

### Society of Actuaries in Ireland

### **The New Retirement Saver**

12 October 2015



- Retirement Actuary of the Future Working Party, Discussion Paper presented to Society 2013 (Q4)
- Identification of the likely development of existing and potential roles for future "Retirement Actuaries"
- Identification of the skills and competencies that will be needed in order to continue to play a key role in future retirement planning
- Our focus for this evening is on the future "DC World"



### Possible Key Roles for Actuaries

# **Potential Roles – DC Services**

Large Size of Role	Wealth management advice to individuals	<ul> <li>Investment solutions</li> <li>Guarantees</li> </ul>	Retirement products
	<ul> <li>Retirement education and awareness</li> <li>Work-force management</li> <li>Employer advice/consulting</li> </ul>	Communication of DC benefit/outcome	
Small	Coverage advice and IORPs monitoring	<ul> <li>Advisory software</li> <li>Government advice</li> <li>DC scheme consolidation</li> </ul>	



4. Opportunities will exist for actuaries to develop retirement solutions for members retiring from DC schemes with "un-defined benefits". Potentially leading to be a blurring of practice areas (between Pension and Life Actuaries) in the post-retirement market as "pension challenges" inter-mingle with "insurance solutions". This could create a "retirement actuary" sub-practice area.

#### Recommendation 5

Pension Actuaries need to consider up-skilling in Life Insurance techniques that impact on post-retirement product design.

Recommendation 6

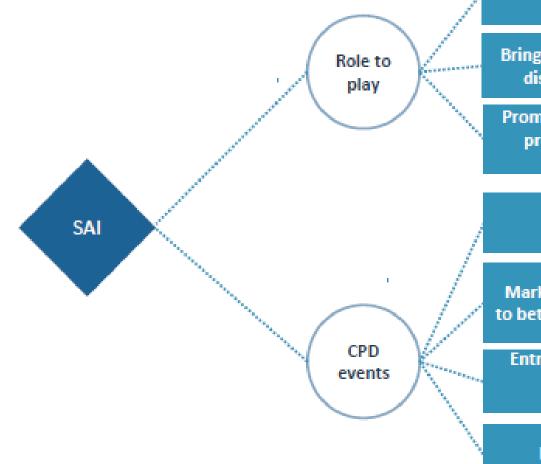
The SAI has a role to play in bringing Pension and Life Actuaries together in discussions on post-retirement issues.

Recommendation 7

The SAI should consider holding CPD events that introduce Pensions Actuaries to "relevant" technical insurance issues that impact the retirement market.



### **Recommendations - Role of the Society**



Establish a committee or group to enact recommendations from this report.

Bring Pension and Life Actuaries together in discussions on post-retirement issues.

Promote the value that actuaries can add in providing financial wealth planning to individuals

Pension specific insurance topics

Marketing/ research skills that can be used to better understand the needs of individuals

Entrepreneurial skills – starting their own business, sales skills etc.

Pension specific investment topics



- The Irish State Pension payable from 66/67/68
- Approximately 33% of the average industrial wage quite high adequacy compared to UK
- Other benefits which are provided based on age include Free Travel, Household Benefits, Tax and USC Relief, The Fair Deal Scheme
- Sustainability of State Benefits OECD, SAI, MMGI
- No Mandatory Pillar, yet



- Retirement Saving/Investing World is changed
- Uncertainty and Flexibility Opportunity?
- Universal Pension Provision
- Today's speakers will look at the requirements of DC Members from the Demand Side and retirement products available from the Supply Side



Demand from	Demand for?	Supply Side
Investor/Advisor	Investment Guarantee/ Income Underpin/ Retirement Flexibility/Match Spending Pattern	Insurance Companies/ Investment Banks/Other Investors
Saver/Investor/State	Transparency/ Certainty Fund Secure/Perceived Value	Insurance Companies

• Matching Customer Needs/Wants with Product Design



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### This generation of pension savers

12 October 2015



• Pensions in Ireland today

Some retirement scenarios

• Possible options

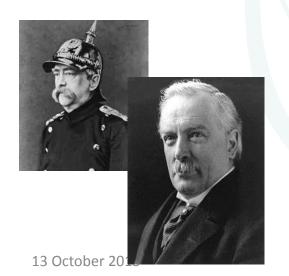
Disclaimer:

The material, content and views in the following presentation are those of the presenter(s).

