

Gwynedd Pension Fund

Assumption setting for the 2025 valuation

Pensions Committee: 17 March 2025

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Contents

- 1. Background
- 2. Financial assumptions
- 3. Life expectancy assumptions
- 4. All other demographic assumptions
- 5. Next steps



What assumptions does the Fund need to make?

Assumption	Description			
Financial assumptions				
Discount rate	Average annual rate of future investment return that will be earned on the Fund's assets. This is used to place a present value on future projected benefit payments.			
Benefit increases / CARE revaluation	Average annual rate of future benefit increases and CARE revaluation (which are based on CPI inflation in the LGPS)			
Salary increases	Average annual rate of future inflationary salary awards			
Demographic assumptions				
Baseline longevity	How long we expect members to live based on current observed death rates			
Future improvements in longevity	How death rates are expected to change in the future (historically life expectancy has improved over time)			
Members leaving dependants	Proportion of pensioners leaving a dependant pension at death			
Age difference with dependant	Difference in age between member at death and their surviving dependant			
Other demographic events	Events such as retirement age, rate of ill health retirement, level of commutation and 50:50 take up			

Assumption setting 'rules'



Set by the Fund Actuary through discussions with Officers and Committee



Reflect the specific characteristics of the Fund (where practical) and the timeframe of the liabilities i.e. very long-term view



LGPS guidance requires funds to adopt prudent assumptions



Margin of prudence adopted in the future investment return (discount rate) assumption



All other assumptions are best estimate



Starting point is current assumptions, then consider any relevant changes



Changes affecting financial markets since 2022

The main changes since the 2022 valuation date are set out below:

Economic conditions

- Increase in interest rates from historic lows to rates closer to the long-term average.
- Higher than expected inflation: April 2023 (10.1%) and April 2024 (6.7%).
- Increased market volatility, impacting expected future investment returns.

Climate risk

- Climate change could have significant implications for financial markets.
- In particular, there is evidence to suggest that the risk of extreme events occurring is increasing
- A workshop that focuses on the uncertainty around future climate pathways is being planned for later this year.

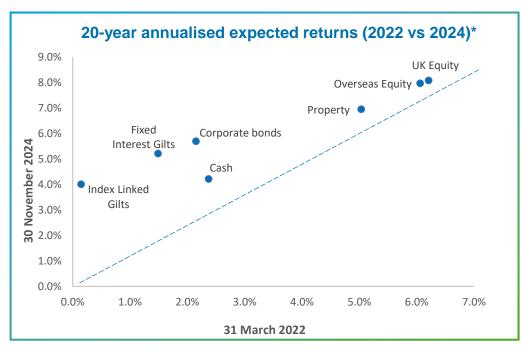
Political risks

- In July 2024, the Government launched its Pensions Investment Review.
- In November 2024, the UK
 Government launched the "LGPS
 – Fit for the future" consultation.
- The geo-political landscape has shifted significantly e.g. increases in regional conflicts, potential trade wars.

The most material change for the purpose of funding at the 2025 valuation is the change in economic conditions

Future investment returns (discount rate)

 Significant change in economic environment since 2022



- Higher expected future investment returns,
 higher funding levels and lower benefit costs
- But increased uncertainty, justifying an increase in prudence in the assumption

	31 March 2022		30 November 2024	
Prudence level	Reported discount rate (p.a.)	Funding level	Discount rate (p.a.)	Funding level
75%	4.1%	120%	6.2%	186%
80%	Not assessed	Not assessed	5.7%	171%
	31 March 2022		30 November 2024	
Prudence level	Primary rate (% of pay)		Primary rate (% of pay)	
75%	21.2%		14.7%	
80%	Not assessed		16.0%	

Recommendation: Increase prudence level from 75% to 80%

Benefit and salary increases

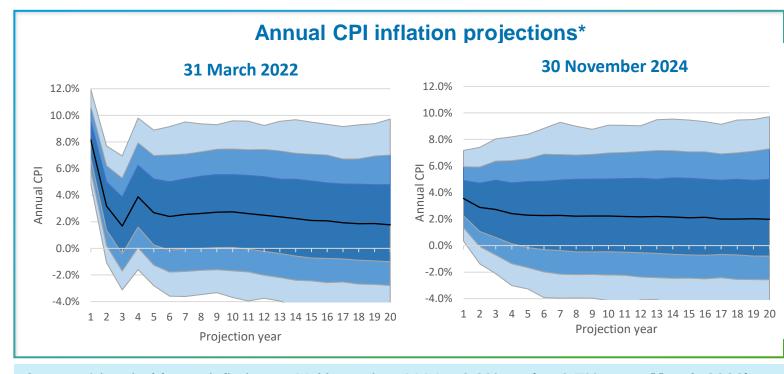
Benefit increases

- Benefit increases (and CARE revaluation) linked to CPI
- Reflect current inflation expectations

Salary increases

Inflationary salary increases set at CPI + 0.5%:

- Uncertainty due to competing factors
- Maintain at current margin in absence of strong reason for change



Average* level of future inflation at 30 November 2024 = 2.3% pa (vs 2.7% pa at March 2022)

Recommendation: Same approach as 2022 valuation, but reflect current inflation expectations



Breaking down the longevity assumption



Your **longevity** assumptions

How long you expect to pay a pension to each member and their dependants.



