

#### Nottinghamshire County Council Pension Fund Board Training 16 December 2021 2022 Actuarial Valuation

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#### What is a valuation?

#### How do we value liabilities?

How do we value assets?

How do we set contribution rates for employers?

Hot topics and looking ahead...



# What is a valuation?



#### What is a funding valuation?



- Financial value of a promise
- Member entitlements
- Funded scheme



#### Assets

- Long-term investments
- Suitable risk
- Investment return on assets

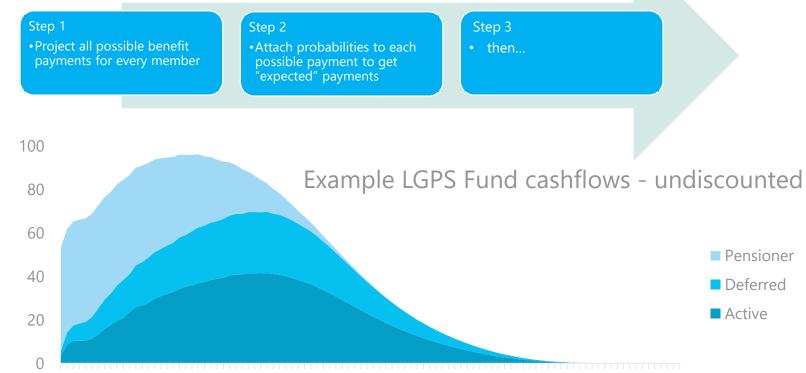


#### Contributions

- Employee & employer
- Stability
- Cost efficiency



#### First project cashflows....



Year



 $\left( \right)$ 

#### ...then "discount" for today's values

#### Step 1 Step 3 Step 2 • Project all possible benefit •Attach probabilities to each • Then discount payments payments for every member possible payment to get to today's "present value" "expected" payments 100 Example LGPS Fund cashflows - discounted 80 60 Pensioner 40 Deferred Active 20 0 10 20 30 40 50 60 70 80 90 $\left( \right)$ Year

#### Your last funding valuation

Funding position

• Liabilities of £5,820m

- Market value of assets £5,415m
- Funding level of 93%

Employer contributions

• Primary rate of 17.9%

• Total equivalent contribution rate 21.6%

Section 13

- SAB funding level 100%
- Green flags



## How to value liabilities



#### Valuing liabilities for each employer





#### **Key actuarial assumptions - financial**





#### Key assumption - discount rate

Expenses

• All employers

• Explicit

element

## Expected return

- •Weighted average
- •Long-term investment strategy

#### Smoothing

- Six month period
- Reduces volatility

#### Prudence

- Attitude to risk
- Allowance for uncertainty

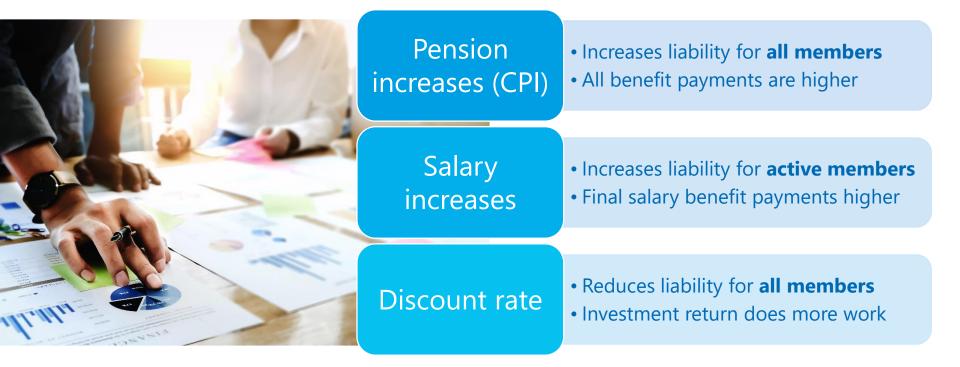
#### Varies by Fund Standardised for S13

