



Institute
and Faculty
of Actuaries

IFoA Life Conference

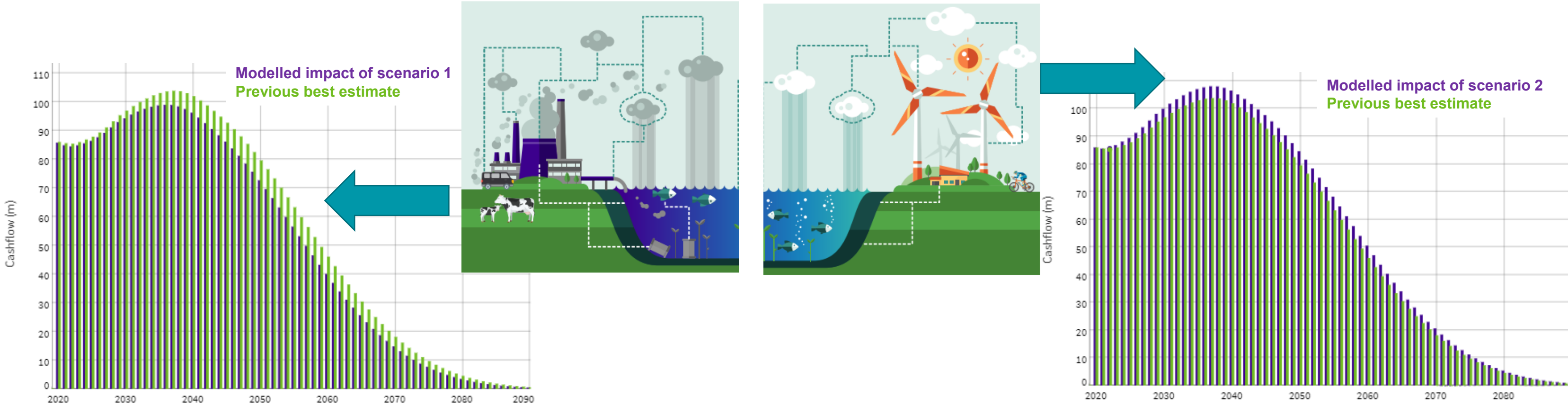
Beyond the weather: the wider forecast for climate change

Broader health and societal impacts of climate change



Exploring uncertain futures

A narrative-driven approach



What could climate change mean for the future of longevity?



