

Continuous Mortality Investigation

CMI update

Cobus Daneel, Chair of CMI Mortality Projections Committee Matt Fletcher, Chair of CMI SAPS Committee Dave Grimshaw, CMI Secretary

СМІ

CMI

- · Wholly owned by Institute and Faculty of Actuaries
- · Independent executive and management

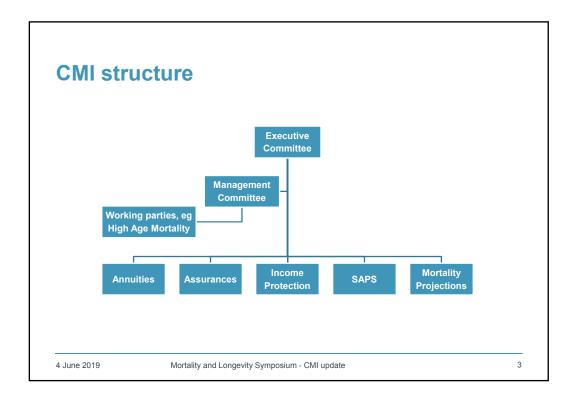
Funded by subscription but free for academics and non-commercial research

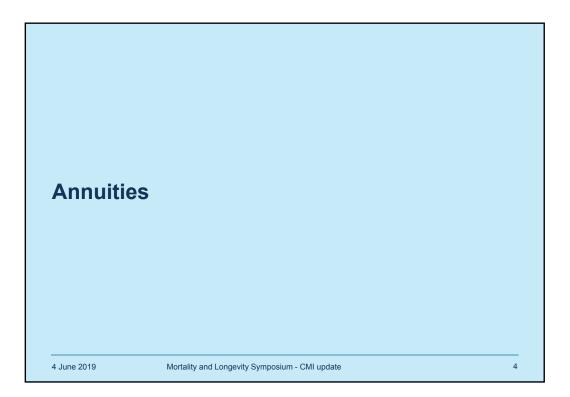
Mission

To produce **high-quality impartial analysis**, **standard tables and models** of mortality and morbidity for long-term insurance products and pension scheme liabilities on behalf of subscribers and, in doing so, to further actuarial understanding.

Our vision is to be regarded across the world as setting the benchmark for the quality, depth and breadth of analysis of industry-wide insurance company and pension scheme experience studies

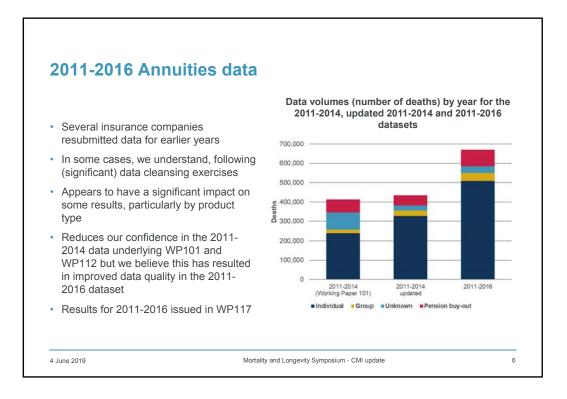
4 June 2019 Mortality and Longevity Symposium - CMI update 2

