGPS_2022_Valuation_Toolkit.pdf

- Likelihood of success the chance of being fully funded in 20 years' time
- Downside risk the average worst 5% of funding levels in 20 years' time

When exploring the potential impact of climate change, the Fund has compared how these risk metrics change under each climate change scenario (against the '*Core*' model used when setting the funding and investment strategy). The stress test results for the Fund are shown in Table 12 below.

Table 12: sensitivity of funding position to climate change

Scenario	Likelihood of success	Downside risk
Core	82%	53%
Green Revolution	79%	48%
Delayed Transition	79%	53%
Head in the Sand	78%	54%

The results are worse in the climate scenarios. This is to be expected given that they are purposefully stress-tests and all the scenarios are bad outcomes. The stress tests illustrated that across a broad range of scenarios the funding strategy was shown to be robust. This analysis does not represent the worst impacts that the Fund may suffer as a result of climate risk. The Fund will continue to monitor this risk as more information emerges and climate change modelling techniques evolve.



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Final comments



Final comments

The Fund's valuation operates within a broader framework, and this document should be considered alongside the following:

- The Funding Strategy Statement, which in particular highlights how different types of employer in different circumstances have their contributions calculated
- The Investment Strategy Statement, which sets out the investment strategy for the Fund
- The general governance of the Fund, such as meetings of the Pensions Committee and Local Pensions Board, decisions delegated to officers, the Fund's business plan, etc
- The Fund's risk register

New employers joining the Fund

Any new employers or admission bodies joining the Fund should be referred to the Fund Actuary to assess the required level of contribution. Depending on the number of transferring members the ceding employer's rate may also need to be reviewed.

Cessations and bulk transfers

Any employer who ceases to participate in the Fund should be referred to the Fund Actuary in accordance with Regulation 64 of the LGPS regulations.

Any bulk movement of scheme members:

- involving 10 or more scheme members being transferred from or to another LGPS fund
- involving 2 or more scheme members being transferred from or to a non-LGPS pension arrangement

should be referred to the Fund Actuary to consider the impact on the Fund.

Valuation frequency

Under the LGPS regulations, the next formal valuation of the Fund is due to be carried out as at 31 March 2025 where contribution rates payable from 1 April 2026 will be set.



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31 March 2023 For and on behalf of Hymans Robertson LLP

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Appendices





Membership data

A summary of the membership data provided by the Fund for the 2022 valuation is set out in Table 13. The corresponding membership data from the previous valuation is also shown for reference.

The results of the valuation are dependent on the quality of the data used. We have carried out a series of validation checks on the data supplied to us by the Administering Authority to ensure that it is fit for purpose.

Asset data

To check the membership data and derive employer asset values, we have used asset and accounting data and employer level cashflow data provided by the Fund.

Table 13: Whole fund membership data as at 31 March 2022 and 31 March 2019

Whole Fund Membership Data	This Valuation 31 March 2022	Last Valuation 31 March 2019	
Employee members			
Number	36,421	35,200	
Total actual pay (£000)	655,233	592,163	
Total accrued pension (£000)	106,781	89,162	
Average age (liability weighted)	52.9	52.2	
Future working lifetime (years)	5.2	6.8	
Deferred pensioners (including undecideds)			
Number	56,715	53,631	
Total accrued pension (£000)	71,165	62,201	
Average age (liability weighted)	52.6	51.7	
Pensioners and dependants			
Number	31,423	28,193	
Total pensions in payment (£000)	151,976	127,626	
Average age (liability weighted)	69.8	68.7	



Investment strategy

A summary of the investment strategy allocation used for the calculation of employer contribution rates and to derive the future assumed investment return is set out in Table 14.

This information is as advised by the Fund's investment consultant.

Table 14: Investment strategy used for the 2022 valuation

Asset class	Allocation
UK equities	2.0%
Global Equities (hedged)	18.6%
Global Equities (unhedged)	19.6%
EM equities (unhedged)	1.3%
DGF Low Beta	5.5%
Private Equity	6.7%
Property	15.5%
Infrastructure equity (unlisted)	0.1%
A Credit (14 yr maturity)	9.0%
Index linked gilt (24 yr maturity)	11.0%
EM Debt Local	0.4%
Multi Asset Credit (sub	5.0%
investment grade)	
High Yield Credit (unhedged)	0.6%
Private Lending	0.6%
Infrastructure Debt	3.3%
Insurance Linked Securities	1.0%
LDI Collateral	-1.6%
Cash	1.3%
Total	100.0%

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Assumptions

To set and agree assumptions for the valuation, the Fund carried out in-depth analysis and review in early 2022 with the methodology agreed by the Pensions Committee on 3 March 2022.

Financial assumptions

Setting employer contribution rates

An asset-liability model is used to set employer contributions at the 2022 valuation. This model relies on Hymans Robertson's proprietary economic model, the Economic Scenario Service (ESS). The ESS reflects the uncertainty associated with future levels of inflation and asset returns and the interactions and correlations between different asset classes and wider economic variables. In the short term (first few years), the models are fitted with current financial market expectations. Over the longer term, models are built around views of fundamental economic parameters, for example equity risk premium, credit spreads and long term inflation. The table below shows the calibration of the ESS at 31 March 2022. Further information on the assumptions used for contribution rate setting is included in the Funding Strategy Statement.