Exploring uncertain futures

A narrative-driven approach

Brings longevity risk to life for non-experts

An antidote to a deterministic mindset

Forces us to scrutinise our best estimate

Enables better risk management

Highlights future events missed by stochastic models

The wider world of climate scenarios

Scenario thinking has become more established over recent years



Representative
Concentration
Pathways



Shared
Socioeconomic
Pathways



Network for Greening
the Financial System
Scenarios

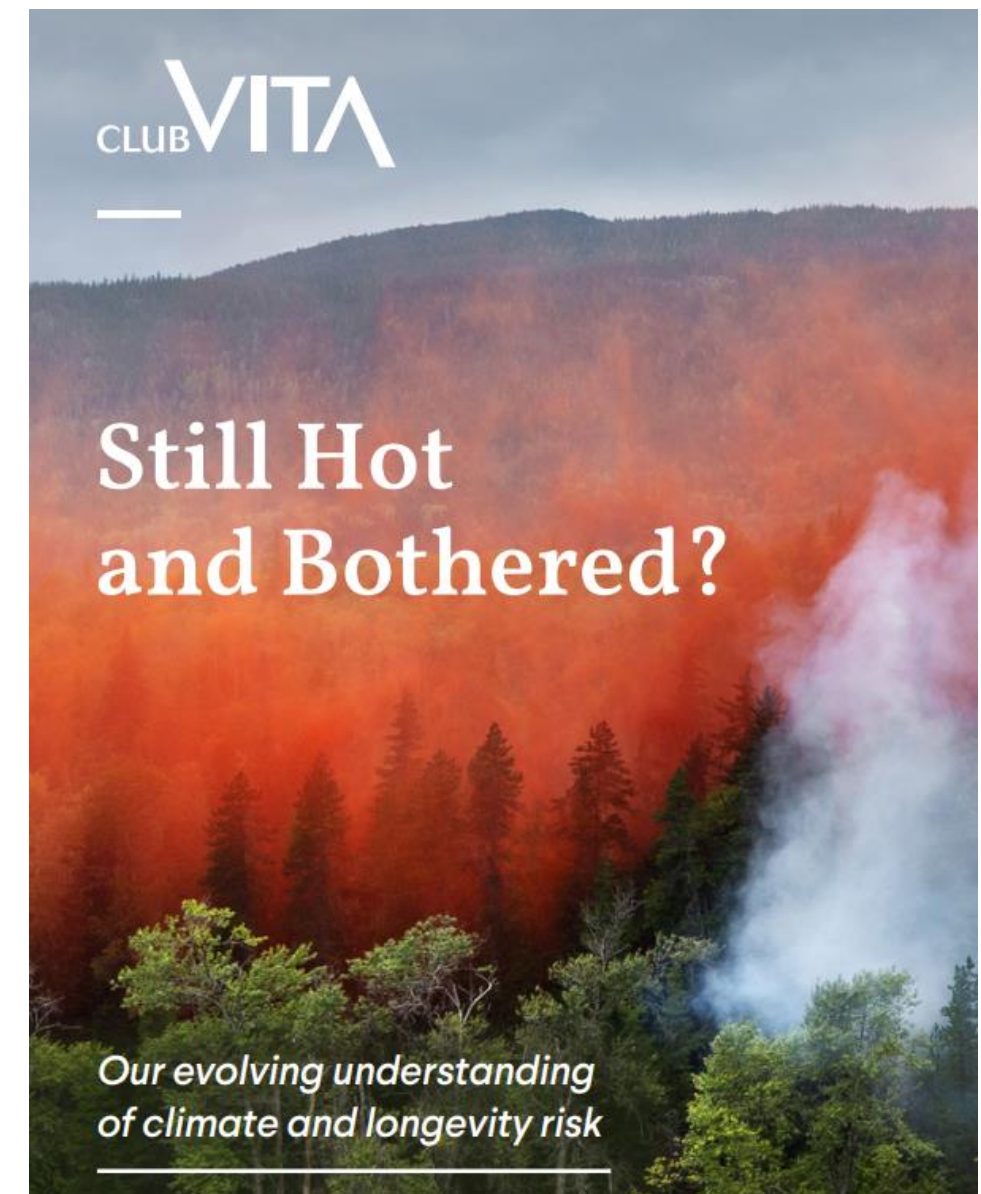


IPCC Special Report
on Emissions
Scenarios

Many of the climate-related events and health impacts we now face have never happened before and will not be captured by simply projecting historical trends. This is where narrative-based scenario modelling becomes essential. It is one of the few ways to assess the potential future impact of climate change and what it might mean for human health and longevity.

What could climate change mean for the future of longevity?

Our evolving understanding of climate and longevity risk



(Re)introducing Club Vita's scenarios



Sustained stagnation

A future marked by global inaction, where climate change continues largely unchecked due to weak policy measures and limited mitigation efforts.



Turbulent times

Adaptation occurs but progress is too slow to fully offset the limitations of finite resources and the climate impacts already locked into the system.



Rapid response

A fast and coordinated shift in behaviour, driven by technological innovation and strong mitigation policies, leading to effective adaptation and reduced climate risks.



