

London Borough of Croydon Pension Fund

Inter-valuation funding update

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Robert McInroy FFA

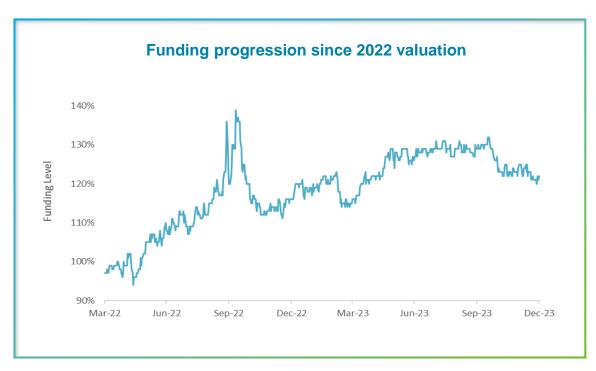
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Executive summary

To help manage risk, the Fund carries out regular funding and risk monitoring between valuations. Since the 2022 valuation there has been a significant shift in the economic environment meaning the LGPS is now facing new risks and opportunities which increases the importance of robust risk management.

- The funding position of the whole fund at 31 December 2023 is now 122% (compared to 97% at the 2022 valuation). The likelihood of the fund achieving the required future investment returns needed to be fully funded has also risen to 86% (from 73%).
- This improvement has been largely driven by an improved investment outlook due to a sharp rise in global interest rates.
- Employer funding positions have seen similar improvements. This is potentially very meaningful, for any employers approaching exit, however for many employers, having stable contributions over the longer term may be a more important objective.

- Short term inflation has been high since 2022, with pension increases of 10.1% (2023) and 6.7% (2024). While longer term inflation is expected to fall there remains uncertainty over future forecasts.
- Whilst the improved funding position is good news for the Fund, there remains uncertainty in financial markets, and material risks facing LGPS funds. Early planning for the 2025 valuation will be important to help the Fund manage any changes to its funding and investment strategy in the current environment.



It is important for the Fund to consider the impact of risks within the current environment and start planning for the 2025 valuation





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Changes in the funding environment



Investment outlook

Investment returns since the 2022 valuation have been slightly positive, with the Fund achieving a return of 3.5% over the period from 31 March 2022 to 31 December 2023. This is slightly lower than the Fund's investment return assumption of 4.0% pa.

However, as shown in the chart, prudent expectations of *future* investment returns are now higher than at the 2022 valuation for most asset classes, largely due to the sharp rise in global interest rates (which had previously been at historic lows). In the case of the UK, the Bank of England base rate has increased from 0.75% at March 2022 to 5.25% at February 2024. If investors can get a higher return on cash and other lower-risk assets, it follows that the return on riskier assets, such as equities, should also increase.

To put this into context, at 31 March 2022 we estimated that the Fund's investments would return 4.0% pa with a 75% likelihood of success. At 31 December 2023, we now estimate that the Fund will achieve a much higher investment return of 5.6% pa with the same 75% likelihood.

Higher future expected investment returns lead to a lower value being placed on the Fund's liabilities. In other words, this means that the improved funding level is reliant on higher income from future investment returns, which may be a reason to be cautious when setting contribution rates at the 2025 valuation.

What can the Fund do to manage investment risk?

- Consider the Fund's beliefs about the investment outlook and whether it should increase the level of prudence adopted in the future expected investment return assumption to manage increased future uncertainty.
- Explore different combinations of investment strategy to understand what they mean for the likelihood of the Fund requiring additional future contributions.
- Investigate whether a single investment strategy for the whole Fund is still fit for purpose and consider carrying out exploratory work into the implementation of individual employer investment strategies.



The improvement in funding level is being driven by the promise of greater *future* investment returns rather than investment returns actually earned by the Fund.





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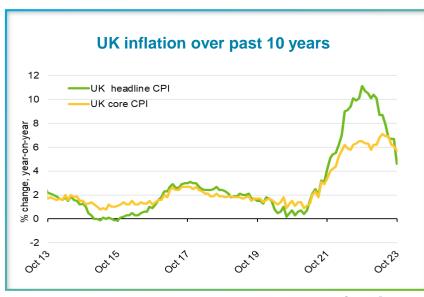
High Inflation

Inflation is a key risk for pension funds to manage. Higher inflation increases the cost of benefits, which increases longer term funding costs but also has an immediate impact on shorter term cash flow (pensions in payment). Since the 2022 valuation, inflation has risen sharply which has increased liabilities (in isolation). However, this has been more than offset by central bank reaction to increase interest rates - which has led to higher expected future investment returns, reducing liabilities.

