



World Bank Core Course on Pensions Washington, May 2015

Agenda

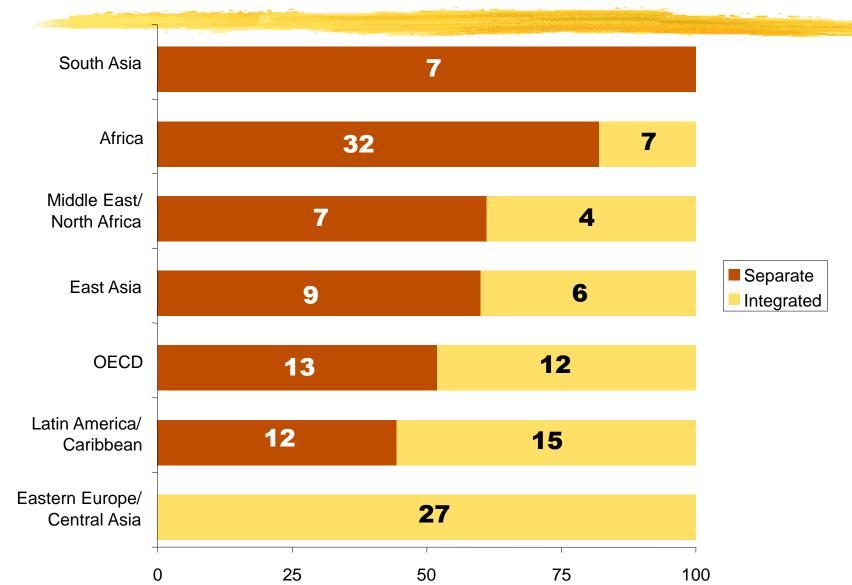
- Institutional arrangements for public-sector workers' pensions
- Demographic pressures on finances
- □ Flexibility and portability of civil-service pensions

Origins

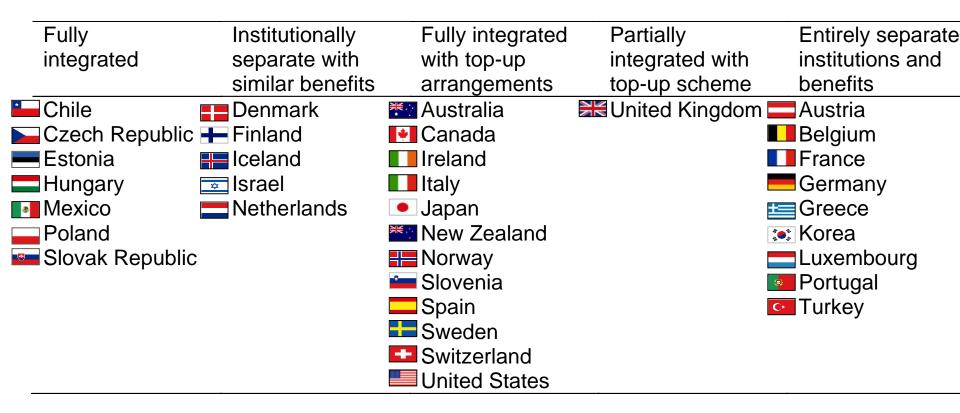
Civil-service pension schemes usually set up before national programmes

- □ independence of civil servants
- make working for the public sector attractive
- shift the cost of remunerating civil servants into the future
- Separate schemes then often persisted after national schemes established: `dualism'

Institutional arrangements around the world



Institutional arrangements



Institutional arrangements

Separate

Angola Benin Burundi Cameroon Congo, DR Congo, R Cote d'Ivoire Gambia Guinea Guinea-Bissau Kenya Madagascar Malawi Mali Mauritania Mozambique Niger Senegal Sudan Tanzania Togo Uganda Zimbabwe

Partially integrated 1

Botswana Lesotho Mauritius Namibia South Africa Swaziland

Partially integrated 2

Liberia

Integrated

Cape Verde Central African Republic Chad Ethiopia Ghana Nigeria Rwanda Sao Tome e Principe Seychelles Sierra Leone Zambia