Table 15: ESS individual asset class return distributions at 31 March 2022

Annualised total returns

		UK Equities	Global Equities (hedged)	Global Equities (unhedg ed)	EM Equities (Unhedg ed)	DGF Low Beta	Private Equity	Property	Infrastru cture equity (unlisted)	A credit (14 yr maturity)	Index linked gilt (24 yr maturity)	EM Debt Local	Multi asset credit (sub investme nt grade)	Private lending	Infrastruc ture Debt	Insurance Linked Securities	Cash
5	16 th %ile	-0.4%	-0.3%	-0.4%	-2.5%	1.4%	-1.2%	-0.6%	0.7%	-1.0%	-3.1%	-1.5%	1.7%	2.7%	-0.3%	1.6%	0.8%
Years	50 th %ile	5.7%	5.9%	5.8%	5.8%	3.2%	9.4%	4.4%	5.9%	1.2%	-0.7%	3.4%	3.5%	6.0%	2.2%	4.3%	1.8%
	84 th %ile	11.6%	11.9%	11.9%	14.4%	5.1%	20.1%	9.5%	11.2%	3.2%	2.0%	8.6%	5.2%	9.2%	4.3%	7.1%	2.9%
10	16 th %ile	1.7%	1.9%	1.8%	0.1%	2.1%	2.4%	1.4%	2.6%	0.4%	-2.6%	0.5%	2.8%	4.3%	1.2%	2.9%	1.0%
Years	50 th %ile	6.2%	6.4%	6.3%	6.3%	3.8%	10.0%	5.0%	6.5%	1.6%	-0.9%	4.2%	4.4%	6.8%	2.7%	5.1%	2.4%
	84 th %ile	10.6%	11.0%	11.1%	12.8%	5.7%	17.6%	8.9%	10.6%	2.8%	0.8%	8.1%	6.0%	9.2%	4.2%	7.4%	4.0%
20	16 th %ile	3.2%	3.5%	3.4%	2.1%	2.5%	4.7%	2.6%	3.9%	1.8%	-1.1%	1.9%	3.6%	5.5%	2.3%	3.8%	1.2%
Years	50 th %ile	6.7%	6.8%	6.8%	6.8%	4.4%	10.3%	5.5%	7.0%	2.7%	0.3%	5.0%	5.3%	7.7%	3.7%	5.8%	2.9%
	84 th %ile	10.2%	10.4%	10.4%	11.7%	6.5%	16.1%	8.8%	10.3%	3.8%	1.9%	8.2%	7.1%	10.0%	5.1%	8.1%	4.9%
	Volatility (5 yr)	18%	18%	18%	26%	5%	30%	15%	15%	8%	9%	15%	6%	10%	8%	8%	2%



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Assumptions

Financial assumptions Calculating the funding level

The table below summarises the assumptions used to calculate the funding level at 31 March 2022, along with a comparison at the last valuation.

Table 16: Summary of assumptions used for	r measuring the funding leve	l, compared to last valuation on 31 March 2019
	5 5	

Assumption	31 March 2022	Required for	31 March 2019
Discount rate	3.8% pa	To place a present value on all the benefits promised to scheme members at the valuation date. The Fund's assets are estimated to have a 75% likelihood of returning above the discount rate.	3.4% pa
Benefit increases/CARE revaluation	2.7% pa	To determine the size of future benefit payments.	2.3% pa
Salary increases	3.2% pa	To determine the size of future final-salary linked benefit payments.	2.7% pa

Allowing for the McCloud remedy

Allowance has been included for this expected benefit change at the 2022 valuation as directed by the Department of Levelling Up, Housing and Communities in their letter dated March 2022¹. Further technical detail about this assumption is set out in guide 13 of <u>Hymans Robertson's LGPS 2022 valuation toolkit</u>²

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Assumptions

Demographic assumptions

The same demographic assumptions are used in setting contribution rates and assessing the current funding level.

Longevity

Table 17: Summary of longevity assumptions

	This valuation 31 March 2022	Last valuation 31 March 2019
Baseline assumption	VitaCurves based on member- level lifestyle factors	VitaCurves based on member- level lifestyle factors
Future improvements	CMI 2021 model Initial addition = 0.25% (both Female and Male) Smoothing factor = 7.0 1.5% pa long-term rate of improvement	CMI 2018 model Initial addition = 0.25% (Female), 0.5% (Male) Smoothing factor = 7.0 1.25% pa long-term rate of improvement

Further information on these assumptions can be provided upon request. Sample rates are included on the next page.

Other demographic assumptions

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Table 18: Summary of other demographic assumptions

Death in service	See sample rates in Tables 19 & 20
Retirements in ill health	See sample rates in Tables 19 & 20
Withdrawals	See sample rates in Tables 19 & 20
Promotional salary increases	See sample rates in Tables 19 & 20
Commutation	45% of future retirements elect to exchange pension for additional tax free cash up to HMRC limits
50:50 option	1.0% of members (uniformly distributed across the age, service and salary range) will choose the 50:50 option
Retirement age	The earliest age at which a member can retire with their benefits unreduced
Family details	A varying proportion of members are assumed to have a dependant at retirement or on earlier death. For example, at age 60 this is assumed to be 90% for males and 85% for females. The dependant of a male member is assumed to be 3 years younger than him and the dependent of a female member is assumed to be 3 years older than her.

