



Evidence of socioeconomic differences in mortality and policy implications

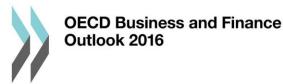
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Outline for today's presentation

- Evidence of differences in life expectancy across socioeconomic groups
 - Education
 - Income
 - Occupation
- Implications for pensions and insurance
 - Challenges to manage and mitigate longevity risk
 - Opportunities for product innovations to meet the needs of different segments
- Policy considerations
- Discussion

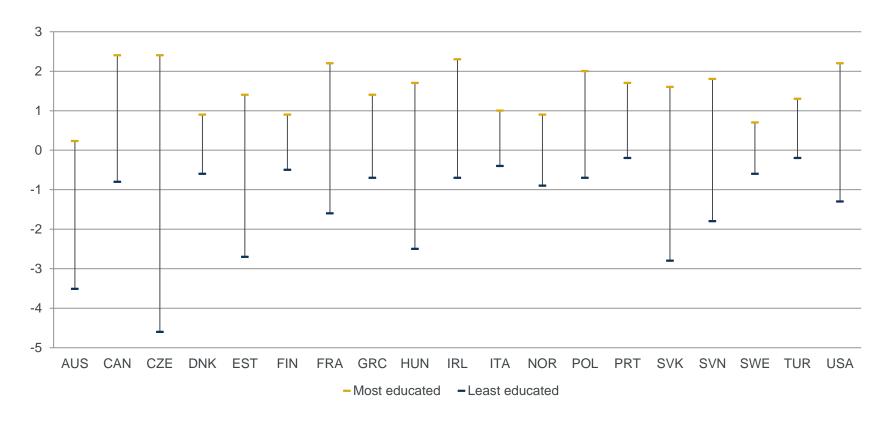








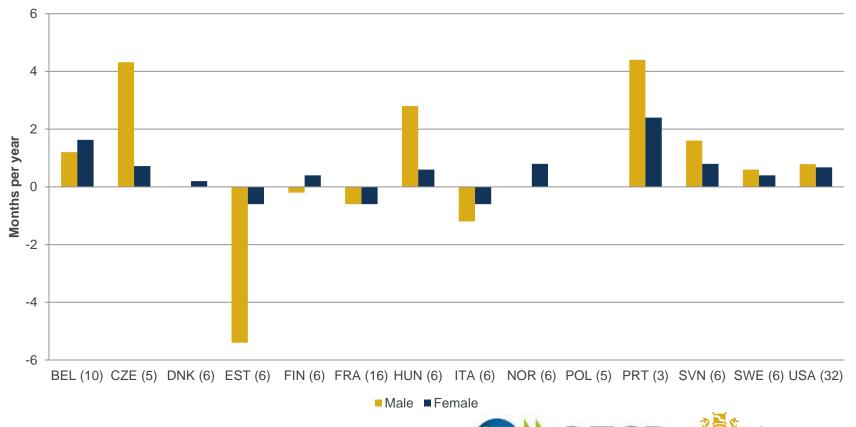
Life expectancy at age 65 of the most and least educated males, relative to population average



Sources: See OECD Business and Finance Outlook 2016



Annualised difference in the change of life expectancy at age 65 between the most and least educated

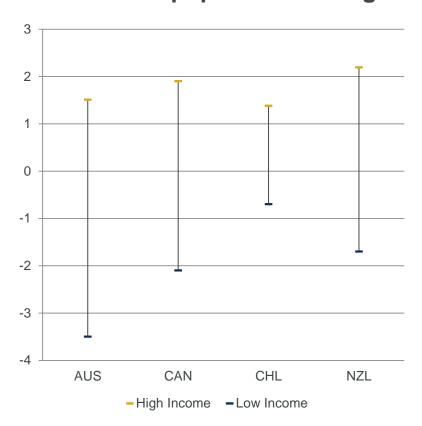


Sources: See OECD Business and Finance Outlook 2016



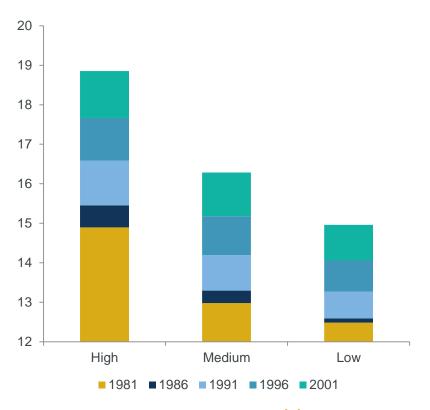
Life expectancy at age 65 for males across income levels