Baseline



- A snapshot of how long people currently live
- Measured objectively based on recent mortality data
- Use Club Vita analytics for a tailored best estimate based on members' characteristics



Future improvements

 How life expectancy increases over time



- Shorter-term expectations reflecting recent trends
- Longer-term expectations reflecting historical trends plus evidence that improvements may be higher or lower than historical trend
- Subjective wide range of possible outcomes

Evidence based baseline and informed judgement for future improvements

Baseline assumption

- Life expectancy tailored to every member of the Fund
- Considers postcode (proxy for lifestyle), retirement type and affluence
- Assumption is updated annually to reflect latest available data



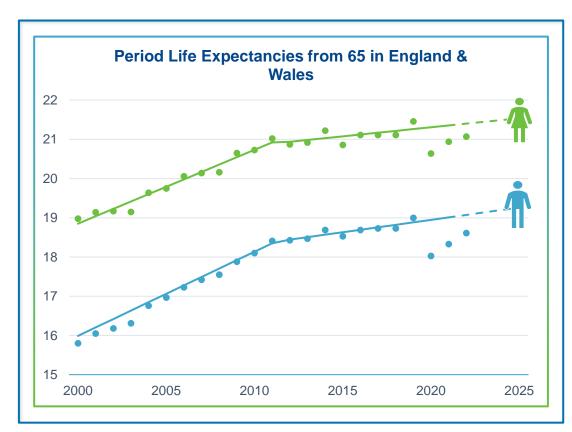
Amlwch

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Source: Club Vita, map available at https://maps.clubvita.co.uk



Future improvement assumption

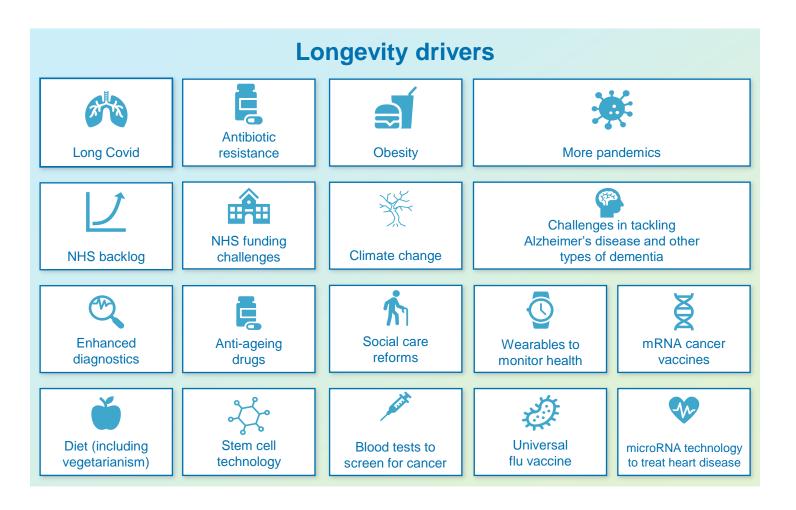


The world does not stand still, including life expectancy Need to allow for future improvements in life expectancy Improvements will be driven by medical advances, lifestyle behaviours and other external factors Will require subjective decision making

Source: CMI 2022 model. Life expectancies from 2022 calculated using projected qx rates, with W_{2020} through W_{2022} set to 100% and S_x set to 0%

Future improvements – other drivers

- Uncertainty in outlook
- Real-world drivers will affect future life expectancy
- Fund should consider its beliefs around future trends
- Full analysis considered in the Fund officer paper included in the committee pack.



Less prudent



Climate Change



COVID-19 Deaths



Long COVID



NHS delays



NHS funding



Low

- There is extremely limited response to address climate change.
- Deaths from COVID will continue to be material in the longer term.
- The proportion of individuals affected long COVID will remain at the level observed in 2023.
- There is no reduction in NHS waiting times and no progress towards the government's 18week target.
- The Government's health and social care budget continues to reduce in real terms.