Assumptions

Sample rates for demographic assumptions

Males

Table 19: Sample rates of male demographic assumptions

Age	Salary Scale	Death Before Retirement	Withd	rawals	III Healt	h Tier 1	III Heal	th Tier 2	Age	Salary Scale	
	:	FT & PT	FT	PT	FT	PT	FT	PT		:	
20	105	0.17	525.60	813.01	0.00	0.00	0.00	0.00	20	105	
25	117	0.17	347.18	537.03	0.00	0.00	0.00	0.00	25	117	
30	131	0.20	246.33	380.97	0.00	0.00	0.00	0.00	30	131	
35	144	0.24	192.46	297.63	0.10	0.07	0.02	0.01	35	144	
40	150	0.41	154.95	239.55	0.16	0.12	0.03	0.02	40	150	
45	157	0.68	145.55	224.96	0.35	0.27	0.07	0.05	45	157	
50	162	1.09	119.98	185.23	0.90	0.68	0.23	0.17	50	162	
55	162	1.70	94.48	145.94	3.54	2.65	0.51	0.38	55	162	
60	162	3.06	84.21	130.02	6.23	4.67	0.44	0.33	60	162	
65	162	5.10	0.00	0.00	11.83	8.87	0.00	0.00	65	162	

Females

Table 20: Sample rates of female demographic assumptions

III Health Tier 1 III Health Tier 2		Age	Salary Scale	Death Before Retirement	Withdrawals		vals III Health Tier 1		III Health Tier 2			
FT	PT	FT	PT			FT & PT	FT	PT	FT	PT	FT	PT
0.00	0.00	0.00	0.00	20	105	0.10	422.91	607.58	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	25	117	0.10	284.56	408.77	0.10	0.07	0.02	0.01
0.00	0.00	0.00	0.00	30	131	0.14	238.54	342.61	0.13	0.10	0.03	0.02
0.10	0.07	0.02	0.01	35	144	0.24	205.88	295.59	0.26	0.19	0.05	0.04
0.16	0.12	0.03	0.02	40	150	0.38	171.35	245.93	0.39	0.29	0.08	0.06
0.35	0.27	0.07	0.05	45	157	0.62	159.90	229.46	0.52	0.39	0.10	0.08
0.90	0.68	0.23	0.17	50	162	0.90	134.81	193.25	0.97	0.73	0.24	0.18
3.54	2.65	0.51	0.38	55	162	1.19	100.59	144.34	3.59	2.69	0.52	0.39
6.23	4.67	0.44	0.33	60	162	1.52	81.07	116.18	5.71	4.28	0.54	0.40
11.83	8.87	0.00	0.00	65	162	1.95	0.00	0.00	10.26	7.69	0.00	0.00

Figures are incidence rates per 1,000 members except salary scale. FT and PT denoted full-time and part-time members respectively.

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Reliances and limitations

We have been commissioned by Hertfordshire County Council ("the Administering Authority") to carry out a full actuarial valuation of the Hertfordshire Pension Fund ("the Fund") as at 31 March 2022 as required under Regulation 62 of the Local Government Pension Scheme Regulations 2013 ("the Regulations").

This report is addressed to the Administering Authority. It has been prepared by us as actuaries to the Fund and is solely for the purpose of summarising the main outcomes of the 2022 actuarial valuation. It has not been prepared for any other third party or for any other purpose. We make no representation or warranties to any third party as to the accuracy or completeness of this report, no reliance should be placed on this report by any third party and we accept no responsibility or liability to any third party in respect of it.

Hymans Robertson LLP is the owner of all intellectual property rights in this report. All such rights are reserved.

This summary report is the culmination of other communications in relation to the valuation, in particular:

- Our <u>2022 valuation toolkit</u> which sets out the methodology used when reviewing funding plans
- Our paper to the Fund's officers dated February 2022 which discusses the funding strategy for the Fund's councils
- Our paper to the Fund's Pension Committee dated 3 March 2022 which discusses the valuation assumptions
- Our initial results report dated 15 November 2022 which outlines the preliminary whole fund results and inter-valuation experience

- Our data report dated 27 March 2023 which summarises the data used for the valuation, the approach to ensuring it is fit for purpose and any adjustments made to it during the course of the valuation
- The Funding Strategy Statement which details the approach taken to adequately fund the current and future benefits due to members

The totality of our advice complies with the Regulations as they relate to actuarial valuations.

