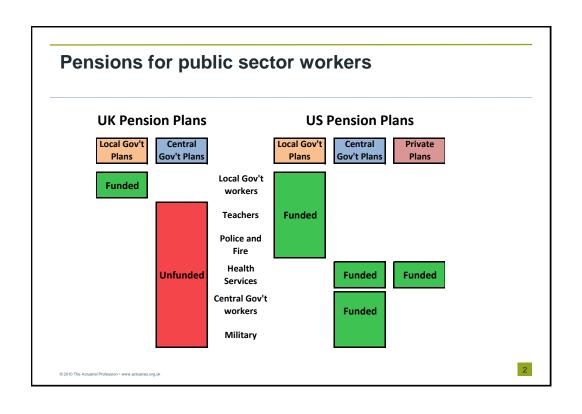
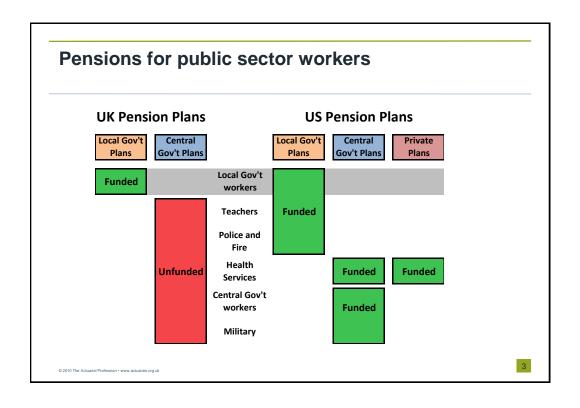


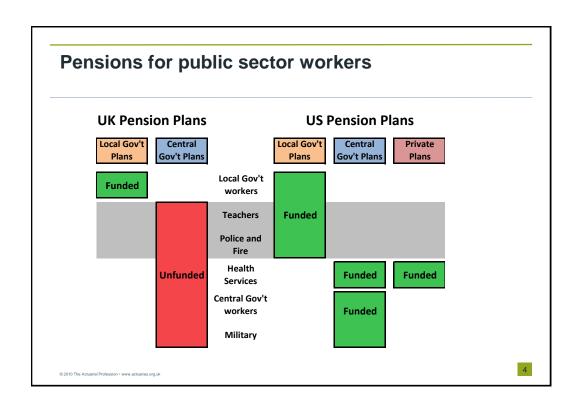
What we'll talk about

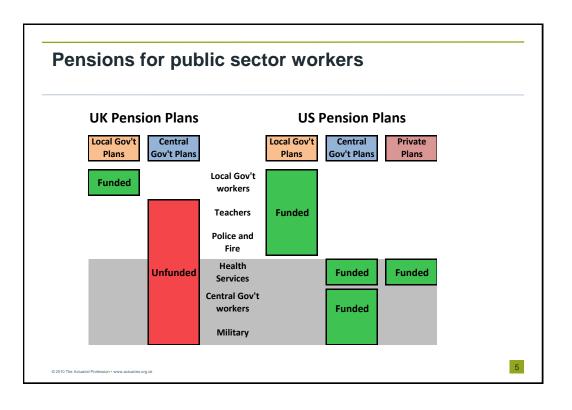
- The basics US and UK
- Current financing issues
 - US
 - UK
- Common issues and challenges
- Open discussion

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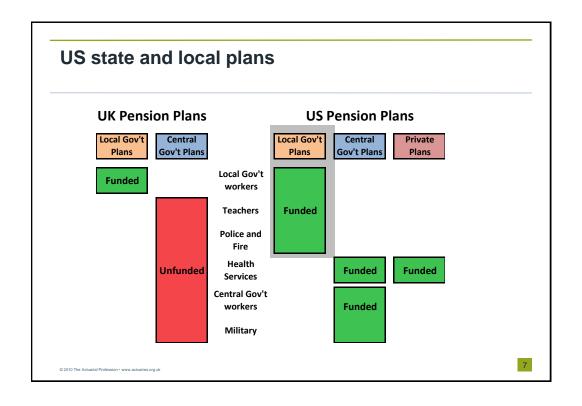








	State and Local Workers	Federal Workers
Number of plans	2,500	3
Participants	20 million	10 million
Assets	\$3 trillion	\$1 trillion
Investments	Diversified portfolio	Treasury bonds
Liabilities	\$4 to \$6 trillion	\$2.5 trillion
Subject to ERISA?	No	No