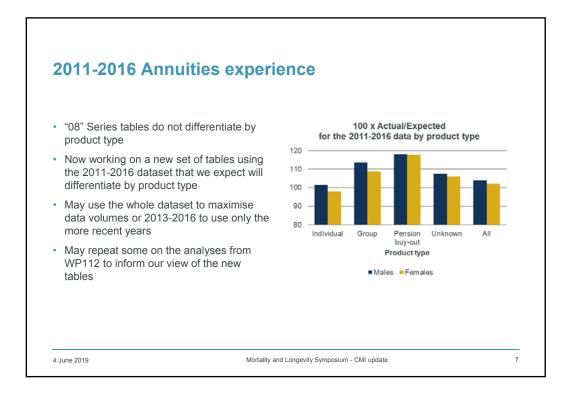


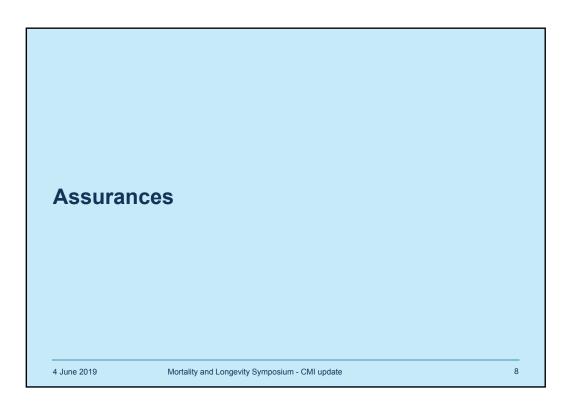


Annuities Committee activity

Date	Activity	
October 2013	Experience report for 2007-2010 (WP70)	_
April 2015	Proposed "08" Series annuitant mortality tables released for consultation (WP78)	
June 2015	Final "08" Series annuitant mortality tables released (WP81)	
December 2015	Experience report for Enhanced Annuities in 2007-2010 (WP87)	
July 2017	Experience report for 2011-2014 (WP101)	
October 2017	Results of survey of data contributors	
Nov 2018	Additional analyses of 2011-2014 data (WP112)	
Feb 2019	Experience report for 2011-2016 (WP117)	
In progress	Trial graduations of 2011-2016 dataset	
4 June 2019	Mortality and Longevity Symposium - CMI update	

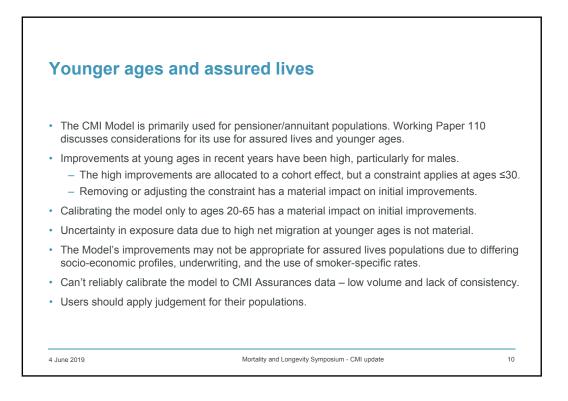


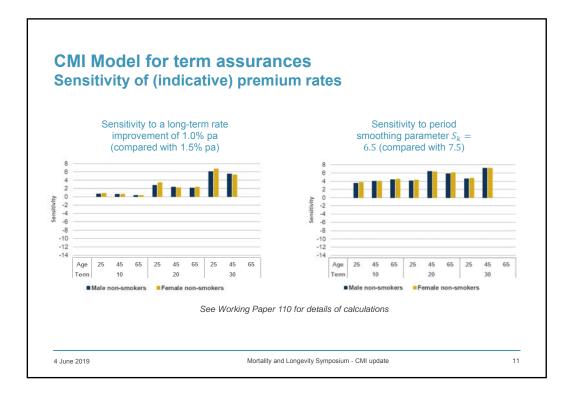


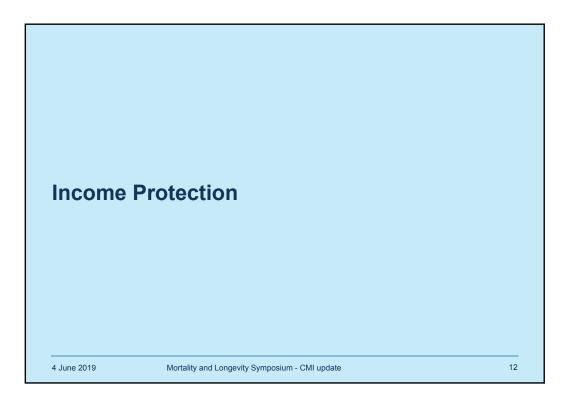


Assurances Committee activity

Date	Activity		
December 2014	Experience report for 2007-2010 (WP75)		
May 2016	Proposed "08" Series accelerated critical illness tables released for consultation (WP89)		
October 2016	Proposed "08" Series term assurance mortality tables released for consultation (WP92)		
January 2017 Final "08" Series accelerated critical illness and term mortality tables released (WF			
June 2018	Experience report for 2011-2015 (WP108) and survey on future data collection / analyses		
October 2018	Using the CMI Model for term assurances (WP110)		
Mid-2019	Experience report for 2011-2017		
4 June 2019	Mortality and Longevity Symposium - CMI update		