### History of pensions

- Ireland
  - Brehon laws: legal responsibility on the kin group to take care of its members
- Germany
  - 1645: widow's fund for clergy
- US
  - 1780s: promises made to veterans of the Revolutionary War





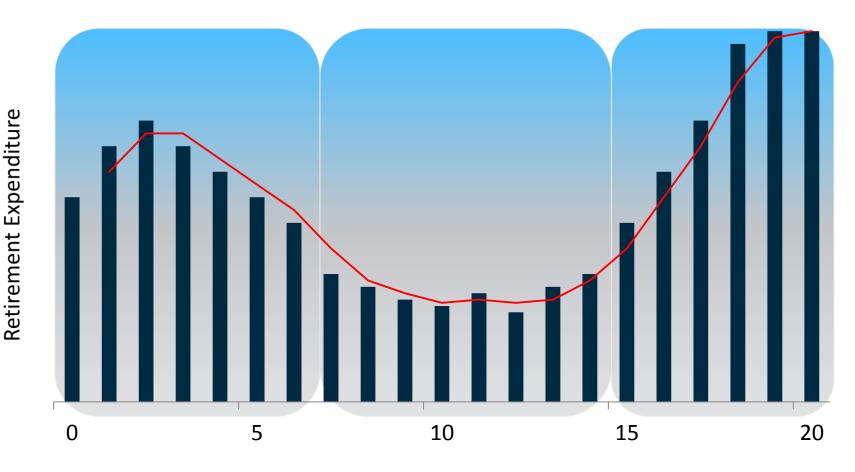
- Public Pensions
  - 1889: Old age pension introduced by Bismarck in Germany
  - 1908: Old age pension introduced in UK
- Introduction of defined benefit
  - Passing responsibility for retirement to employers

### What do today's retirees need?





## Spending patterns in retirement



Years since retirement

13 October 2015

# What about the State Pension?

- State pension
  - Defined benefit
  - Payable from age 68 from 2028
  - Ranked 2<sup>nd</sup> for adequacy \*
    - But 23<sup>rd</sup> (out of 25) for sustainability
- Projecting contributions & benefits to 2066, aggregate deficit is €324 billion \*\*
  - nearly double the value of the national debt.

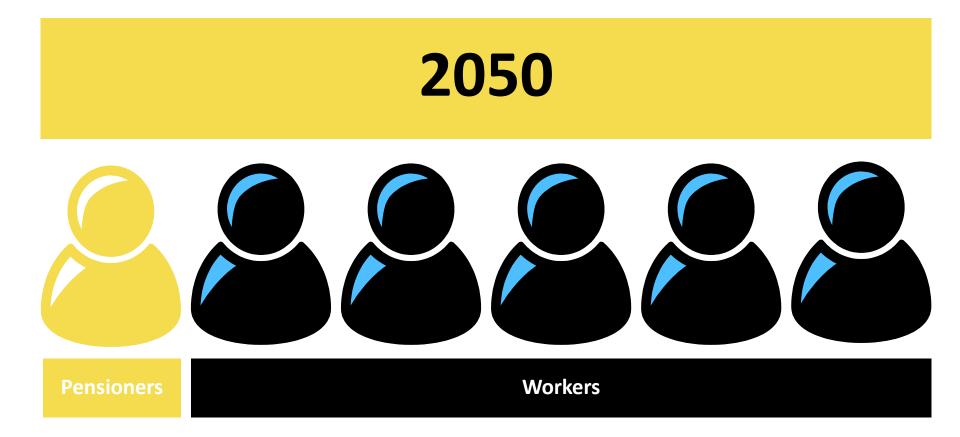
\* Source: Mercer Melbourne Global Pension Index

\*\* Source: Actuarial Review of the Social Insurance Fund, Undertaken by KPMG on behalf of the Department of Social Protection, June 2012

