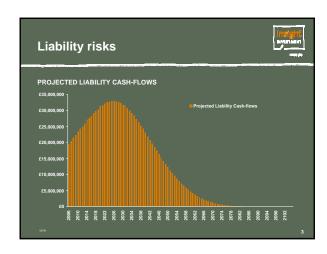
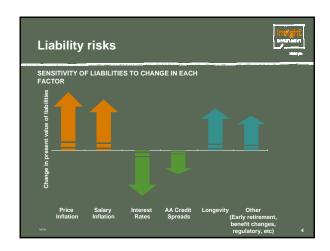


## Agenda Identifying pension scheme risks Hedging pension scheme risks The industry today Reducing scheme sensitivity to hedgeable risks New benchmarks for Investment Managers The role of active management

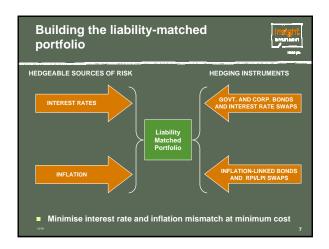


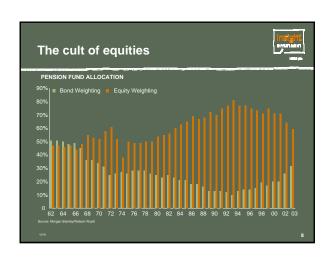




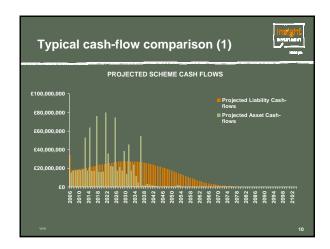


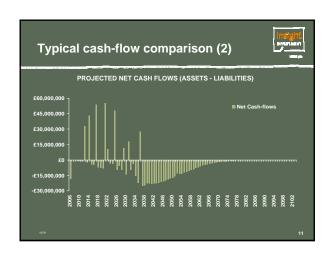
## Capital markets have evolved new instruments 50-year maturity Government bonds – including index-linked Greater liquidity in long-maturity corporate bonds – up to 50 years A more competitive Swaps market Development of RPI and LPI Swaps

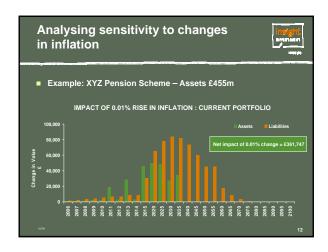




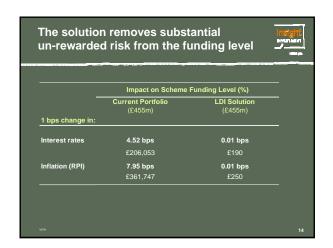
	Exposure	Sensitivity	Annual Volatility	Impac
Assets				
Fund manager	risk100%		3 – 4%	3 – 4%
Equity	70%		15.5%	10.8%
Liabilities				
Interest rates	100%	20 yrs	1.1%	22.0%
Inflation	100%	20 yrs	1.0%	20.0%
Longevity				~5.0%

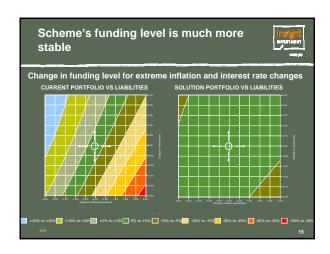


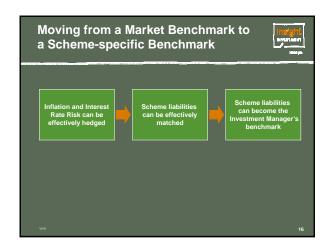


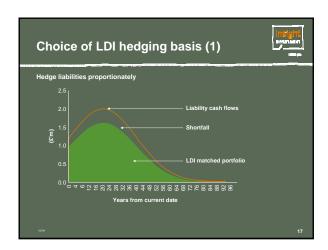


## Analyse the projected cash-flows in detail and split them into nominal and inflation-linked: Nominal liability cash-flows: Modelled as zero-coupon bonds Cash-flows mapped onto the relevant yield curve Interest rate sensitivities calculated at each node Inflation-linked liability cash-flows: Modelled as inflation-linked zero-coupon bonds Cash-flows mapped onto the relevant inflation expectation curve Inflation rate sensitivities calculated taking account of any LPI caps and floors

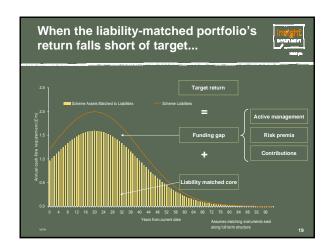








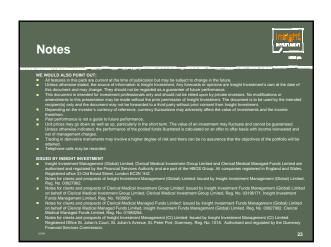




Appropriate sources	of return
EXCESS RETURN TARGET	LDI STRATEGY
■ 0%	■ Liability matched portfolio
■ From 0% to 1%	<ul> <li>Credit enhanced liability matched portfolio with active fixed income management</li> </ul>
■ From 1% to 4%	<ul> <li>Liability matched portfolio enhanced with diversified alpha and risk premia</li> </ul>
	20







## CHRIS HARTLEY – DIRECTOR, FIXED INCOME PRODUCT MANAGER Chris ploined Insight in 2002 as a director within the fixed income team with responsibility for institutional product management. Chris had previously worked at Foreign & Colorial Management Lid (F&G) from 1902 until 2001 when F&C merged with Eureko's Asset Management Division. He joined F&C as a fixed income portfolio manager before being appointed head of the fixed income team in 1998, with responsibility for managing institutional bond portfolios invested in the sterling and European currency markets. Following F&Cs move into the UK pensions market in 150 pa perfoliur strengtheninism for local small performance in 1987 with a first clients. Chris heigh an internation with investment consultants and their clients. Chris heigh his financial services career in 1987 in the corporate banking division of Kleinwort Benson. Chris graduated from the London School of Economics in 1988 with a first class shonours degree in Economics. He is a Member of the Securities Institute and holds the Securities Institute Diploma (MSIOip).