No private-sector scheme

Eritrea South Sudan

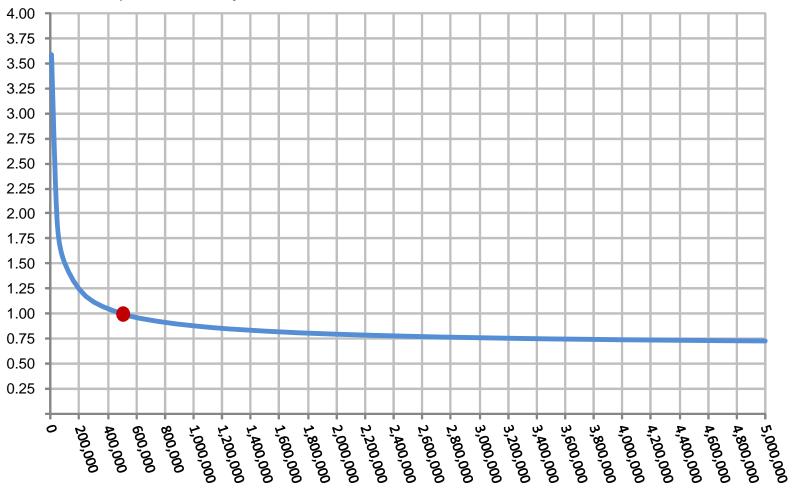
Dualism

Arguments against

- Integration gives civil servants direct, personal interest in the plan being well managed
- Economies of scale
- Mobility and portability
- Equity
- Transparency
- Long-term goal should therefore probably be integration of civil-service and national pension plans

Economies of scale

Relative cost per beneficiary

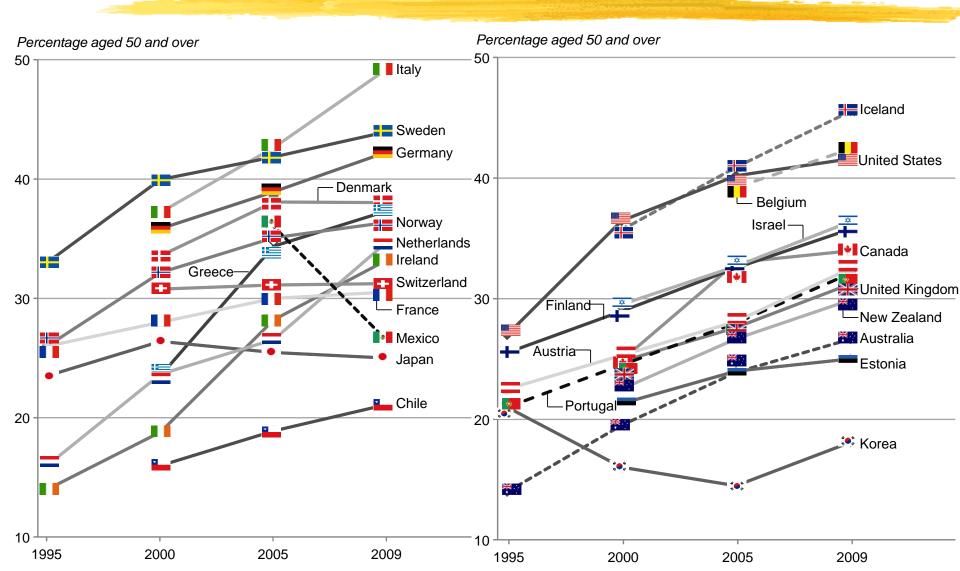


Number of beneficiaries

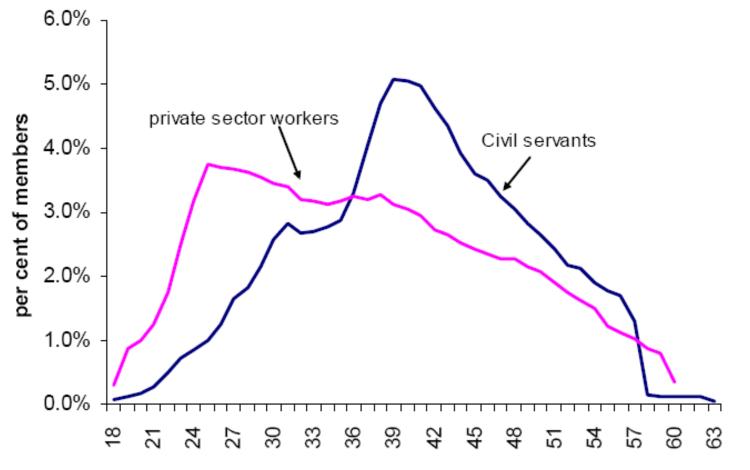
Central-government employment

| per cent of total population | | | | | |
|------------------------------|-------------|-------------|--|--|--|
| | early 1980s | early 1990s | | | |
| Africa | 1.8 | 1.1 | | | |
| Asia | 2.6 | 1.1 | | | |
| Latin America | 2.4 | 1.5 | | | |
| All developing countries | 2.2 | 1.2 | | | |
| OECD | 2.9 | 1.9 | | | |

