

Society of Actuaries in Ireland

Actuarial Careers & Hot Topics

21st February 2017

Disclaimer

The views expressed in this presentation are those of the presenter(s) and not necessarily

of the Society of Actuaries in Ireland



- The governing body for actuaries in Ireland
 - Develop the role and standing of profession in Ireland
 - Support actuaries throughout their careers
 - Enforce standards of practice/regulate actuaries

- Small profession circa 860 Fellows & 620 Student Members
 - Everyone knows everyone!



- Not an examining body
 - Students do exams of the UK's Institute and Faculty of Actuaries
- The Society does represent students in Ireland
 - Liaise with IFoA to discuss student needs and exams
 - Representatives on IFoA student forums



- Student Society
 - Organises social events for students
- New student seminar every September
 - Make sure you come when you start full time
- Guide for new students
 - Published on SAI website
 - Irish perspective guide to registering for and taking exams
- Join when you can



Agenda

6.30pm – 7.30pm:

- Life & Health Insurance Ronan Judge
- General Insurance Jennifer Keegan
- Pensions & Investments John Moran
- Wider Fields Rachel Lynch

7.30pm – drinks reception next door



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Current Topics Life & Health Insurance

Ronan Judge

Agenda

- Life Overview
 - Market Update and Developments
- Health Overview
 - Market Update and Developments
- Working in Life Insurance

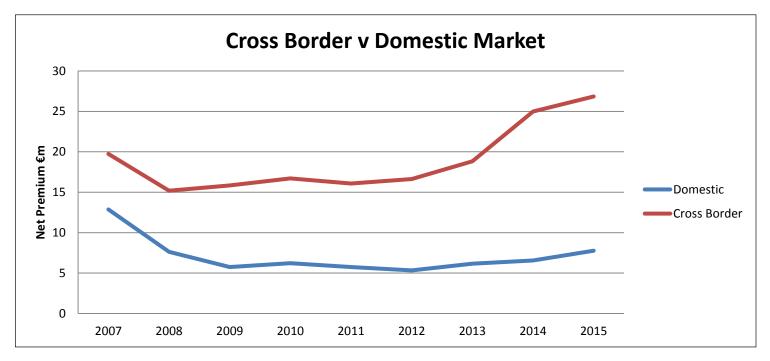
Life Overview

- Domestic market c.16 life companies
- Cross-border market
 - c.57 life companies

Including: Aegon, Allianz, AXA, Generali, IntesaSanpaolo,
 MetLife, SEB, Standard Life International, ... Zurich

- c.110 reinsurance companies and SPVs (includes non-life)

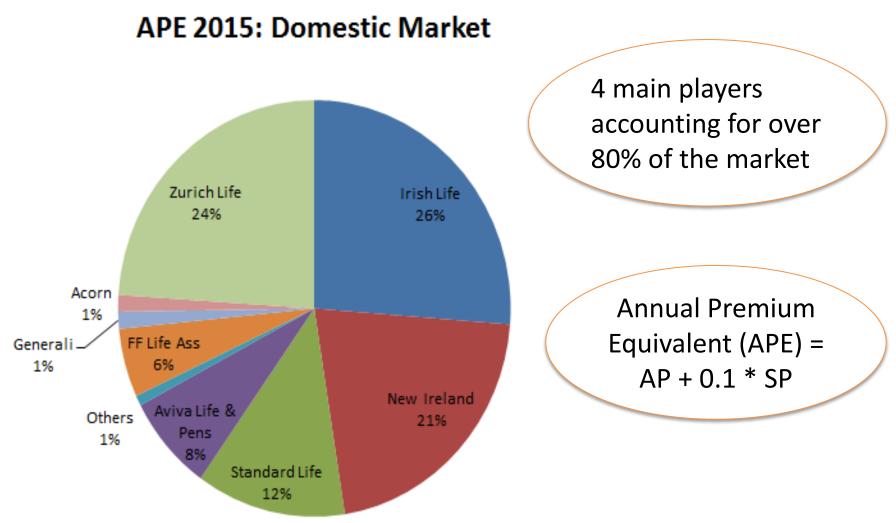
Growth of our Life Insurance Market



Source: CBI Blue Book 2015

- Note the recent growth in both domestic and cross border markets
- Cross-border market growth lead to a 9 year high in 2014
- 2013 2015 saw over 25% growth in the domestic market and over 40% in cross-border market

