



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

Pension Buy-Outs in the United Kingdom

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February 20 – 22, 2011

Disclaimer

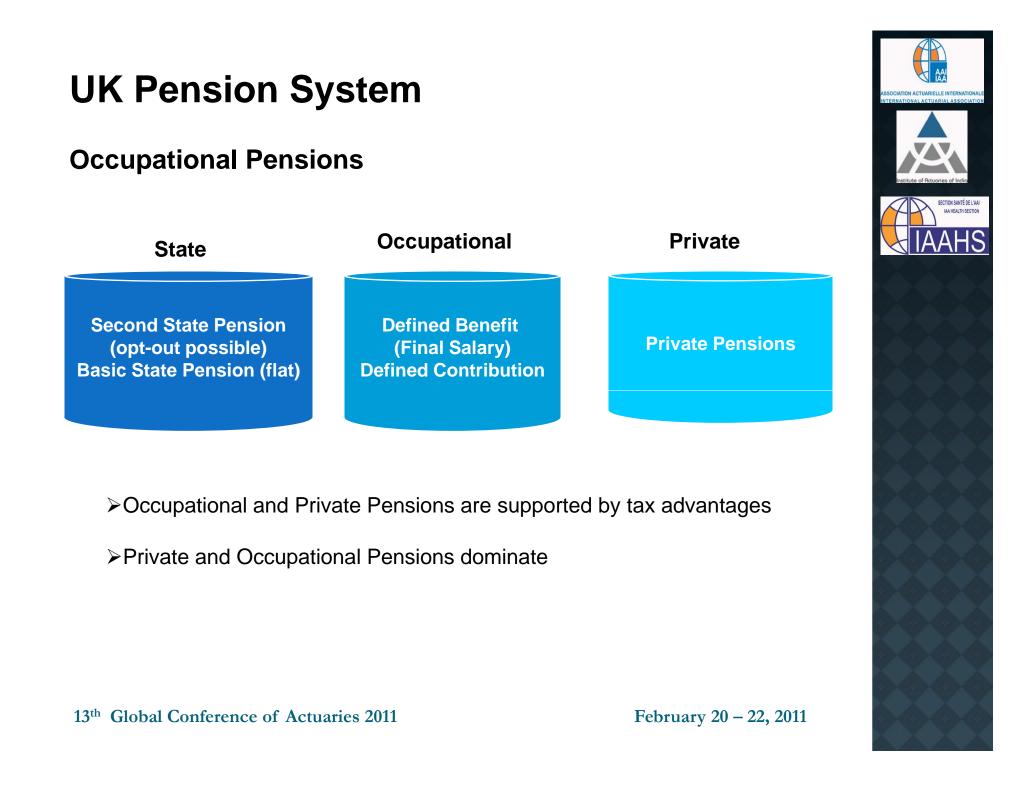
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UK Pension System Pension Buy-Out - Second Pillar



- Pension Funds with Defined Benefit Schemes:
- Employer guarantees retirement benefits
- 80% of defined benefit Schemes closed for new business
- Pension liabilities exceed employer's life expectancy and make M&A deals difficult
- Insolvencies & restructurings give rise to pension buy-outs
- Shareholders' want management to concentrate on core business rather than on pensions



Pension Fund Options Buy-out, Buy-in, Longevity Swaps

• Buy-out

- Pension Fund assets and liabilities are transferred to an insurance company
- Insurance company assumes responsibility for transferred risks

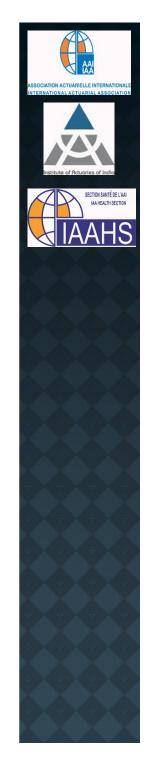
• Buy-in

- At outset the Pension Fund invests the assets to buy an insurance policy
- Longevity risk is transferred to an insurance company

• Longevity Swap

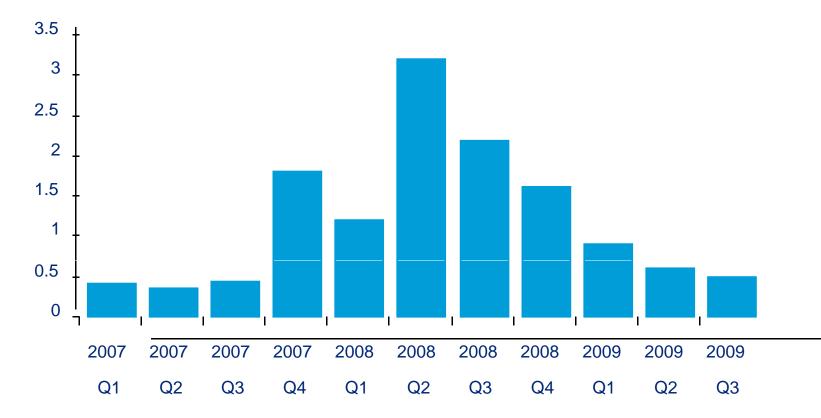
- Regular exchange of premium and claims
- Pension Fund keeps the assets

