

POPULATION AGEING AND SOCIAL SECURITY IN ASIA John Piggott and Rafal Chomik







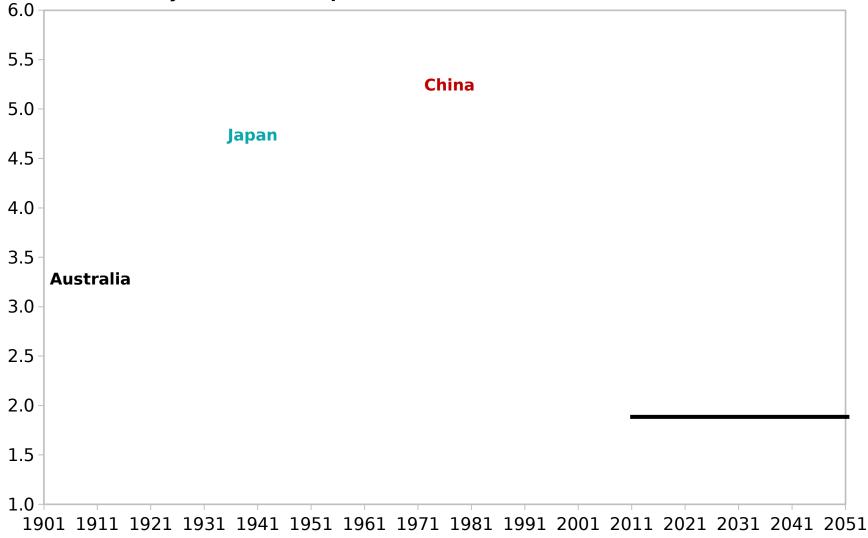
- 1. Demographic drivers
- 2. Population ageing
- 3. Associated trends

- 7. Retirement income
- 8. Labour market
- 9. Healthcare
- 10.Aged care

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1a. Demographic drivers: Fertility Total Fertility Rate (children per woman), 1901-2051



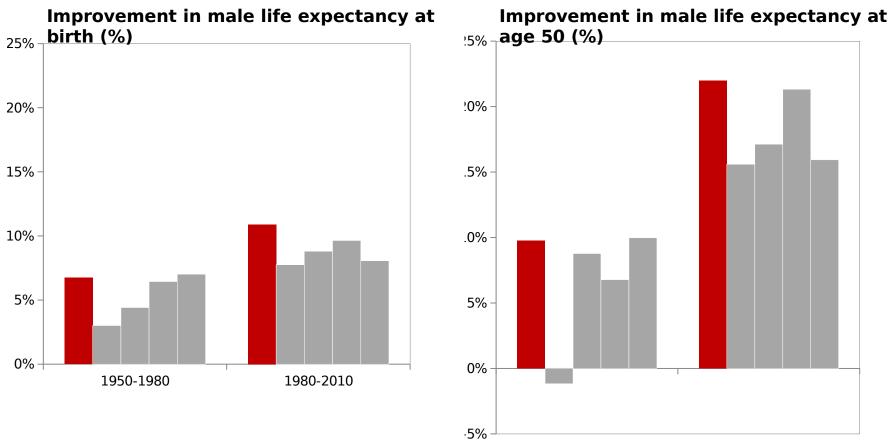
Source: ABS 3301.0 - Births, Australia; www.gapminder.org; UN (2011) 'World Population Prospects: The 2010 Revision'

1b. Demographic drivers: Life

95 -	2051	()			- 95
90 -					- 90
85 -					85
80 -					80
75 -					- 75
70 -					- 70
65 -	Australia Female				- 65
60 -					- 60
55 -	Australi				- 55
50 -	a Male	China Female			- 50
45 -	Japan	China			- 45
40 -	Female	Male			- 40
35 -	Japa				- 35
30- 19	Mal 01 1911 1921 1931 1941	1 1	81 1001 2001	2011 2021 2031 2041 2	30
тэ	01 1911 1921 1991 1941	1991 1901 1971 19	01 1991 2001	2011 2021 2031 2041 2	UDT

