



Notts County Council Pension Fund AGM

Outlook for 2013 Actuarial Valuation...and beyond.....

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Purpose of valuations

Approach depends on question being asked	• Many questions!
Ongoing triennial funding valuation	 How much do employers need to pay in future to have enough assets to pay benefits?
Annual accounting valuations (IAS19/FRS17)	 Help accountants compare If we were a plc how much would we need to borrow to finance liabilities?
Cessation valuations	 Have we enough assets to meet liabilities? How much risk do we leave on the table? Different approaches depending on employer situation

Triennial Funding Valuation

Set out in LGPS Regulations	 to certify levels of employer contributions to secure the solvency of the Fund
Also have to look at Funding Strategy Statement	 As determined by administering authority With some actuarial help!
Actuary to "have regard to desirability of maintaining as stable a contribution rate as possible"	 Function of Funding Model / investment strategy Spreading and stepping
Different approaches possible for different employer types	Statutory/non statutory bodiesOpen or closed admission agreements

Annual Accounting Valuations

FRS17 or IAS19	 Essentially the same
Key objective is consistency of measurement	• Help accountants compare
Some hard coding of assumptions	• Discount rate
Inconsistent asset and liability valuations	 Lots of volatility Some counter intuitive results sometimes

How do we do it?



How do we do it?



Look at accrued benefits and future benefits separately

Past Service

• Compare assets with value of accrued benefits

Future Service

 Determine contribution required to meet value of annual accrual of benefits

Calculations completed at

- Whole fund level
- At individual employer level to identify any outliers and for accountants!

But maybe pool similar employers to help with stability

• Price of stability is some cross subsidy

Assumptions

Price Inflation (RPI)

- Usually difference between fixed interest and index linked gilts
- CPI adjustment required

Salary Increases

- Usually 1-2% pa more than price inflation
- Short term adjustment?
- Long term adjustment?

Discount rates

 Depends on purpose and objectives of valuation

Statistical assumptions

- Investigate past experience
- Use national data
- Adjust for actual experience

Discount Rates

Accounting valuation

Corporate bond yields / cost of borrowing

Minimum risk cessation

• Gilt yields

Ongoing funding valuation

• Expected future investment returns from actual investment strategy

Gilts and bonds – easy....

• Redemption yields

Equities – less easy....

- Fixed risk premium over gilts (Gilt + model)
- Economic model (BW model)

Property/alternatives – keep it simple

Somewhere between equities and gilts

Discount Rates / Equity Returns

Gilt Plus models

"Risk based" approach based on alleged tPR approach

• Doesn't apply to LGPS!

Value liabilities on minimum risk gilts basis

- Increase risk factor via fixed risk premium
- Discount rate then gilts plus something
- Based on asset strategy and employer covenant
- Seems quite sensible and nice and simple

But liability values then behave like gilts

- Potential for lots of volatility
- Equities and gilts not well correlated especially in short term

Problems with quantitative easing

- BoE making pensions "more expensive"
- Government taking an interest

Discount Rates / Equity Returns

Our economic model

- Been using and developing for 15 years
- Specifically designed for LGPS

Assumes equity returns function of

- Dividend income plus
- Economic/dividend growth

Returns then risk adjusted

- If more than 75% in equities
- Minimum and maximum real discount rates as well

Valuation results assessed over 6 month period spanning valuation date

- Essentially some smoothing
- Helps meet stability objective

More complex model

But more robust and stable valuation results

Where were we?

2010 Valuation

Average ongoing employer cost

• 13.5% of payroll

Funding Level

• 84%

Deficit Contribution

4.5% of payroll for 20 years

Total Average Employer Contributions

• 18% of payroll

Individual employer recovery periods and funding strategies

Change in Asset Values



Change in Asset Values



Change in Asset Values



Change in Asset Values



Change in Asset Values



Changes in Yields / Discount Rates

Change in Discount Rates



1% reduction in discount rate increases liability value by ~20%

Changes in Yields / Discount Rates

Change in Discount Rates



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Changes in Yields / Discount Rates



1% reduction in discount rate increases liability value by ~20%

Change in Funding Levels



Change in Funding Levels



Change in Funding Levels



Change in Employer Contribution



Change in Employer Contribution



Conclusions

Accrued benefits

- Funding level down a little
- Cash deficit up a bit

Ongoing Employer Contributions

- Average employer contributions up a little
- But LGPS 2014 will save a little for some

Total Employer Contributions

- All else equal up a little
- But payroll reduced
- So deficit contributions (as % of pay) up a bit

Overall

- Probably more cash required
- Phase in any increases
- Will vary by employer

Changes to LGPS

New benefits and contributions from 2014

- Move to average pay scheme
- Change in pensionable pay definition
- Change in member contribution rates

Public Sector Pensions Act 2013

- Change to current structures
- Re-naming of existing bodies
- Creation of new bodies with new duties and responsibilities
- Increase in regulation
- Greater focus on governance of schemes
- Biggest impact on locally administered schemes local government, police and fire

Who's Who?

"Responsible Authority"

• DCLG

"Scheme Manager"

Administering Authority

"Pensions Board"

- New local body
- Employer representatives
- Member representatives

"Scheme Advisory Board"

• New national "oversight" body

"The Pensions Regulator"

Existing body but new scope

New Governance Structure (LGPS)