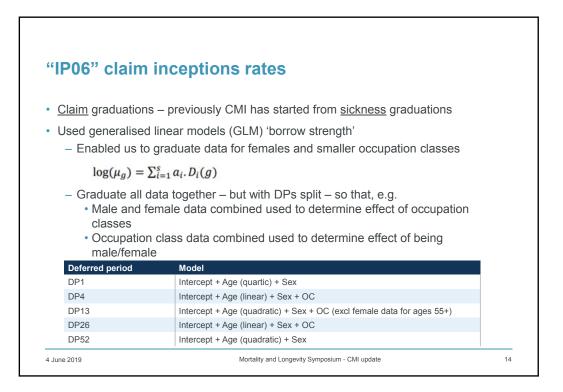


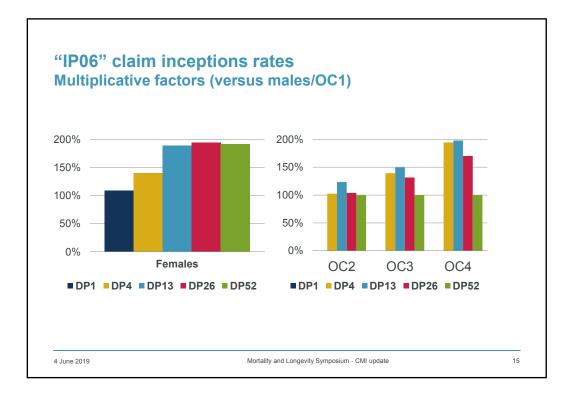


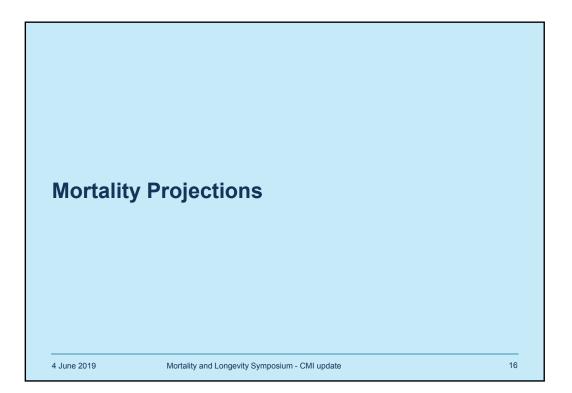


Income Protection Committee activity

Date	Activity	
July 2010	IPM 1991-98 graduations finalised (WP48)	
February 2012	Experience report for 2003-2006 (WP60) Summary statement of revised methodology (WP59)	
April 2014	IP Rate Table Tool released to help practitioners make use of published graduations	
April 2014	Report and database of experience by cause of sickness, 1991-2009 (WP72)	
March 2017	Experience report for 2007-2010 (WP96)	
August 2017	Report on 2003-2010 experience by benefit amount and policy duration (WP102)	
July 2018	Proposed "IP06" claim inceptions rates (WP109)	
Mar 2019	Final "IP06" claim inceptions rates (WP120)	
Late summer 2019	2011-16 experience report	
Spring 2020	New terminations graduations expected to be released for consultation	
June 2019	Mortality and Longevity Symposium - CMI update	1

