

13th Global Conference of Actuaries 2011 Emerging Risks... Daring Solutions

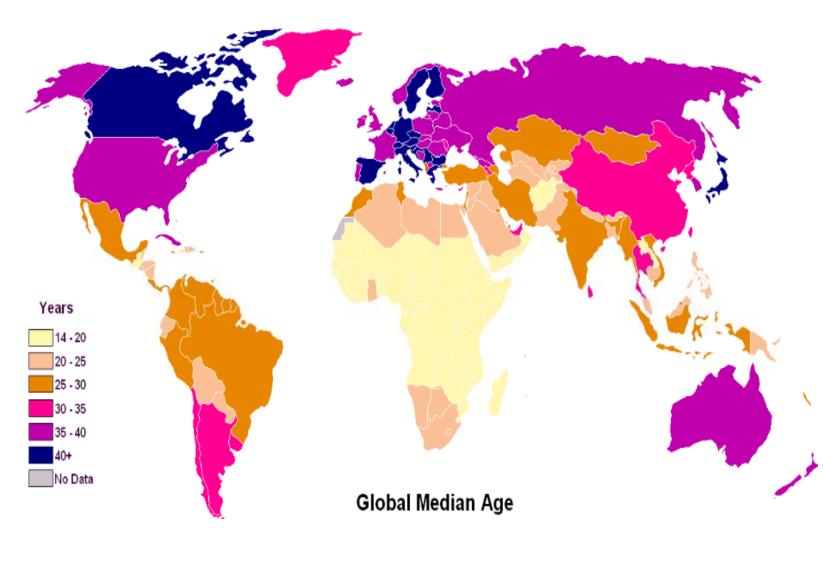


Evolution of Retirement Risks in the 21st Century

Edouard Merette CEO (Asia Pacific) – Aon Hewitt Singapore

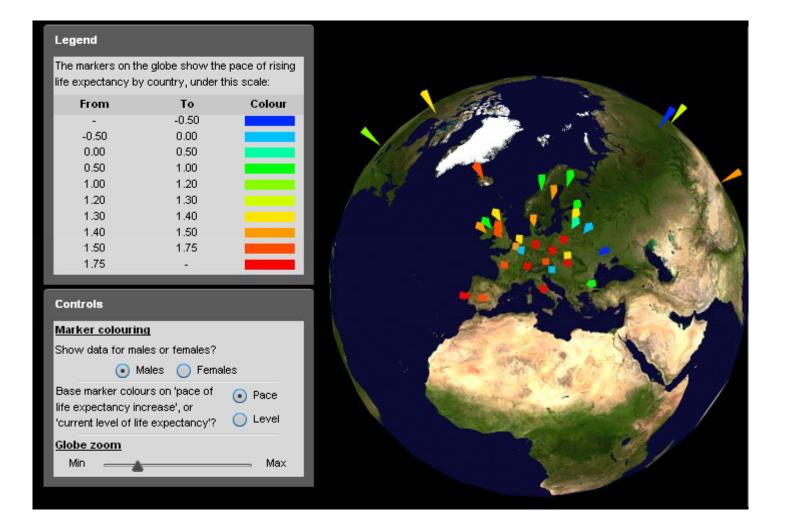


The Ageing Society Issue is No Secret





Life Expectancy is Increasing – but How Quickly?



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The World has Evolved During the Last 40 Years

Macro Changes

- Educated workforce
- Extension of freedom
- Technological revolution
- Rise of Asia
- Massive global interdependence

Technological Changes

- Cross-border movement of labour. Work itself now more virtual
- Many businesses now in global markets
- Lower cost of business start-up
- Need for speed increasing
 - Pressure on larger corporations
 - Shorter periods of employment
- Reputation/branding matters much more

Societal Changes

- Human capital becoming more important than physical capital
- Individual customers have more power, individual employees have more power
- Individuals now matter more than groups did

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There is a Social Crisis Coming