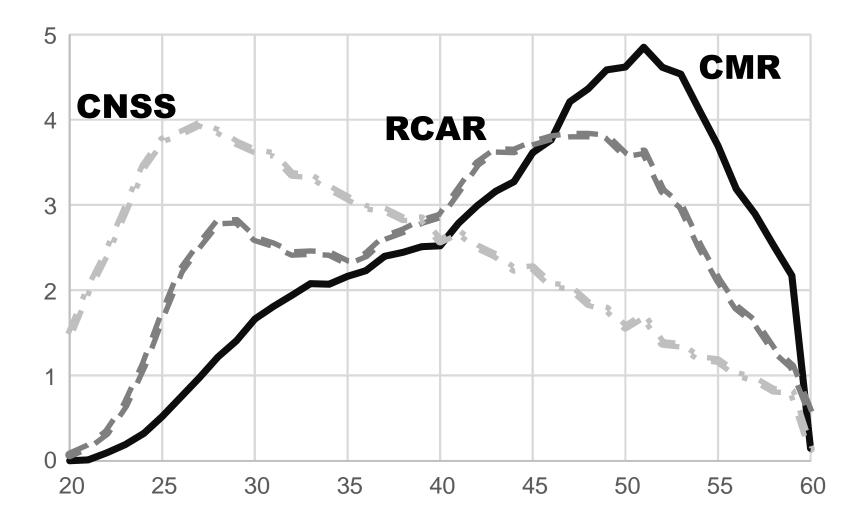
Ageing central-government workforce



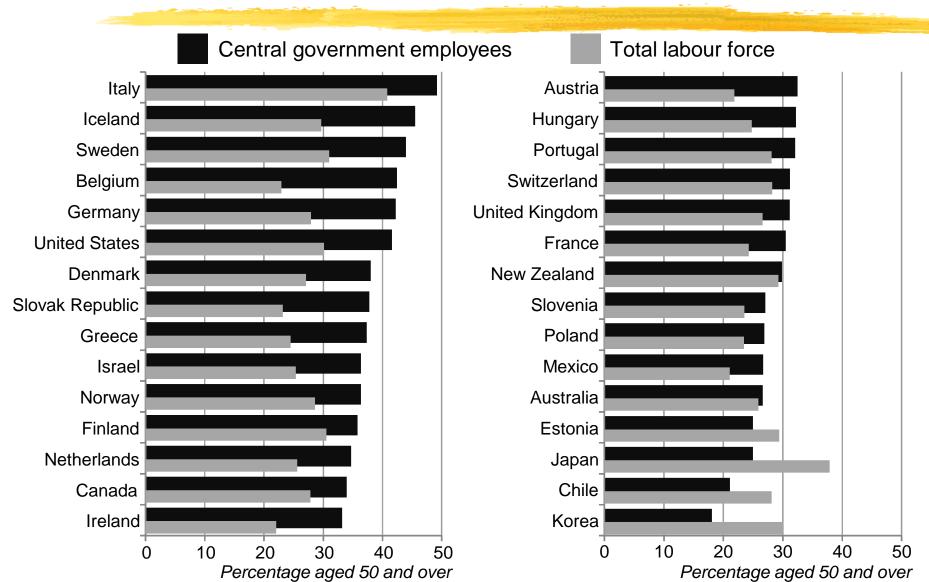
Example: Egypt



Example: Morocco



Labour-force demographics: central government vs population



Reform options 1

□ 'Parametric' reforms to defined benefit plans

- reduce replacement rate
- index pensions in payment to prices rather than civil-service earnings
- introduce/increase member contributions
- raise pensionable age
- extend averaging periods for 'final' salary
- □ 'Systemic' reforms
 - introduce new system for new civil servants with some element of pre-funding of obligations
- Any reform must take account of all aspects of civil-service terms and conditions

Reform options 2

□ Increasing contributions:

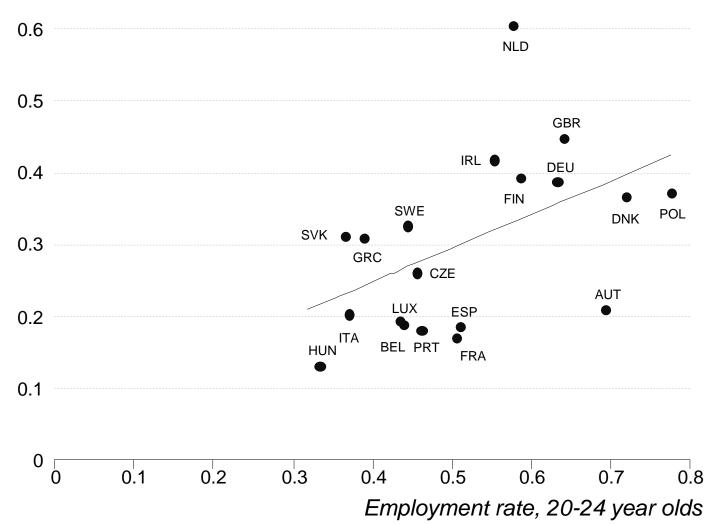
- employer contributions are just re-labelling, unlike national systems
- employee contributions may have an effect on wages or productivity

□ Increasing pension age:

- Civil service schemes are 'closed' systems
- so increasing retirement age has different effects than it does in national schemes: labour supply effect in national schemes
- Increase in retirement age cuts duration of benefit payments, but
- without downward adjustment of accrual rates to compensate, benefit values increase
- people might retire on higher pay if earnings continue to grow with age
- affects both pay and pension bills

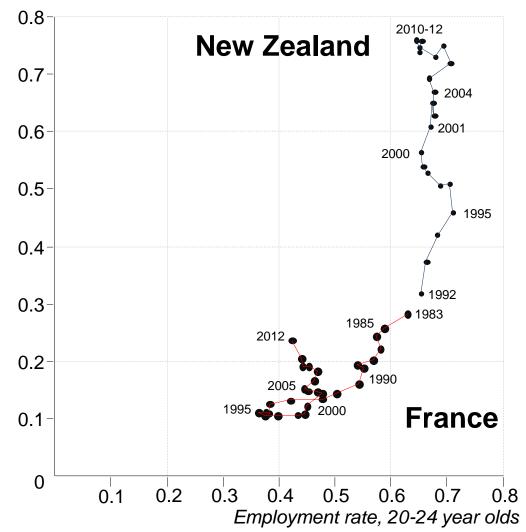
Lump-of-labour fallacy across countries

Employment rate, 60-64 year olds



Lump-of-labour fallacy over time

Employment rate, 60-64 year olds



Individual-level model: Morocco

| | Baseline | |
|------------------------|-------------|--|
| Contribution rate | 20% | |
| Contribution years | 33 | |
| Lifetime contributions | 6.6 | |
| (x annual salary) | | |
| Assumption | | |
| Accrual rate | 2.5% | |
| Gross replacement rate | 82.5% | |
| Net replacement rate | 106.7% | |
| (average earner) | | |
| Pension age | 60 | |
| Indexation | half prices | |
| Lifetime benefits | 13.2 | |
| (x annual salary) | | |
| | | |

Individual-level model

| | Baseline |
|-------------------------------|-------------|
| Contribution rate | 20% |
| Contribution years | 33 |
| Lifetime contributions | 6.6 |
| (x annual salary) | |
| Accrual rate | 2.5% |
| Gross replacement rate | 82.5% |
| Net replacement rate | 106.7% |
| (average earner) | |
| Pension age | 60 |
| Indexation | half prices |
| Lifetime benefits | 13.2 |
| (x annual salary) | |
| Benefit/cost ratio | 2.0 |
| Equilibrium contribution rate | 40% |
| Sustainable replacement rate | 41% |
| | / 0 |