The following Technical Actuarial Standards apply to this advice, and have been complied with where material and to a proportionate degree. They are:

- TAS100 Principles for technical actuarial work
- TAS300 Pensions

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Glossary

Term	Explanation
50:50 option	An option for LGPS members to pay half contributions and earn half the retirement benefit (pre-retirement protection benefits are unreduced).
Asset-liability modelling	An approach to modelling and understanding risk for a pension fund. The assets and liabilities are projected forward into the future under many different future scenarios of inflation, investment returns and interest rates. The future scenarios are then analysed to understand the risk associated with a particular combination of contribution rates and investment strategy. Different combinations of contribution rates and/or investment strategies may be tested.
Baseline longevity	The rates of death (by age and sex) in a given group of people based on current observed data.
Club Vita	A firm of longevity experts we partner with for longevity analysis. They combine data from thousands of pension schemes and use it to create detailed baseline longevity assumptions at member-level, as well as insight on general longevity trends and future improvements.
Commutation	The option for members to exchange part of their annual pension for a one-off lump sum at retirement. In the LGPS, every £1 of pension exchanged gives the member £12 of lump sum. The amounts that members commute is heavily influenced by tax rules which set an upper limit on how much lump sum can be taken tax-free.
CPI inflation	The annual rate of change of the Consumer Prices Index (CPI). The CPI is the UK government's preferred measure of inflation and is the measure used to increase LGPS (and all other public sector pension scheme) benefits each year.
Deferred pensioners	A former employee who has left employment (or opted out of the pension fund) but is not yet in receipt of their benefits from the fund.
Demographic assumptions	Assumptions concerned with member and employer choices rather than macroeconomic or financial factors. For example, retirement age or promotional salary scales. Demographic assumptions typically determine the timing of benefit payments.

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Glossary

Term	Explanation
Discount rate	A number used to place a single value on a stream of future payments, allowing for expected future investment returns.
Employee members	Members who are currently employed by employers who participate in the fund and paying contributions into the fund.
ESS	Economic Scenario Service - Hymans Robertson's proprietary economic scenario generator used to create thousands of simulations of future inflation, asset class returns and interest rates.
Funding position	 The extent to which the assets held by the fund at 31 March 2022 cover the accrued benefits ie the liabilities. The two measures of the funding position are: the funding level - the ratio of assets to liabilities; and the funding surplus/deficit - the difference between the asset and liabilities values.
Inflation	Prices tend to increase over time, which is called inflation. Inflation is measured in different ways, using a different 'basket' of goods and mathematical formulas.
Liabilities	An employer's liability value is the single value at a given point in time of all the benefit payments expected to be made in future to all members. Benefit payments are projected using demographic and financial assumptions and the liability is calculated using a discount rate.
Longevity improvements	An assumption about how rates of death will change in future. Typically we assume that death rates will fall and life expectancies will improve over time, continuing the long-running trend.
Pensioners	A former employee who is in receipt of their benefits from the fund. This category includes eligible dependants of the former employee.

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Glossary

Term	Explanation
Primary rate	The estimated cost of future benefits, expressed in percentage of pay terms. The primary rate will include an allowance to cover the fund's expenses.
Prudence	To be prudent means to err on the side of caution in the overall set of assumptions. We build prudence into the choice of discount rate by choosing an assumption with a prudence Level of more than 50%. All other assumptions aim to be best estimate.
Prudence Level	A percentage indicating the likelihood that a discount rate assumption will be achieved in practice, based on the ESS model. The higher the prudence level, the more prudent the discount rate is.
Secondary rate	An adjustment to the primary rate, generally to reflect costs associated with benefits that have already been earned up to the valuation date. This may be expressed as a percentage of pay and/or monetary amount.
Withdrawal	Refers to members leaving the scheme before retirement. These members retain an entitlement to an LGPS pension when they retire, but are no longer earning new benefits.

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Rates & Adjustments certificate



Rates and Adjustments Certificate

In accordance with Regulation 62 of the LGPS regulations, we have assessed the contributions that should be paid into the Hertfordshire Pension Fund (the Fund) by participating employers for the period 1 April 2023 to 31 March 2026 in order to maintain the solvency of the Fund.

The method and assumptions used to calculate the contributions set out in this Rates and Adjustments certificate are detailed in the Funding Strategy Statement dated 1 April 2023 and in Appendix 2 of the report on the actuarial valuation dated 31 March 2023. These assumptions underpin our estimate of the number of members who will become entitled to a payment of pensions under the provisions of the LGPS and the amount of liabilities arising in respect of such members.

The table below summarises the whole fund primary and secondary contribution rates for the period 1 April 2023 to 31 March 2026. The primary rate is the payroll weighted average of the underlying individual employer primary rates and the secondary rate is the total of the underlying individual employer secondary rates, calculated in accordance with the LGPS regulations and CIPFA guidance. The secondary rate has been shown both as a monetary amount and an equivalent percentage of the projected pensionable pay.

		This valuation 31 March 2022	
Primary rate		20.3% of pay	
Secondary rate		Monetary amount	Equivalent to % of payroll
	2023/24	£13,158,000	1.9%
	2024/25	£14,980,000	2.1%
	2025/26	£15,311,000	2.1%

The required minimum contribution rates for each employer in the Fund are set out in the remained of this certificate.