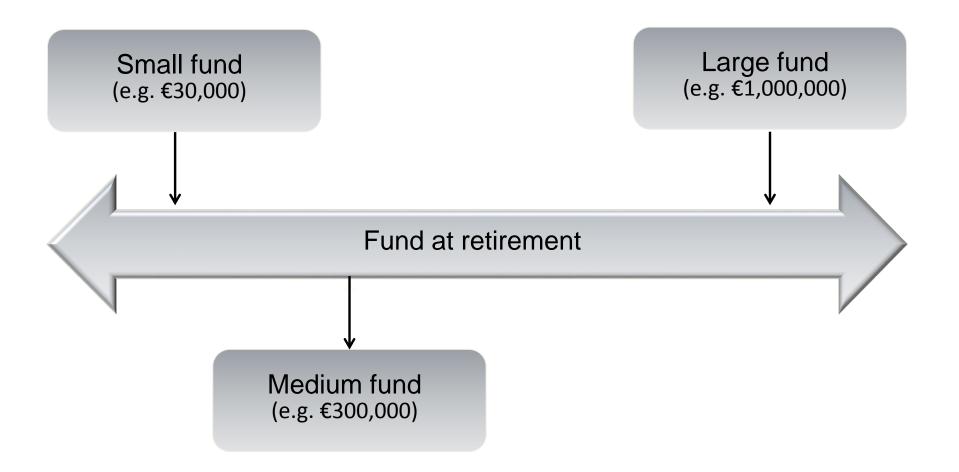
### What about the State Pension?



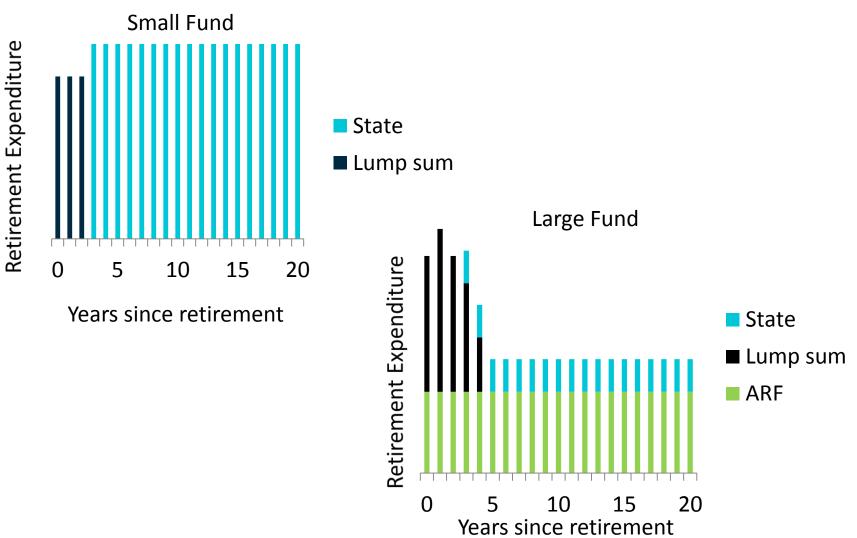
### What about the State Pension?



## **Retirement scenarios**



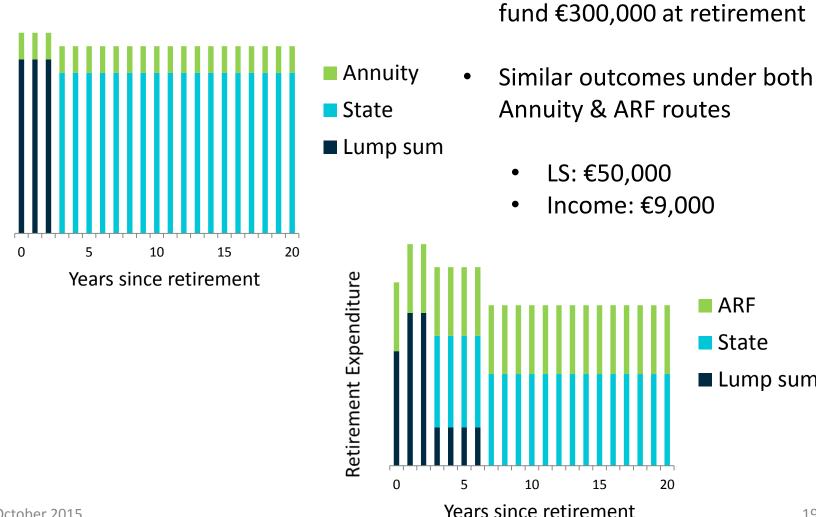
# **Retirement options**



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Assume Salary €50,000 &



Retirement Expenditure

ARF

20

State

Lump sum

# **Retirement options**

	Advantages	Disadvantages
Lump sum plus annuity	Income security	Cost of guarantee
Lump sum plus ARF	Flexible income	Managing money in later life
	Inheritance	Could run out without discipline

