

Agenda

- A history of projections and their retrospective accuracy
- FSA's current proposals (CP12/10)
- Responses to CP12/10
- What customers really need to know
- Options to deliver

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• The European horizon

A brief history

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- <1988 current bonus rates (sometimes capped)
- 1988-93 low 8% high 13% (tax-favourable)
- 1994-99 low 6%, high 12%
- 1999+ low 5%, high 9%
- 2013+ low 2% high 8% (proposed)
- CP12/10: PM/F00; low 2%, high 8%
- SMPI: 2003+ growth 7% (max); inflation 2.5%: annuity, real gilt yield +0.5%

Success rate For each year since 1988, we have compared actual returns earned with the illustration rate used: Single premiums with terms 1,5,10 and 20 years Regular premiums with terms 10 and 20 years We also track the projected benefits each year on regular premium 25 year policies and single premium 40 year policies commencing in 1988, 1995 and 1999 Assumptions: Effect of expenses, tax etc ignored Asset mix: 67% FTSE All Share, 33% UK Gilts Rebalanced monthly.

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Single premium policy: illustration success rates									
1									
1 year policy	< lower rate	Within envelope	>higher rate						
1988-1994	32%	25%	43%						
1995-1998	18%	40%	42%						
1999-2004	43%	19%	38%						
2005-2011	44%	21%	35%						
5 year policy	< lower rate	Within envelope	>higher rate						
1988-1994	7%	93%	0%						
1995-1998	42%	48%	10%						
1999-2007	73%	21%	6%						

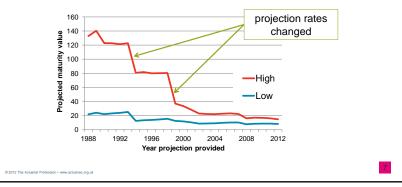
Single premium policy: illustration success rates					
10 year policy	< lower rate	Within envelope	>higher rate		

1988-1994	38%	62%	0%	
1995-1998	100%	0%	0%	
1999-2002	100%	0%	0%	
20 year policy	< lower rate	Within envelope	>higher rate	
1988-1992	100%	0%	0%	
	100%	0%	0%	
	100%	0%	0%	
	100%	0%	0%	

10 year policy	< lower rate	Within envelope	>higher rate
1988-1994	42%	58%	0%
1995-1998	100%	0%	0%
1999-2002	100%	0%	0%
20 year policy	< lower rate	Within envelope	>higher rate
1988-1992	100%	0%	0%

Projection tracking 40 year £1 SP policy written in 1988

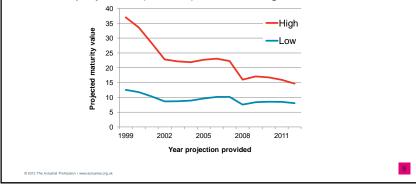
- 1988 projection: Low £22; High £133
- 2012 projection: Low £8; High £14
- CP12/10 (2012): Low £5; High £13.

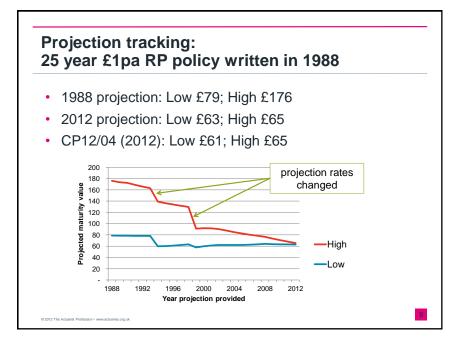


Projection tracking: 40 year £1 SP policy written in 1988

Since the current projection rates came in:

- 1999 projection (5%/9%): Low £13; High £37
- 2012 projection (5%/9%): Low £8; High £14

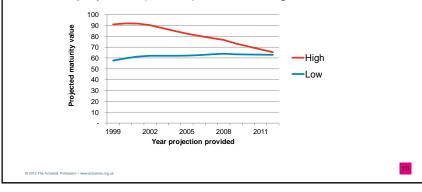


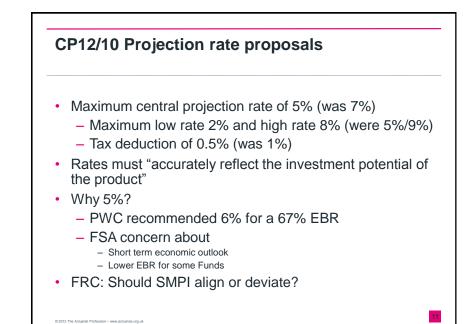




Since the current projection rates came in:

- 1999 projection (5%/9%): Low £58; High £91
- 2012 projection (5%/9%): Low £63; High £65



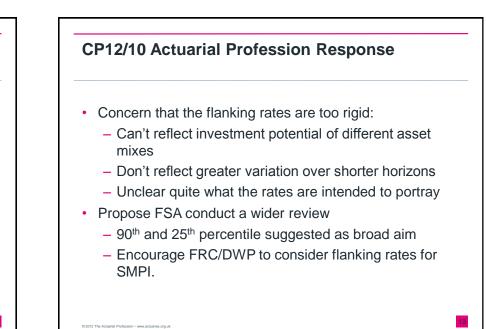


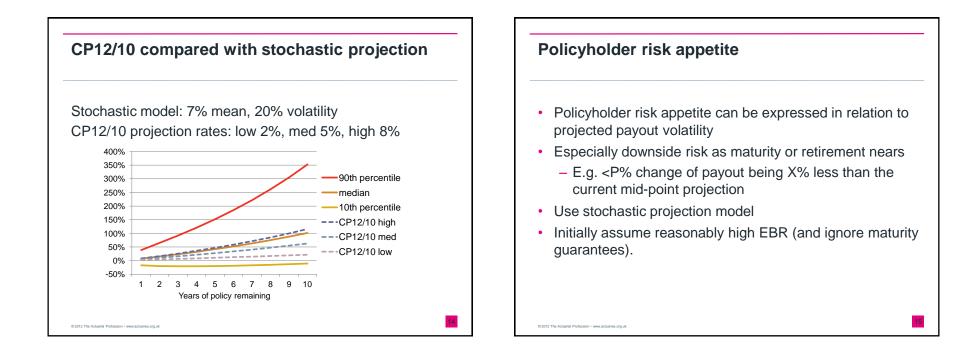
CP12/10 Actuarial Profession Response

- Inconsistency between reflecting investment potential and capping rates based on a reduced EBR fund
- Propose instead:

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- Setting a higher cap based on 100% equity
- Better policing the use of lower rates for other mixes
- Making this an explicit duty of the WPA or WPC
- SMPI ideally would be consistent, but not at 5%.





Policyholder risk exposure Methodology

Model

- Simplistic
- Normal distribution

Assumptions

- 67% Equities with 7% mean return and 20% volatility
- 33% Fixed interest with 4% mean and 3% volatility
- Lifestyling, when invoked, moves in a straight line towards 100% fixed interest

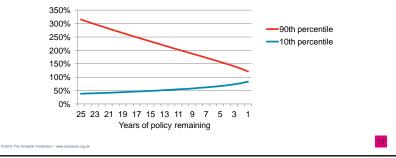
Results

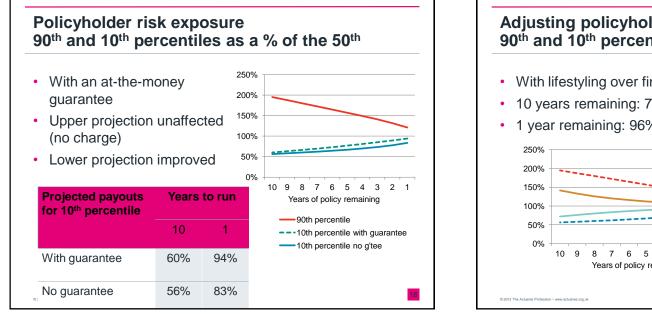
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· Potential payout as a percentage of the median payout.