Individual-level model

| | Baseline | Age 65: same accrual |
|---|-------------|-------------------------|
| Contribution rate | 20% | 20% |
| Contribution years | 33 | 38 |
| Lifetime contributions | 6.6 | 7.6 |
| (x annual salary) | | |
| Accrual rate | 2.5% | 2.5% |
| Gross replacement rate | 82.5% | 95.0% |
| Net replacement rate | 106.7% | 122.3% |
| (average earner) | | |
| Pension age | 60 | 65 |
| Indexation | half prices | prices |
| Lifetime benefits | 13.2 | 11.2 |
| (x annual salary) | | |
| Ronofit/cost ratio | 2.0 | 1.5 |
| Benefit/cost ratio Equilibrium contribution rate | 40% | 38% |
| | 40% | 50% |
| Sustainable replacement rate | 41% | 50% |

Individual-level model

| | Baseline | Age 65: same accrual | Age 65: lower accrual |
|-------------------------------|-------------|-------------------------|--------------------------|
| Contribution rate | 20% | 20% | 20% |
| Contribution years | 33 | 38 | 38 |
| Lifetime contributions | 6.6 | 7.6 | 7.6 |
| (x annual salary) | | | |
| | | 2 50/ | 2 20/ |
| Accrual rate | 2.5% | 2.5% | 2.2% |
| Gross replacement rate | 82.5% | 95.0% | 82.5% |
| Net replacement rate | 106.7% | 122.3% | 106.7% |
| (average earner) | | | |
| Pension age | 60 | 65 | 65 |
| Indexation | half prices | prices | prices |
| Lifetime benefits | 13.2 | 11.2 | 9.7 |
| (x annual salary) | | | |
| | | | |
| Benefit/cost ratio | 2.0 | 1.5 | 1.3 |
| Equilibrium contribution rate | 40% | 38% | 26% |
| Sustainable replacement rate | 41% | 50% | 64% |
| | | | |

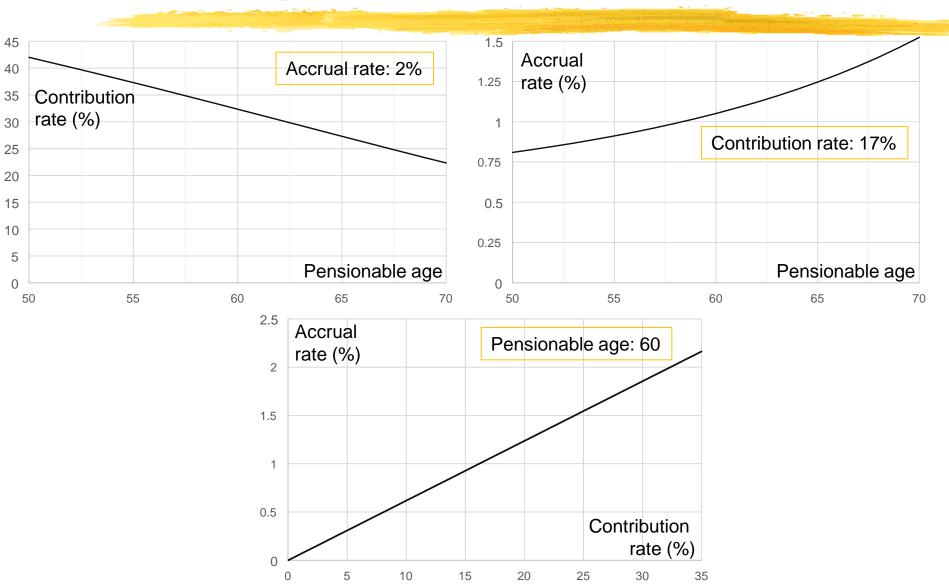
Pension possibilities

□ Three key variables:

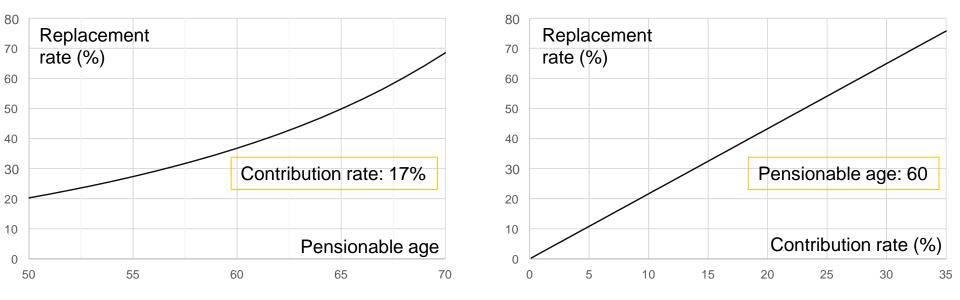
- accrual rate
- pension eligibility age
- contribution rate