Domestic Life Market

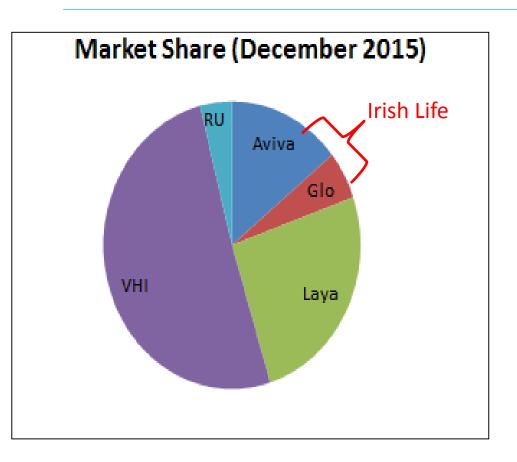


Source: CBI Blue Book

Domestic Life Market Developments



Domestic Health Market



RU = restricted undertakings, health cover for particular groups e.g ESB

Market Evolution

- VHI original statutory body
- Laya (then Quinn) joined in 90s ending monopoly
- Aviva (now Irish Life) entered in 2004
- GloHealth (now Irish Life) entered in 2012

Developments & Partnerships

- VHI a regulated entity since July 2015
- Laya taken over by AIG in Jan 2015
- Irish Life bought Aviva and GloHealth in 2016.

Private Health Insurance (PHI)

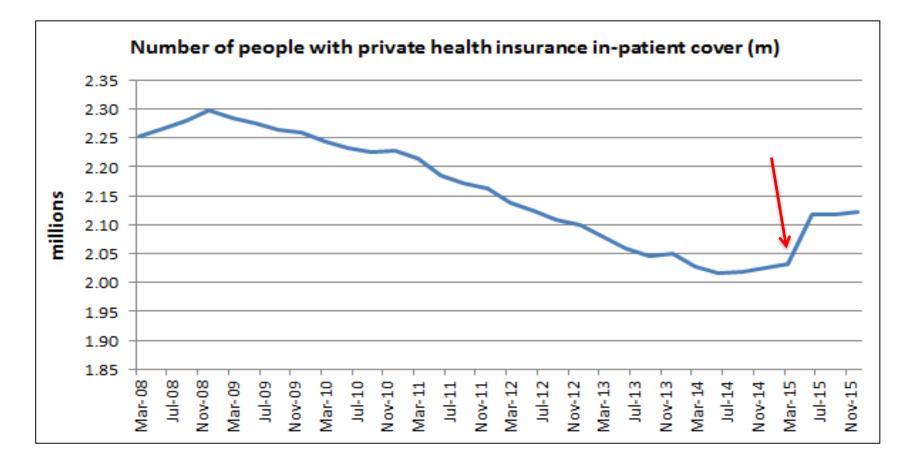
Community Rating

- ensures that health insurance is available to all at an affordable cost
 Risk Equalisation
- aims to ensure the claims cost of high-risk members are evenly shared between all insurers in the market

Lifetime Community Rating

- From May 1st 2015, those over age 34 when first taking out insurance will pay a premium loading of 2% for every year of age beyond 34
- Introduced lifetime community rating to incentivise younger customers to take out health insurance