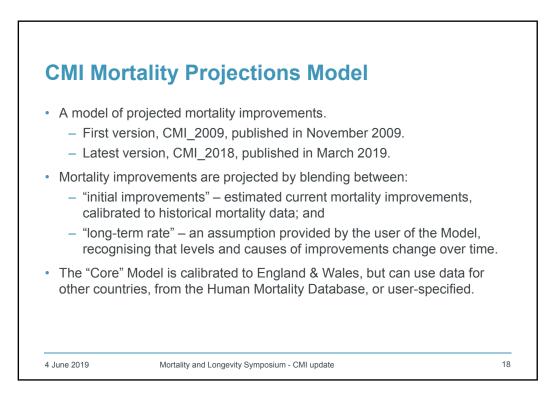


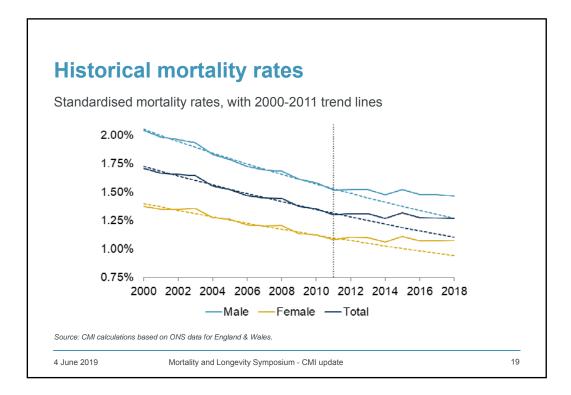


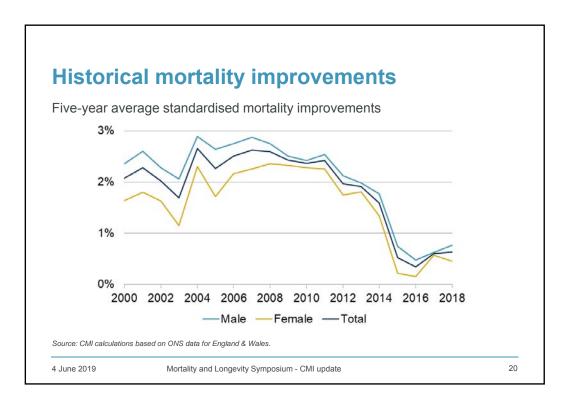


Mortality Projections Committee activity

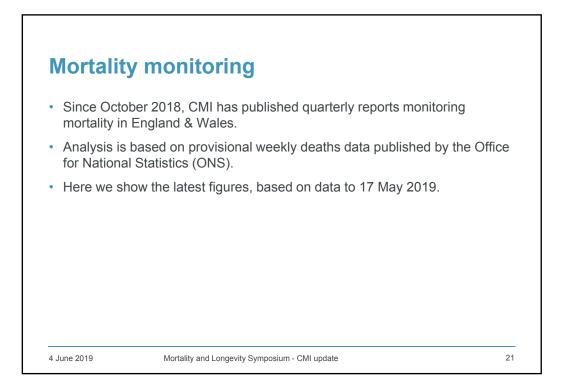
Date	Activity
Nov 2017	Mid-year update working paper (WP103)
March 2018	CMI Mortality Projections Model: CMI_2017 (WP105)
Oct 2018	Regular monitoring of England & Wales population mortality; consultation on proposed methodology (WP111)
Dec 2018	Consultation on the value of the smoothing parameter, S_{κ} , in the Core CMI_2018 model
Dec 2018	Interim update working paper (WP115)
Feb 2019	Confirmation of a change to the value of S_{κ} in Core CMI_2018 (WP116)
Mar 2019	CMI Mortality Projections Model: CMI_2018 (WP119)
Quarterly	Monitoring of England & Wales population mortality
Late 2019	Interim update working paper
Feb/Mar 2020	Publication of CMI_2019
4 June 2019	Mortality and Longevity Symposium - CMI update 17