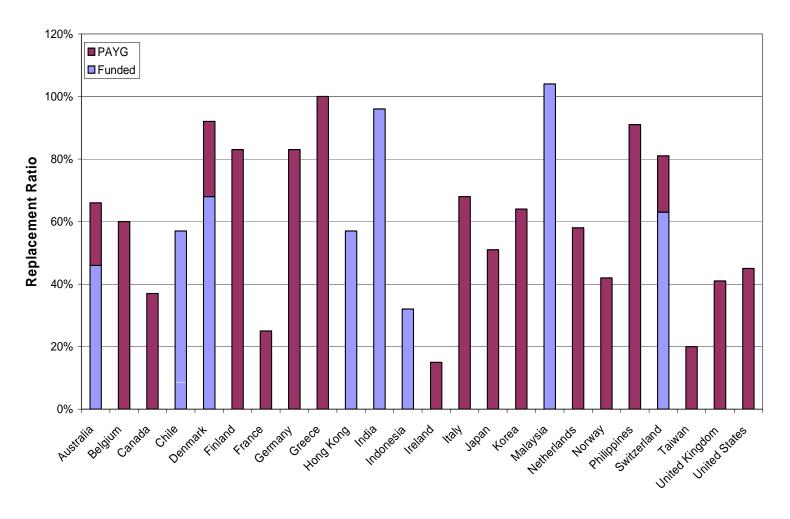
"The future has already happened"

- People living longer
- People having fewer children (generally)
- We can predict the future workforce
- Cost constraints on social security systems
- What will happen when people run out of money at age 80+?
- No single employer can fix it must be a public policy issue, everywhere



Can State Pensions Be Relied Upon to Provide an Income?

Pillar 1 Replacement Ratios and Source of Funding in Sample Countries

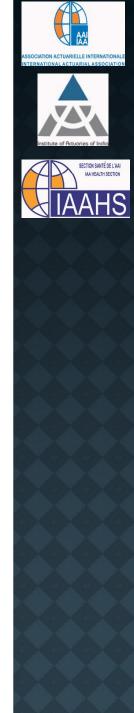


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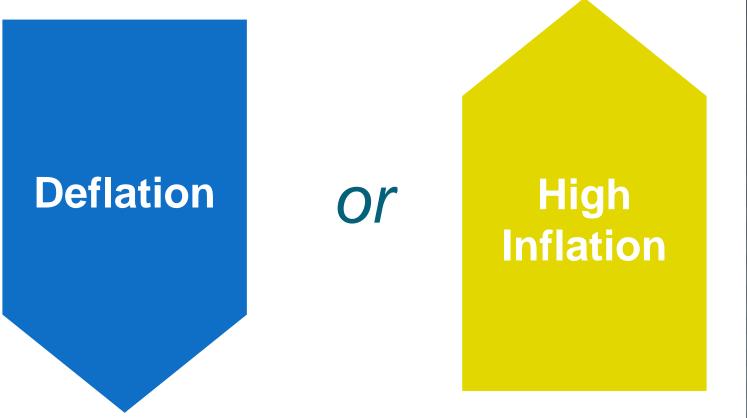


Governments Respond to Recent Economic Instability





What Will Be the Consequences, and How Will These Affect Pensions?





Employers Face Significant Financial Challenges

£bn Liabilities 560 Assets 540 520 500 480 460 440 420 400 380 360 340 320 1 Jan 2009 30 June 2009 1 Jan 2010 30 June 2010 1 Jan 2011

Assets and Liabilities of pension plans of FTSE 350 companies

Source: Pension Risk Tracker accessible at https://rfmtools.hewitt.com/Pension RiskTracker

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Volatility is Often Not Desirable for Finance Directors

PVIX — 365 day rolling volatility of the FTSE 350 funded status



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Many Employers Have Material Retirement Schemes with Deficits

100% 0 80% \bigcirc 80nd Allocation % 80% 80% ංග 20 \bigcirc \odot \odot 20% 0% -5% 0% -10% 5% 10% Pension Scheme Surplus (as a % of market capitalisation)

Pension Scheme Surplus / Deficit versus Investment Stategy

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Major Risks Areas of Importance to Corporate Sponsors

Strategic Risk The way in which benefit plans support the firm's wider HR and business goals.	Financial Risk Economic and demographic variability within benefit plans and the way in which this variability is mitigated.
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Regulatory Risk Compliance with the requirements of legislation and other procedures under the requirements of tax, labour and other regulatory bodies.

