

The NAPF Longevity Model

POWERED BY CLUB **VITA**

6 February 2015

Unique insights on trends in longevity

Agenda

Longevity:

- To the future....
 - Providing information to pension schemes to help them reflect the **diversity** in longevity trends amongst pensioners, using the most **relevant** experience available, that of DB pensioners
- ...and beyond
 - Using this information to help pension schemes recognise **uncertainty** and move away from a single common view on how longevity might change in the future

Longevity: to the future....

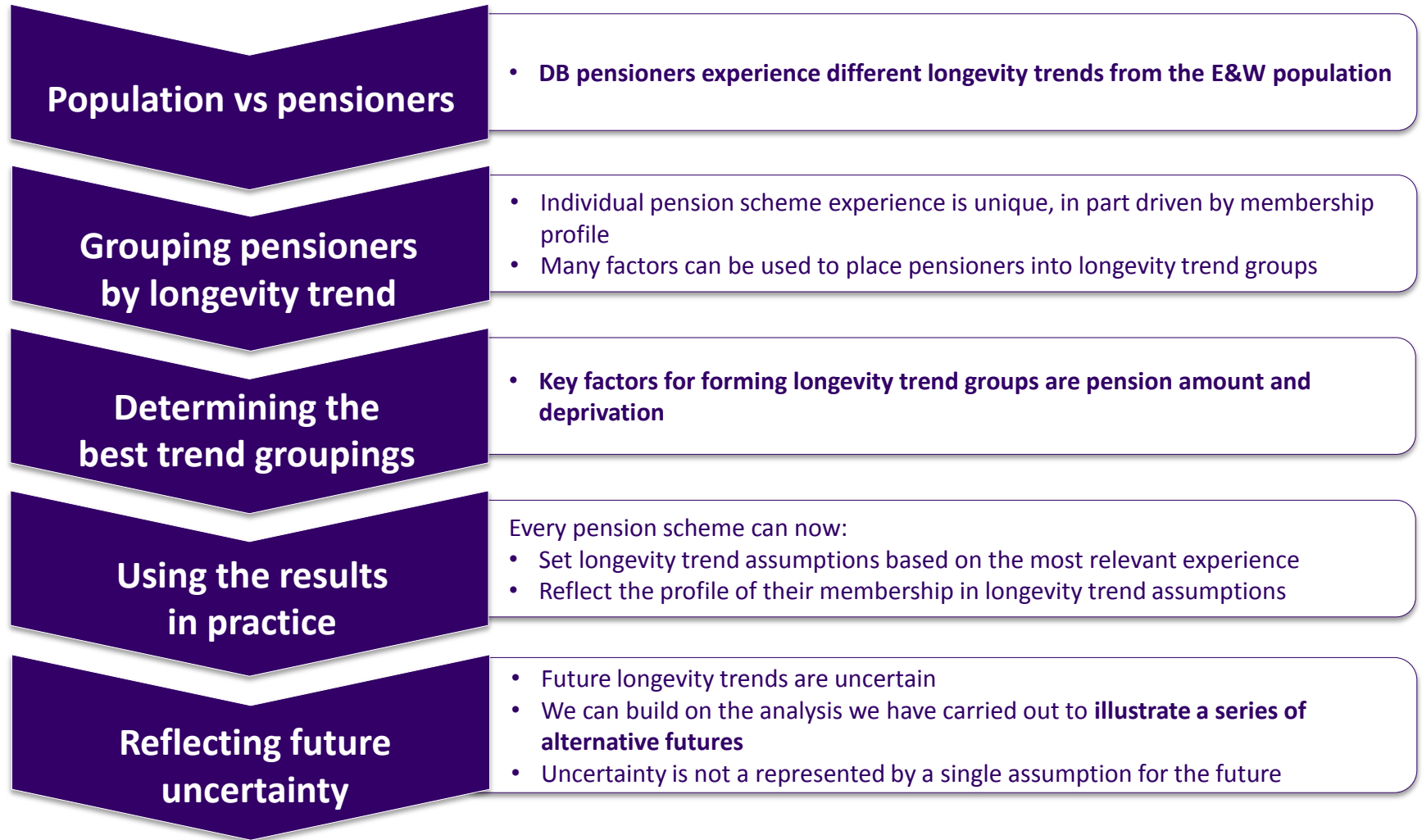
Longevity



Why research longevity trends?



Our approach



Are pensioners scheme members different?



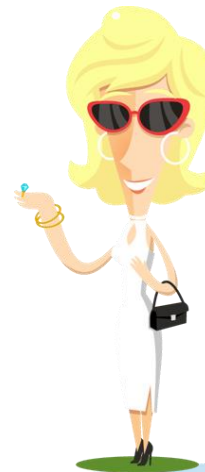
Yes!