Source: Human Mortality Database www.mortality.org; ABS Cat 3302.0.55.001; ABS Cat 3105.0.65.001; UN (2011) 'World Population Prospects: The 2010

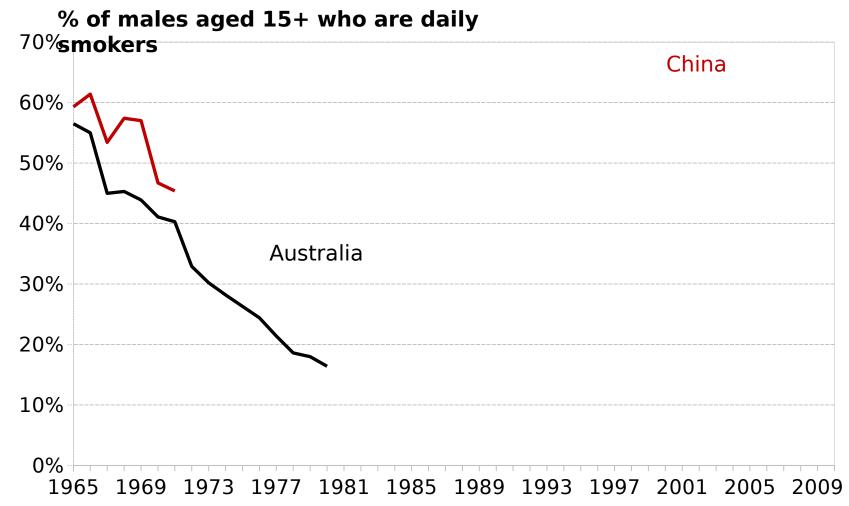
1b. Demographic drivers: Mid-life longevity



1950-1980

¹⁹⁸⁰⁻²⁰¹⁰

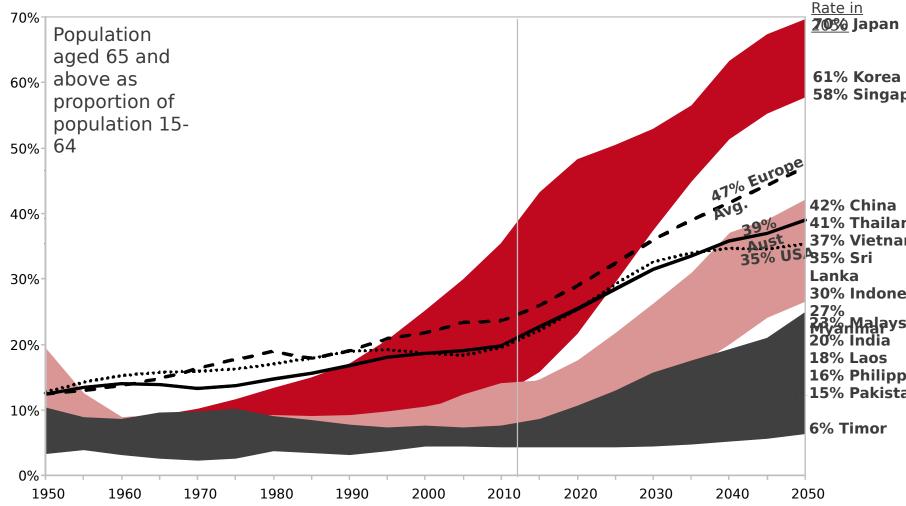
1b. Demographic drivers: Mid-life longevity