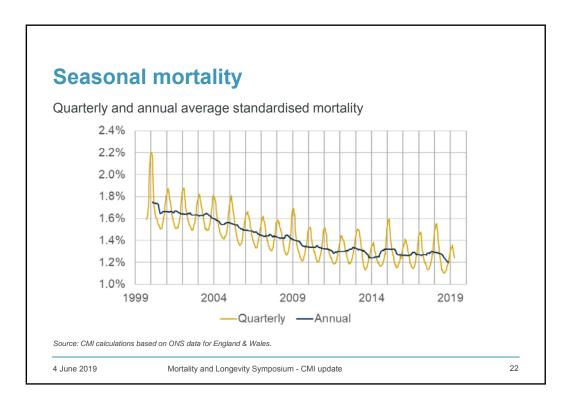


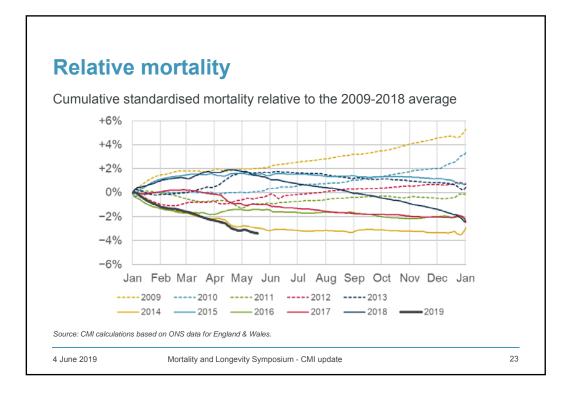


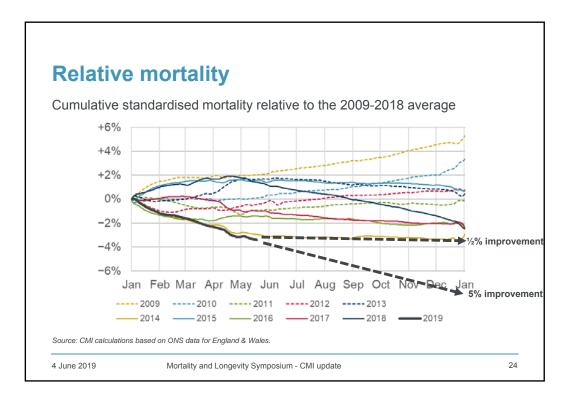


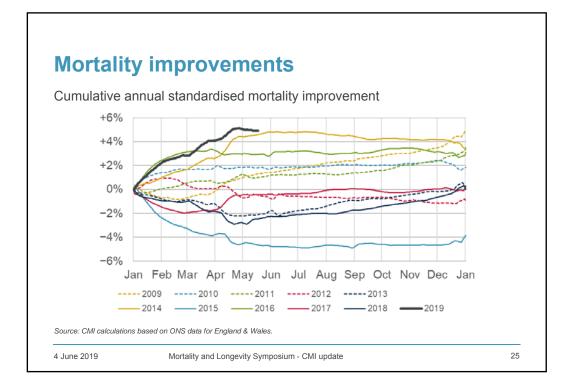
10

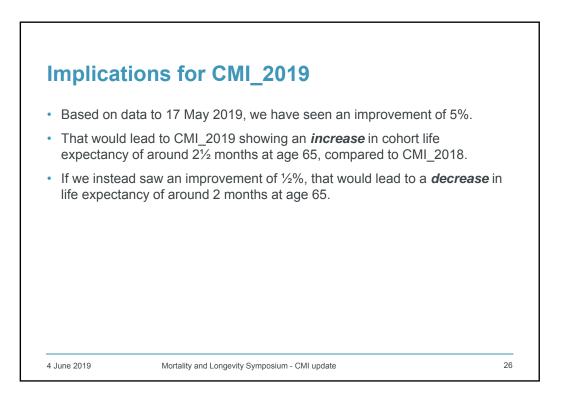


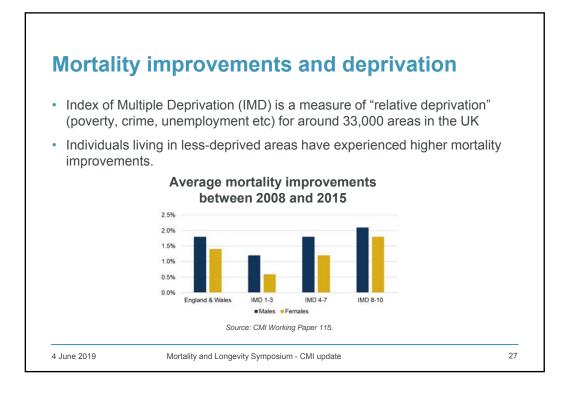


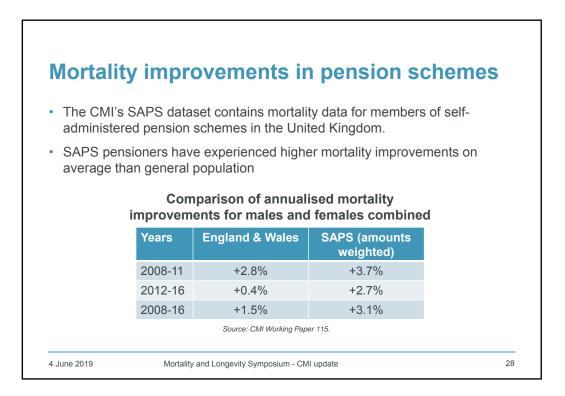


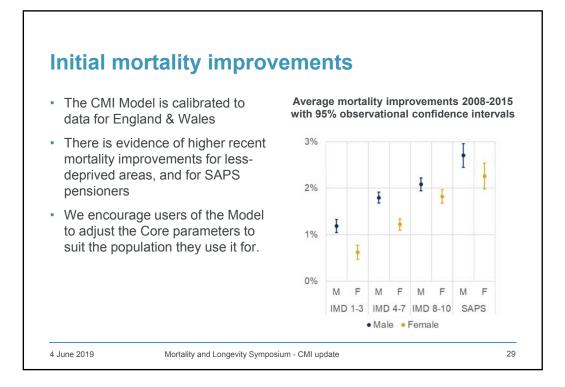


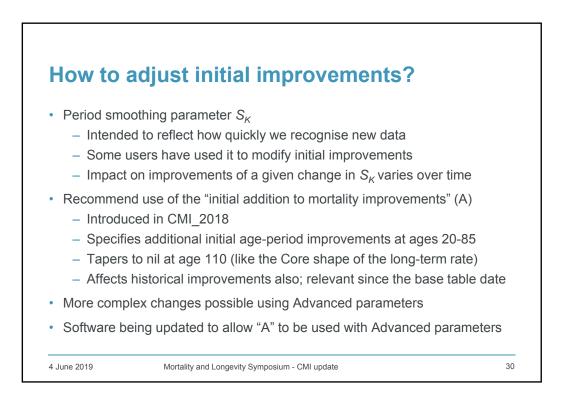


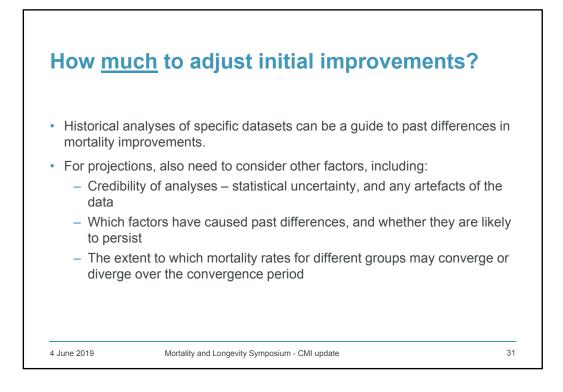


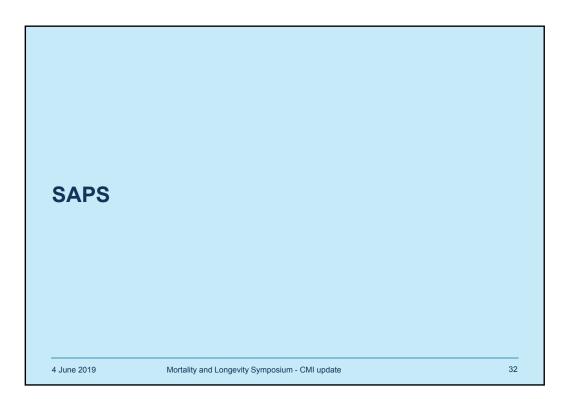






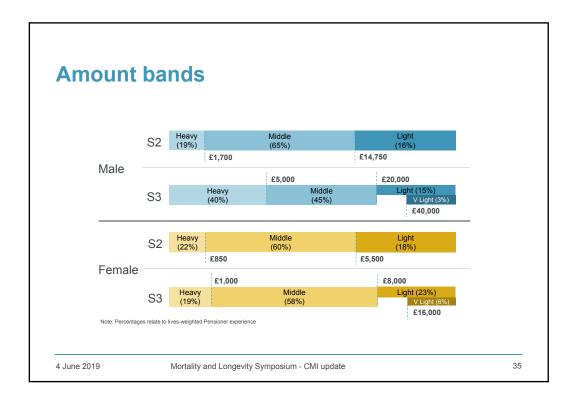


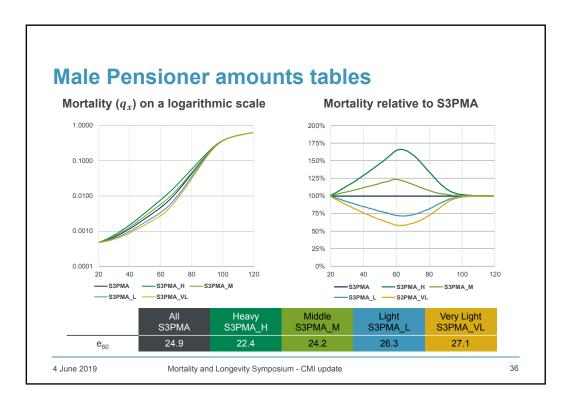