Recent inflation trends

- Inflation has risen further and for longer than most market participants expected. Headline inflation has fallen as weaker commodity prices, slowed growth, and eased supply chain issues feed through to prices.
 Weaker food and energy prices have seen headline inflation fall sharply, but core inflation, which excludes both, is proving stickier, and has fallen more slowly.
- External global factors have played a part in the inflation story, including disruption to supply chains, and a re-orientation of demand from services to goods during the COVID-19 pandemic.
- Domestic demand in the form of large monetary and fiscal stimulus and upwards pressure on wages due to tight labour markets have also added to domesticallydriven inflation pressures.
- 4. How much and how quickly inflation falls, and the reaction of the Bank of England, will depend on the relative importance of supply and demand factors that have placed upwards pressure on inflation. Headline inflation is expected to fall sharply but remain slightly above target over the medium term.





Source: Datastream

Monitoring inflation is key to managing both stable long-term funding plans and shorter-term cashflow risks





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Funding update





What has happened since the 2022 valuation?

The Fund's past service funding level has significantly improved since the 2022 valuation, rising to 122% (from 97% at 2022). The Fund now has a surplus of £319m at 31 December 2023 (compared to a deficit £59m at 31 March 2022), which has been driven by significant changes in the financial markets.

How have assets changed?

The Fund's asset value has remained relatively stable since the 2022 valuation, although there continues to be volatility (see **green line** in chart). Investment markets have seen headwinds leading to lower-than-expected returns on the Fund's investments to 30 September 2023. However, investment returns have been positive over the last quarter to 31 December 2023, so the Fund is now holding more assets than it did at the 2022 valuation.

How have liabilities changed?

Asset return expectations have risen since the 2022 valuation, in part due to the rise in global interest rates, which has led to the liability reduction (pink line) observed since the 2022 valuation. This effect has been offset, partially, by the effect of inflation being higher than expected at the 2022 valuation.

The improvement in funding level (blue line) is being driven by the expectation of higher future investment returns, despite inflationary pressures and dampened investment returns since the 2022 valuation



Being over 100% funded is generally good news, however there are limitations to the usefulness of the funding level metric because it is based on a single set of assumptions about the future and asset values at a single point in time. It also only recognises benefits earned to date ("past service") and not the cost of future benefits. The Fund therefore needs to consider the risk inherent in their funding strategy before taking action to manage any surplus.

The sharp increase in headline funding level will inevitably lead to various stakeholders seeking to understand what it may mean to them.





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Funding level versus investment return assumption

The Fund's funding level of 122% as at 31 December 2023 has been calculated using a future investment return assumption which has a 75% likelihood of being achieved in line with the Fund's Funding Strategy Statement. However, this reported funding level is extremely sensitive to the return assumption adopted.

The chart shows how the Fund's funding level varies with the future investment return assumption adopted, comparing the position at 31 March 2022 (**green line**) with the updated position at 31 December 2023 (**blue line**). The percentages next to each point on the chart show the likelihood of the Fund's investment strategy achieving that return. From the chart we can see that:

- The future investment return required to be 100% funded has increased to 4.4% pa, compared to 4.2% pa at the 2022 valuation. In effect, we now require the Fund's investments to return more than we did at 2022.
- The likelihood of achieving any given future investment return is higher than it was at the 2022 valuation. For example, there is now a 86% chance of the Fund achieving the investment returns needed to be 100% funded, compared to 73% at the 2022 valuation.

This highlights that the improvement in funding position is not a result of the Fund holding more assets today. Rather, this has been driven by higher expected future investment returns.

The effect of market volatility may lead to reductions in asset return expectations in the short term. To reflect any concerns about market volatility, additional prudence may be factored into funding plans via the level of assumed future investment return, which all else being equal would reduce the level of surplus in the Fund.



Required return of 4.4% p.a. has a 86% likelihood of being achieved

The Fund is now more likely to have sufficient assets to meet earned benefit payments than at the previous valuation.