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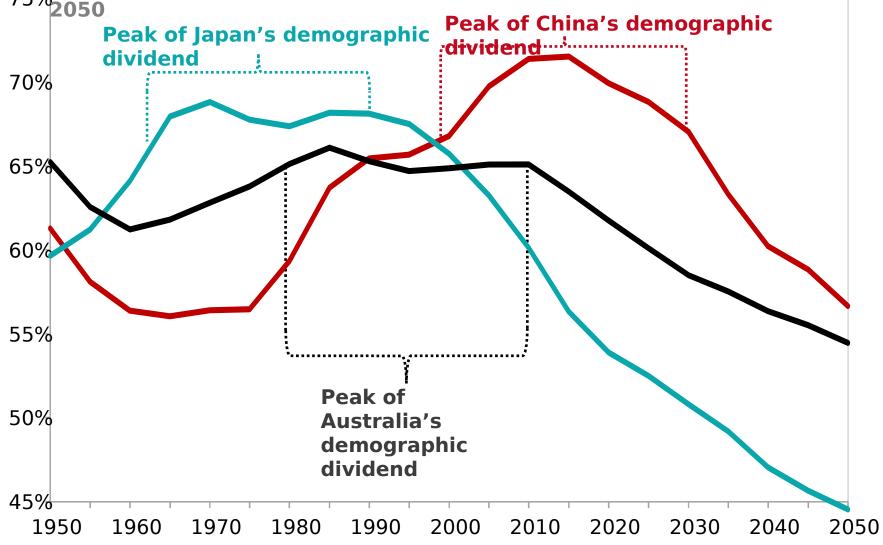
2a. Population ageing: Dependency ratio



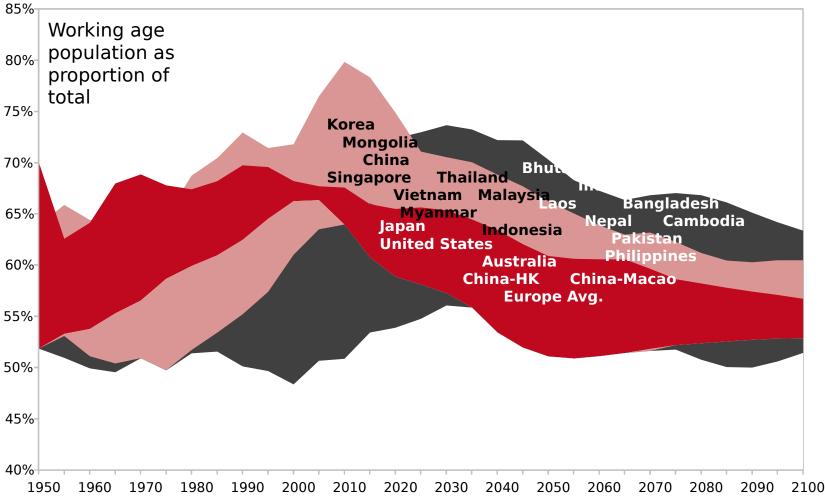
Source: Chomik & Piggott (2012)

2b. Population ageing: Demographic dividend

75% Working-age as proportion of total population (%), 1950-2050



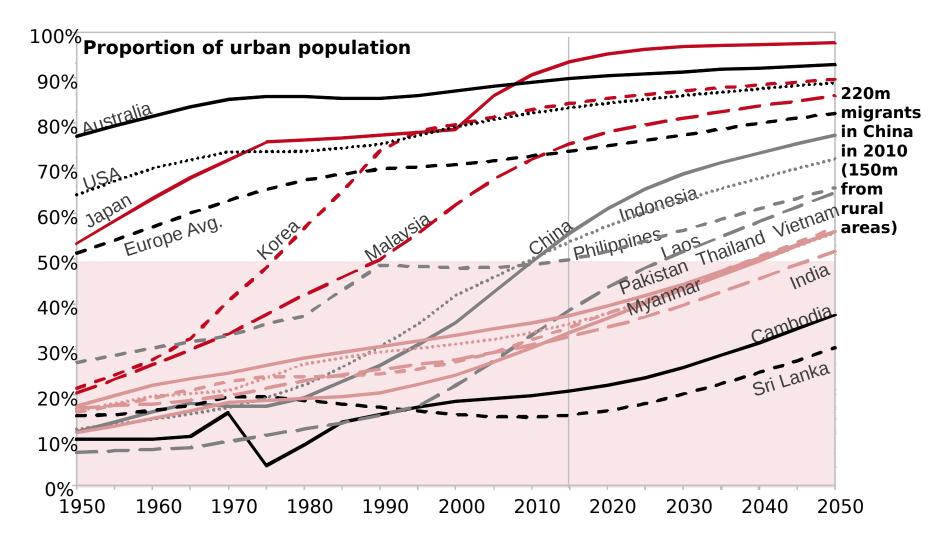
2b. Population ageing: Demographic dividend