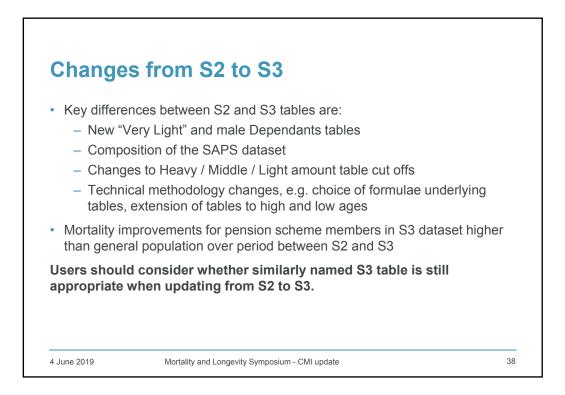
Date	Activity				
Nov 2015	Mortality experience by industry classification of SAPS pensioners for the period 2006-2013 (WP86)				
Feb 2016	Mortality experience of SAPS pensioners for the period 2007-2014 (WP88)				
Feb 2017	Mortality experience of SAPS pensioners for the period 2008-2015 (WP95)				
Jan 2018	Mortality experience of SAPS pensioners for the period 2009-2016 (WP104)				
May 2018	Proposed "S3" Series mortality tables released for consultation (WP107)				
Dec 2018	Final "S3" Series mortality tables (WP113)				