However, this is due to higher return expectations, not because the Fund holds more assets.





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Employer funding and contributions

The Fund is composed of around 90 active employers. The chart opposite shows the funding position of each employer at 31 December 2023. Each of these employers will have its own funding objectives depending on the type of employer and their participation. Given this diversity of employers it is important to understand and monitor employer risks.

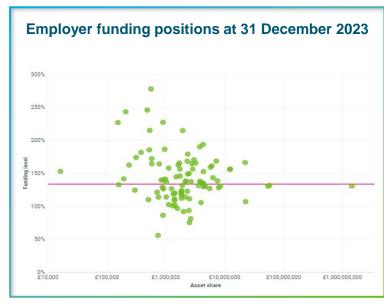
At 31 December 2023 the funding position has improved for all employers. This change in funding will be different for each employer depending on their membership (but similar to the Fund improvement for most).

The majority of employers are now fully funded (>100%) on the Fund's ongoing basis. Whilst this is good news for the Fund (and employers), this is not the endgame for employers who continue to participate and accrue benefits in an open scheme.

Impact on contributions

Employer contributions are set at the triennial funding valuation. If the current economic environment persists through to the 2025 valuation, there will be downward pressure on both primary and secondary contributions as a result of higher expectations of future investment returns and strong past-service funding positions.

The Fund may need to consider options for managing employer surplus ahead of the 2025 valuation. In particular, the Fund may need to consider how to manage high levels of surpluses and increased volatility and uncertainty in the economic environment within its funding and investment strategy, and effectively communicate its approach to employers.



Each dot represents an employer in the Fund, while the red line shows the whole fund position. Green dots indicates where the funding position has improved. Funding positions are on each employer's own funding basis.

It is important to understand the impact of improved funding for each employer to set appropriate funding plans





2025 valuation planning



Preparing for the 2025 valuation

The recent changes in the funding landscape means that the Fund may now be facing new challenges (and opportunities) at the 2025 valuation. Although the valuation is still more than 12 months away the Fund should start to review how its funding and investment strategy may evolve in a surplus environment.

The Fund has four tools to help manage surpluses arising as part of the 2025 valuation (although may decide a combination of two or more options is appropriate):



1. Reduce employer contributions



2. Change investment strategy



3. Increase prudence levels



4. Retain the surplus

Seek to balance employer affordability with long term sustainability



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Preparing for the 2025 valuation

1. Reduce employer contributions



Given the current cost pressures facing employers, there may be an expectation that surpluses lead to immediate and material contribution reductions. However, the Fund will need to consider:

- Difficulty of future increases The relative ease of reducing contributions versus increasing them. Even if a reduction is only for some short-term relief, it can quickly become the level that employer budgets could anchor on, meaning future required increases are harder to implement.
- Long term cost of scheme What is a long-term stable cost of the LGPS, and are current
 contribution rates higher or lower than this? If an employer is already paying less than this
 cost, is it realistic to reduce further?
- Intergenerational fairness Which generation are you being fair to by reducing contributions? The current generation have implicitly supported contribution rate increases over the last 20 years. Or does a reduction place too much risk of future contribution rate increases on future generations?
- Stabilisation How does this interact with the Fund's contribution stability mechanism and are the employers committed to the long-term benefits of stability? Employers have been "underpaying" during the bad times during the last decade, whereas many may now be "overpaying" in the good times to deliver stable long-term contributions

2. Change investment strategy



One of the first things commonly heard when it is apparent that the funding position is good is 'time to de-risk'. This is a mindset born out of private sector pension funding where they are predominantly towards the latter stages of a pension fund lifecycle. The LGPS is very different as for most employers it remains open to new benefit accrual and new joiners, and so this instinct may not be appropriate. However, the Fund may wish to explore and consider:

- Are there any opportunities to use the investment strategy to further increase the long-term stability of contribution rates for the long-term benefit of employers?
- If contributions are reduced, what does this do to the cashflow profile of the Fund, and does it affect how the investments are used to manage cashflow?





Preparing for the 2025 valuation

3. Increase prudence levels



There is risk inherent with funding for a guaranteed pension amount, you can never have 100% certainty and must accept some element of risk in the funding strategy. The question is how much, i.e. how prudent are you going to be?