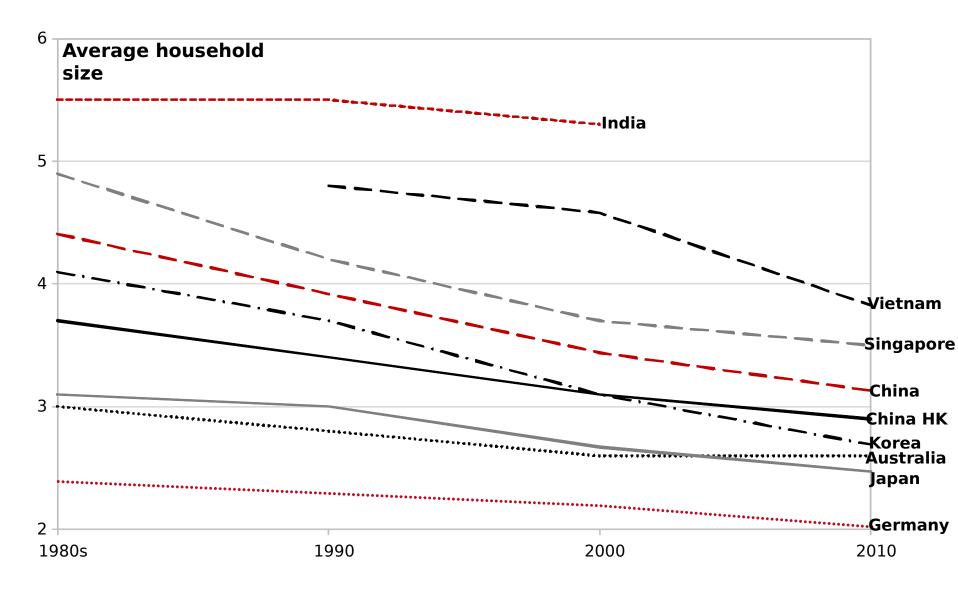
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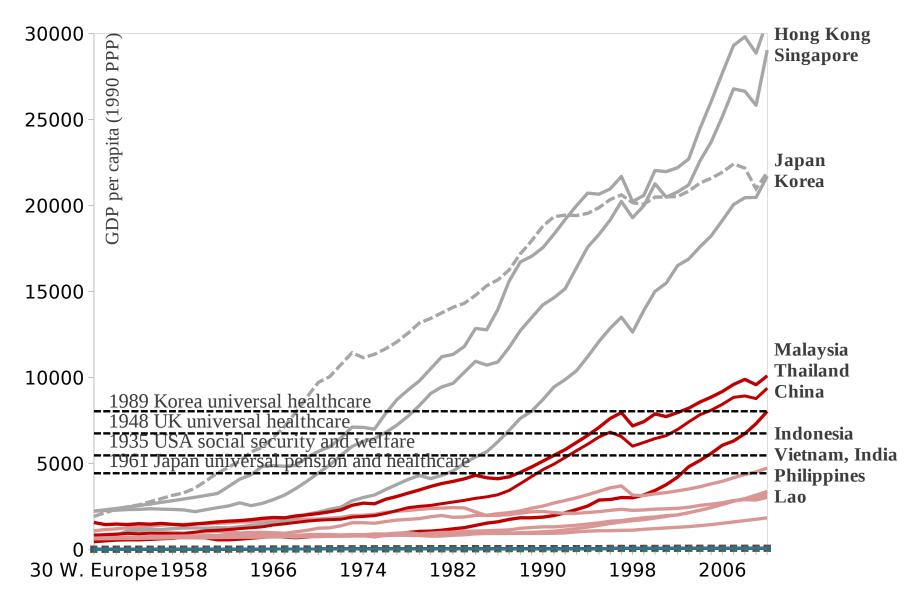
3a. Associated trends: Urbanisation