Relative to population average



Sources: See OECD Business and Finance Outlook 2016

New Zealand, evolution 1981-2001

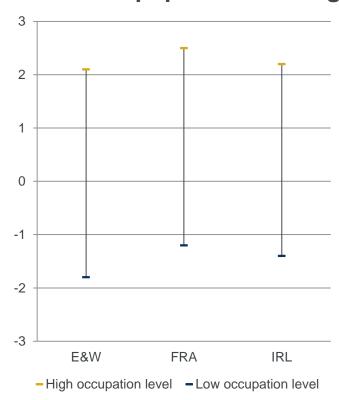




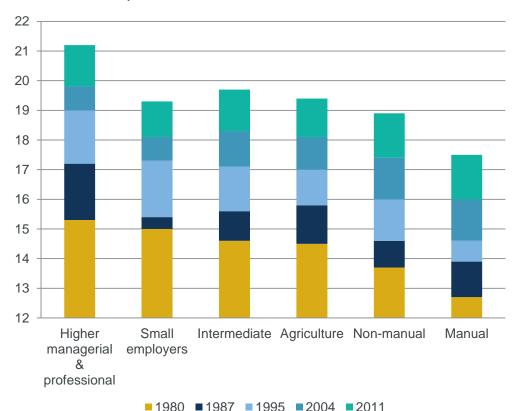


Life expectancy at age 65 for males across occupation levels

Relative to population average



France, evolution 1980-2011



Sources: See OECD Business and Finance Outlook 2016

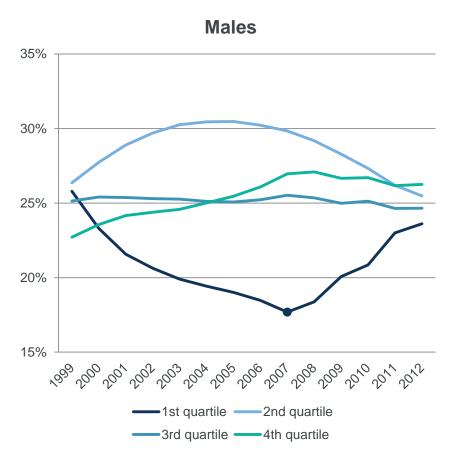


Challenges to establishing mortality assumptions

- Lack of sufficient data for mortality improvement assumptions
 - Base on general population
 - Base on combined sub-populations, e.g. across occupations
- External shocks may change underlying demographics
 - 2008 pension reform in Chile
 - 2014 pension freedoms in the UK



Chile: 2008 pension reform



Source: Chilean Pension Supervisor

- 2008 pension reform increased coverage for lower income individuals
- Increased coverage for lower income individuals increased overall mortality for pensioners
- Implied mortality improvements of pensioner population understated





United Kingdom: 2014 removal of requirement to purchase an annuity

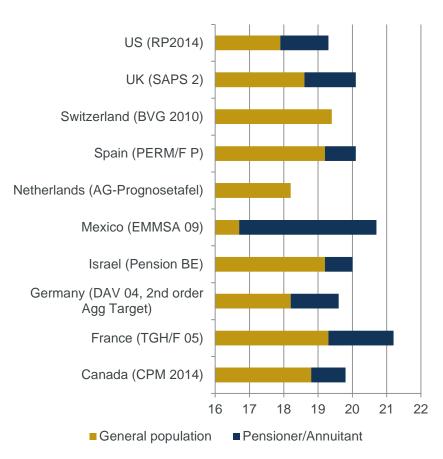
- 2012
 - 25% of annuities sold to existing customers were for pension pots less than 5,000 GBP
- July-September 2015
 - 90% of individuals not taking a guaranteed annuity rate had pension pots less than 10,000 GBP