Operational Risk The processes and governance of plans within the firm.

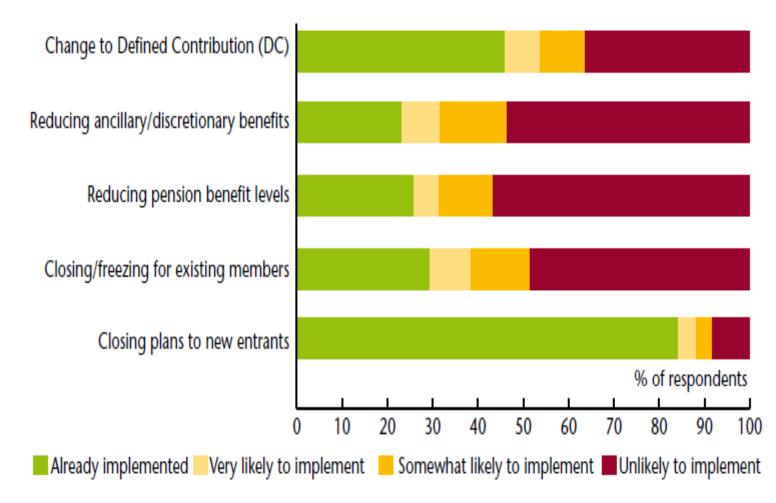


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Strategic Risk - Transferring Financial Risk to Individuals

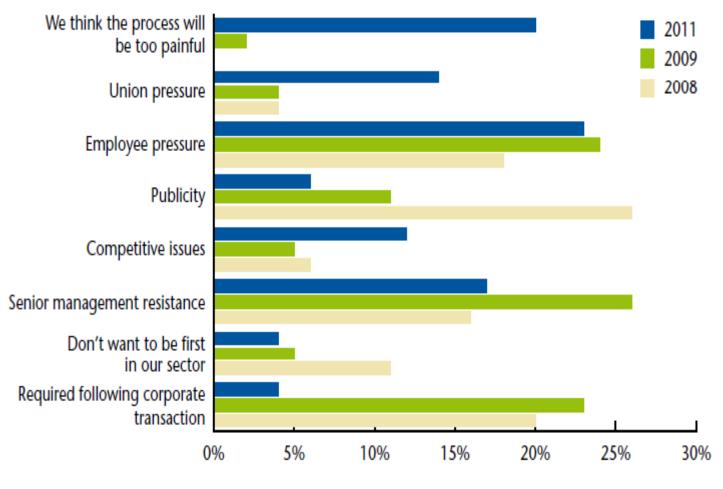
What is your attitude to the following strategies over the next 12-24 months?





Strategic Risk – Transferring Financial Risk Isn't Always Straightforward

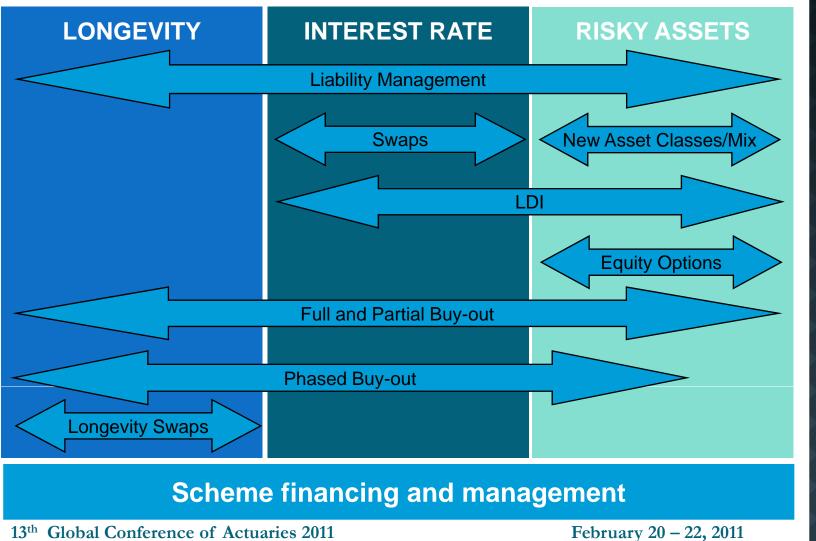
Top three reasons (weighted) for keeping plans open