Longevity trend groups

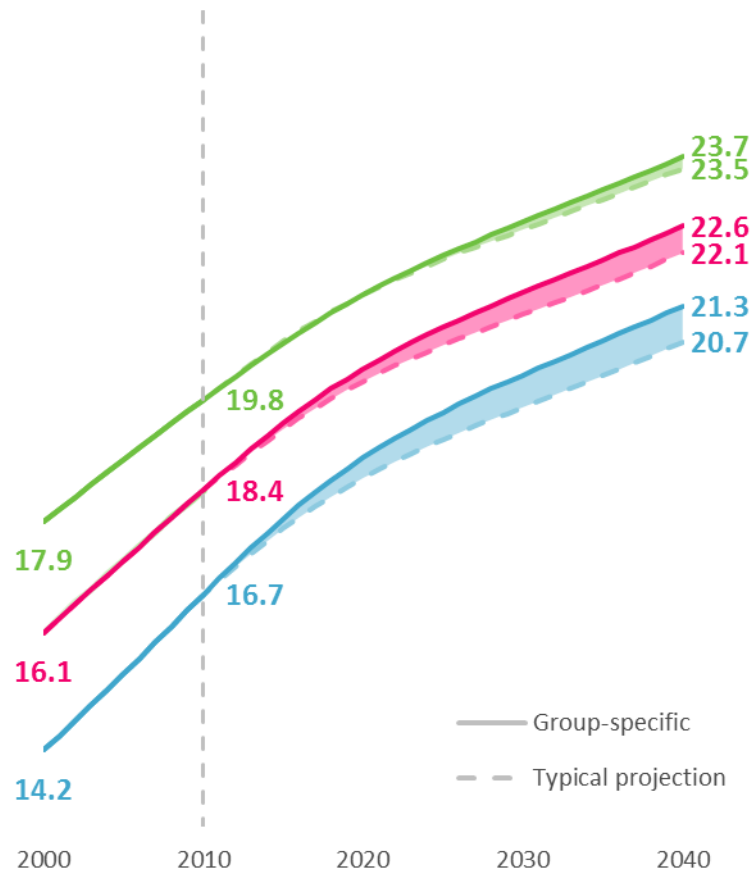
Men



Women



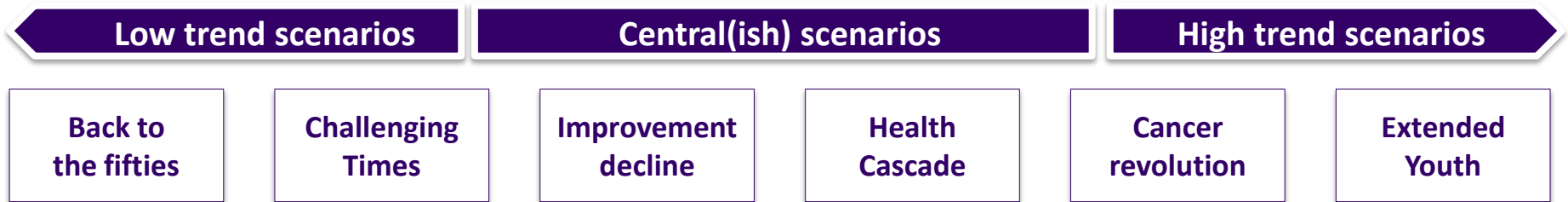
Projecting the future based on relevant experience