3b. Associated trends: Social



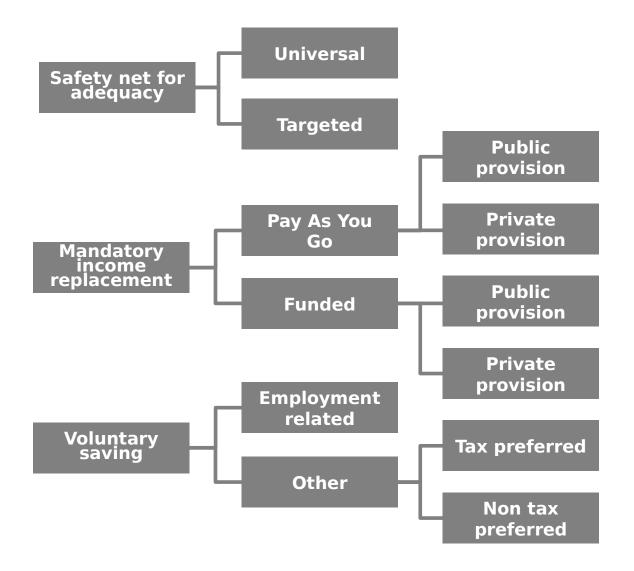
3c. Associated trends: Economic



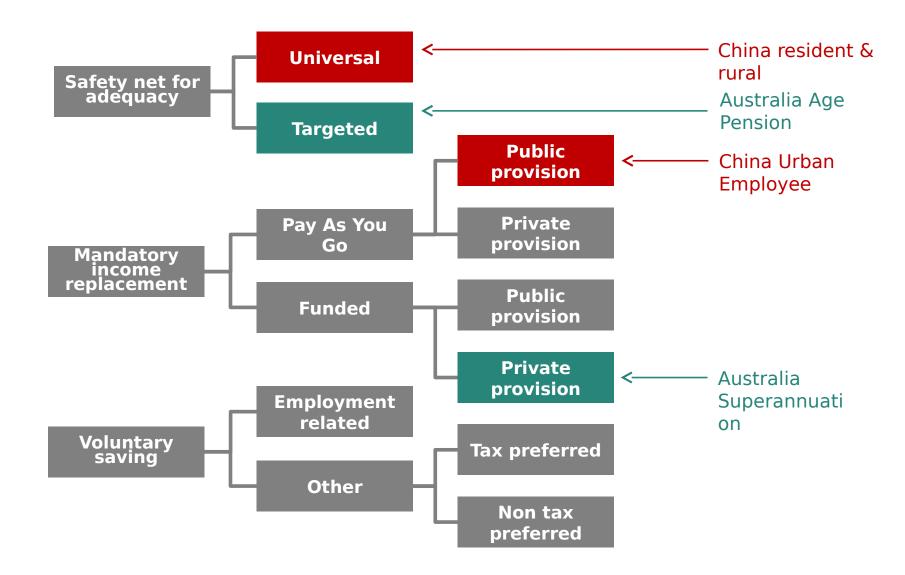
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4a. Retirement income: Structure