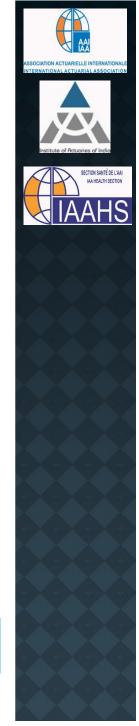


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Financial Risk Can Still Exist in Respect of Past Service

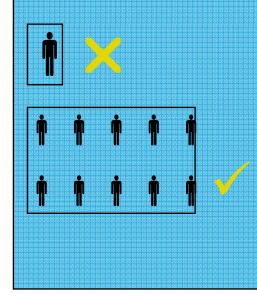




Longevity Risk for Employers has Multiple Components

Idiosyncratic Risk

Even if you knew the "correct" mortality rate, experience will differ, particularly in small schemes.



Basis Risk

How an individual scheme differs from the big population, and the difficulty of measuring this and its implications.



Systematic Risk

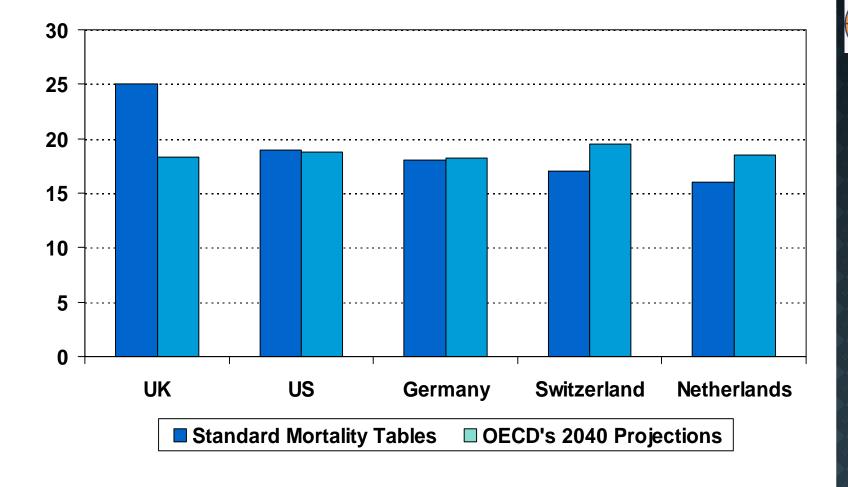
Changes in general longevity for a big population



"First person to live to 1,000 might be 60 already"



Life Expectancy Assumptions Can Cause Different Problems



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How would you describe your attitude to hedging longevity risk? We are interested We have not considered in longevity hedging longevity hedging as part of plan to: because we: create a retain a do not do not think the pricing is unattractive synthetic significant sufficiently trust the understand the buy out proportion in market or return seeking market or products products assets 19% 16% 24% 13% 28% % of respondents 0 10 20 30 50 60 70 90 100 40 80