Rapid response

Building up the narrative



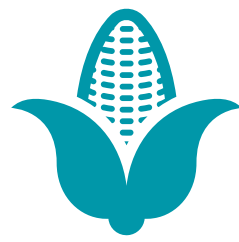
Increased public awareness (and action)



Green energy improving air quality



Rapid technological advances



Dietary changes



Environmentally conscious legislation



More efficient emergency services

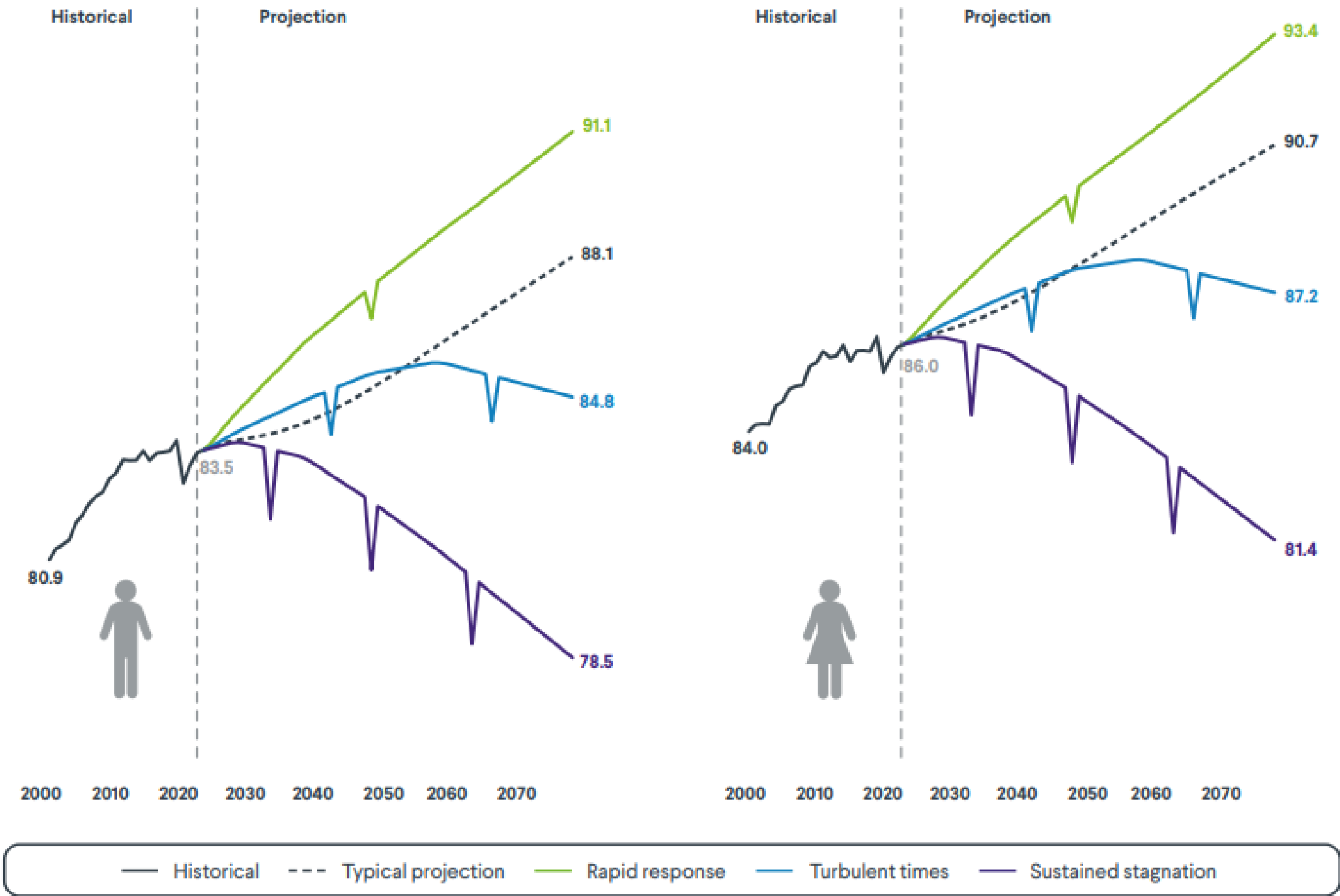


Less polluting forms of transport



Investment in better protection against extreme events

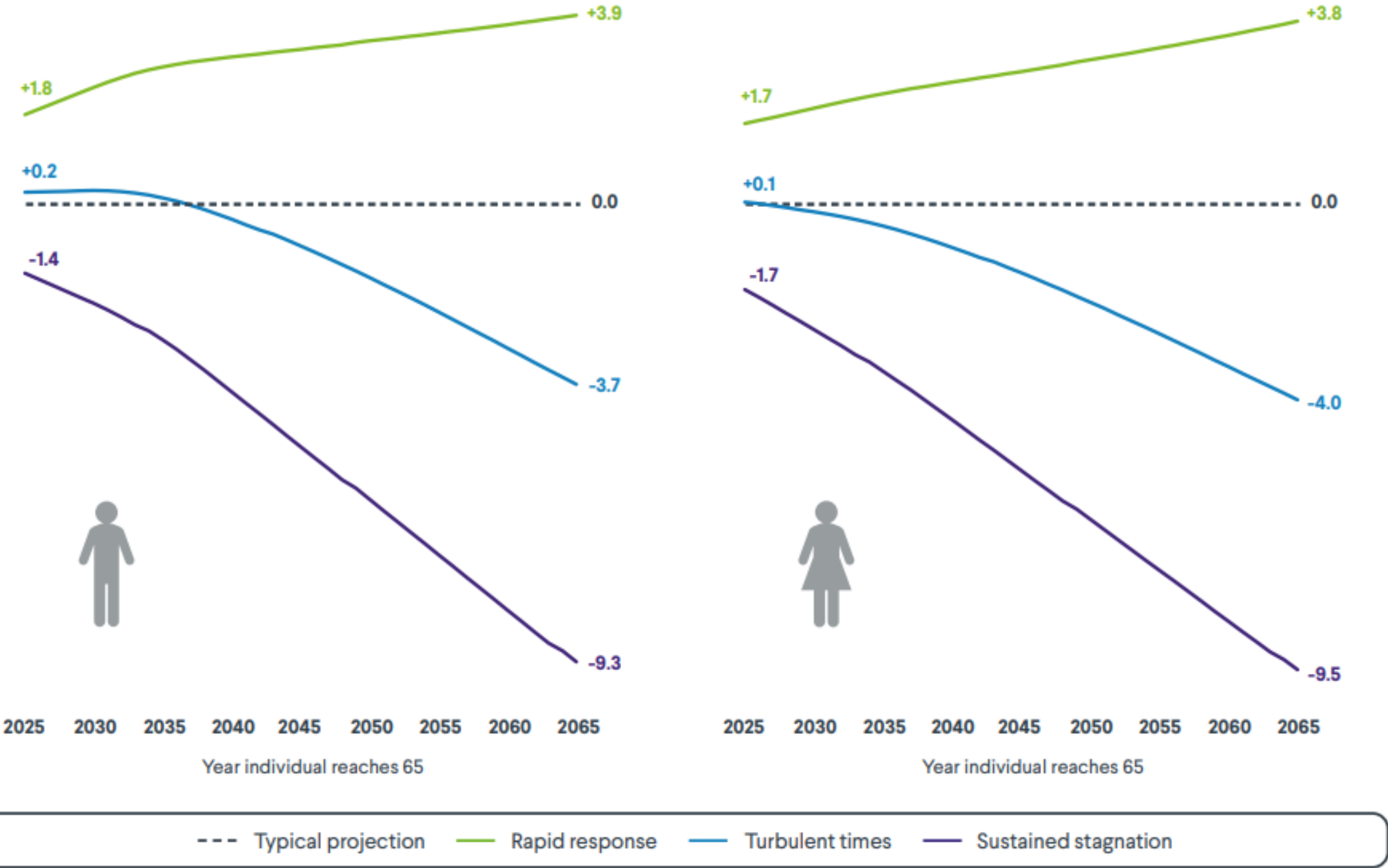
Impact on period life expectancy (at age 65)



What could climate change mean for the future of longevity?