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Employer	Employer nam	16	Primary rate	Secondary rate	e (% of pay plus moneta ب	ry amount)	Total contributio	ons (primary rate plus s	secondary rate)
code			(% of pay)	2023/24	2024/25	2025/26	2023/24	2024/25	2025/26
Scheduled	d & Designated bo	dies							
Pool	Hertfordshire Co	unty Council	19.5%	0.1%	0.1%	0.1%	19.6%	19.6%	19.6%
Pool	Broxbourne Boro	ugh Council	19.8%	£151,000	£156,000	£161,000	19.8% & £151,000	19.8% & £156,000	19.8% & £161,000
Pool	Dacorum Boroug	h Council	19.5%	£1,262,000	£1,303,000	£1,345,000	19.5% & £1,262,000	19.5% & £1,303,000	19.5% & £1,345,000
Pool	East Herts Distric	ct Council	19.8%	£617,000	£637,000	£658,000	19.8% & £617,000	19.8% & £637,000	19.8% & £658,000
Pool	Hertsmere Borou	ıgh Council	19.7%	£1,000,000	£1,032,000	£1,065,000	19.7% & £1,000,000	19.7% & £1,032,000	19.7% & £1,065,000
Pool	North Herts Distr	ict Council	19.5%	£965,000	£996,000	£1,028,000	19.5% & £965,000	19.5% & £996,000	19.5% & £1,028,000
Pool	St Albans Distric	t Council	19.7%	£1,370,000	£1,414,000	£1,460,000	19.7% & £1,370,000	19.7% & £1,414,000	19.7% & £1,460,000
Pool	Stevenage Borou	ıgh Council	19.3%	£1,438,000	£1,484,000	£1,532,000	19.3% & £1,438,000	19.3% & £1,484,000	19.3% & £1,532,000
Pool	Three Rivers Dis	trict Council	19.3%	£52,000	£54,000	£56,000	19.3% & £52,000	19.3% & £54,000	19.3% & £56,000
Pool	Watford Borough	Council	19.1%	£1,619,000	£1,671,000	£1,725,000	19.1% & £1,619,000	19.1% & £1,671,000	19.1% & £1,725,000
Pool	Welwyn & Hatfie	d District Council	19.5%	£1,651,000	£1,704,000	£1,759,000	19.5% & £1,651,000	19.5% & £1,704,000	19.5% & £1,759,000
Pool	Chief Constable	for Hertfordshire	19.5%	-2.0%	-2.0%	-2.0%	17.5%	17.5%	17.5%
ЗA	Police & Crime C Hertfordshire	commissioner for	18.8%	1.9%	1.9%	1.9%	20.7%	20.7%	20.7%
116	West Herts Crem	natorium	20.7%	0%	0%	0%	20.7%	20.7%	20.7%
655	HCL - Designate	d Body	20.8%	-1.2%	-1.2%	-1.2%	19.6%	19.6%	19.6%
202	Hertfordshire Ass Councils	sociation of Parish & Town	24.2%	0%	0%	0%	24.2%	24.2%	24.2%
272	E2BN		21.9%	0%	0%	0%	21.9%	21.9%	21.9%
Pool	Parish & Town C	ouncils	22.3%	-1.15%	-1.15%	-1.15%	21.15%	21.15%	21.15%
122	Bishop Stortford		38.6%	0%	0%	0%	38.6%	38.6%	38.6%

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	ANS CONSTRUCTIVE RTSON SUMMARY	APPROACH TO VALUATION	VALUATION RESULTS	SENSITIVITY & RISK ANALYSIS	FINAL COMMENTS	APPENDICES	RATES & ADJUSTMENTS CERTIFICATE	SECTION 13 DASHBOARD
Employer	Employer name	Primary rate	Secondary rate	(% of pay plus monetar	y amount)	Total contributions	(primary rate plus seco	ondary rate)
code		(% of pay)	2023/24	2024/25	2025/26	2023/24	2024/25	2025/26
Schools, A	Academies and Further Education Bodies							
Pool	LEA Schools	20.6%	2.7%	2.7%	2.7%	23.3%	23.3%	23.3%
Pool	Academies	20.5%	1.15%	1.15%	1.15%	21.65%	21.65%	21.65%
306	Future Academies Watford (Francis Comb	e) 20.5%	-2.4%	-2.4%	-2.4%	18.1%	18.1%	18.1%
323	Yavneh College	20.0%	0%	0%	0%	20.0%	20.0%	20.0%
480	Watford UTC	23.1%	0%	0%	0%	23.1%	23.1%	23.1%
591	Laureate Academy	20.6%	3.3%	3.3%	3.3%	23.9%	23.9%	23.9%
Pool	Dame Alice Owens Academy	20.6%	0%	0%	0%	20.6%	20.6%	20.6%
Pool	Loreto Academy	20.3%	1.1%	1.1%	1.1%	21.4%	21.4%	21.4%
Pool	University of Hertfordshire	19.2%	-1.4%	-1.4%	-1.4%	17.8%	17.8%	17.8%
Pool	North Hertfordshire College	20.1%	-0.8%	-0.8%	-0.8%	19.3%	19.3%	19.3%
166	Hertford Regional College	20.4%	1.5%	1.5%	1.5%	21.9%	21.9%	21.9%
168	Oaklands College	20.1%	2.6%	2.6%	2.6%	22.7%	22.7%	22.7%
Pool	West Hertfordshire College	19.6%	5.9%	4.9%	3.9%	25.5%	24.5%	23.5%