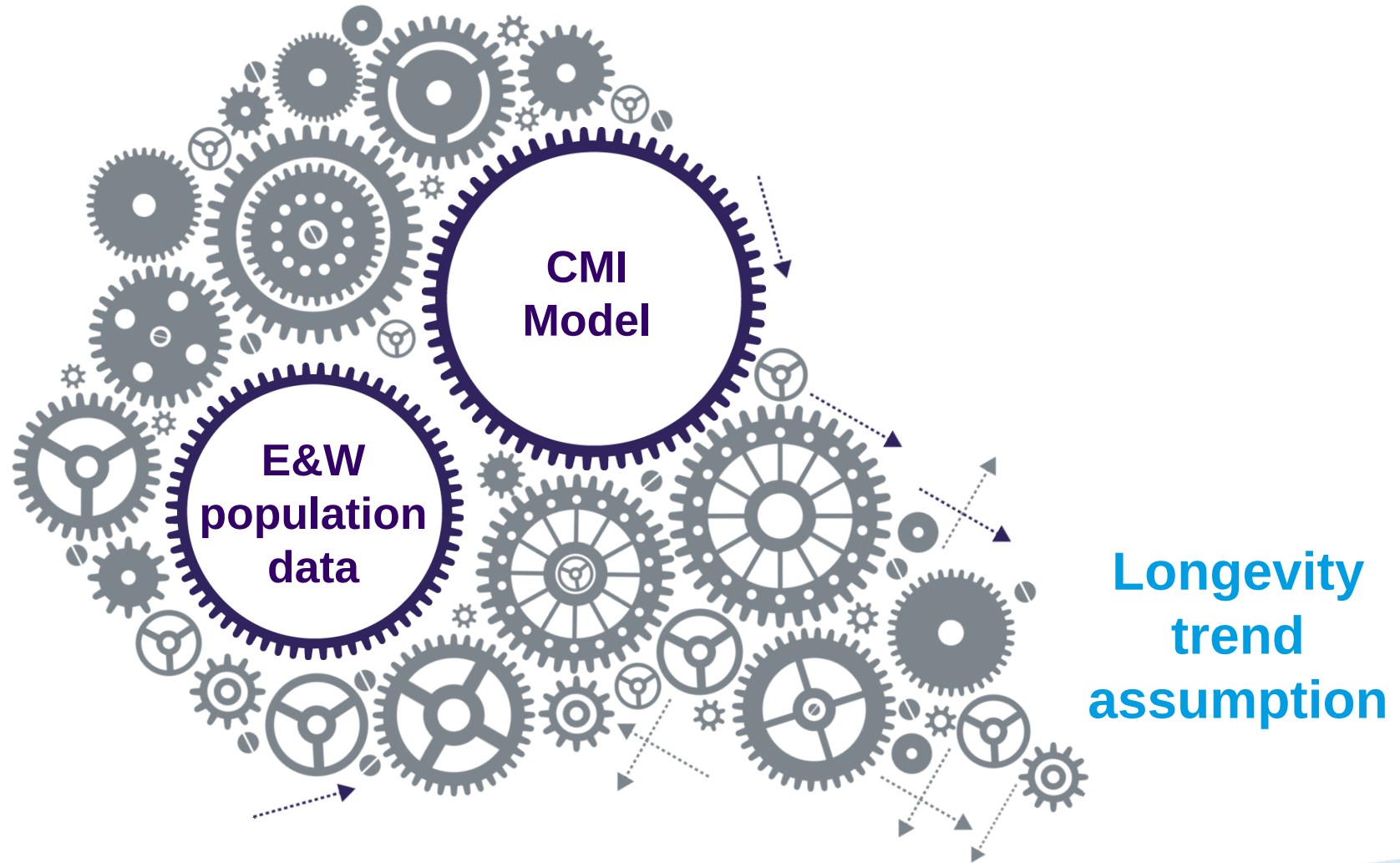
* from age 65

** vs CMI model with CMI starting improvement and 1.5% long-term rate

Range of scenarios

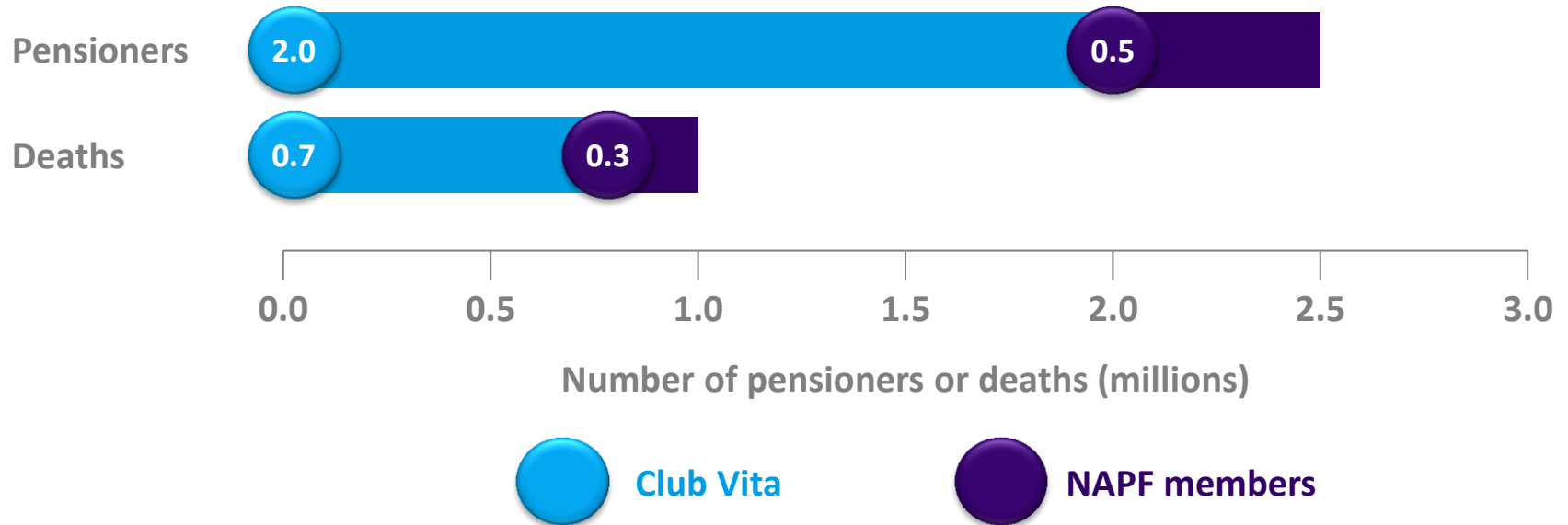


Reflecting on current practice



Data

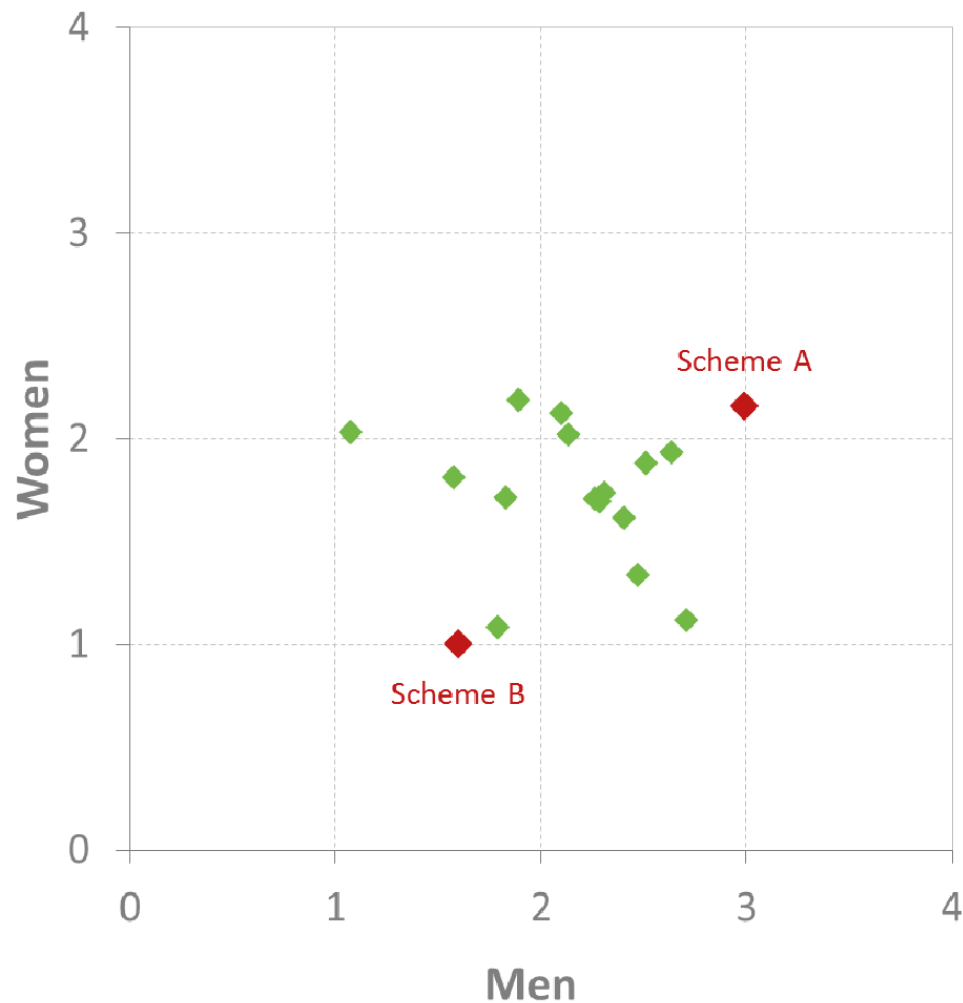