Each LGPS fund will have their own views on how prudent they want to be. And this can change over time. For example, at the 2019 valuation the Fund increased the prudence in the funding strategy in light of uncertainty around the benefit structure due to McCloud and the Cost Cap valuation.

At the 2025 valuation, the Fund should review the prudence levels in the funding strategy to explore:

- If the current surplus persists, should some of the improved funding position be used to increase prudence levels? This additional prudence could then be used to help manage contribution rates if there are poor funding outcomes in the future.
- Do the current market conditions, and increased levels of volatility and uncertainty, warrant mitigation and management by increasing prudence?

4. Retain the surplus



An alternative approach is explicitly retaining some of the surplus before changes to the funding plan are granted (i.e. contribution rate reductions). For example, the Fund could:

- Only permit rate reductions if an employer is above a certain funding level threshold. The threshold would be higher than 100% funded.
- Require all open employers to pay at least their primary rate so future benefits are being adequately funded.
- Seek to retain a certain level of surplus in the long-term so both todays and future generations
 can benefit from the surplus. This would involve increasing the long-term funding target for
 employers to above 100%

Early engagement and planning for the 2025 valuation will be key to successful outcomes



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SUMMARY

What can the Fund do ahead of the 2025 valuation to prepare?

Risk management

There may be individual sources of uncertainty and volatility in the funding plans that could warrant explicit management or mitigation via the funding and investment strategy. Examples could include:

- **Inflation** being higher and/or remaining elevated longer than expected (LGPS benefits are index-linked so this would increase the cost of benefits).
- Salary increases being higher than expected would increase the value of those benefits still linked to final salary at retirement. Conversely, lower than expected salary increases would reduce the Fund's contribution income and potentially affect the cashflow position and management of it.
- Longevity being materially different from current expectations. Higher than expected
 increases in longevity would put upward pressure on the Fund's liabilities. The Fund could
 also be exposed to a deterioration in longevity if it is symptomatic of an unhealthier population,
 which would increase the occurrence of ill-health retirements and death-in-service, both of
 which typically result in funding strains.

The Fund should consider the risks inherent in their funding and investment strategies and consider the implementation of risk management tools to seek to hedge some or all of the risk.

Key actions

- **Start planning** it is important to start conversations with stakeholders well ahead of the valuation to plan effectively.
- Monitor employer funding and covenant risks and engage early with higher risk employers, or those with specific circumstances (eg approaching exit).
- Seek to engage with all employers in advance of the valuation to build up the appropriate messaging around funding in a surplus environment and any changes in policies.
- Consider options for funding and investment, such as increasing prudence, maintaining a funding 'buffer' or reducing investment risk (in additional to potential contribution reductions).
- Carry out contribution modelling for the secure, long-term employers to inform budget setting and financial planning





Summary and next steps



Risk monitoring and valuation planning best practice

As we approach the 2025 valuation, the Fund is now facing new challenges within a surplus environment. Planning and stakeholder engagement will be key to successful outcomes and funds should continue to refine their approach to managing risk within this evolving landscape.

Key considerations and next steps



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Funding: continue to monitor the funding position and understand the key drivers of change. Consider the messaging of the improved funding position and what this means for different stakeholders.



Review funding and investment strategy: carry out modelling of longer-term secure employers and consider investment strategy options.



Employers: monitor employer funding and seek to engage early with higher risk employer or those approaching exit. Consider employer covenant as a factor within the risk framework and where employer contribution flexibility may be afforded.



Surplus management: develop the Fund's policy on surplus management and consider the best use of funding levers at the 2025 valuation, including surplus retention, increasing prudence, reducing investment risk and reducing contributions.

Early planning allows more time for informed policy decisions



Appendices





Data

Membership data

The membership data underlying the figures in this report was supplied by the fund for the purpose of the valuation at 31 March 2022 and is summarised below:

		31 March 2022		
	Number	Average age	Accrued benefit (£000)	Payroll (£000)
Actives	9,755	53.3	30,639	211,588
Deferred	14,983	52.5	25,598	
Pensioners	8,943	69.3	50,943	

The membership is assumed to evolve over time in line with the demographic assumptions described in the Funding Strategy Statement. Please see Appendix 4 for details of the roll-forward methodology which includes the estimated changes in membership data which have been allowed for.