Varies by employer Employer covenant and circumstances

Varies over time Updated for market conditions



#### Impact of increase in each assumption



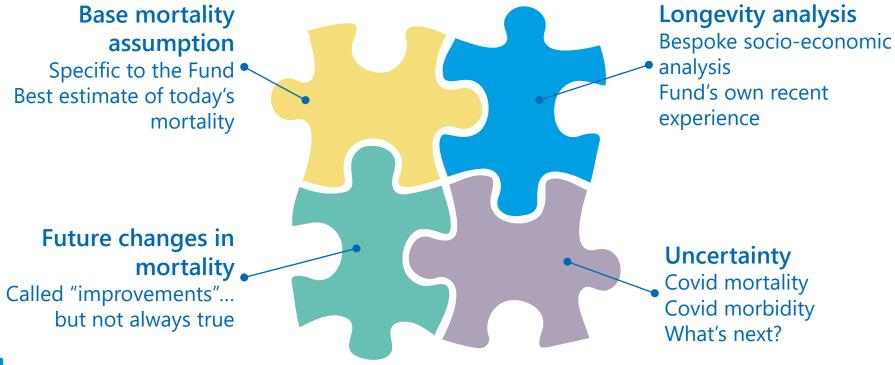


#### Key actuarial assumptions - demographic



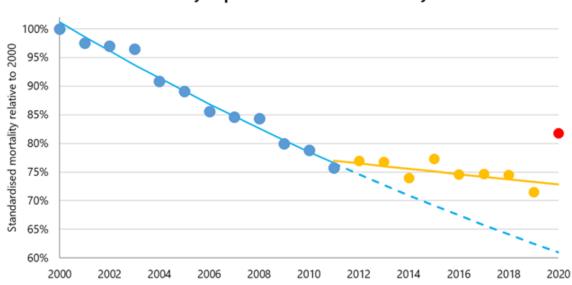


#### Key assumption - mortality





#### How is mortality changing?



Mortality Improvements in the 21st Century

Source: Barnett Waddingham calculations based on Office for National Statistics data for England and Wales and Continuous Mortality Investigation Ltd (CMI) methodology

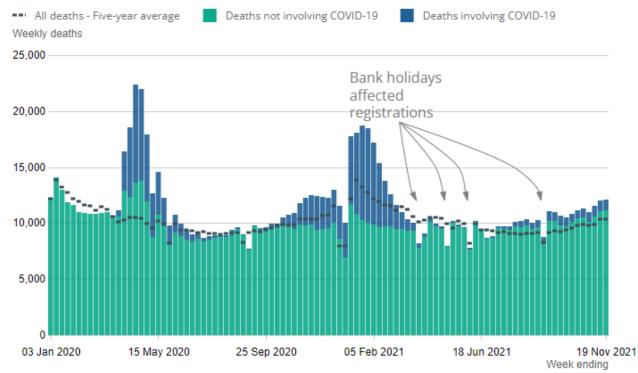
First recorded UK Covid death 30 January 2020

100,000 UK Covid deaths by 22 January 2021

124,000 deaths above 5 year average E&W (to November 2021)



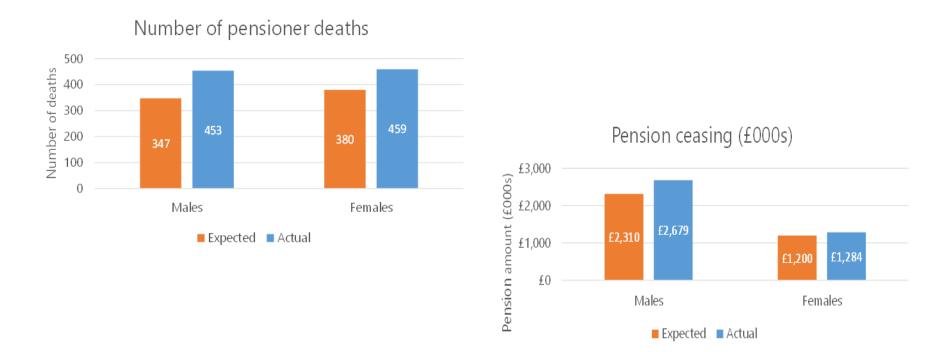
#### **Impact of Covid-19**





Source: Office for National Statistics – Deaths registered weekly in England and Wales

#### Your Fund - Impact of Covid-19



BARNETT Analysis carried out by BW on data from the period 1 February 2020 to 31 March 2021 WADDINGHAM