We assembled a large, quality-checked dataset to ensure our results would be credible and reliable



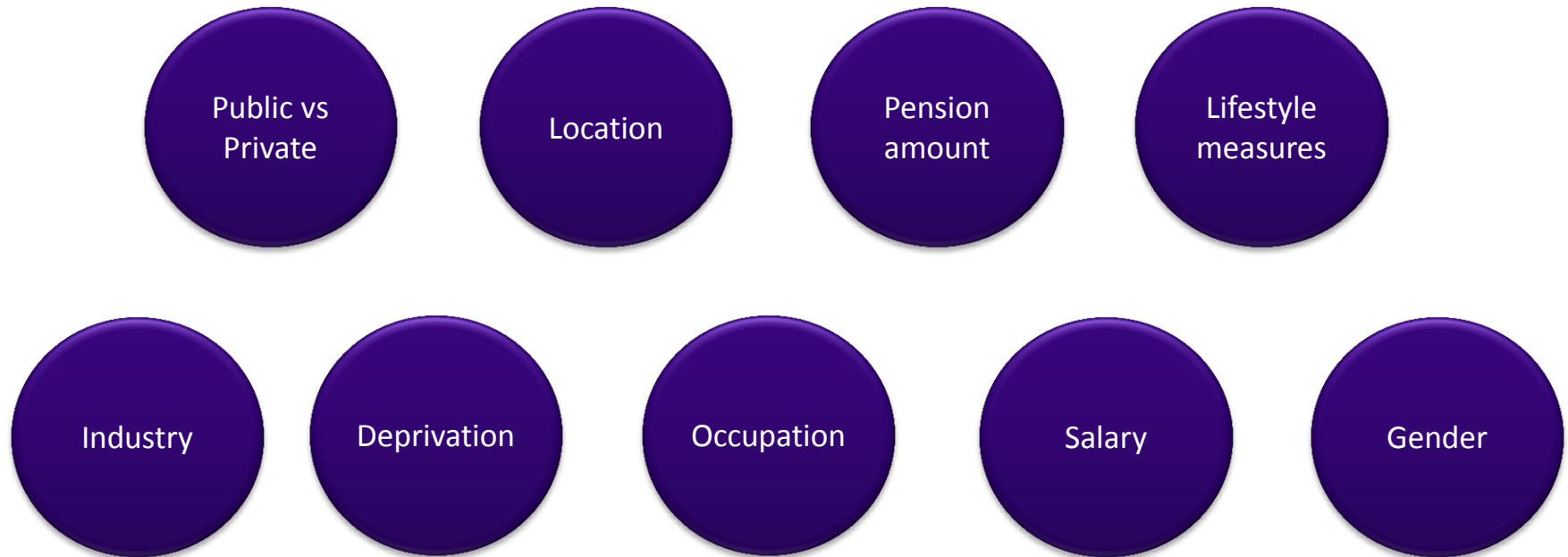
We can recognise the differences between E&W population and DB schemes in longevity assumptions

