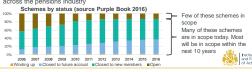
Institute and Faculty of Actuaries	
Mature pension so	chemes – onwards and
forwards	
Summary of the Running Off analysis to date	Mature Schemes Working Party's
Costas Yiasoumi FIA (Chair)	and members of the Working Party
Presentation by Nick Sparks	, Affiliate IFoA, BMO Asset
Management	
30 November 2017	

## Working party's deliverables

- A strategic framework for the management of mature schemes
- The start of an easy reference manual, for future development
- · Identify areas for future focus and recommendations
- A paper, in the form of this slide book, that is easily accessible for all stakeholders across the pensions industry



6 November 2017

### Recommendations (1)

The industry should adopt a standard industry measure or measures of maturity to facilitate communication and analytics

Legislation/regulation should be adapted so as to more easily accommodate the needs of mature schemes

Schemes should develop comprehensive journey plans mapping out their intended

It would be advantageous for there to be a framework for separation of schemes from sponsor employers, in some circumstances

Key industry bodies should identify what skills base and expertise are needed to efficiently service scheme run-offs

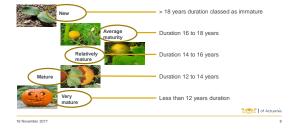
5 (4)	
Recommendations (2)	
Most mature schemes would benefit from having a professional trustee appointed	
Industry standardised member data and benefit formats should be developed	
Schemes should focus resources to lock down their benefits (i.e. data and benefit cleansing)	
Reserving for future expenses should be a norm for mature schemes	
Adoption of the practices highlighted in the slide book may spotlight the benefits of some consolidation and prompt activity, whether that is taking advantage of outsourcers for selected services, master trusts or bulk annuity buyouts	
16 November 2017 4	
Why does it matter?  • Members: Millions of individuals. Maximising the likelihood that their	
benefits are delivered in full is key to meeting the retirement expectations they've worked towards	
Employers: Hundreds of billions of GBP of exposure. Sub-optimal management could impact business activities with a knock on impact in employment creation and the economy	
<ul> <li>Trustees: Unenviable task of overseeing transition of schemes into increasingly mature schemes that, often, have lower margins for error. Require advice and services tailored to these new circumstances</li> </ul>	
Actuaries: A situation in which schemes are on a relentless path to maturing introduces challenges and opportunities. Actuaries well placed to deliver successful outcomes to all stakeholders	
and Faculty   and Faculty   of Actuaries   16 November 2017   5	
What is a mature scheme?	
A scheme where the bulk of the liabilities have already accrued, and that is anticipated to run-off for a number of years.	
Key behavioural characteristics driving scheme management	
1. There is a real end point	
Benefit cashflows are known     Plausible time horizon to which to work towards	
Rey financial and operational risks could be locked down within a decade	
5. Cashflow becomes king	
6. Scheme becomes less relevant to employer  16. November 2017 6.	

- We all know a mature scheme when we see one ... or do we?
- We can all agree how a supermature scheme looks ... or can we?
- There is no right approach, but an approach is better than no approach



16 November 2017

## We selected duration as a measure for maturity



The Working Party assessed 12 different areas of pension practice

Pace of funding	7. Outsourcing
2. Covenant	8. Locking down the benefit liability
3. Contingent assets	9. Bulk annuities
4. Liability management	10. Journey plans

Let's take a look at some of these

5. Cashflow matching (incl. hedging)

Institute and Faculty of Actuarie

11. Employer relationship/governance

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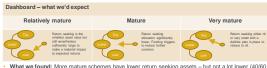


- What we found: Data showed very little correlation between maturity and deficit rectification periods, but that discount rates do reduce
- · In future:
  - A trend towards 'self-sufficiency' or "buyout" TPs
  - More attention to the non-discount rate aspects of the TP assumptions



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#### 6. Asset allocation - introduction



- What we found: More mature schemes have lower return seeking assets but not a lot lower (40/60 vs 60/40)
- · In future:
  - Increased focus on short recovery horizon
  - Increased focus on cashflow matching
- Increased focus on synthetic solutions and liquidity management

#### 7. Outsourcing



- What we found: Increasing take-up of fluciary mgt. 
  What we found: Increasing take-up of fluciary management (460 schemes with "full" version) and c20% of schemes now with professional trustees
- · In future:
  - Member experience philosophy shifts from "excellent service" to "sufficient service"

  - Outsourcing of non-exec operations continues e.g. fiduciary mgt.