Feb 2019	Mortality experience of SAPS pensioners for the period 2010-2017 (WP118)				
May 2019	Mortality experience by industry classification of SAPS pensioners for the period 2009-2016 (WP121)				

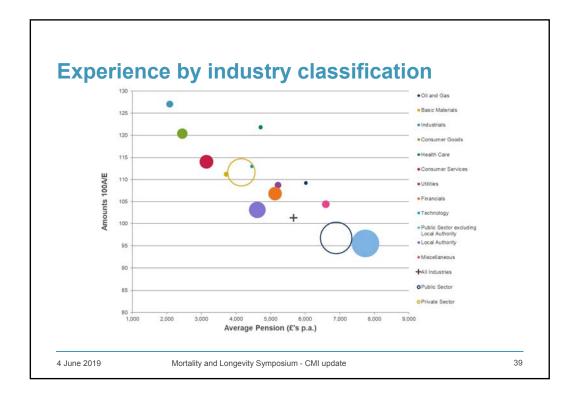
Туре	Gender	Lives	Amounts				
			All	Heavy	Middle	Light	Very Light
Pensioners	Male						NEW
Pensioners	Female				NEW		NEW
Normal health	Male				NEW		NEW
Normal health	Female				NEW	NEW	NEW
III-health	Male						
Ill-health	Female						
Dependants	Male	NEW	NEW				
Dependants	Female					NEW	NEW