Attitudes Towards Hedging Longevity Risk Are

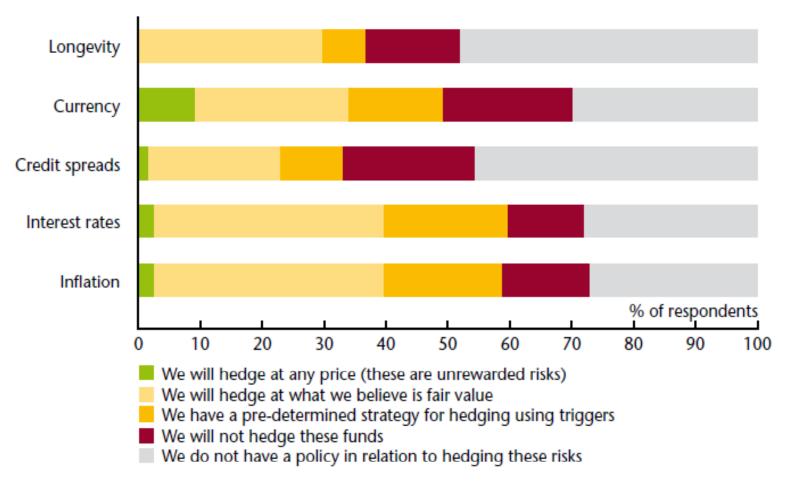
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Mixed



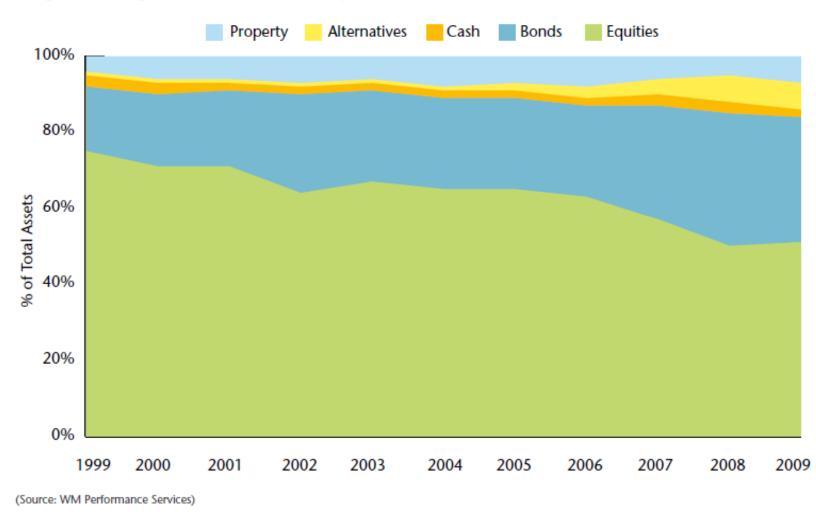
Hedging Economic Risks versus Longevity Risk

What is your attitude to hedging?





Asset Allocation Strategies are Changing



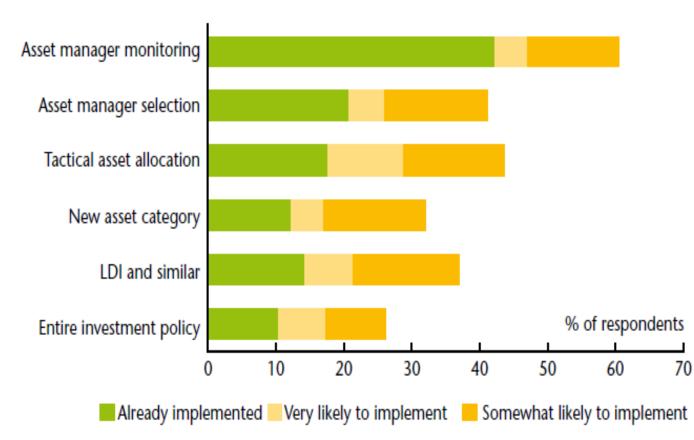
Weighted Average Asset Allocation for UK pension funds