Cashflows since the valuation at 31 March 2022

We have allowed for the following cashflows in estimating the assets and liabilities at 31 December 2023. Cashflows are assumed to be paid daily. Contributions are based on the estimated payroll, certified employer contributions (including any lump sum contributions) and the average employee contribution rate at 31 March 2022. Benefits paid are projections based on the membership at 31 March 2022.

Cashflows since the valuation at 31 March 2022

We have allowed for the following cashflows in estimating the assets and liabilities at 31 December 2023. Cashflows are assumed to be paid daily. Contributions are based on the estimated payroll, certified employer contributions (including any lump sum contributions) and the average employee contribution rate at 31 March 2022. Benefits paid are projections based on the membership at 31 March 2022.

Estimated cashflows (£000)	31 March 2022 to 31 December 2023					
Employer contributions	88,206					
Employee contributions	25,913					
Benefits paid	109,013					

Investment returns since the valuation at 31 March 2022

Investment returns are based on actual returns where available and index returns otherwise.

Actual / Index		From	То	Return
Whole fund	Actual	1 April 2022	31 December 2023	3.47%





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Assumptions

Financial assumptions

The financial assumptions used to calculate the liabilities are detailed below. For further details please see the Funding Strategy Statement.

Assumption	31 March 2022	31 December 2023			
Funding basis	Ongoing	Ongoing			
Discount rate methodology	Expected returns on the Whole Fund strategy over 20 years with a 75% likelihood	Expected returns on the Whole Fund strategy over 20 years with a 75% likelihood			
Discount rate (% pa)	4.0%	5.6%			
Pension increase methodology	Expected CPI inflation over 20 years with a 50% likelihood	Expected CPI inflation over 20 years with a 50% likelihood			
Pension increase (% pa)	2.7%	2.2%			

Salary increases are assumed to be 0.0% pa above pension increases, plus an additional promotional salary scale.

Demographic assumptions

Demographic assumptions are set out in the Funding Strategy Statement. All demographic assumptions, including longevity assumptions, are the same as at the most recent valuation at 31 March 2022.

Life expectancies from age 65, based on the fund's membership data at 31 March 2022, are as follows. Non-pensioners are assumed to be aged 45 at that date.

	Ongoing basis				
	Male	Female			
Pensioners	22.0	24.6			
Non-pensioners	22.8	25.9			





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Technical information

Funding update methodology

The last formal valuation of the fund was carried out as at 31 March 2022. The results in this report are based on projecting the results of this valuation forward to 31 December 2023 using approximate methods. The roll-forward allows for

- estimated cashflows over the period as described in Appendix 1;
- investment returns over the period as described in Appendix 1;
- changes in financial assumptions as described in Appendix 2;
- estimated additional benefit accrual.

The CARE, deferred and pensioner liabilities at 31 December 2023 include a total adjustment of 11.4% to reflect the difference between actual September CPI inflation values (up to 30 September 2023) and the assumption made at 31 March 2022. The adjustment for each year's actual inflation is applied from 31 October that year, cumulative with prior years' adjustments, which may lead to step changes in the funding level progression chart.

In preparing the updated funding position at 31 December 2023 no allowance has been made for the effect of changes in the membership profile since 31 March 2022. The principal reason for this is that insufficient information is available to allow me to make any such adjustment. Significant membership movements, or any material difference between estimated inputs and actual ones, may affect the reliability of the results. The fund should consider whether any such factors mean that the roll-forward approach may not be appropriate.

No allowance has been made for any early retirements or bulk transfers since 31 March 2022. There is also no allowance for any changes to Local Government Pension Scheme (LGPS) benefits except where noted in the formal valuation report or Funding Strategy Statement.

Sensitivity of results to assumptions

The results are particularly sensitive to the real discount rate assumption (the discount rate net of pension increases) and the assumptions made for future longevity.

If the real discount rate used to value, the accrued liabilities was lower then the value placed on those liabilities would increase. For example, if the real discount rate at 31 December 2023 was 1.0% pa lower, then the liabilities on the Ongoing basis at that date would increase by 19.0%.