Default

- There is some adaption to address climate change, but a struggle to adapt quickly.
- The level of deaths as a result of COVID has now stabilised.
- The proportion of individuals affected by long COVID will reduce slowly from the level observed in 2023.
- There is a general reduction in NHS waiting times, but still above the government's 18-week target.
- The Government's health and social care budget remains constant in real terms

High

- There is plausibly fast and effective adaption to address climate change.
- Deaths from COVID will be negligible in a few years' time.
- There is no material increase to mortality risk in the long-term due to reduced instances of long COVID.
- Within 5 years, there is no-one that waits more than 18 weeks for treatment.
- The Government's health and social care budget will be increased in future years.

Recommendation: Adopt overall 'default' future improvement assumption



Other demographic assumptions

Withdrawal

III-health retirements

Promotional salary scale

Death before retirement

50:50 option take-up

Retirement age

Cash commutation

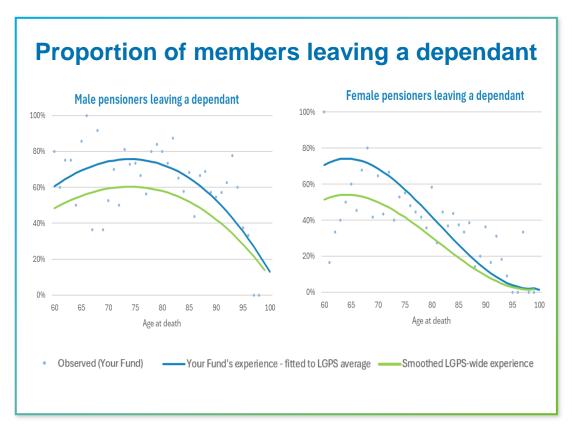
Use analysis of LGPS and Fund's actual membership experience.

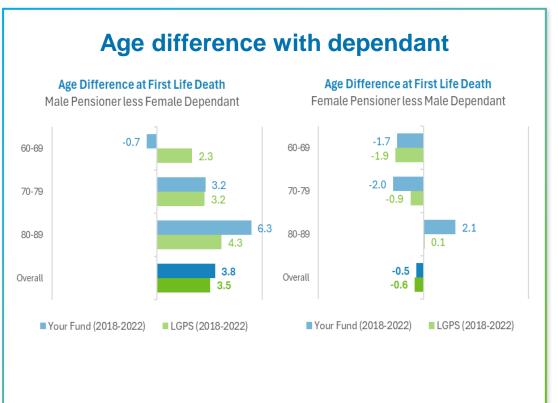
Consider external factors e.g. short-term events which skew analysis or upcoming changes



Recommendation: Adopt assumptions based on analysis of the Fund's actual membership experience

Assumptions informed by Club Vita





Recommendation: Adopt assumptions based on Club Vita LGPS-wide analysis



Assumptions to be approved

Assumption	2022 valuation assumption	Proposed 2025 valuation assumption	
Discount rate (level of prudence)	75% LoS prudence level	80% LoS prudence level Reflects increased market/economic uncertainty	
CPI inflation (Benefit increases and CARE revaluation)	Based on Hymans' ESS model, reflecting market expectations Median CPI expectation of 2.7% pa	Based on Hymans' ESS model, reflecting market expectations Median CPI expectation of 2.3% pa (as at November 2024, will be based on March 2025 expectations for valuation)	
Salary increases	CPI + 0.5%	CPI + 0.5%	
Baseline longevity	Latest Club vita tables	Latest Club vita tables	
Future improvements in longevity	 Use latest available CMI model Reflect Fund's membership characteristics Avoid recent Covid experience skewing projections 	 Use latest available CMI model Reflect Fund's membership characteristics Avoid recent Covid experience skewing projections Reflect Fund's beliefs about future longevity drivers 	
Other demographic assumptions (excluding longevity)	 Withdrawals (excl. ill health) –Hymans' default assumption is reduced by 20% for full-time males and females, and 25% for part time males Ill health early retirements – Hymans' default assumption Promotional salary scale – Hymans' default assumption Death in service – Hymans' default assumption 50:50 assumption – 0.5% uptake Retirement age – earliest age at which a member can retire with their benefits unreduced. Cash commutation – 65% of the maximum tax-free amount. Members leaving dependants –Club vita LGPS-wide analysis Age difference with dependant – Dependant is 3 years younger or older for males and females respectively 	 Withdrawals (excl. ill health) – Hymans' default assumption is reduced by 40% for full-time and part time males, 30% for full-time females and 10% for part-time females Ill health early retirements – Hymans' default assumption Promotional salary scale – Hymans' default assumption Death in service – Hymans' default assumption 50:50 assumption – 0% uptake Retirement age – no change Cash commutation – 75% of the maximum tax-free amount. Members leaving dependants – Club vita LGPS-wide analysis Age difference with dependant – Club vita LGPS-wide analysis (Dependant is 3.5 years younger for males and 0.6 years older for females 	





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