PHI – Lifetime Community Rating

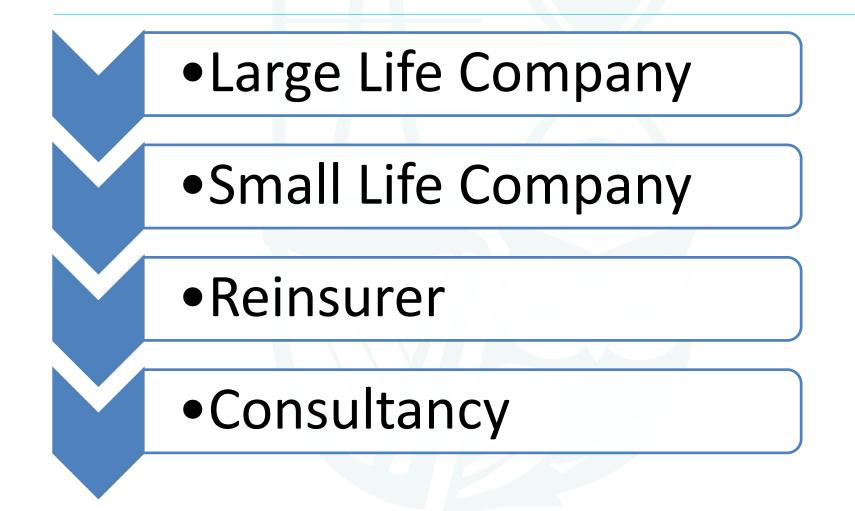


• Spike in numbers with health insurance at May 2015

Working in Life Insurance

• What's it like?

Life Insurance – Types of Jobs



Life Insurance – Different Areas

- Reporting
 - Data, setting assumptions, running models, analyse changes, reporting

- Pricing
 - Market analysis, update pricing models, profit analysis, product documentation

What's it like?

- Working in Excel
- Modelling Software (Prophet/MoSes/MG-Alfa)
- Cash flow models
- Not all mortality tables
- Most jobs are in the Life Insurance sector
- Practical solutions & problem solving

Life as a Consultant

- A lot more variety
 - Working for several different companies
 - Reporting & Pricing work
 - Project work
 - M&A experience
- Longer hours, more demands

Practical Tips

- 1. Read the job specs
- 2. Try get some insider knowledge before applying
- 3. Focus on qualification
- 4. Consider changing job
- 5. Build your experience
- 6. Think of the "long term"
- 7. Have a nice working environment



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What does a General Insurance actuary do?

Jennifer Keegan

Objectives of the session

- What does a GI actuary do?
- Recent non-life market developments



Broad GI practice areas

- Pricing
 - Generalized Linear Models (GLMs)
- Reserving
 - Run-off Triangles
- Capital Modelling

Accident Year	Age						
	1	2	3	4	5	6	7
1	357848	1124788	1735300	2218270	2745596	3319994	3466346
2	352118	1236139	2170033	3353322	3799067	4120063	
3	290507	1292306	2218525	3235179	3085995		
4	316080	1418858	2195047	3757447			
5	443160	1136350	2128333	1.1			
6	396132	1333217					
7	440832						

Run-off triangle (accumulated figure)

- Modelling internal economic capital
- Risk
 - Identifying, measuring and controlling risk

What does a GI actuary do (ctd)?

- Range of risk types:
 - Personal lines
 - Private Motor
 - Household
 - Commercial lines
 - Fire



- Commercial Motor
- Employers' / Public / Product Liability
- Marine and Aviation

Examples of day-to-day work in a non-Life actuarial consultancy

- Reserving reviews
- Discharge of statutory roles
- Actuarial governance & finance, actuarial and claims process improvement
- Banking & credit risk analytics
- Solvency II
- Capital and risk management
- Financial reporting
- Financial modelling
- Independent Actuary
- Insolvencies & run-off solutions
- Transfer pricing



What's it like?

- Working in Excel
- Programming Software (R/SAS)
- Most of the work is problem solving
 - What is a client's model doing?
 - How can I model a particular feature of a client's business?
- Communicating results in "plain English"
- Building relationships with clients





What's it like?

