BUYING OUT PENSIONS LIABILITIES	S - THEORY Vs PRACTISE	TT
		Hewitt
IAN ALEY - BUSINESS DEVELOPME	ENT DIRECTOR, PRUDENTIAL	
DEMETRE LA GRANGE - CONSULT	TANT, HEWITT	
PRESENTATION OVERVIEW		Hewitt
■ Buy-out costs Vs scheme liability	valuations	
■ Pricing an annuity		
 Bulk Annuity price sensitivity 		
 New solutions in the Bulk Annuity 	market	
		2
WHY ARE BUY-OUT COSTS MORE TO	HAN A SCHEME'S	
LIABILITY VALUATION?	TIAN A GOTTEME G	Hewitt
PENSION FUNDS	LIFE COMPANIES	
* Have to guarantee benefits	✓ Have to guarantee benefits	s
 Hold solvency margins Have asset restrictions 	 ✓ Hold solvency margins ✓ Have asset restrictions 	
	✓ EC 3rd life	
	√ fixed interest / RPI ass /RPI linked annuities re	
✓ Can run short-term deficits	★ Can run short-term deficits ✓ Profit	
	* Pront	
		•

WHERE DO THE DIFFERENCES COME FROM?

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- Insurance companies are required to provide transparent declarations on their reserving
- Rates affected by Supply/Demand
 - RPI/LPI assets in short supply
 - increased demand from Pension Funds for bonds
- MFR was essentially an equity based methodology
 - equity returns are typically assumed to be higher than fixed interest

EXAMPLE VALUATION COMPARISION

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	MFR	FRS17	вичоит
Pensions	50	60	75
Deferred pensions	50	95	150
Assets	105	105	100
Surplus	5	(50)	(125)

Source: Hewitt Bacon & Woodrow, sample pensions scheme 2004

WHAT DICTATES THE LIFE OFFICE PRICE FOR AN ANNUITY?

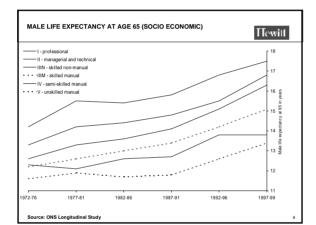
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- How long we expect the beneficiaries to live
- What return can we obtain on investments we buy with the premium
- What capital is needed to back writing the business
- What expenses will be incurred
- Profit target!

LONGEVITY RISKS: LIFE EXPECTANCY DATA

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- Companies selling annuities pool mortality data via the Continuous Mortality Investigation Bureau ('CMIB')
- Office of National Statistics studies mortality of general population
- When trying to predict mortality/life expectancy, we look at:
 - trends of mortality from past to present
 - trends in particular causes of death
 - other countries with different lifestyles as indicator of potential future improvements
- Life expectancy comes from current mortality levels together with forecasts of future



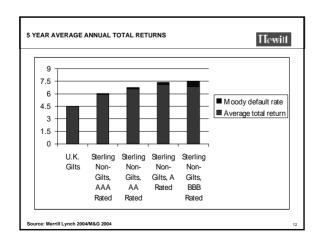
Hewitt ■ Significant reduction in heart disease mortality rates: - 20% improvement 1980-1990 - further 45% in 1990-2000 Heart disease improvements have been driven by: better understanding of risk factors improved diet increased and more effective surgical intervention ■ Reduction in lung cancer, driven by reduction in smoking at older ages

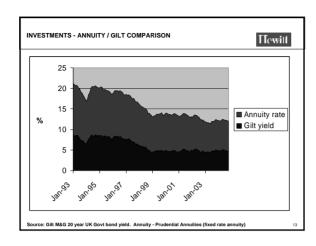
LIFE EXPECTANCY - WHAT HAS DRIVEN THE IMPROVEMENTS?

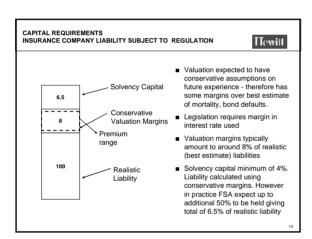
Source :R.Willets, calculations from ONS data

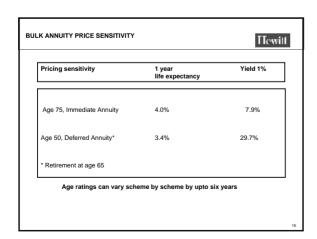
INVESTMENT ASSUMPTION - HOW DO INSURERS INVEST?

I Matching income to outgo
Fixed interest/index linked
Corporate Bonds
Interest rate swaps
Modified indexation - derivative market
Overseas Bonds & currency swaps
Default provisioning









MARKET CONSTRAINTS	Hewitt
Investment marketsInsurers longevity	
■ Capital availability	
APF impacts?	
	16
ISSUES IN PENSIONS	Hewitt
GN9 changes	
■ Discontinuance solvency	
 Various options available Possibly 2nd guess Life Office basis 	
■ Rule of thumb?	
	17
ISSUES IN PENSIONS	Hewitt
	Trewiii
Debt on employer Unlikely to obtain buy-out quote	
Adopt approximate buy-out basis Time delay to resolve issues	
Irme delay to resolve issues Exposure to changes until terms secured	

ISSUES IN PENSIONS	Hewitt
Morgore	
Mergers ■ GN16 – consider wind-up position	
■ Again, buy-out basis required	
■ New GN16 might change this?	
	40
	19
ISSUES IN PENSIONS	
IOOOEO IN I ENGIONO	Hewitt
Wind-up	
■ Lengthy process	
 Possible changes in Life Office bases 	
■ Exposure to change in costs / assets	
■ Lack of understanding of process	
■ "Joint venture"	
	20
	_
ISSUES IN PENSIONS	Hewitt
Managing risk	
Managing risk Integrate with investment strategy	
Integrate with investment strategy"Immunise"	
Question regarding Bonds v Buy-out	
Buy-out for schemes with less than 50 members	

ISSUES IN PENSIONS Hewitt Gordon, Speed, Cowling paper Review communication of "solvency" Possible increased focus on discontinuance solvency ■ How would you explain basis used? ■ "No surprises" v changes in buy-out bases NEW SOLUTIONS IN THE BULK ANNUITY MARKET Hewitt ■ New entrants to the buyout market? Structured Buyout Plan premiums phased over a period. employer winding up insolvent scheme can fund buy out premiums over a period. period terms established at the outset of the policy full longevity insurance provided on day one can manage impact on accounts Refundable Buyout Plan premium based on the Prudential's reserving basis, with a contribution to capital. pension benefits are guaranteed, 'refunds' are paid to the scheme if overall scheme experience is favourable compared to the reserving. enables risks to be insured or experienced SPREADING THE COST WITH A STRUCTURED BUYOUT PLAN Hewitt ■ Longevity risk is insured from day one if premium schedule is met ■ Retention of assets allows the scheme investment flexibility for longer ■ Employers with schemes in deficit can fund the shortfall over an extended period ■ Reduced volatility in future financial statements of the employer under FRS17/IAS19 ■ Predetermined cash-flows for trustees ■ Trustees may obtain comfort from retaining the assets on the balance sheet of the scheme ■ Assets held by the scheme to pay future premiums have fewer restrictions than assets held by insurer ■ Allows the scheme time to reconcile data

THE SMALL PRINT

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