Look at the sustainable combinations

Pension possibilities



Pension possibilities: replacement rates



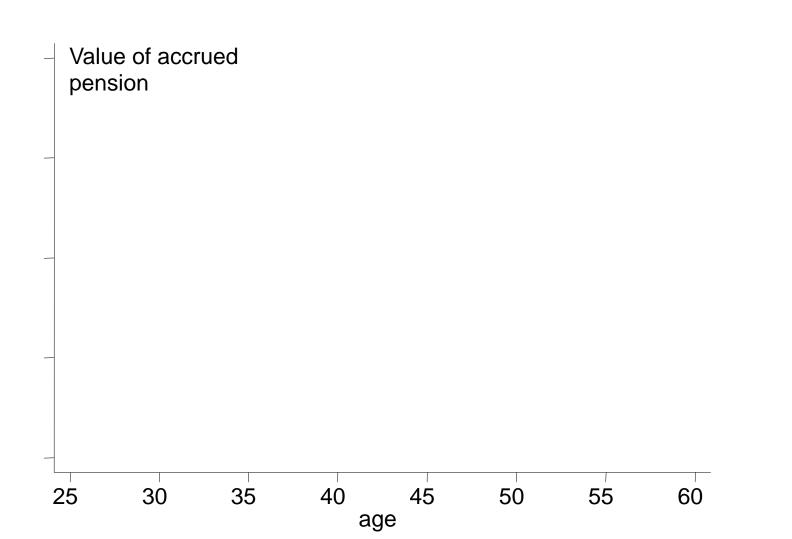
Flexibility and portability

- □ Civil service schemes are inflexible: ill designed to deal with people without full careers
- But flexible schemes are increasingly important
 - 'revolving doors': cross-fertilisation between public and private sectors
 - transfer of employees due to privatisation or contracting out

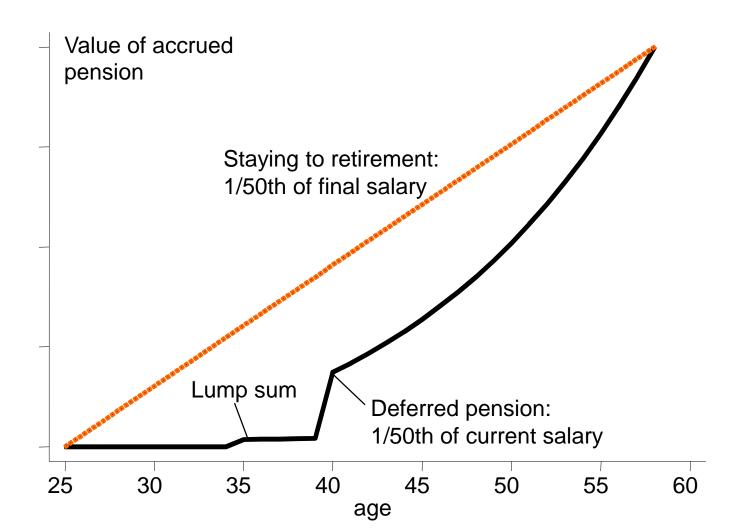
Penalties to moving jobs

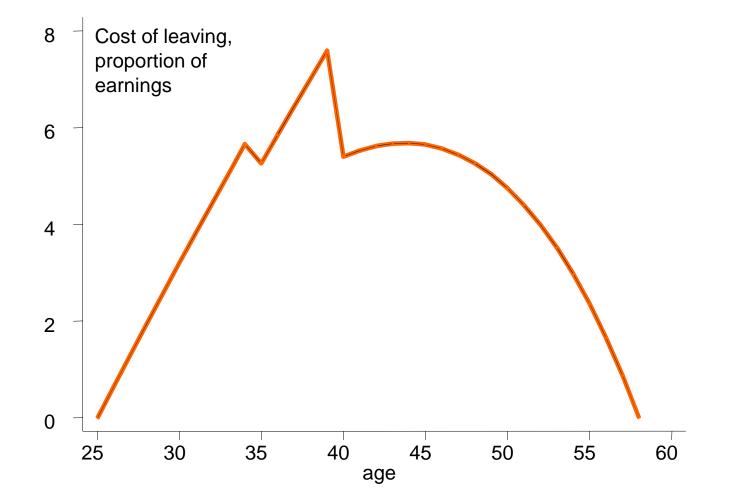
Vesting periods: when individual qualifies for a pension