Impact on cohort life expectancy (at age 65)

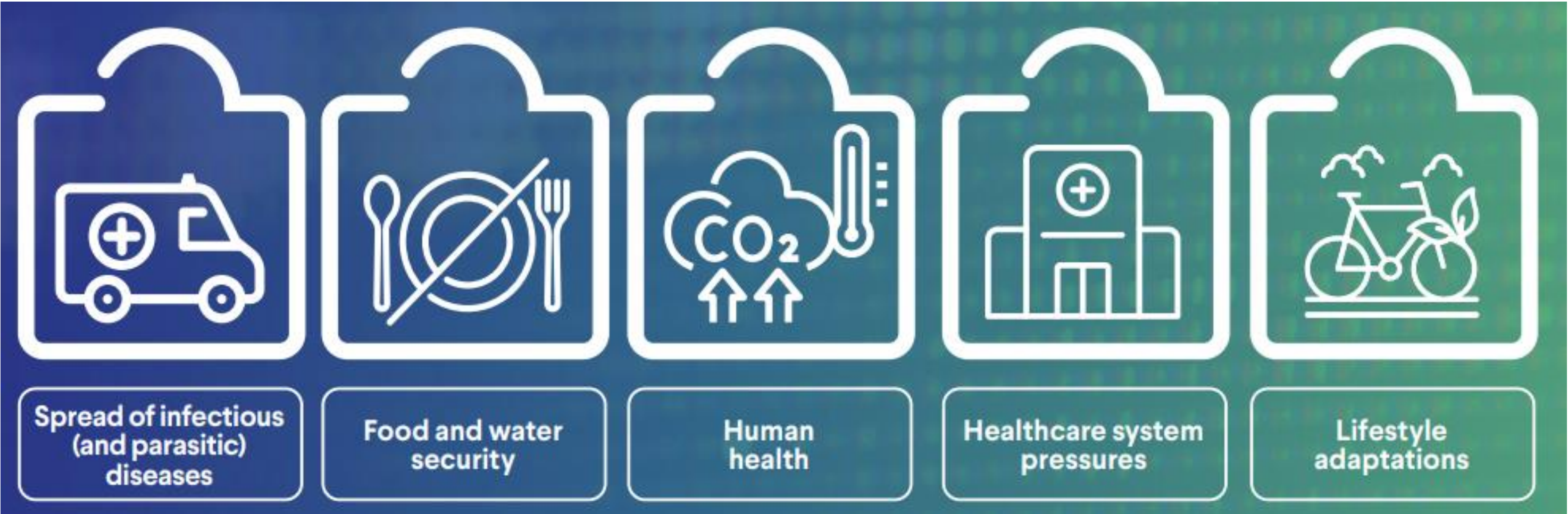


What could climate change mean for the future of longevity?