HYMA ROBEI	ANS # EXECUTIVE RTSON SUMMARY	APPROACH TO VALUATION	VALUATION RESULTS	SENSITIVITY & RISK ANALYSIS	FINAL COMMENTS	APPENDICES	RATES & ADJUSTMENTS CERTIFICATE	SECTION 13 DASHBOARD
Employer	Employer name	Primary rate	Secondary ra	ite (% of pay plus mone	etary amount)	Total contributio	ons (primary rate plus s	econdary rate)
code		(% of pay)	2023/24	2024/25	2025/26	2023/24	2024/25	2025/26
Admitted b	podies							
79	Letchworth Garden City Heritage Foundat	ion 36.1%	-6.3% plus £231,000	-6.3% plus £231,000	-6.3% plus £231,000	29.8% & £231,000	29.8% & £231,000	29.8% & £231,000
278	Watford Community Housing Trust	19.1%	0%	0%	0%	19.1%	19.1%	19.1%
286	Thrive Homes	20.6%	0%	0%	0%	20.6%	20.6%	20.6%
74	Hertfordshire Action on Disability	42.3%	-42.3%	-42.3%	-42.3%	0.0%	0.0%	0.0%
158	Quantum Care Ltd	32.5%	£189,000	£189,000	£189,000	32.5% & £189,000	32.5% & £189,000	32.5% & £189,000
222	Radlett Centre Trust	41.0%	-13.5%	-13.5%	-13.5%	27.5%	27.5%	27.5%
248	John O'Conner (Grounds Maintenance)	38.5%	-38.5%	-38.5%	-38.5%	0.0%	0.0%	0.0%
249	Finesse Leisure	42.3%	-42.3%	-42.3%	-42.3%	0.0%	0.0%	0.0%
264	B3 Living (formerly Broxbourne Housng Association)	43.2%	-11.2% plus £138,000	-11.2% plus £138,000	-11.2% plus £138,000	32.0% & £138,000	32.0% & £138,000	32.0% & £138,000
277	Herts Community Meals	41.3%	-41.3%	-41.3%	-41.3%	0.0%	0.0%	0.0%
289	Sports and Leisure Management (WBC)	35.2%	-35.2%	-35.2%	-35.2%	0.0%	0.0%	0.0%
298	Sports and Leisure Management (EHDC)	33.7%	-33.7%	-33.7%	-33.7%	0.0%	0.0%	0.0%
302	Herts Community Meals (StAlbans)	43.7%	-43.7%	-43.7%	-43.7%	0.0%	0.0%	0.0%
387	Ringway Infrastructure	42.4%	-13.2%	-13.2%	-13.2%	29.2%	29.2%	29.2%
412	Opus (uk) Ltd (412)	42.7%	-7.3%	-7.3%	-7.3%	35.4%	35.4%	35.4%
432	Veolia ES (UK) Ltd	40.7%	-8.3%	-8.3%	-8.3%	32.4%	32.4%	32.4%
436	Herts for Learning	25.9%	-4.4%	-4.4%	-4.4%	21.5%	21.5%	21.5%
437	SLL (Knights Templar)	45.7%	-25.0%	-25.0%	-25.0%	20.7%	20.7%	20.7%
471	Cucina Ltd	41.9%	0%	0%	0%	41.9%	41.9%	41.9%

	ANS 🗱 EXECUTIVE RTSON SUMMARY	APPROACH TO VALUATION	VALUATION RESULTS	SENSITIVITY & RISK ANALYSIS	FINAL COMMENTS	APPENDICES	RATES & ADJUSTMENT CERTIFICATE	
Employer	Employer name	Primary rate	Secondary rate	e (% of pay plus moneta	ry amount)	Total contributio	ons (primary rate plus	secondary rate)
code		(% of pay)	2023/24	2024/25	2025/26	2023/24	2024/25	2025/26
Admitted b	oodies (continued)							
479	Geoffrey Osborne Ltd	42.0%	-42.0%	-42.0%	-42.0%	0.0%	0.0%	0.0%
592	APCOA Parking UK	39.8%	-6.9%	-6.9%	-6.9%	32.9%	32.9%	32.9%
Pool	Hertfordshire NHS Partnership Trus	st 41.1%	-41.1%	-41.1%	-41.1%	0.0%	0.0%	0.0%
Pool	Inspire All Ltd	32.7%	-5.6%	-5.6%	-5.6%	27.1%	27.1%	27.1%
Pool	Serco	43.4%	-12.9%	-12.9%	-12.9%	30.5%	30.5%	30.5%
Pool	Settle	41.8%	0%	£1,500,000	£1,500,000	41.8%	41.8% & £1,500,000	41.8% & £1,500,000
Pool	Stevenage Leisure Limited	43.2%	0%	0%	0%	43.2%	43.2%	43.2%
481	Edwards & Blake Ltd (Hatfield Com Free School)	munity 43.3%	-23.2%	-23.2%	-23.2%	20.1%	20.1%	20.1%
518	Tenon FM Ltd (Office and General)	42.6%	-7.4%	-7.4%	-7.4%	35.2%	35.2%	35.2%
522	Herts Building Control Ltd	24.0%	0%	0%	0%	24.0%	24.0%	24.0%
533	Interserve SS (DBC)	42.8%	0%	0%	0%	42.8%	42.8%	42.8%
575	Urbaser	40.8%	0%	0%	0%	40.8%	40.8%	40.8%
608	Aramark(hertfordshire Uni)	40.0%	£184,000	£184,000	£184,000	40.0% & £184,000	40.0% & £184,000	40.0% & £184,000
628	Urbaser Ltd (WHBC)	37.9%	-5.9%	-5.9%	-5.9%	32.0%	32.0%	32.0%
633	Hayward Services Limited (West H College)	erts 42.6%	0%	0%	0%	42.6%	42.6%	42.6%