Individual scheme experience

Increase in life expectancy between 2000 and 2010, measured at age 65



Grouping pensioners by longevity trend



Deprivation is a measure of resource availability
of individuals in a certain location

Pension amount is a commonly available,
though not perfect, measure of wealth

Longevity trend groups

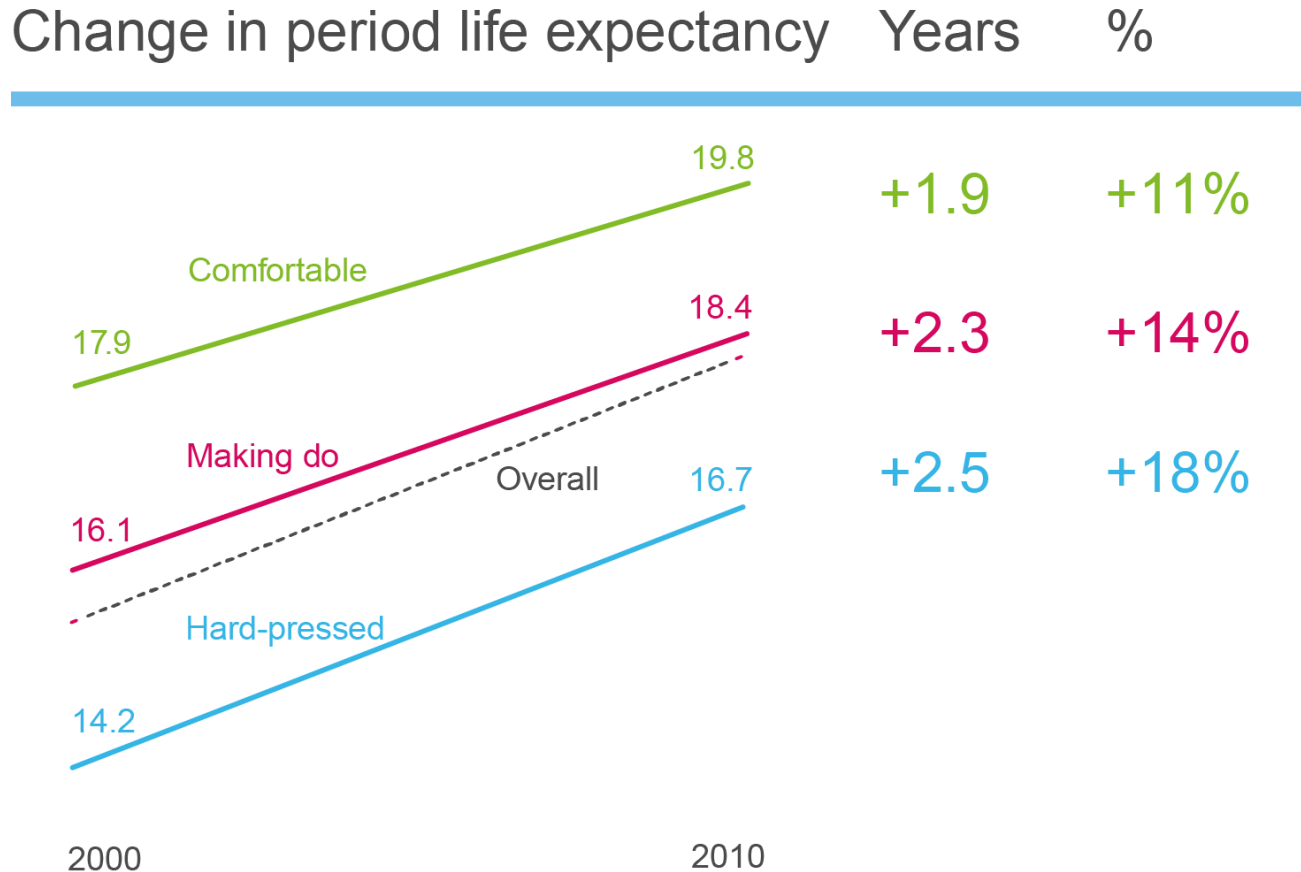
Men

		Deprivation of the area				
		High deprivation		Low deprivation		
Pension amount	< £5k p.a.	Hard-pressed		Making do		
	£5k - £7.5k p.a.					
	> £7.5k p.a.			Comfortable		

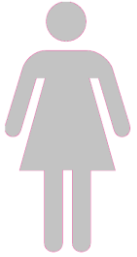
Women

Deprivation of the area				
High deprivation		Low deprivation		
Hard-pressed		Making do/comfortable		