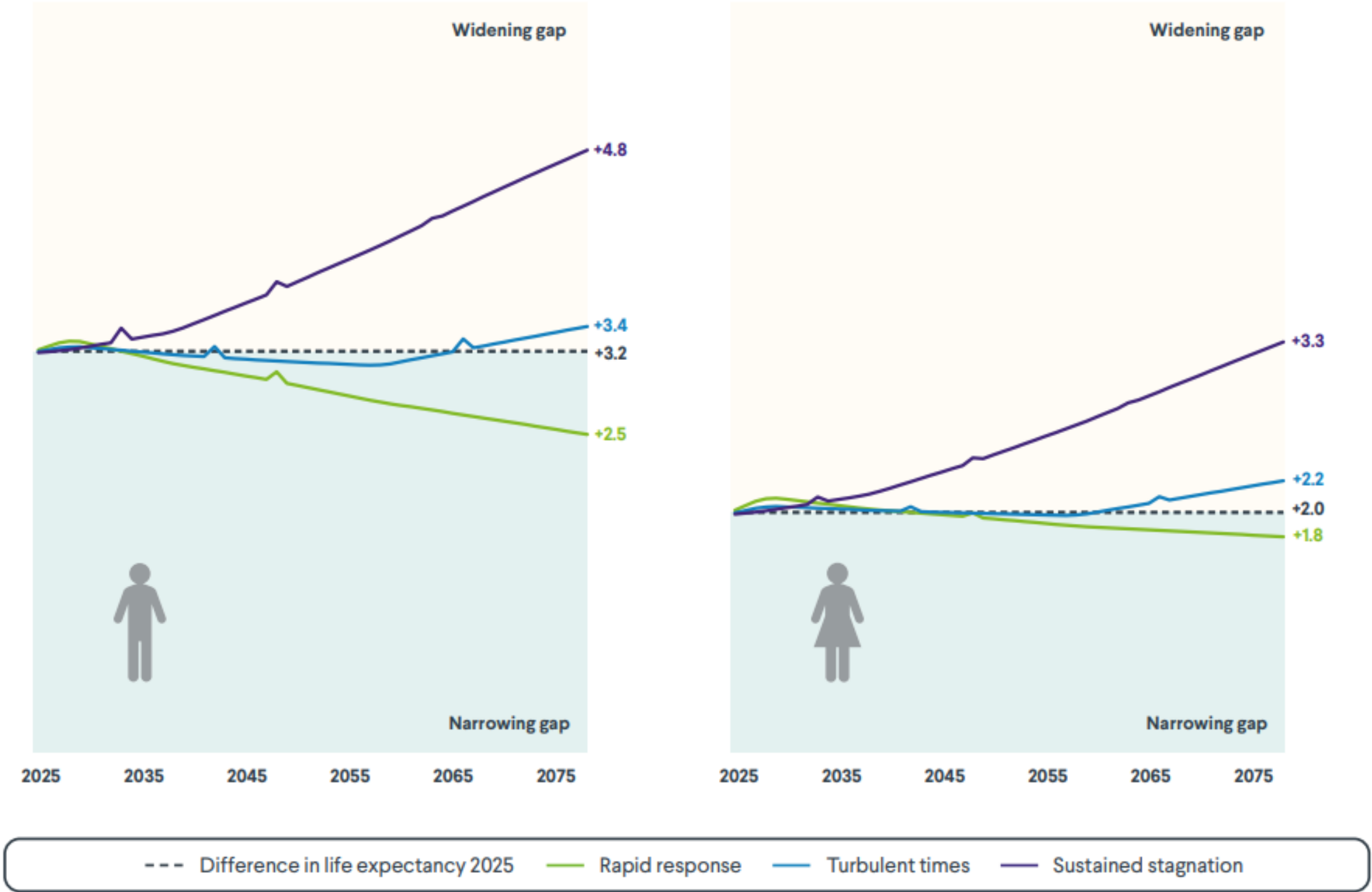


How do impacts vary by socio-economic grouping?

The effects of climate change are not expected to be evenly distributed across society



How do impacts vary by socio-economic group?



What could climate change mean for the future of longevity?