Policyholder risk exposure 90th and 10th percentiles as a % of the 50th

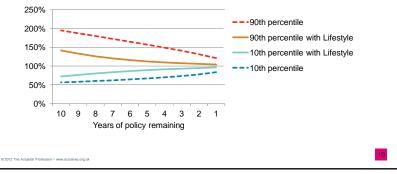
- 25 years to run:
 - 10th percentile projection is 38% of central
 - 90th percentile projection is 315% of central
- With 1 year remaining they are 83% and 121%.







- With lifestyling over final 10 years
- 10 years remaining: 72% and 142%
- 1 year remaining: 96% and 104%



Adjusting policyholder risk exposure 90th and 10th percentiles as a % of the 50th

- Projected downside protection of lifestyling is offset by lower growth.
- Example of a single premium of £100

Projected	ן 10	/ears	1 Year			
payouts	Level	Lifestyling	Level	Lifestyling		
High	£359	£232	£129	£108		
Medium	£184	£164	£106	£104		
Low	£104	£118	£89	£100		

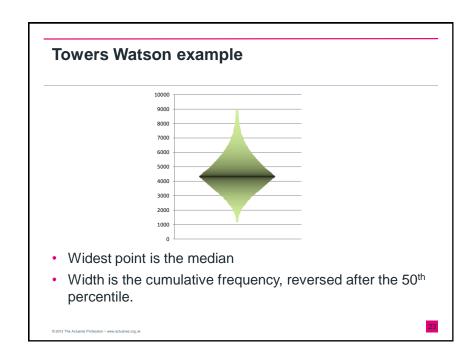
Another example Appetite: 90% chance payout not < current value

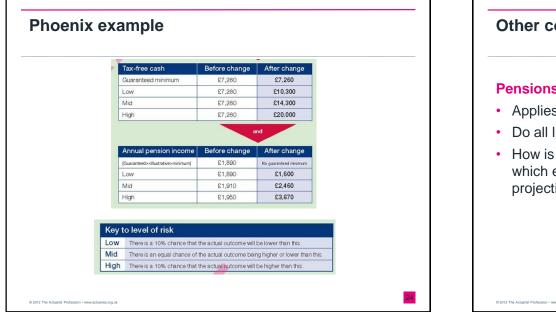
		1	2	3	4	5	6	7	8	9	10
7%	20%	83%	80%	79%	79%	80%	81%	83%	85%	87%	90%
4%	10%	92%	90%	90%	91%	92%	93%	94%	96%	98%	99%
4%	5%	98%	99%	101%	103%	106%	109%	112%	115%	118%	122%
 Possible to mix assets to set a lifestyling strategy matching policyholder risk appetite. 											

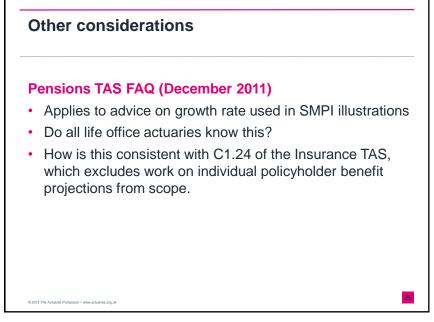
Another example Appetite: 90% chance payout not < current value

- At shorter terms requires lower volatility than FTSE All Share Index
 - Need to shorten term of hypothecated FI stocks
 - Avoid significant default risk exposure
 - But not if funding for pension rather than cash.

	Setting 10 th percentile payout = current value									
	1	2	3	4	5	6	7	8	9	10
Return	4%	4%	4%	4%	5%	5%	6%	6%	7%	7%
Volatility	3%	5%	7%	9%	12%	13%	15%	17%	20%	20%
Av. Ret	4%	4%	4%	4%	4%	4%	5%	5%	5%	5%







Other considerations

PRIPs KID (July 2012)

- Proposed EU regulation on pre-sale information
- PRIPs include investment policies and individual pensions policies
- · Standardised document with sections such as
 - "What might I get when I retire?": projections of possible future outcomes

EIOPA IORP Consultation (11/06)

- Discussed benefit projections and KIDs
- Mixed response.

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Summary

· Opportunity to

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- Define new methods of projecting outcomes
- Improve customer expectation management
- · Care needed to avoid
 - Repeating historic mistakes
 - Understating both positive and negative risk
- Changes across Europe will increasingly influence the UK.