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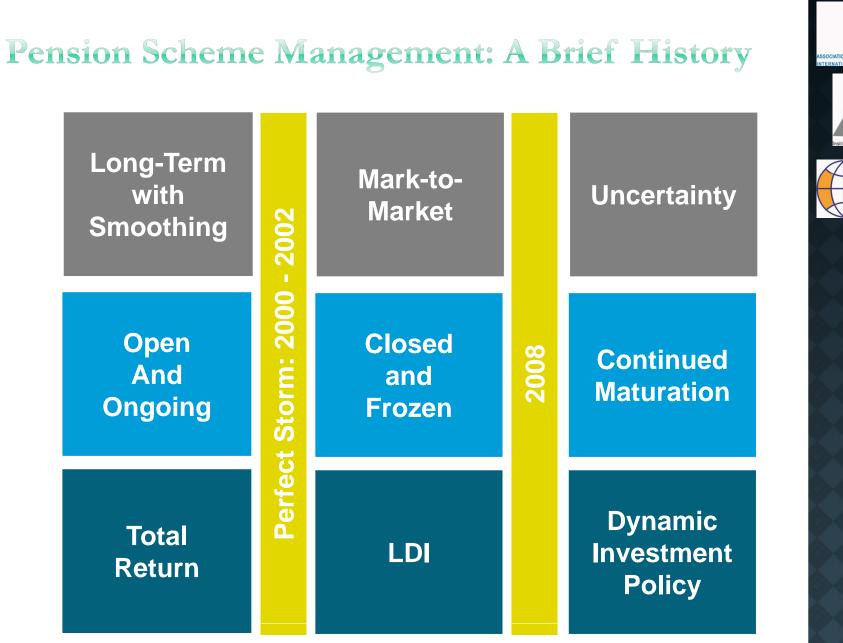
Third Party Assistance is Being More Sophisticated

What is your attitude to having your professional advisers implement aspects of your asset management?



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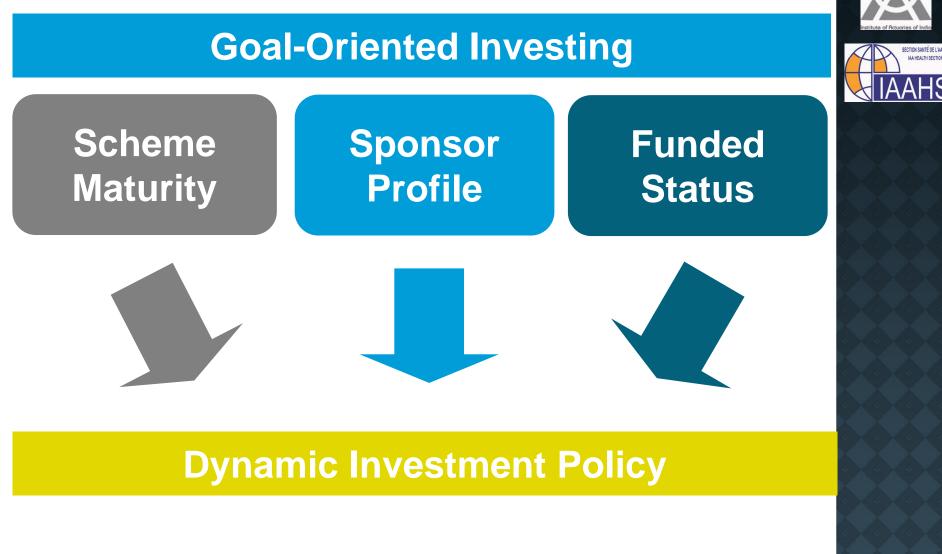




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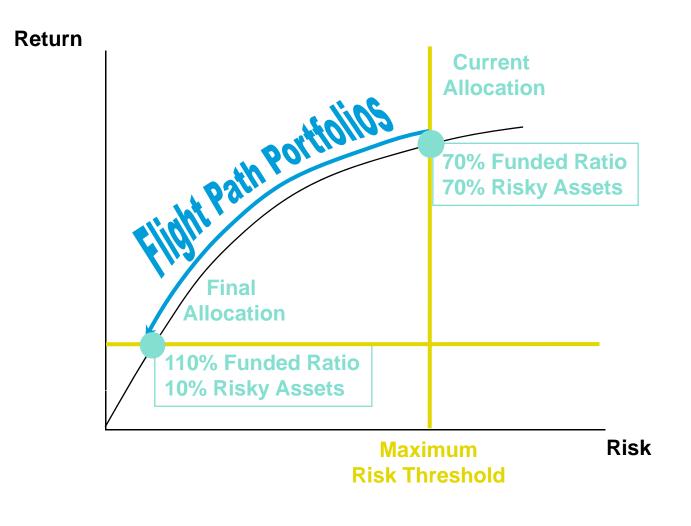