- Varied work insurance, banking, data analytics
- Working for many clients simultaneously
- Lots of interaction with different departments/non-actuaries
- Project based work
- Secondments





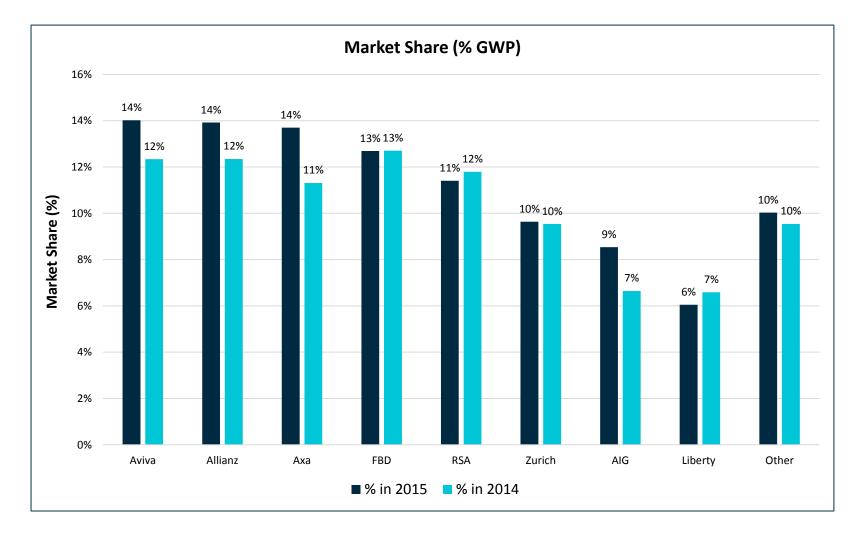
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Non-Life Market Developments 2014-2016

Jennifer Keegan



Distribution of market share





- Increases to court award limits (February 2014)
 - From €6.4k to €15k in District Court
 - From €38k to €60k in Circuit Court



- Recovery of Benefit and Assistance Scheme (RBA) (August 2014)
 - enables the Department of Social Protection to recover some welfare payments from personal injury awards directly form the insurer.
- New Court of Appeal (October 2014)
 - New judges appointed to High Court to fill vacancies seen as less experienced and more "plaintiff friendly"



- Reduction in discount rate (Russell vs HSE case, Dec 2014)
 - used in valuing personal injury awards
 - reduced from 3% to 1% for cost of care and 1.5% for loss of earnings
 - Upheld on appeal in November 2016
- Periodic Payment Orders (PPOs) (July 2015)
 - Annual payment rather than lump sum
 - Transfers risk from claimant to insurer
 - Civil Liability (Amendment) Bill 2017
- Book of Quantum (October 2016)
 - Guidance as to personal injury court awards
 - Previous version from 2004 often ignored





- Collapse of Setanta Insurance (April 2014)
 - €90m outstanding claims



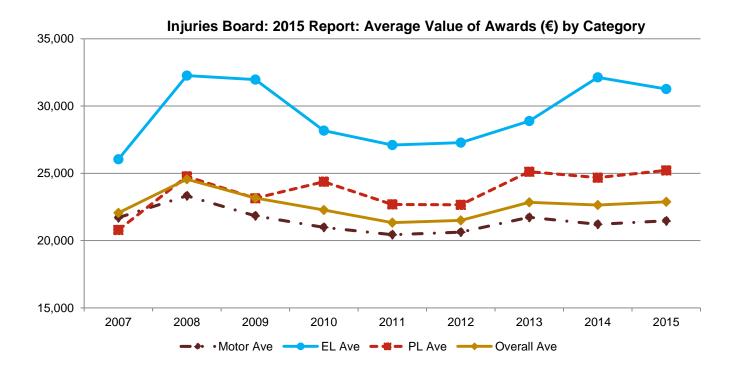
- Costs passed on to the insurers through a levy
- Currently under appeal with the Supreme Court
- Collapse of Enterprise Insurance (July 2016)
 - Gibraltar-based insurer
 - Approximately 14,000 Irish motorists affected
 - Company was a member of MIBI
 - Raises questions over "passporting" of insurance companies







• Increase in claims awards



- Courts Report 2015: High Court awards: +17.8% compared with 2014
- Circuit Court awards: +21.2% compared with 2014
- Whiplash claims out of line with other other European countries



- Increased uncertainty for Irish insurers
- Challenges to maintain a profitable business model
- Increased claims costs
- Increased premiums
- More work for actuaries to make sense of this uncertainty!