#### 8. Locking down the benefits

Dashboard – what we'd expect							
Relatively	mature	Matu	ire	Very mature			
Plan	If data and benefits haven't yet been validated / audited then it is within the scheme's calendar of future activities	Plan	Data and benefits have been validated and audited. However, proportionality will apply so scope may have been restricted	Plan	Data and benefits fully validated including resolving flow to deal with "known unknowing"		

- What we found: No correlation found between maturity and data quality. But an apparent correlation between proximity to de-risking and data quality
- · In future:
  - The norm for mature schemes to have locked down their full detailed benefit provisions and data as a matter of course
  - Industry standards for recording that information will be an ingredient for future "soft" or "hard"

16 November 2017

9. Bulk annuities



- What we found: No data linking maturity with bulk annuity purchase. Anecdotal evidence is that buyout prevalence not strongly linked to maturity
- · In future:
  - Lack of economies of scale will encourage all smaller schemes to aim for buyout or for DB master trusts or other non-insured consolidation vehicles
  - Continued use of bulk annuities and longevity insurance to manage risks

# 10. Journey plans

Dashboard – what we'd expect						
Relatively mature		Matu	ire	Very mature		
Decaded The focus is primarily around managing funding and the pash for de-fisking assets as maturily and funding increases		Parial Parial	Journey plans now also cover operational aspects relevant to run- off and with end game targets now being definite rather than aspirational	Partial Partial	Desaled plans that cover in depth the timing and process for run-off and termination	

- What we found: An increasing prevalence of long term planning but generally focusing on funding / assets rather than true journey planning
- · In future:
  - Clearer articulation of de-risking philosophy
  - More thoughtful choices of target dates
  - Improved understanding of "what will it be like when we arrive?"

2. Exper	nat we'd expect				
Relativel		1	Mature	Very i	mature
Detailed	Focus on expense control commences in	Detailed	Full analysis of future expense reserve	Datailed	Detailed expense reserve including
Ful Partial	conjunction with increased outsourcing of services. Too many future uncertainties for proper reserving	Ful Partial	undertaken. Aligned with scheme journey plan	Ful Partial	reserve including analysis of expense ris Expense mgt. influence journey plan e.g. does bulk annuity now make sense?
<ul> <li>What we foun c11% of TPs for</li> </ul>	d: Remains norm	al to exclude a to 5,000 mem	an expenses reserv	ve in TPs. Yet expen	ises are c3% to
In future:					
			with increasing many es risk e.g. plausible		
	expenses will inf			0 311033	
16 November 2017					
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VISION Meet memb	er henefit exne	ectations as	far as nossible	whilst avoiding	
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1. The run-off p	lan				7
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Example:	<b>Assessing</b>	+ managing	maturity
Matching	behaviours	to metrics	

			Comment		
Pace of funding	Immature	2030	End of recovery plan		
2. Covenant	Mature	N/A	Direct topco covenant already in place		
3. Contingent assets	Immature	2030	Security to buyout level to be added		
4. Liability management	Mature	N/A	Exercise completed 2014. Ongoing program in place		
5. Cashflow matching (including hedging)		Rel mature	2020-25	Derivative overlay covering 70% liabilities	
6. Asset allocation	Immature	2020-25	Current 60% return seeking with de-risk triggers in place		
7. Outsourcing	Mature	2034	TPA in place - viable down to 100 members		
12. Expense management	12. Expense management		2025	Target switch from employer PAYG to a funded reserve	
Metric	Current	Maturity gate	Date at gate	Comment	
Duration	18 yrs	14 yrs	2028		
	267	100	2034	No longer viable below 100 members	
Number of members	% deferred pensioners in TPs 51%				
	51%	25%	2032		
Number of members % deferred pensioners in TPs Covenant	51% CG2	25% CG3	2032 2023	Sponsor in long term decline	

## And finally, some other key observations

- Getting the governance right essential to success
- Covenant a critical, if not the most critical, factor in setting strategy
- Scheme separation an inevitable outcome for many?
- · Expense reserving will result in lots of management actions which would otherwise not have happened
- Consolidation will happen directly (bulk annuities, superfunds etc.) or indirectly (fiduciary management, professional trustees, TPA rationalisation etc.)



16 November 2017

**Questions** Comments

The Working Party is aiming to publish its analysis in 4Q 2017

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  Graham Wardie, Legal & General Investment Mgt.
  John McAleer, Aon Hewitt

- Mike Walsh, Just Nick Sparks, BMO Global Asset Mgt. Nigel Jones, 2020 Trustees and Mitchell Consulting Tim Keogh, independent



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