Evolving Approach to Pension Scheme Management



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Developing Flight Path Portfolios

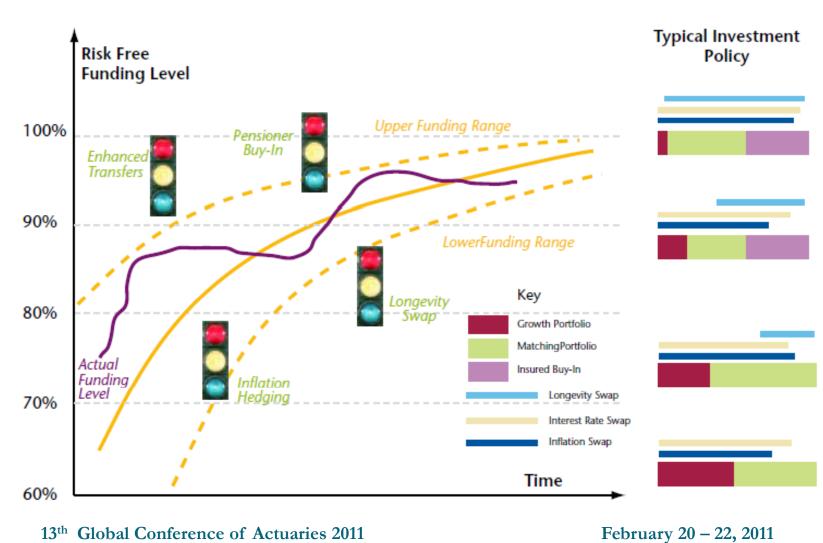




Example Path towards Mitigating Economic and Demographic Risk

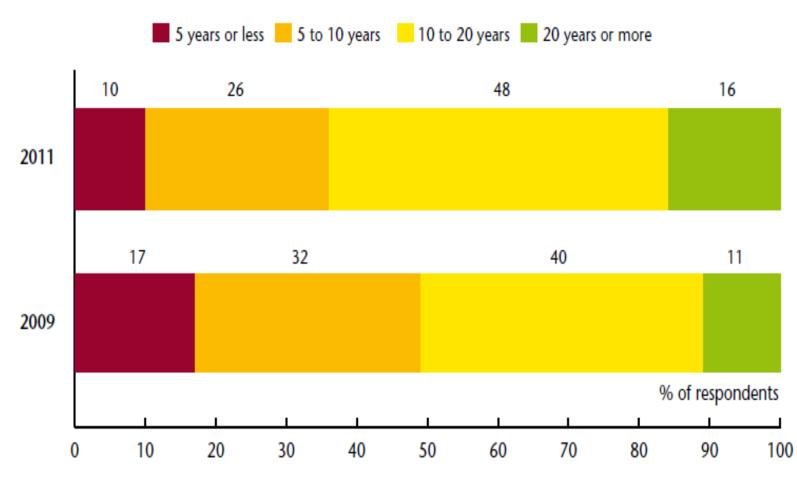
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Specimen Flightpath to illustrate de-risking



Employers are Extending their Timelines to Fix the Problem

What is the timeframe to reach your long-term goal?