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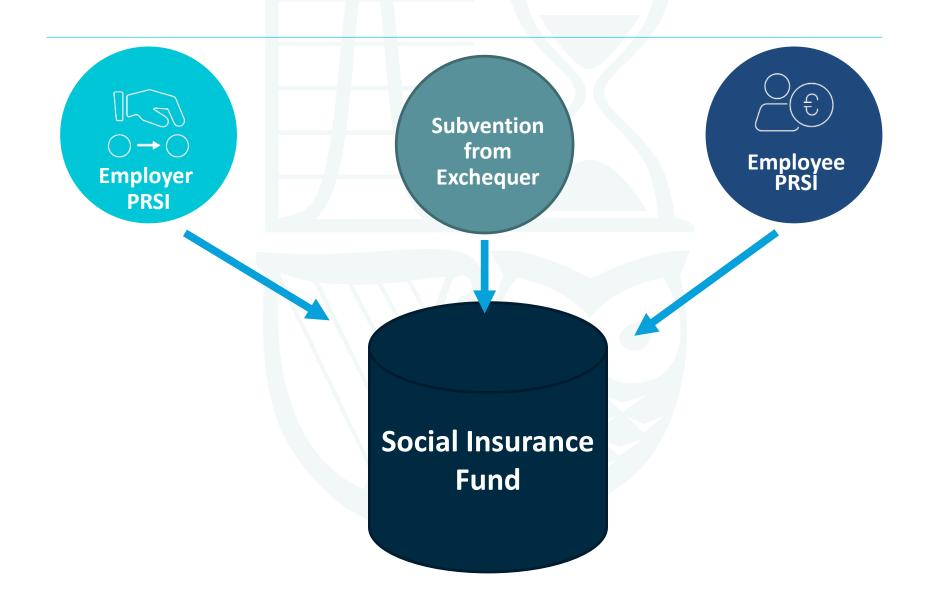
Pensions & Investments

John Moran FSAI

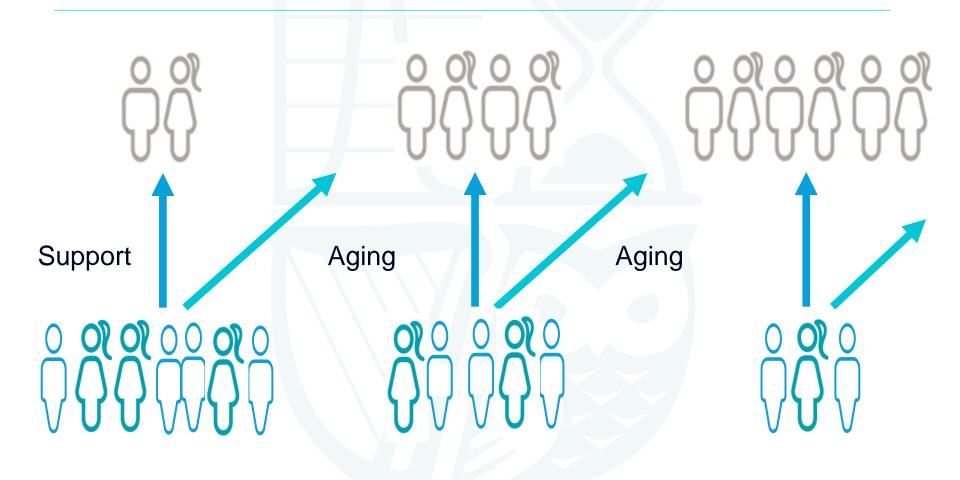
PENSION PROVISION



STATE PENSION – SOCIAL INSURANCE FUND



STATE PENSION - INTER-GENERATION SUPPORT?