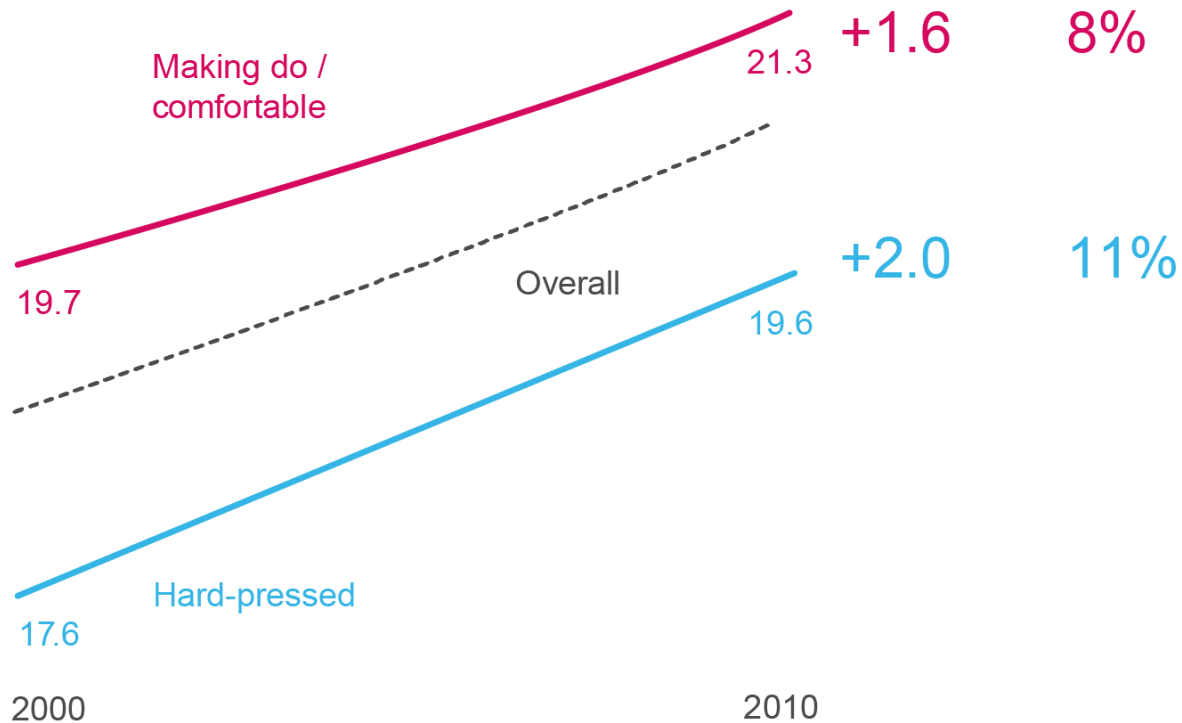
Longevity trend groups - experience



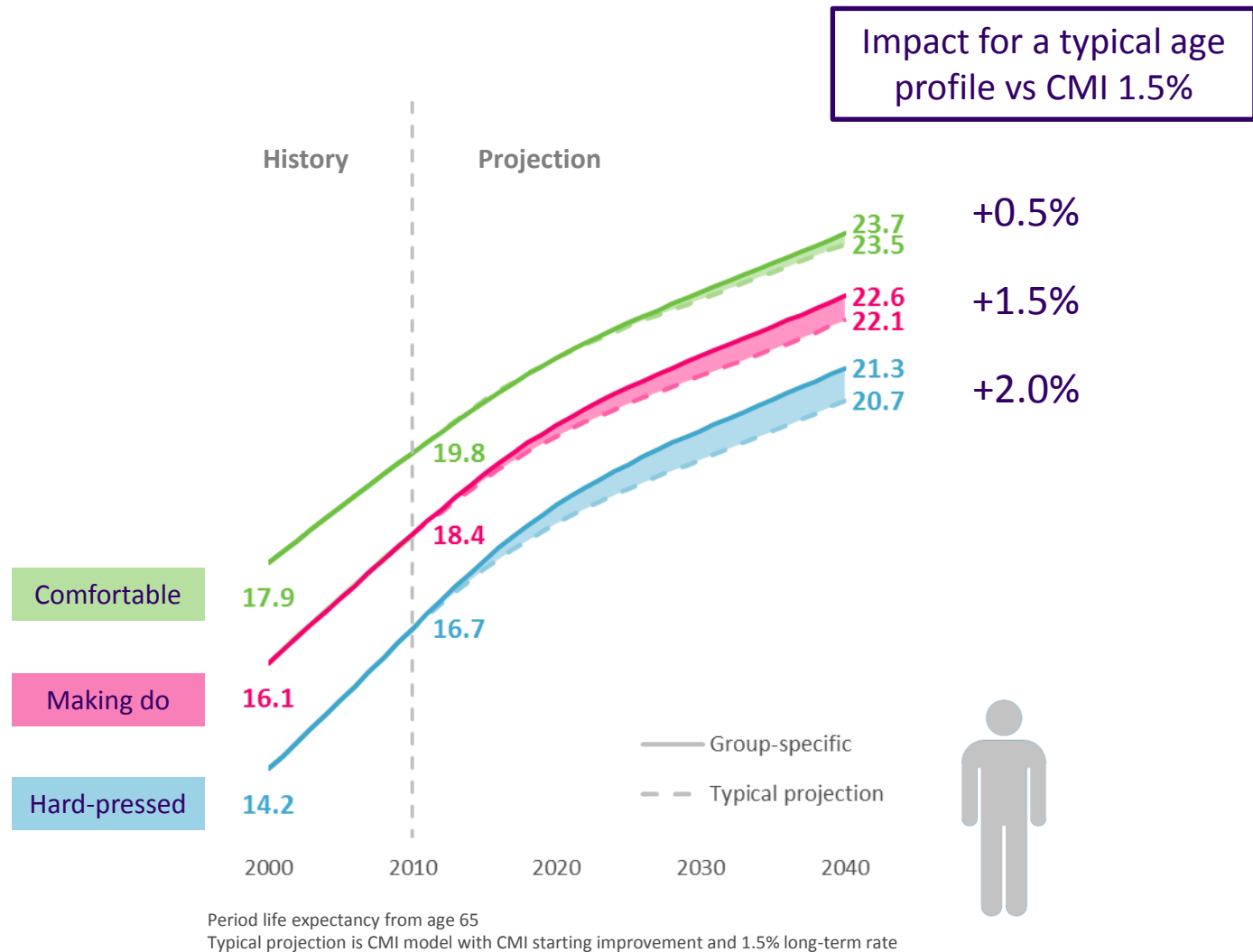
Longevity trend groups - experience



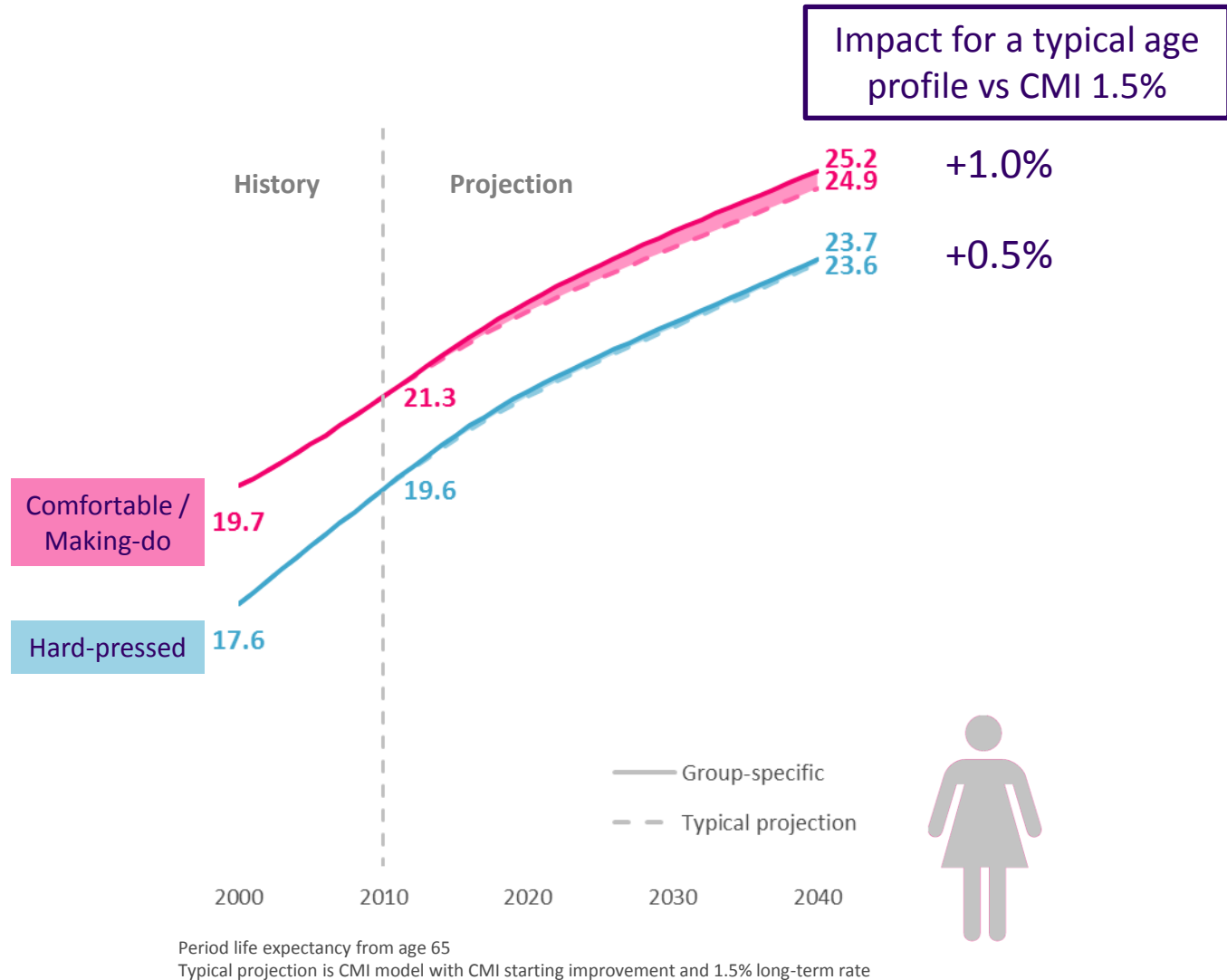
Change in period life expectancy Years %



Projecting the future based on relevant experience

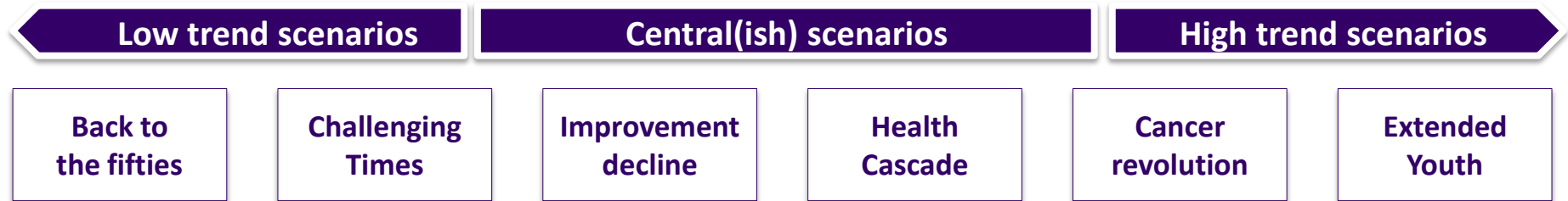


Projecting the future based on relevant experience



**Longevity: to the future...
...and beyond.**

Range of scenarios



What we do not suggest is that some of these scenarios are better than others, represent or even place outer boundaries on what we might experience in the future. The purpose of sharing these scenarios is purely to support more informed discussions between the key stakeholders in managing pension schemes – trustees, sponsoring companies and their advisors and service providers.