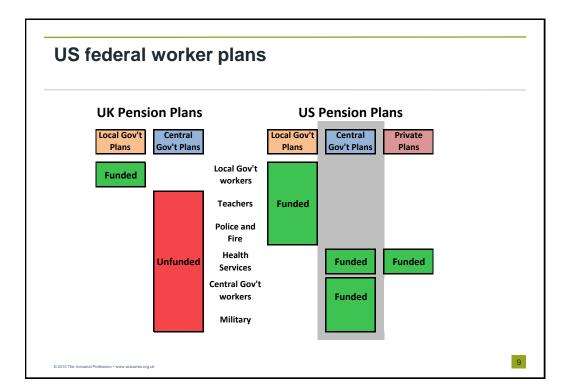


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US state and local plans - issues

- Benefits
 - Well-publicized abuses
 - Apparent inability to trim future service benefits
- Funding
 - Pressure on local budgets from falling taxes in the face of rising pension funding needs
- Disclosure
 - What liability?
 - What discount rate?
- Governance
 - Highly political environment with diffused responsibilities
 - Are the proper ERM elements in place?

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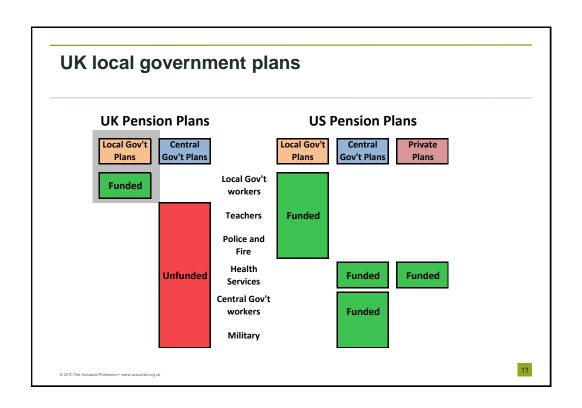
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US federal worker plans - issues

- Benefits
 - Relatively little "noise" about federal worker benefits
- Funding
 - Pressure on federal agency budgets is extraordinary
 - Significant legacy liabilities to be funded in the future
 - From the overall "unified budget" perspective, the assets of these pension trusts are also liabilities of the federal government
- Governance
 - The larger federal deficit issue is the driver

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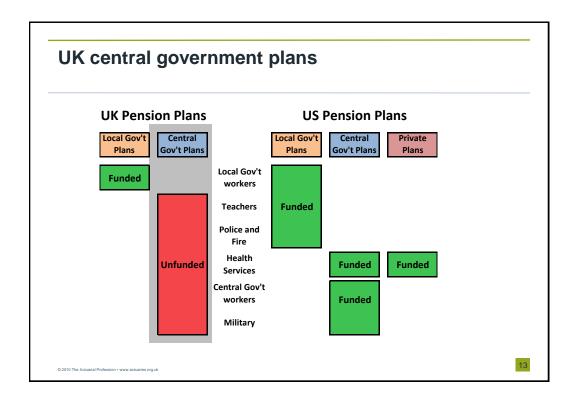




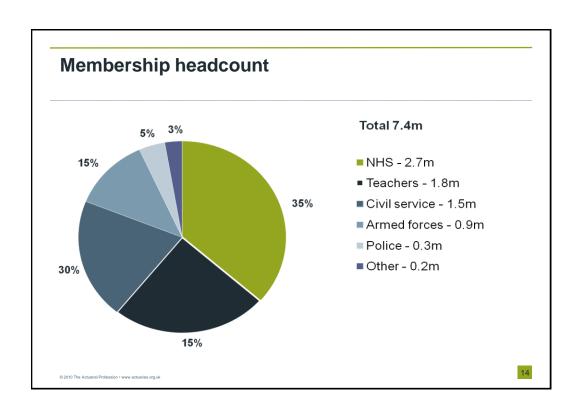
UK local government plans - issues

- Nature of 'funding'
- · Regulation/governance
- Discount rates
- Investment management
- Administration

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7



Financial	statistics

07/08	Benefits paid £bn	Member contributions £bn	Employer contributions £bn	FRS17 liability £bn	FRS17 CSC £bn
NHS	5.6	2.5	5.3	242	12.3
Teachers	6.7	1.6	3.5	204	7.7
Civil Service	4.0	0.4	2.9	126	4.8
Armed Forces	3.2	-	1.5	97	2.3
Police	2.4	0.7	1.1	73	3.6
Other	1.1	0.2	0.5	30	1.1
TOTAL	23.0	5.4	14.8	772	31.8