STATE PENSION – STRIKING THE RIGHT BALANCE?

If unchanged, increased longevity and an ageing workforce will result in large deficits or increased subvention Subvention from Exchequer ́Ву 2055, just two Employee people will be working PRSI to support Employer Social every PRSI pensioner, **Benefits** down from about five today

OCCUPATIONAL PENSION SCHEMES – DB

Defined Benefit (DB)

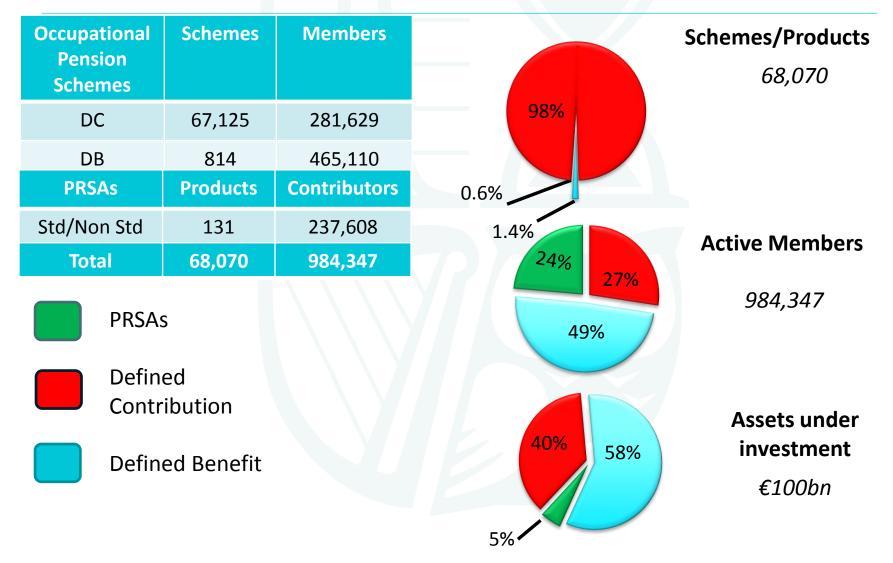
- Set level of pension and/or lump sum at retirement
- The level of benefits depends on your service in the scheme and salary at retirement
- Private sector:
 - pension of 1/60th of salary for every year of service to a maximum of 40/60ths.
- Public sector schemes:
 - lump sums of 3/80ths of salary
 - pension of 1/80th of salary for every year of service maximum of 40 years service

OCCUPATIONAL PENSION SCHEMES – DC

Defined Contribution (DC)

- Employee contribution and the contribution paid by your employer are usually fixed % salary
- Contributions invested in a fund
- No guarantees
- Benefits at retirement will depend on a number of different factors:
 - contribution levels
 - fund performance
 - plan charges
 - Annuity rates available when you retire
- Hybrid schemes combine characteristics of both

PENSIONS LANDSCAPE



Information sourced from the Pensions Authority (as at 31 December 2015)

DEFINED BENEFIT PENSION SCHEMES

Many high profile Companies have had to review their Defined Benefit Schemes





Independent News & Media

666 is the number of DB schemes subject to the funding standard as at 31 March 2016 70% of schemes met the statutory Funding Standard when submitted in year before 31 March 2016. Most of the remainder have plans in place to address deficits