Source: FCA



Challenges to the mitigation of longevity risk

Male life expectancy, age 65



Source: See OECD Business and Finance Outlook 2016

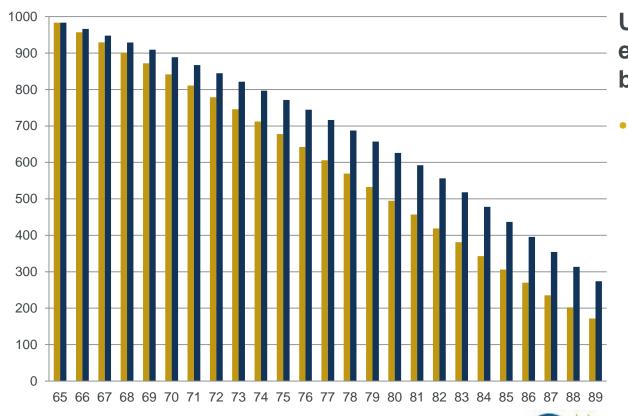
Pensioners and annuitants generally skewed towards higher socioeconomic groups

- Depends on structure of pension system
- Higher risk that mortality improvements will be higher than assumed
- Higher risk premium charged by reinsurers
- Capacity issues?





Challenges to the mitigation of longevity risk



Uncertainty around the effectiveness of an indexbased hedge

 Indexing to the general population mortality less likely to cover additional payments to pensioners/annuitants

■ Swap Payment ■ Annuitant Payment Source: Based on INSEE





Opportunities to better meet varying consumer needs for retirement

- Lower socioeconomic groups
 - e.g. enhanced annuities offer higher levels of income for consumers having lower life expectancies due to behaviours such as smoking or health issues
- Higher socioeconomic groups
 - e.g. variable annuities offer higher levels of flexibility and liquidity for consumers more comfortable with investing and a desire to maintain control of assets



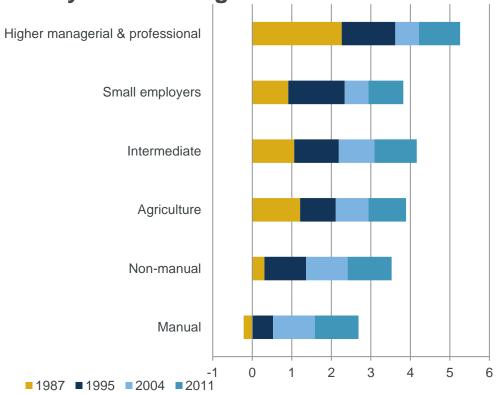
Policy considerations

- Facilitate the measurement and management of longevity risk
 - Timely and accurate data by socioeconomic indicator should be made available
- Encourage the development of sustainable products to meet the needs of various segments
 - Carefully consider any ban on risk factors used for pricing
 - Appropriate reserve requirements
 - Encourage demand through the provision of information



Policy considerations

Additional years beyond age 65 to maintain a ratio of years in retirement to years working at 0.33 in France



- Ensure that rules governing access to pensions do not penalise lower socioeconomic groups
 - Minimum age to gain full access
 - Maximum withdrawal limits
 - Annuitisation requirements





Source: Based on INSEE

Discussion

- Measuring and managing longevity risk
 - How are you addressing the impact of the pension freedom on annuitant demographics?
 - Are differences in improvement rates taken into account?
- Product opportunities
 - Are enhanced annuities still a solution for lower socioeconomic groups?
 They are not common in other voluntary markets...
 - What has the impact of the pension reform been on product development?
 - Are there barriers to product innovation?
 - What are the limits to risk segmentation?
- Sustainable pensions
 - How to address increases in life expectancy?



Thank you!

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