Health cascade



Health cascade

Low trend scenarios

Central(ish) scenarios

High trend scenarios

Back to
the fifties

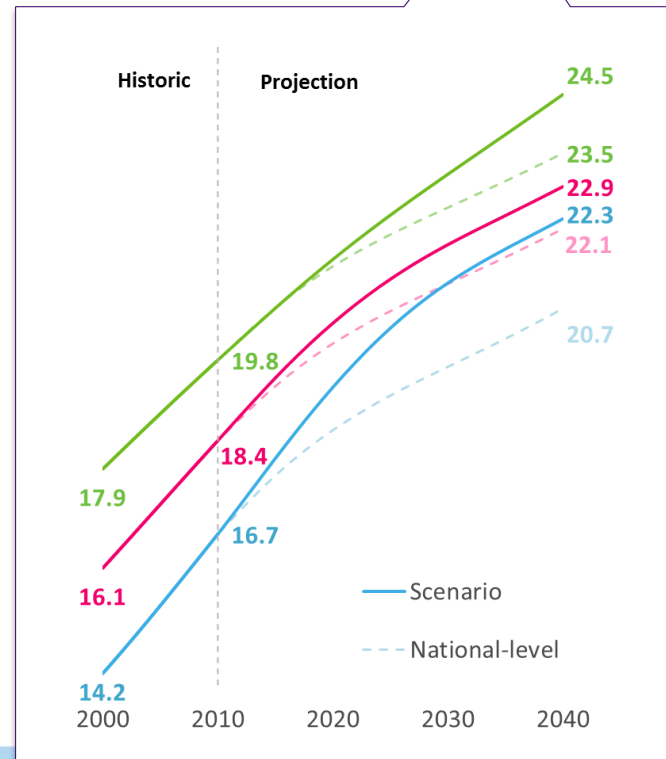
Challenging
Times

Improvement
decline

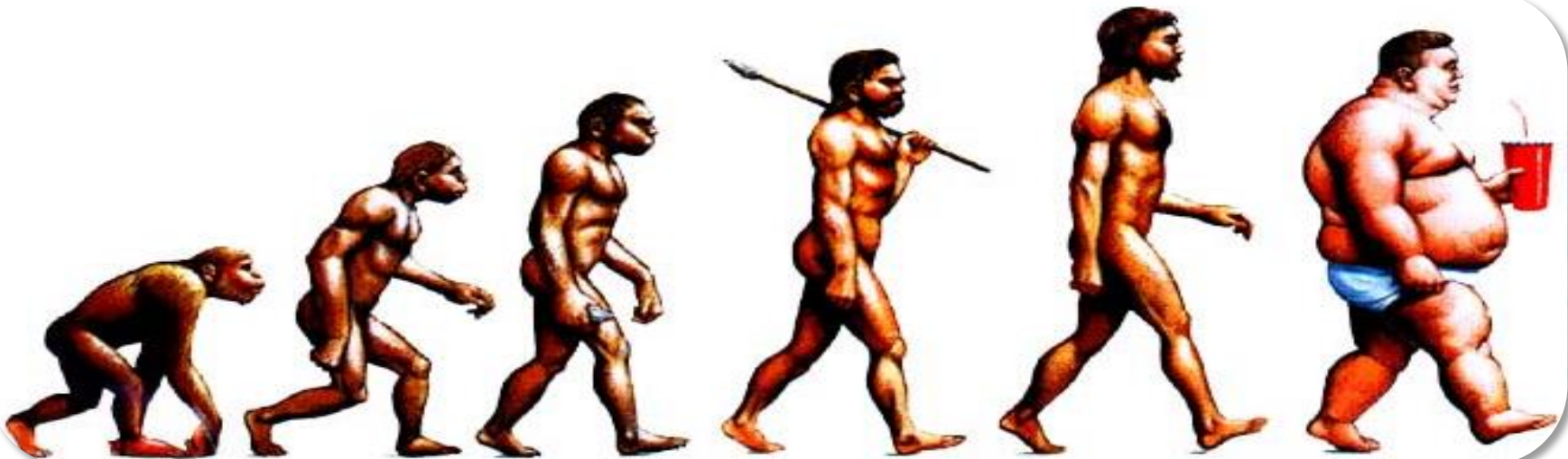
Health
Cascade

Cancer
revolution

Extended
Youth



Improvement decline



Improvement decline

Low trend scenarios

Central(ish) scenarios

High trend scenarios

Back to
the fifties

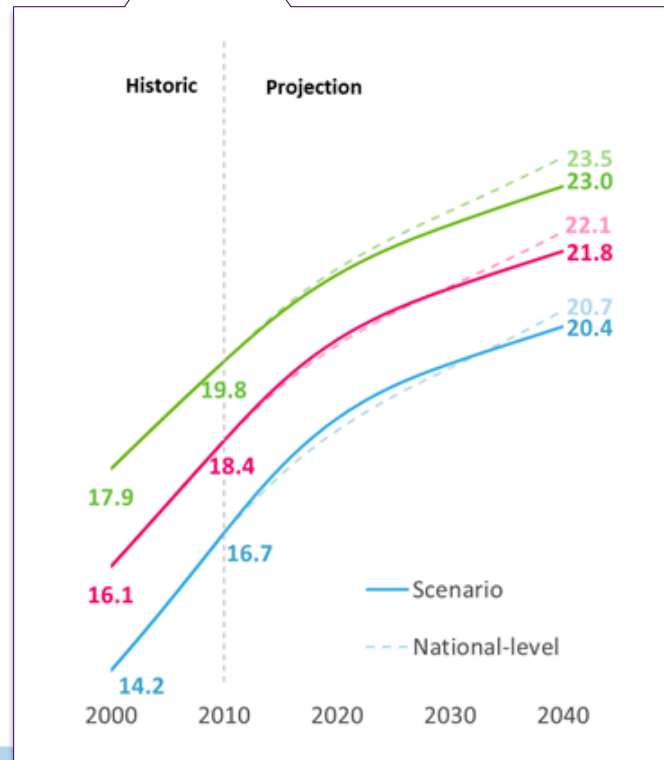
Challenging
Times

Improvement
decline

Health
Cascade

Cancer
revolution

Extended
Youth



Cancer revolution



Cancer revolution

Low trend scenarios

Central(ish) scenarios

High trend scenarios

Back to
the fifties

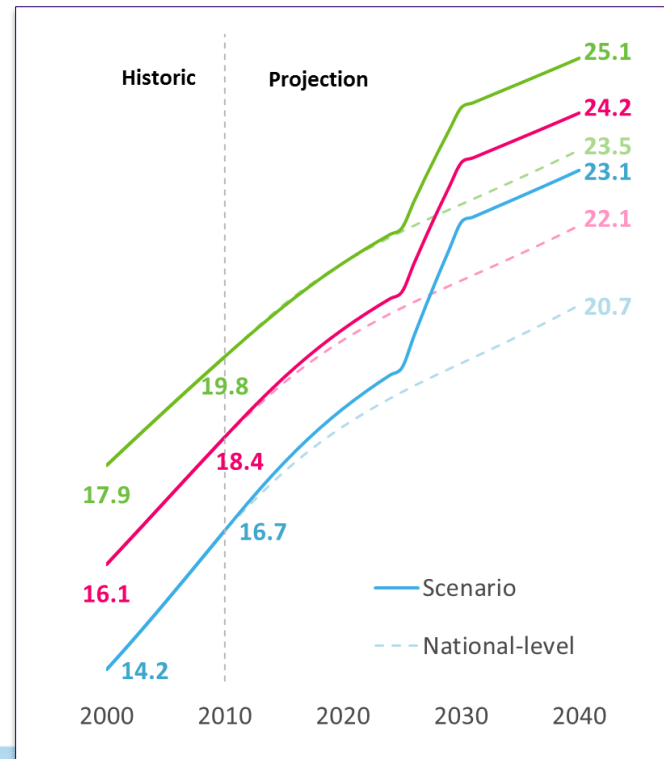
Challenging
Times

Improvement
decline

Health
Cascade

Cancer
revolution

Extended
Youth



Challenging Times



Challenging times

Low trend scenarios

Central(ish) scenarios

High trend scenarios

Back to
the fifties

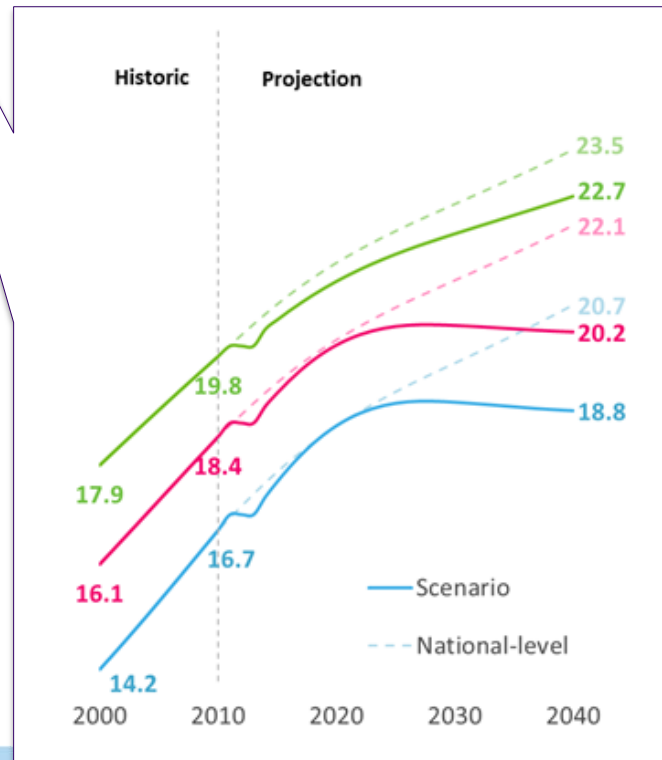
Challenging
Times

Improvement
decline

Health
Cascade

Cancer
revolution

Extended
Youth



Extended Youth



Back to the Fifties



Back to the fifties / extended youth

Low trend scenarios

Central(ish) scenarios

High trend scenarios

Back to the fifties

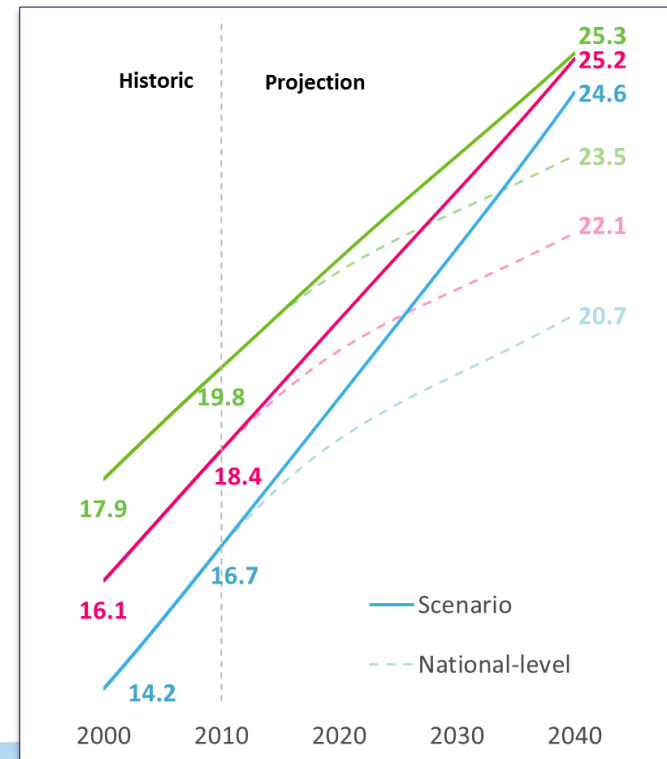