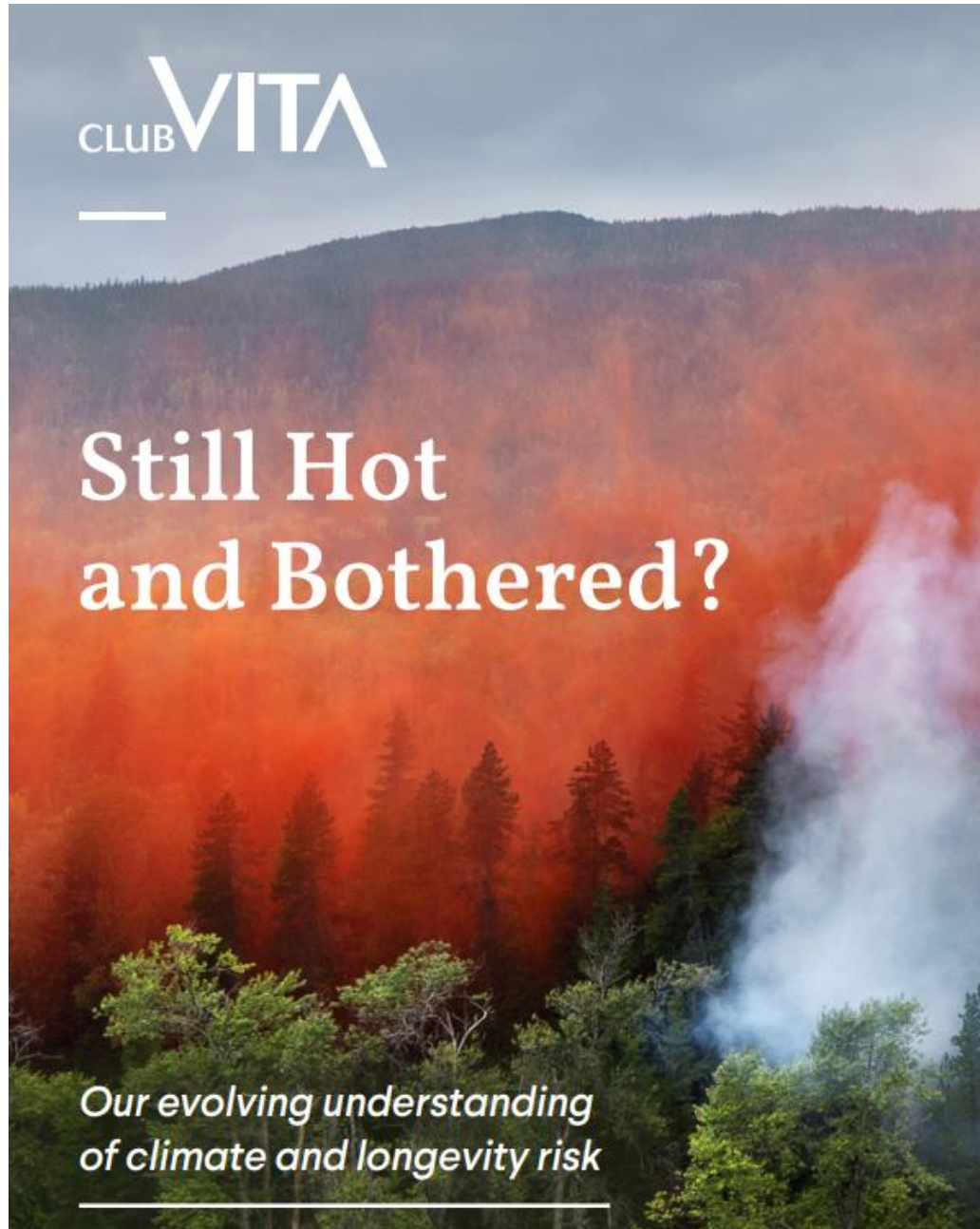


Liability impact

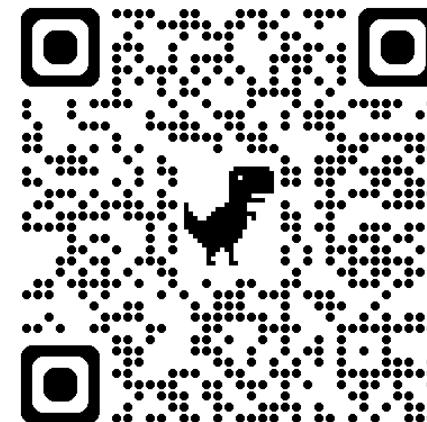
Broad estimates for a typical pension scheme



To wrap up



- Scenario analysis is a useful way to stress test risk management plans.
- Club Vita's scenarios focus on how climate change and resource constraints could affect UK longevity.
- It is important to consider the broader impact of these scenarios on all risks.
- Even in scenarios where longevity assumptions appear favourable, broader economic distress may still result in significant challenges for pension funds and (re)insurers.



Scan the QR code
to download *Still
Hot and Bothered?*

<https://www.clubvita.net/uk/news-and-insights/still-hot-and-bothered>

Q&A

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Thank you

For questions after the event, contact:

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