#### Role for actuaries in the DC space

# What do members need?

### Saver

- Communication & education
- Auto-enrolment
- Mandatory minimum contributions
- Auto-escalating contributions

### Investor

- Communication & education
- White-labelling
- Sophisticated default strategy

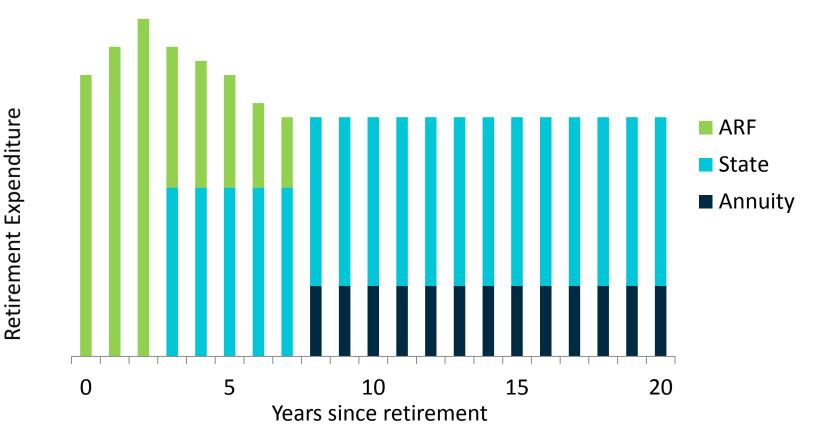


# What do retirees need?

Retirement Expenditure

# What do retirees need?

ARF + Annuity



# What do retirees need?

- Longevity pooling
  - Providing some protection against longevity under ARF route

• Variable annuity

- Mixing the qualities of ARFs & annuities

# Wrap up

- Greater responsibility on individual to provide for retirement
- New savers need to have a different mindset to previous generation
- Where to actuaries fit in?
  - Understanding the challenge
  - Encouraging saving
  - Design retirement products
  - Providing advice



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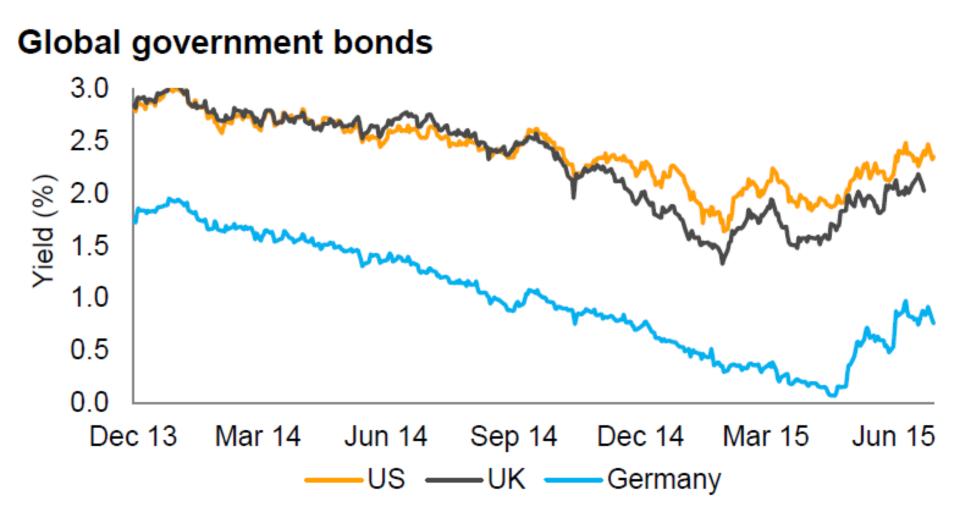
# Guarantees in a low yield environment