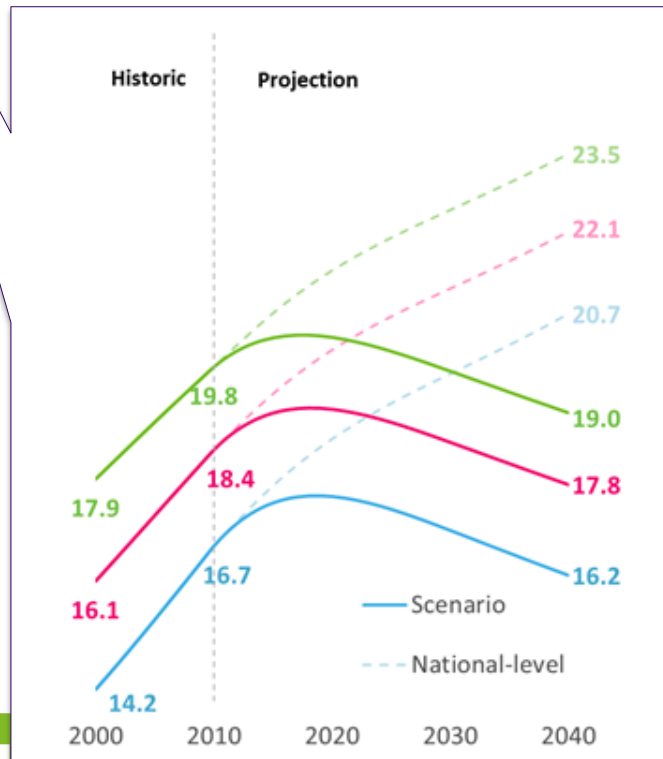
Challenging Times

Improvement decline

Health Cascade

Cancer revolution

Extended Youth



What does this mean for DB schemes?

Questions for trustees/pension managers

1. What starting point is being used for the longevity trend assumption?
2. If we were to use the longevity groups set out in the NAPF research report, what would be the impact on scheme liabilities?
3. How would our funding and investment strategies change if longevity trends developed in line with one of the scenarios set out in the NAPF research report (e.g. 'cancer revolution') or another plausible scenario?

Supporting material

Summary of the research:

<http://www.napf.co.uk/longevity-model>

Longevity Model:

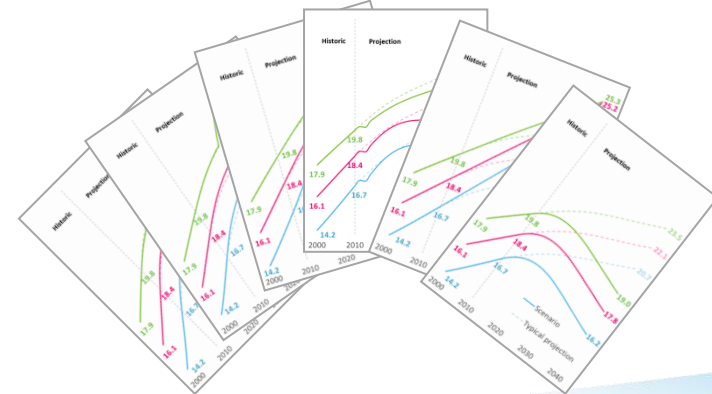
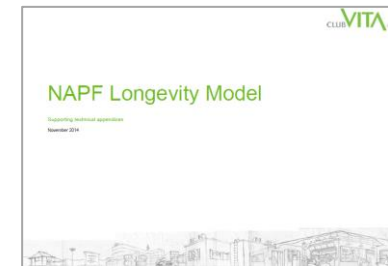
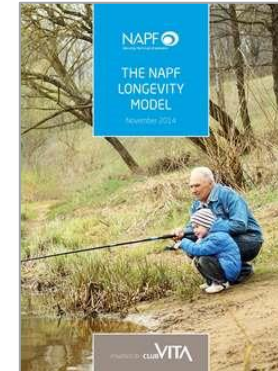
[http://www.napf.co.uk/~media/Policy/Documents/0414 Longevity model Nov14 2.pdf](http://www.napf.co.uk/~media/Policy/Documents/0414%20Longevity%20model%20Nov14%202.pdf)

Technical Report:

<http://www.clubvita.co.uk/SiteCollectionDocuments/NAPF%20Technical%20Report.pdf>

Other information (eg postcode to IMD mapping)

<http://www.clubvita.co.uk/home.aspx#longevity>
(click “Longevity trends”)



Q&A

Our approach