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EXECUTIVE APPROACH TO SUMMARY VALUATION

TO VALUATION ON RESULTS

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FINAL COMMENTS

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SECTION 13 DASHBOARD

RATES &

ADJUSTMENTS

CERTIFICATE

Notes to the Rates and Adjustments Certificate

The following employers pay a contribution rate linked to the rate paid by their associated pool.

Employer code	Employer name	Pool
481	Edwards & Blake Ltd (Hatfield Community Free School)	Academies
527	Birkin Cleaning Services	Academies
558	Edwards & Blake (Ridgeway Academy)	Academies
560	HCL (Pinewood Academy)	Academies
617	Compass Group UK Ltd	Academies
622	ABM Catering Ltd (Verulam school)	Academies
629	European Cleaning Services Ltd (Larkspur)	Academies
638	Cucina - Manor Fields Primary School	Academies
640	Caterlink Itd (St Mary's C of E High School)	Academies
642	Accent Catering Ltd	Academies
644	Cleantec Services Ltd (St Mary's CE)	Academies
646	Atlas Catering	Academies
653	Caterlink (King James)	Academies
667	Evergreen Facilities LTD (Richard Hale)	Academies
675	Innovate Services (Longdean)	Academies

HYMANS 🗱 ROBERTSON	EXECUTIVE SUMMARY	APPROACH TO VALUATION	VALUATION RESULTS	SENSITIVITY & RISK ANALYSIS	FINAL COMMENTS	APPENDICES	RATES & ADJUSTMENTS CERTIFICATE	SECTION 13 DASHBOARD

Employer code	Employer name	Ροοί
631	Rapid Commercial Cleaning Services Ltd (Highover JMI)	LEA Schools
647	HCL (St Mary's Rickmansworth)	LEA Schools
656	HCL (Birchwood Ave)	LEA Schools
577	SLM Community Leisure Charitable Leisure	Dacorum Borough Council
579	Fitness & Health Ltd	Dacorum Borough Council
438	Hertfordshire Catering Limited	Hertfordshire County Council
455	Children's Centre Lot 20 - Hertsmere Leisure (St Albans)	Hertfordshire County Council
589	Barnardo's	Hertfordshire County Council
596	Herts at Home	Hertfordshire County Council

The following employers are pass-through contractors and pay an employer contribution rate that has been agreed between them and their Awarding Authority for the duration of their contracts.

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Employer code	Employer name	Awarding Authority
601	BEST	Broxbourne Borough Council
634	HCL (Broxbourne Borough Council)	Broxbourne Borough Council
589	Barnardo's	Hertfordshire County Council
590	InspireAll Leisure and Family Support Service	Hertfordshire County Council
609	Inspire All (Lot 2)	Hertfordshire County Council



HYMANS 🗱 ROBERTSON	EXECUTIVE SUMMARY	APPROACH TO VALUATION	VALUATION RESULTS	SENSITIVITY & RISK ANALYSIS	FINAL COMMENTS	APPENDICES	RATES & ADJUSTMENTS CERTIFICATE	SECTION 13 DASHBOARD

Employer code	Employer name	Pool
641	Care By Us (HCC)(Dacorum)	Hertfordshire County Council
645	Herts at Home(HCC)	Hertfordshire County Council
648	Care By Us	Hertfordshire County Council
649	Aramark (West Herts College)	West Hertfordshire College



VALUATION RESULTS

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SECTION 13 DASHBOARD

Further comments to the Rates and Adjustments Certificate

- Contributions expressed as a percentage of payroll should be paid into the Fund at a frequency in accordance with the requirements of the Regulations •
- Further sums should be paid to the Fund to meet the costs of any early retirements and/or augmentations using methods and factors issued by us from time to time or as otherwise agreed.
- Payments may be required to be made to the Fund by employers to meet the capital costs of any ill-health retirements that exceed those allowed for within our assumptions.
- The certified contribution rates represent the minimum level of contributions to be paid. Employing authorities may pay further amounts at any time and future • periodic contributions may be adjusted on a basis approved by the Fund Actuary.
- The monetary contributions set out in the certificate above can be prepaid in advance with appropriate adjustments for interest as and when agreed with the Administering Authority. Under these circumstances a revised Rates and Adjustments certificate may be issued reflecting any advance payments.