### Eoin Kennedy, October 2015



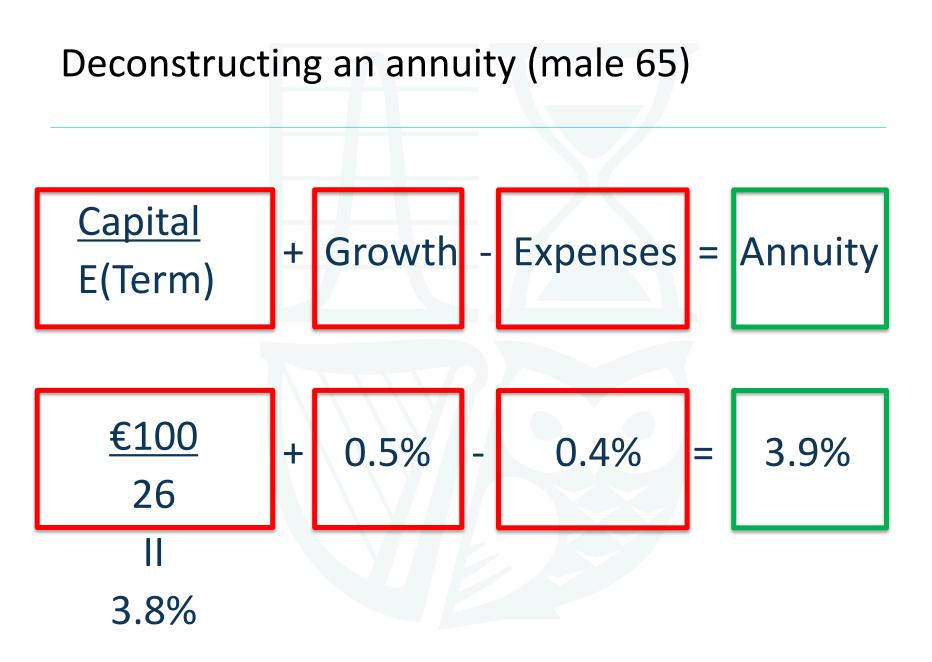
- Current annuity pricing (in brief)
- Capital guarantees and annuity variations
- Challenges and opportunities







- People are living longer
- Bond yields are extremely low
- Many of the same issues as DB!





#### • Pre-retirement – guaranteed funds

• At retirement – end of life & temporary annuities



- Capital isn't the issue; market cost is
- Everything is marked-to-market
- Life companies don't write investment guarantees
- Guaranteed business is now "unit linked"

\* To provide the 95% capital protection at the end of the initial investment period (on 11 May 2021), New Ireland Assurance Company plc trading as Bank of Ireland Life (Bank of Ireland Life) holds a deposit with Bank of Ireland. Bank of Ireland Life is committed to passing on to you, the policyholder, the amounts received from Bank of Ireland on that date. If, for any reason, Bank of Ireland Life is not repaid its deposit in part or in full on 11 May 2021, you may not receive back some or all of the amount invested.



Policyholder capital is invested as follows:

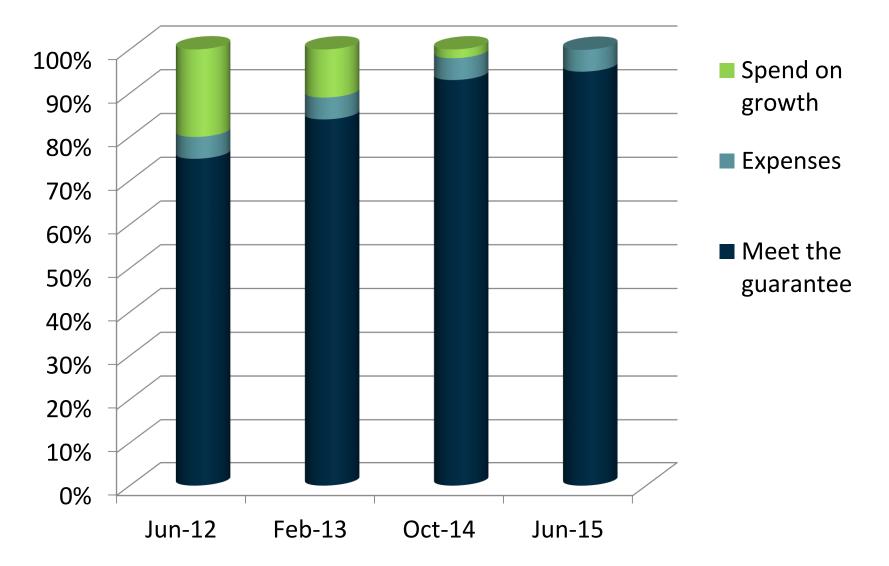
#### 1. Meet the guarantee

Invest enough in a non-risk asset

- 2. Take a fee
- **3. Generate growth with what's left** Invest in a risky asset, typically an equity option