In addition, the results are sensitive to unexpected changes in the rate of future longevity improvements. If life expectancies improve at a faster rate than allowed for in the assumptions then, again, a higher value would be placed on the liabilities. An increase in life expectancy of 1 year would increase the accrued liabilities by around 3-5%.





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Economic Scenario Service (ESS)

The ESS uses statistical models to generate a future distribution of year-on-year returns for each asset class e.g. UK equities. This approach is also used to generate future levels of inflation (both realised and expected). The ESS is also designed to reflect the correlations between different asset classes and wider economic variables (e.g. inflation).

SUMMARY

In the short-term (first few years), the models in the ESS are fitted with current financial market expectations. Over the longer-term, the models are built around our long-term views of fundamental economic parameters e.g. equity risk premium, credit-spreads, long-term inflation etc.

The ESS is calibrated every month with updated current market expectations (a minor calibration). Every so often (annually at most), the ESS is updated to reflect any changes in the fundamental economic parameters as a result of change in macro-level long-term expectations (a major calibration). The following table shows the calibration at 31 December 2023.

Time period			Asset class annualised total returns						Inflation/Yields			
	Percentile	UK Equity	Developed World ex UK Equity	Emerging Markets Equity	Listed Infrastructure Equity	Private Equity	Property	Multi Asset Credit (sub inv grade)	Absolute Return Bonds (inv grade)	Inflation (CPI)	17-year real yield (CPI)	17-year yield
	16 th	-0.7%	-1.4%	-4.1%	-1.7%	-3.2%	-1.0%	2.3%	2.7%	0.9%	0.4%	3.5%
10 years	50 th	7.3%	7.1%	7.5%	6.8%	11.6%	6.1%	5.3%	4.2%	2.5%	1.3%	4.6%
	84 th	15.5%	15.6%	19.8%	15.0%	26.5%	13.7%	7.9%	5.7%	4.0%	2.2%	5.9%
	16 th	1.4%	1.1%	-0.7%	0.7%	0.6%	1.1%	3.9%	3.0%	0.7%	0.2%	3.0%
20 years	50 th	7.5%	7.3%	7.6%	6.8%	11.4%	6.4%	5.8%	4.4%	2.4%	1.4%	4.4%
	84 th	13.4%	13.5%	16.2%	12.9%	22.3%	11.7%	7.6%	5.9%	4.0%	2.6%	6.2%
	16 th	3.0%	2.9%	1.4%	2.6%	3.8%	2.8%	4.7%	3.0%	0.6%	-0.4%	1.5%
40 years	50 th	7.6%	7.5%	7.7%	7.1%	11.5%	6.5%	6.4%	4.5%	2.2%	1.3%	3.5%
	84 th	12.1%	12.3%	14.2%	11.7%	19.3%	10.5%	7.9%	6.4%	3.8%	3.0%	6.0%
	Volatility (1yr)	16%	17%	23%	18%	31%	19%	7%	3%	1%	-	-





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Reliances and limitations

This paper is addressed to Croydon Council as Administering Authority to the London Borough of Croydon Pension Fund. It has been prepared in our capacity as actuaries to the Fund and is solely for the purpose of discussing funding and risk monitoring ahead of the 2025 valuation. It has not been prepared for any other purpose and should not be used for any other purpose.

The results in this paper are wholly dependent on the valuation data provided to us for the 2022 valuation and the assumptions that we use in our calculations. The reliances and limitations that applied to that valuation apply equally to these results. The results of the valuation have been projected forward using approximate methods. The margin of error in these approximate methods increases as time goes by. The method may not be appropriate if there have been significant data changes since the previous formal valuation (for example redundancy exercises, significant unreduced early retirements, ill health retirements and bulk transfers). The methodology assumes that actual experience since the valuation at 31 March 2022 has been in line with our expectations.

The data used in this exercise is summarised in Appendix 1. Data provided for the purposes of the formal valuation at 31 March 2022 was checked at the time for reasonableness and consistency with other sources. Data provided since then (eg actual investment returns) has been used as-is. The data is the responsibility of the Administering Authority, and the results rely on the data.

The methodology underlying these calculations mean that the results should be treated as indicative only. The nature of the fund's investments means that the surplus or deficit identified in this report can vary significantly over short periods of time. This means that the results set out should not be taken as being applicable at any date other than the date shown.

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- TAS300 Pensions

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