## How to value assets



#### Valuing assets for each employer

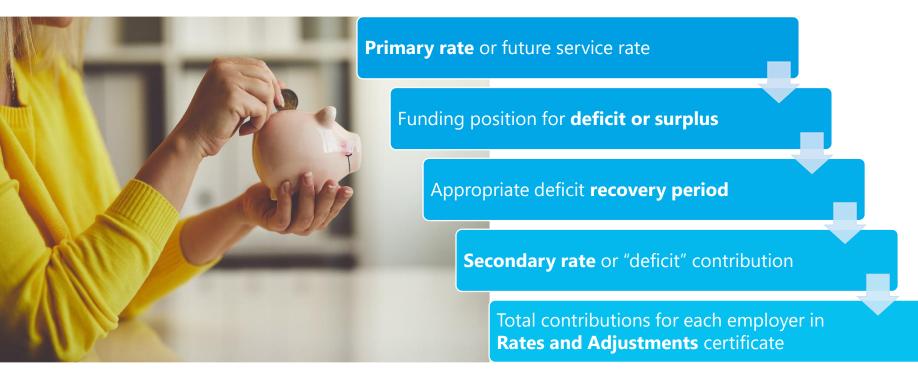




## **Employer contributions**



#### **Contribution rates for each employer**





#### What affects employer contribution rate?

Primary rate	<ul> <li>Employer share only</li> <li>Membership profile</li> </ul>	
Secondary rate	<ul> <li>Deficit recovery period</li> <li>Regular lump sums, % of payroll, something else?</li> </ul>	J.
Funding risks	<ul> <li>Employer covenant</li> <li>Risk-sharing or guarantees</li> </ul>	
Funding strategy statement	<ul> <li>Stability</li> <li>Solvency &amp; long-term cost efficiency</li> </ul>	



## Looking ahead to key issues



### Key issues affecting LGPS

- Age discrimination remedy
- Underpin increases employer cost
- Huge admin project
- Cost cap and floor
- 2016 process paused in Jan 2018
- SAB & HMT

Cost Management

**McCloud** 

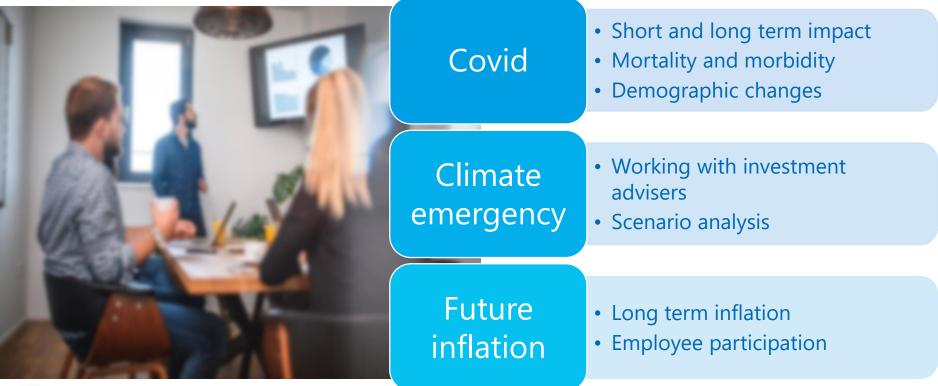
- Public sector reform from 4 Nov 2020
- Contradictory regulations in force
- 12 Feb 2021 revoked by HMT

#### Exit Reform





#### Wider key issues





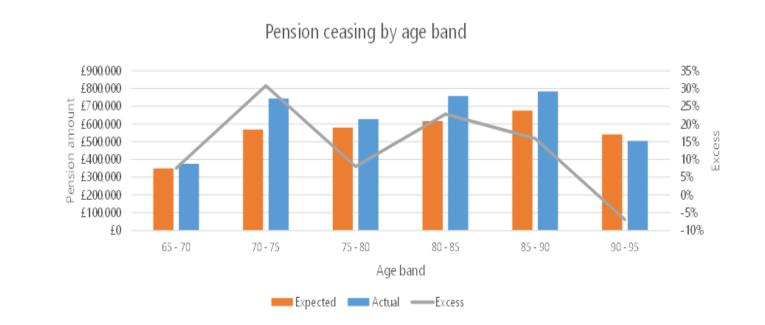




## **THANK YOU**



#### Your Fund - Impact of Covid-19





Source: Office for National Statistics – Deaths registered weekly in England and Wales

#### How do liabilities change over time?