Preference depends on market environment



Volume of Bulk Annuity Business

Placed by Pension Funds *)

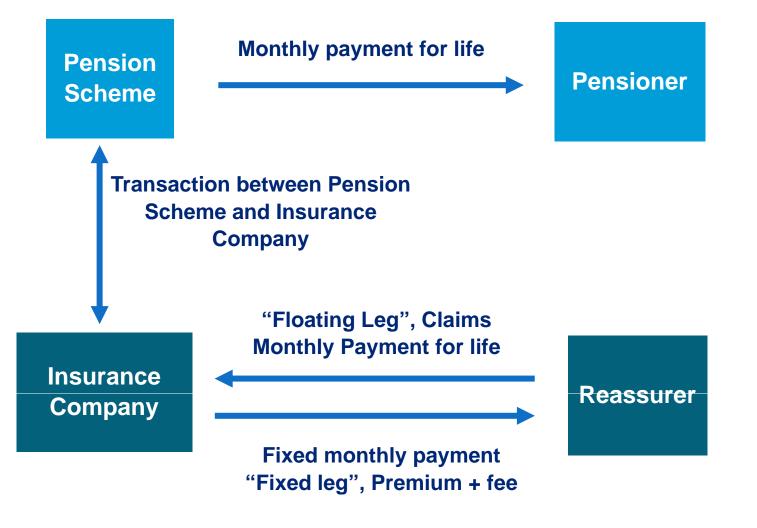


*) Hannover Life Re's estimation

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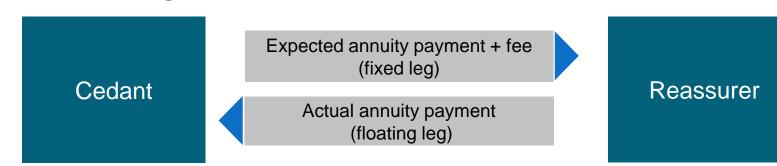
Pension Market Structure How transactions in the pension market look like







Longevity Swap- The Technical Model Flow of Regular Premium and Claims



- Proportional reassurance agreement typically a quota share
- Reassurer pays actual annuity benefits for reassured business
- Reassurer receives regular reinsurance premium equal to expected annuity payments plus a fee
- Reinsurance premium fixed at inception based on best estimate mortality and mortality improvements
- Net settlement of cash flows

Pension Buy-out Transactions Avoidance and Retentions

Hannover Life Re is usually happy to reassure...

- Output: Construction of the second second
- Output in the second second
- ... Up to natural expiry

Hannover Life Re may be cautious to assume...

- •... Asset risks
- Inflation risks
- Output Deferred annuities

Reasonable retention levels required to ensure alignment of interest.



Pension Buyout Transactions

A new market segment for Hannover Life Re since 2005/2006

- Since 2006 Hannover Life Re has developed its pension buy-out proposition
- Building on expertise in Enhanced Annuity market
- Hannover Life Re has already concluded several deals with a volume (in terms of Net Present Value of premiums) of approximately £3.6bn

Positioning Hannover Life Re:

- Hannover Life Re reinsures direct writers of pension blocks
- Hannover Life Re prefers "blue collar industries"
- We focus on "pensions in payment"



Abbey Life / BMW Pension Fund

Deutsche Bank and Paternoster land largest ever pension scheme insurance deal London, February 22, 2010

Deutsche Bank's wholly-owned insurance company, Abbey Life, has announced today that it has executed the largest ever longevity insurance transaction. This transaction will provide the BMW (UK) Operations Pension Scheme with a hedge for life expectancy risks associated with nearly £3 billion of pension scheme liabilities related to approximately 60,000 pensioners.

Abbey Life utilized the proprietary longevity modeling techniques and structuring expertise of Paternoster, the specialist pensions insurer in which Deutsche Bank is the largest shareholder. Through the transaction, Abbey Life will insure longevity risks of the BMW pension scheme while spreading a proportion of the risk to a consortium of reinsurers (including **Hannover Re**, Pacific Life Re and Partner Re). Unlike other longevity products, Abbey Life's longevity hedge has been constructed to provide the flexibility to adjust the specific benefit structure and hence better match the longevity risk of the scheme.

BMW chose to insure this risk in order to protect the sponsor against a financial risk in its UK pension scheme...



Thank you for your attention!



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