- <1 year in Finland, Netherlands, Sweden, Switzerland, UK</p>
- 5 years in Belgium, Germany, Ireland, Italy
- 15yrs in Austria, France, Spain, Mauritius, Senegal
- people can leave with nothing
- Treatment of 'early leavers': what happens to the benefit between leaving the job and claiming the pension?
 - full transferability (Finland, Netherlands, Sweden) moves to occupational plan with same benefits in private sector
 - full preservation (France) accrued rights uprated in line with civil-service earnings
- In other countries, a pension cost to moving jobs

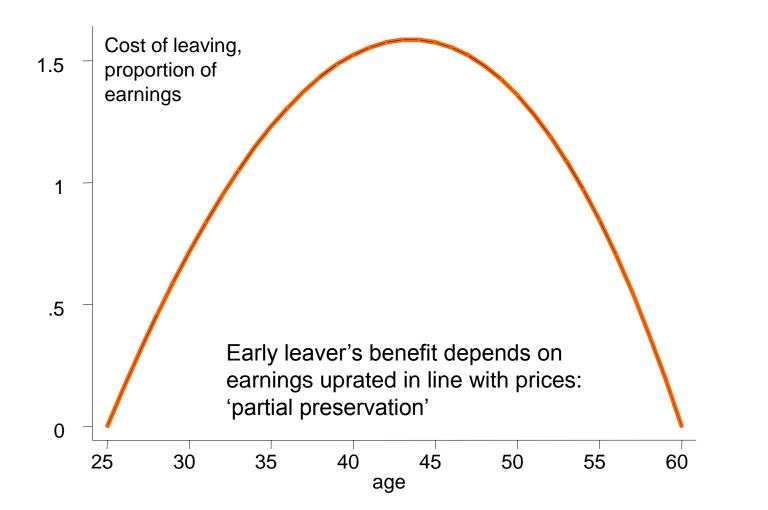




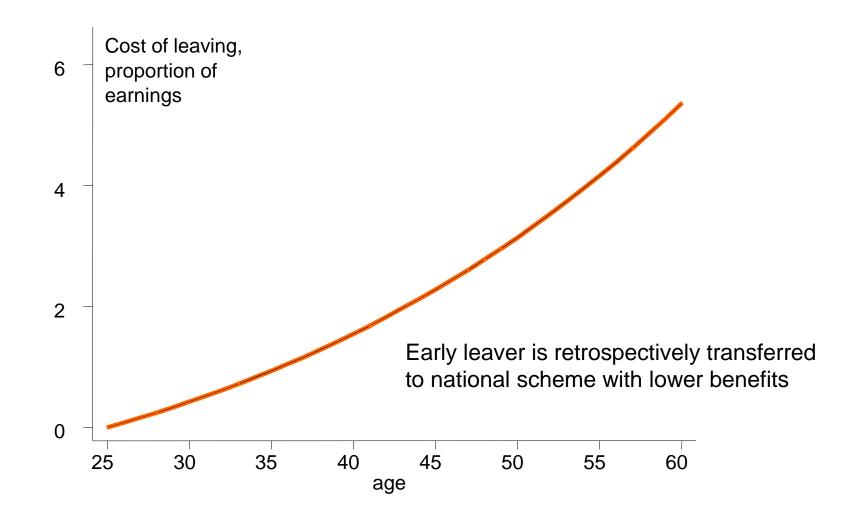




Example: UK







Reforms to improve portability

- Shorten vesting periods
- Preserve pension rights of early leavers
- Extend averaging period for 'final salary'
 - career average uprating eliminates the mobility problem
 - also deals with problems of incentives for abuse
 - but requires improvements in record-keeping
- Introduce a defined contribution scheme
 - fully portable

Conclusions

- Reform of civil-service pension schemes is important in low- and middle-income countries
 - often, larger expenditure than national schemes
 - crowds out important social programmes
- Many options to put civil-service pension schemes on a sustainable footing
- □ Structural issues as important as fiscal ones
 - single national scheme would be more administratively efficient, equitable and increase labour-market flexibility
 - equity and efficiency also improved by longer averaging periods for earnings, shorter vesting periods, preservation for early leavers, DC option