9 schemes had still not submitted recovery plans by 31 March 2016

TERMINOLOGY - THE MAIN ASSET CLASSES

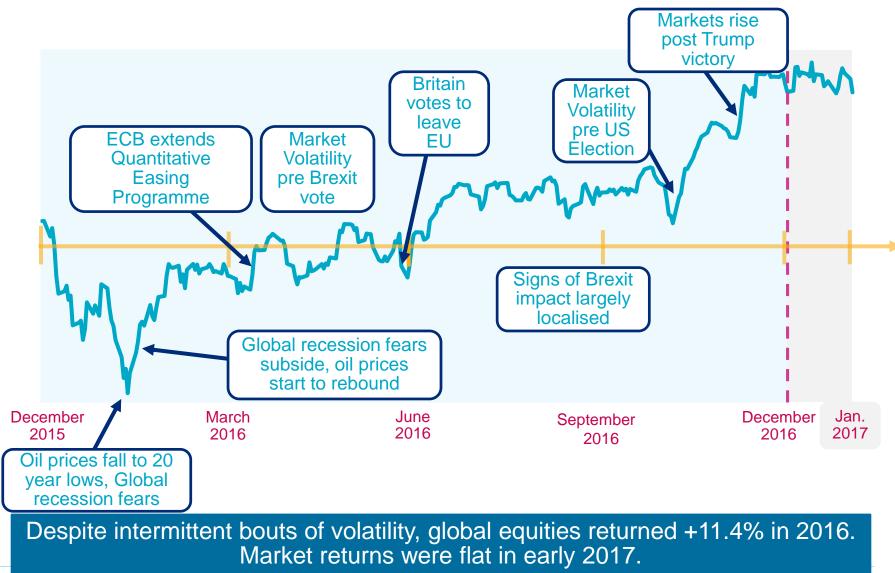
Equities

Share in company profits Capital return/dividend income Long term real returns Volatile **Fixed Income / Bonds** Known fixed payment stream Interest is main return Inflation risk Property Steady income stream Capital return/rental income Long term real returns Size/liquidity risk Cash

Underperforms other asset classes over long-term Low risk/low return Tactical asset class (refuge)

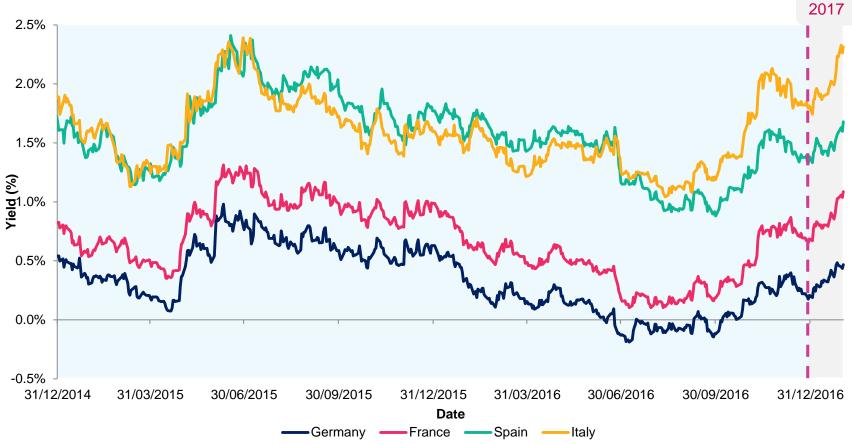
 Schemes can invest in other asset classes: Hedge Funds, Currency, Commodities Infrastructure.

DEVELOPED GLOBAL EQUITY MARKETS



Source: Mercer

EUROZONE 10 YEAR SOVEREIGN BOND YIELDS



Jan.

Despite yields rising over the past few months, valuations remain expensive.

Source: Mercer

RISK MANAGEMENT

Hot Topics

- Enhanced Transfer Values
- Contingent Assets
- Longevity Swaps
- Pension Increase Exchange



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A day in the Life as a Pensions Actuary!

Any Questions?



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Actuarial Careers including careers in nontraditional actuarial fields

Rachel Lynch FSAI



Introduction

• Wider Fields Committee

• Wider Fields Careers



Introduction

- Ireland has the highest number of actuaries per capita globally
- Vast majority work in the traditional areas, but there is movement outside of these areas





Wider Fields Committee

- Established in October 2014
- Areas of focus are: Promotion, Proposition, Data Analytics
- Achievements:
 - IDA engagement
 - IMI events added to CPD calendar
 - Evening meetings
 - Titanic competition



Wider Fields

- Banking
- Data Analytics / Predictive Modelling
- Aircraft Leasing
- Risk Management



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Any Questions?