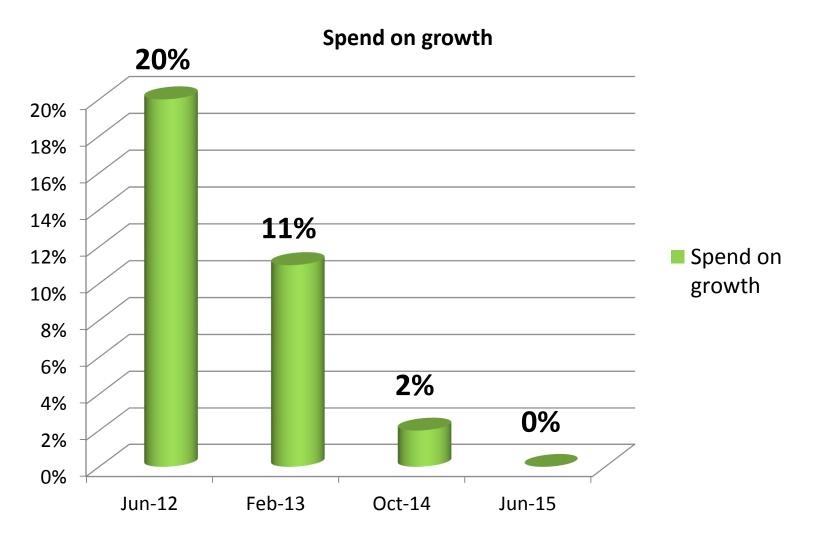
### Irish guarantees in recent years



Based on a 5 year term, 100% guarantee, 5% up front fee, Irish commercial deposit rates



### Irish guarantees in recent years



Based on a 5 year term, 100% guarantee, 5% up front fee, Irish commercial deposit rates



- Extend the term
- Go to <100% guarantee
- Take (i.e. give customers) more counterparty risk
- Encourage / educate customers to take more risk
- Leave customers on deposit



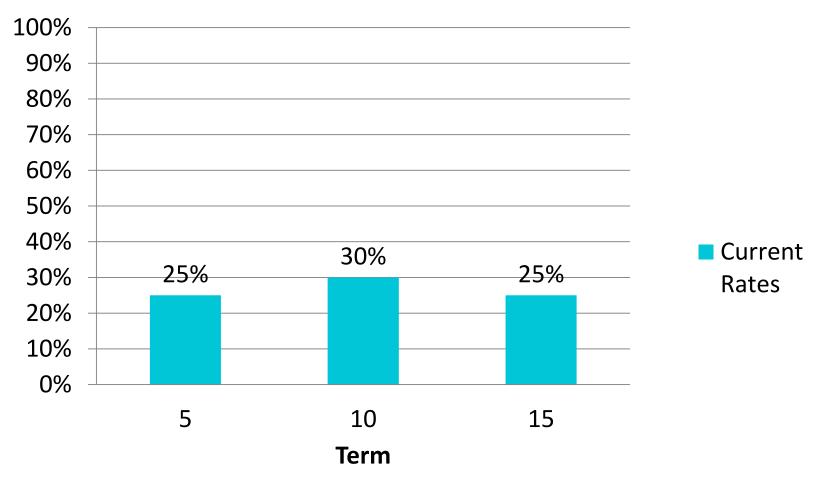
### The product:

- No allowance for expenses
- Fixed term
- Total Return indices (i.e. includes dividends)
- Straight participation in an equity index
- Return of **100% of capital** plus growth