Catherine McFadyen

Barry Dodds FFA

Catherine McFadyen FFA

31 March 2023 For and on behalf of Hymans Robertson LLP

Anna Lapi FFA



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Section 13 Dashboard



HYMANS 🗱 ROBERTSON	EXECUTIVE SUMMARY	APPROACH TO VALUATION	VALUATION RESULTS	SENSITIVITY & RISK ANALYSIS	FINAL COMMENTS	APPENDICES	RATES & ADJUSTMENTS CERTIFICATE	SECTION 13 DASHBOARD

Metric	Unit	2022 valuation
2022 funding position – local funding basis		
Funding level (assets/liabilities)	%	106%
Funding level (change since previous valuation)	%	8% increase
Asset value used at the valuation	£m	6,162
Value of liabilities (including McCloud liability)	£m	5,793
Surplus (deficit)	£m	370
Discount rate – past service	% pa	3.8%
Discount rate – future service	% pa	Past service and future service are consistently valued with the same underlying assumptions, methodologies and models regarding future expected levels of inflation, interest rates and investment returns.
Assumed pension increase (CPI)	% pa	2.7%
Method of derivation of discount rate, plus any changes since previous valuation		There is a 75% likelihood that the Fund's assets will return at least 3.8% over the 20 years following the 2022 valuation date. This is the same methodology and likelihood used for the 2019 valuation.

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HYMANS 🗱 ROBERTSON	EXECUTIVE SUMMARY	APPROACH TO VALUATION	VALUATION RESULTS	SENSITIVITY & RISK ANALYSIS	FINAL COMMENTS	APPENDICES	RATES & ADJUSTMENTS CERTIFICATE	SECTION 13 DASHBOARD

Metric	Unit	2022 valuation
Assumed life expectancy at age 65		
Life expectancy for current pensioners – men age 65	years	22.1
Life expectancy for current pensioners – women age 65	years	24.7
Life expectancy for future pensioners – men age 45	years	22.9
Life expectancy for future pensioners – women age 45	years	26.1
Past service funding position – SAB basis (for comparison purposes only)		
Market value of assets	£m	6,162
Value of liabilities	£m	4,879
Funding level on SAB basis (assets/liabilities)	%	126%
Funding level on SAB basis (change since last valuation)	%	5% increase

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HYMANS 🗱 ROBERTSON	EXECUTIVE SUMMARY	APPROACH TO VALUATION	VALUATION RESULTS	SENSITIVITY & RISK ANALYSIS	FINAL COMMENTS	APPENDICES	RATES & ADJUSTMENTS CERTIFICATE	SECTION 13 DASHBOARD

Metric	Unit	2022 valuation	2019 valuation
Contribution rates payable			
Primary contribution rate	% of pay	20.3%	19.2%
Secondary contribution rate (cash amounts in each year in line with CIPFA guidance)			
1 st year of rates and adjustments certificate	£m	13.158	29.481
2 nd year of rates and adjustments certificate	£m	14.980	24.334
3 rd year of rates and adjustments certificate	£m	15.311	24.974
Giving total expected contributions			
1 st year of rates and adjustments certificate (£ figure based on assumed payroll)	£m	153.706	146.276
2 nd year of rates and adjustments certificate (£ figure based on assumed payroll)	£m	160.058	144.318
3 rd year of rates and adjustments certificate (£ figure based on assumed payroll)	£m	165.067	148.233
Assumed payroll (cash amounts in each year)			
1 st year of rates and adjustments certificate	£m	693.633	608.329
2 nd year of rates and adjustments certificate	£m	715.993	624.936
3 rd year of rates and adjustments certificate	£m	739.073	641.997
3 year average total employer contribution rate	% of pay	22.3%	23.4%
Average employee contribution	% of pay	6.6%	6.4%
Employee contribution rate (£ figure based on assumed payroll of £694m)	£m pa	45.444	39.057

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HYMANS 🗱 ROBERTSON	EXECUTIVE SUMMARY	APPROACH TO VALUATION	VALUATION RESULTS	SENSITIVITY & RISK ANALYSIS	FINAL COMMENTS	APPENDICES	RATES & ADJUSTMENTS CERTIFICATE	SECTION 13 DASHBOARD

Metric	Unit	2022 valuation	2019 valuation
Deficit recovery and surplus spreading plan			
Latest deficit recovery period end date, where this methodology is used by the fund's actuarial advisor	Year	Methodology not used	Methodology not used
Earliest surplus spreading period end date, where this methodology is used by the fund's actuarial advisor	Year	Methodology not used	Methodology not used
The time horizon end date, where this methodology is used by the fund's actuarial advisor	Year	2042	2039
The funding plan's likelihood of success, where this methodology is used by the fund's actuarial advisor	%	83%	83%
Percentage of liabilities relating to employers with deficit recovery periods of longer than 20 years	%	0%	0%
Additional information			
Percentage of total liabilities that are in respect of Tier 3 employers	%	13%	15%
Included climate change analysis/comments in the 2022 valuation report		Yes	
Value of McCloud liability in the 2022 valuation report (on local funding basis)	£m	5.5	

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