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Current benefit structures

Big 3 plans

- Most members still on NPA 60 (NPA 65 for new joiners)
- Typically final salary accrual 1/80 plus 3/80 automatic lump sum
- Minorities on career average or have enhanced benefits

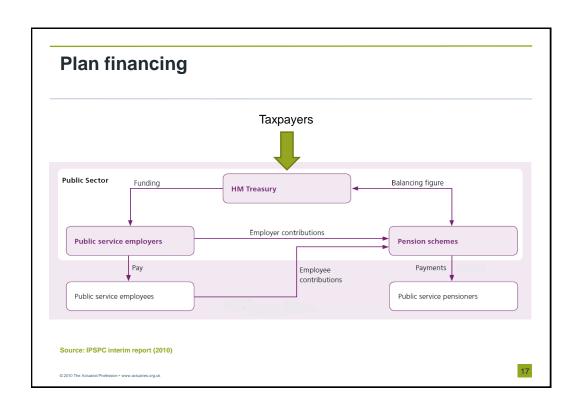
Military/police/fire are more generous

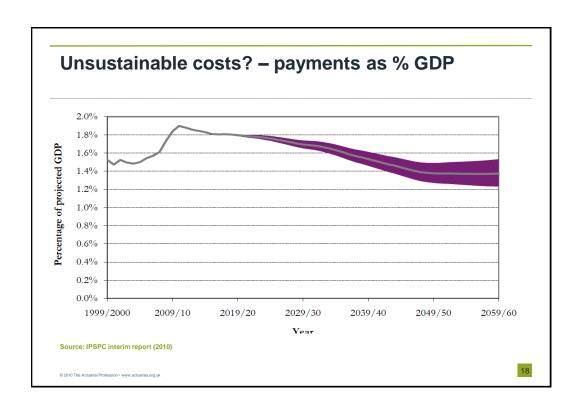
Member contribution levels vary

- Armed forces non-contributory
- Police 11%

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Discount rate change

Gov't reviewed previous 3.5% real (net RPI) rate used for setting contributions

Five objectives (first two most important):

- Fair reflection of costs
- Reflect future risks to Government income
- Support plurality of provision of public services
- Transparent and simple
- Stability

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Discount rate change

Alternative methods considered:

- consistent with funded plans
- based on ILG yields
- GDP growth
- based on Social Time Preference Rate

Govt recognised case to be made for all options In light of objectives decided to use GDP growth

- "theoretically sound and practical"
- rate adopted is 3% real (net CPI)

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20

ILG yields

Some arguments put forward:

- Value attached by capital markets to Govt cash-flows
- Cost for a funded plan backed by assets of an equivalent maturity, risk profile and credit quality
- But does it represent cost to Government?
 - when Govt is monopoly supplier to ILG market
- Yields would rise if more ILGs issued to fund plans
- "would not assist the objective of stability nor the fair reflection of costs" (UK actuarial profession response)

Ultimately Government found the arguments against this option persuasive

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GDP growth

Some arguments put forward:

- Future source of income to fund liabilities is the tax base, so contributions should be set with reference to future growth of that income stream
- Best ensures that the future cost of the public service unfunded plans remains affordable
- Intergenerational fairness
- Makes comparison with private sector more difficult
- Drawback of basing on a forecast

Ultimately Government believes this option best meets the purposes and objectives identified

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Public service pension reform

- Hutton review
- Change from RPI to CPI
- Requirement for additional 3% member contributions
- Discount rate consultation
- Pay freeze and reform within the services

Non Hutton changes

- Member contribution increases in April 2012:
 - "Low paid" protected
 - Progressivity
 - Minimising opt outs
- · Discount rate reduction:
 - RPI + 3.5% pa
 - CPI + 3% pa

Hutton Changes

- Government accepted recommendations "as a basis for consultation"
- Hutton rejected use of pension as a recruitment and retention tool as too inflexible
- Stresses need for adequacy and fairness and maximising participation

"The Deal": Main Hutton Recommendations

- Career average for the future
- Accrued rights protected including the salary link
- Indexation should be in line with average earnings
- Future benefits payable at state pension age future changes affect all new style benefits
- Capped costs with default changes
- · New governance, disclosure, legal basis

US and UK: common issues and challenges

- Affordability and sustainability
- Adequacy
- Fairness within public sector and relative to private sector
- Sharing of costs with workers
- Viability of funded pension provision at entity level
- Transparency and governance