## Sample pricing – guaranteed fund for pensions

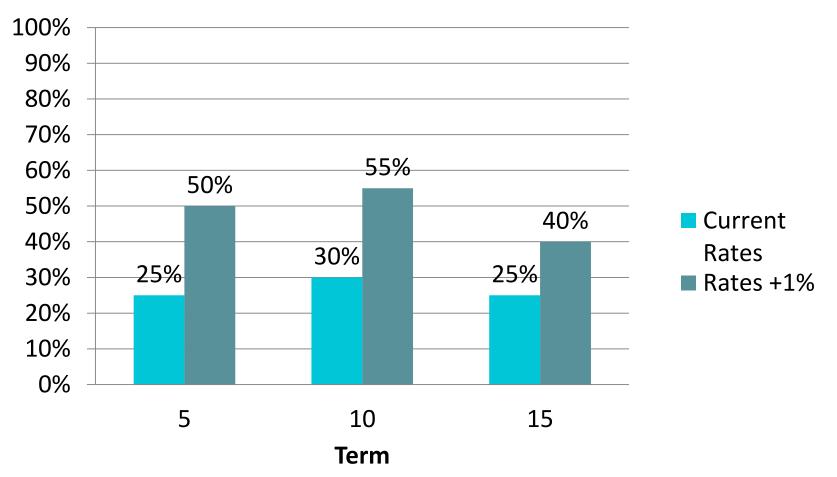
#### **Participation Rates**





Things might improve...

#### **Participation Rates**





- Pre-retirement guaranteed funds
- At retirement end of life & temporary annuities



- Part of the retirement pot set aside for very old age
- Costs should be reduced because of:
  - Mortality on the cohort during the deferred period
  - Investment return on the capital during the deferred period
  - Reduced life expectancy at the end of the deferred period



Age now	Dela peri		Current pricing	
	65	0	€250,000	
	65	15	€105,000	
	65	20	€70,000	



Age now		Delay period			Discount at yields +1%
	65		0	€250,000	15%
	65		15	€105,000	20%
	65		20	€70,000	25%



- Spend, spend, spend!
- That's about it.



Age now		Term	Current pricing	
	65	Forever	€250,000	
	65	10	€100,000	
	65	15	€145,000	



Age now		Term		Discount at yields +1%
	65	Forever	€250,000	15%
	65	10	€100,000	5%
	65	15	€145,000	10%



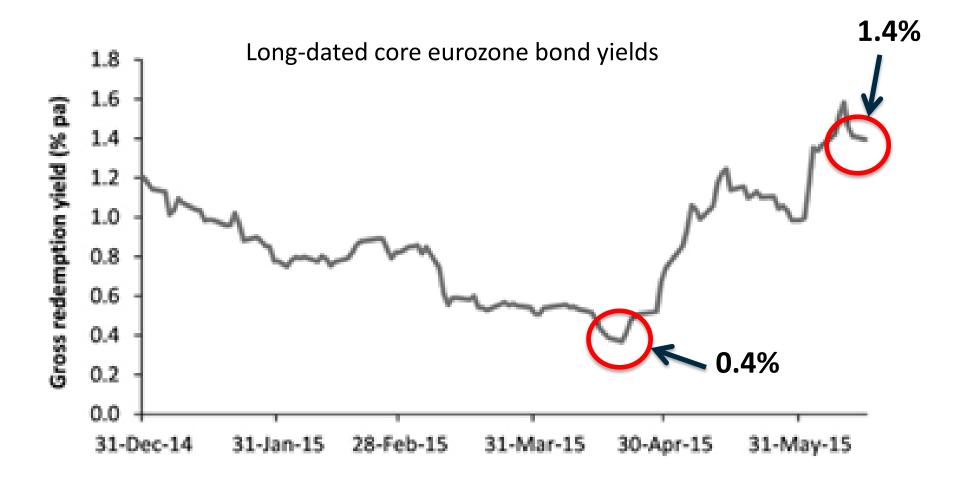
- Regular premiums hard to create guaranteed product
- Very long term put options not much of a market
- Lack of inflation-proofing
- Locking in to low yields
- Is there enough demand?



- Rolling guarantees
- CPPI
- Variable annuities
- Lifestyling / auto-switching (pre or post retirement)



## Things might get better...





- In a very low interest rate / inflation environment, all guarantees are expensive
- Generally customers must either:
  - Accept very low but certain returns
  - Take some risk in pursuit of higher returns
- There is some scope for innovation...
- ... but now might not be the right time



- Existing and New DC population Guarantee attraction?
- Dissatisfaction with "giving funds away" at retirement Temporary/Deferred/Variable Annuity alternative?
- Future DC World more discerning customer
- Future State Pension DC World highly sensitive to this



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# **QUESTIONS?**