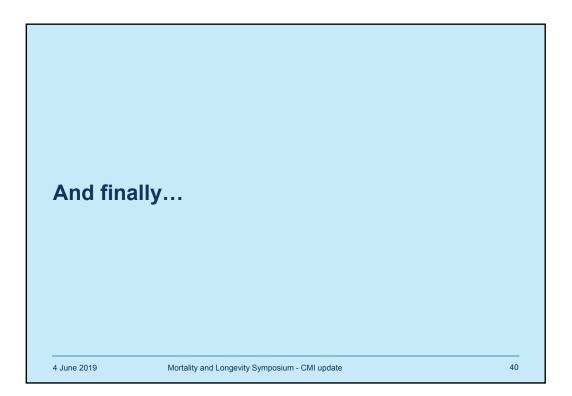


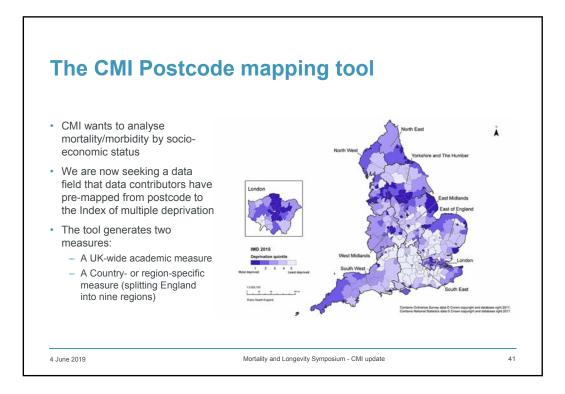


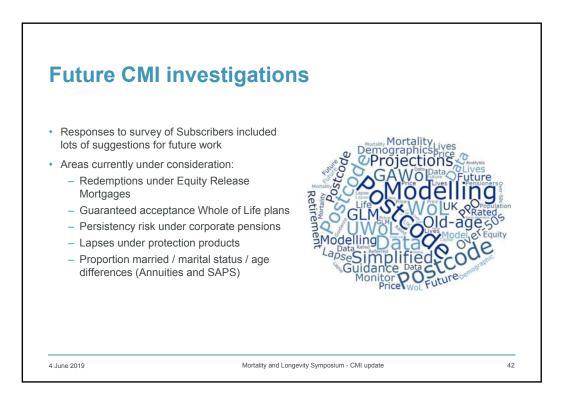
S:	3 tables contained higher propo	rtion of public	sector data than S1 or S
	able shows flat scaling factors fo cluding 95% confidence interva	•	or data relative to S3 tab
		Table	Flat scaling factor
	Male Pensioners amounts	S3PMA	102.4% ± 0.7%
	Male Normal health amounts	S3NMA	104.7% ± 0.9%
	Male Dependants amounts	S3DMA	102.3% ± 3.6%
		S3PFA	109.5% ± 1.3%
	Female Pensioners amounts	SJELA	
	Female Pensioners amounts Female Normal health amounts	S3NFA	112.1% ± 1.7%

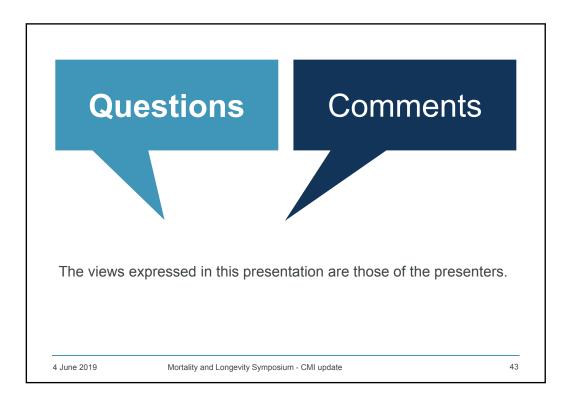


















Formatting your presentation				
Page setup				
·	set to A4 document size. Do not reset the size to any other screen size in the master slides.			
 Titles, headings and 	al and never use type smaller than 10pt sub-headings should be in 'mid blue' (RGB 64/150/184) – appears as 'Aqua' in the palette. py and chart text should always be 'dark grey' (RGB 63/69/72)			
Content stylingA selection of differeDo not use clip art.	nt title slides is offered, all accessible via the layout tab			
Colour palette				
The full colour palett	e is to the left hand side of every slide. Do not use non-palette colours.			
 Note that you can sa Office applications. 	ve this colour palette in PowerPoint (Design/Colors/Create New Theme Colors) and then use	it in other MS		
 Where possible, pas as bitmap if you can 	te graphs as Excel graphs (as opposed e.g. to metafiles) so we can reformat them. Do not pas avoid it.	ste anything in		
Please delete this slic	e after use.			
4 June 2019	Mortality and Longevity Symposium - CMI update	4		

Column title	Column title	Column title	When making tables:	
Cell data	Cell data	Cell data	 The eye follows the pale blue 	
Cell data	Cell data	Cell data	 cells so the direction of the pale 	
Cell data	Cell data	Cell data	 blue cells should match the 	
Cell data	Cell data	Cell data	 direction in which the data will b 	
Column title	Column title	Column title	read	
Cell data	Cell data	Cell data	•	
Cell data	Cell data	Cell data		
Cell data	Cell data	Cell data		
Cell data	Cell data	Cell data		