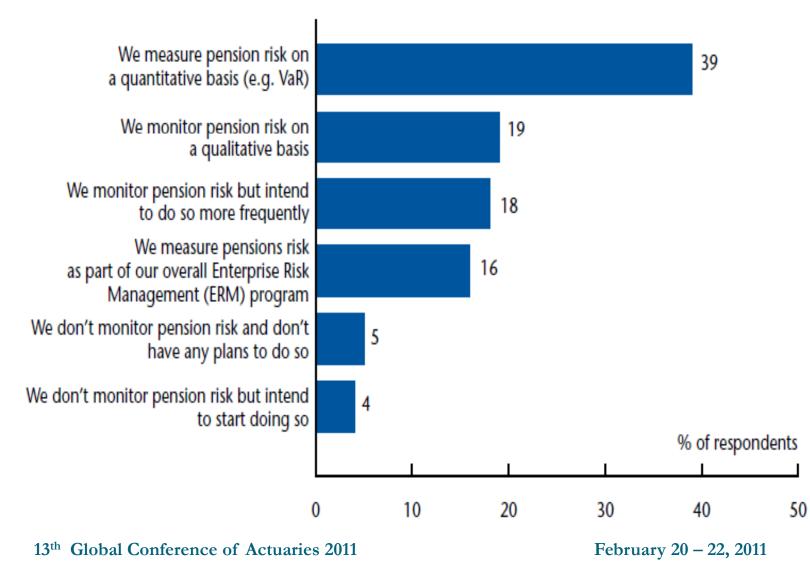


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Risk Monitoring is Also Evolving

How do you monitor the financial risks associated with your pension plan?

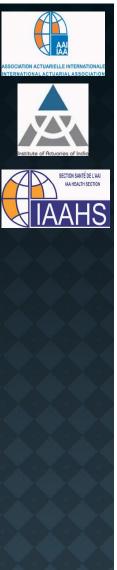




Compliance and Operational Risks Are Not Neglected

		Less Ove	ersight	More Oversight		
Where are we going?	Strategy	Local	Local	Regional	Corporate	Corporate
	Global Advisory	None	None	None	Review Only	Review and Approval
How are we getting there?	Vendor Management	Local	Local	Local	Local	Corporate
	Administration	Local	Local	Local	Regional	Corporate
	Communication	Local	Regional	Corporate Oversight	Corporate	Corporate
	Insured Benefits/Pooling	Local	Regional	Corporate	Corporate	Corporate
How are we doing?	Financial Reporting	Consolidation	Reactive Review	Proactive Guidance	Proactive Guidance	Proactive Guidance
	Governance	Local	Reporting to Corporate	Corporate	Corporate	Corporate
	Compliance	Local	Reporting to Corporate	Corporate	Corporate	Corporate
	Financial and Risk Management	Local	Local	Regional	Reporting to Corporate	Corporate

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Impact on Individuals - Life Cycle Might Evolve From This ...



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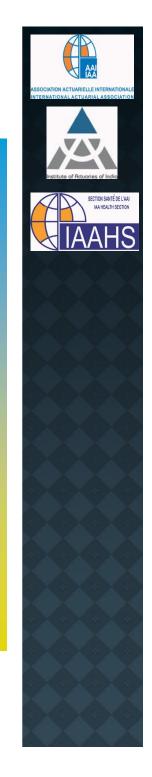


Work

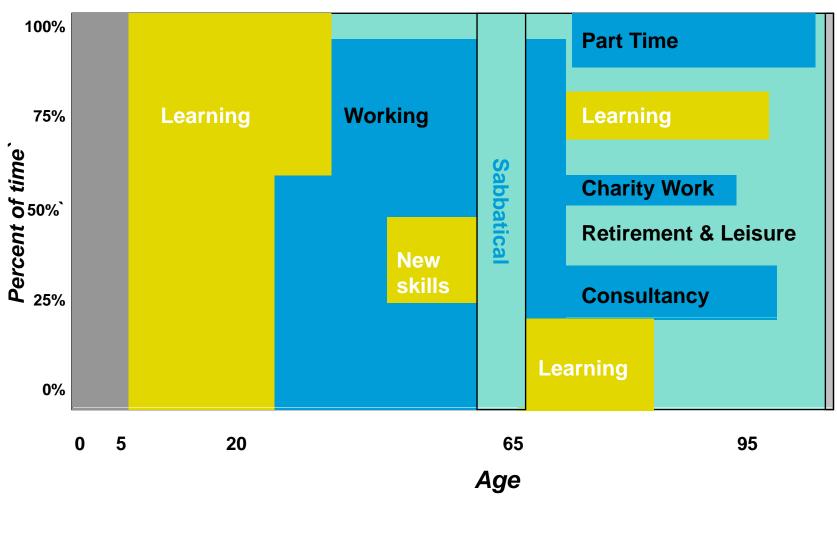
Phasing

Full Retirement

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... Or Even This?



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Thank You