4a. Retirement income: 1ST pillar

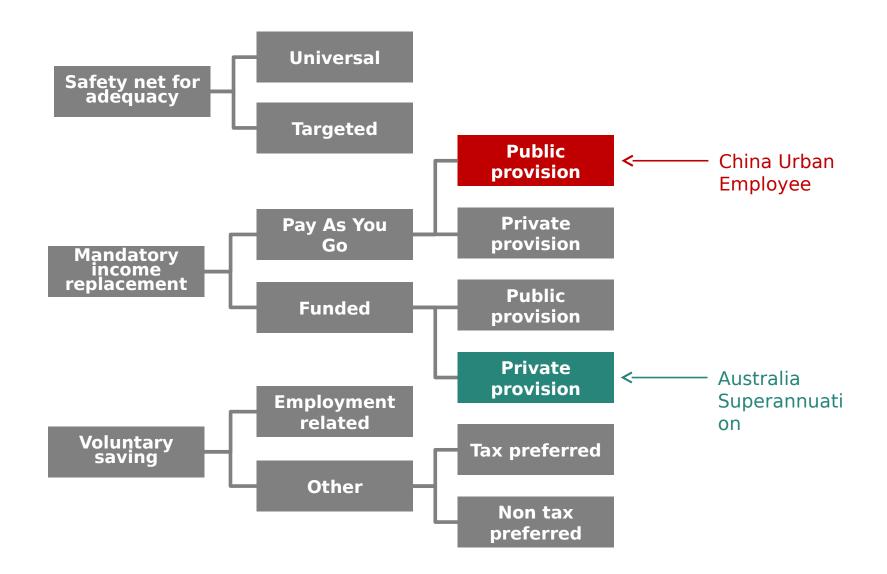


4a. Retirement income: 1st pillar

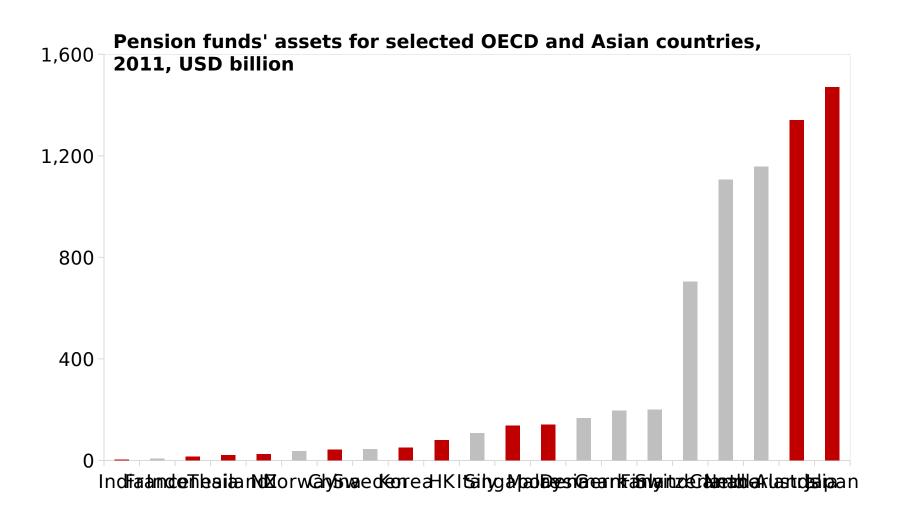
	Universal	Targeted	
Australia		28% of AW	
Hong Kong	Age 70+, 5% of AW	Age 65-69, 5% of AW	Exists but low
Japan	National Pension 16% of AW		
Korea	Basic Age Pension 31% of AW		Raised this yearfrom~5% of AW
China	Urban Resident Pension, Rural Pension		Exists but low
Indonesia			
Laos			
Malaysia			
Philippines	Old Age Pension basic, 4% of AW		Exists but low
Singapore			
Thailand	500 Baht scheme		Exists but low
Vietnam			

Source: Chomik & Piggott (2012)

4b. Retirement income: 2nd pillar



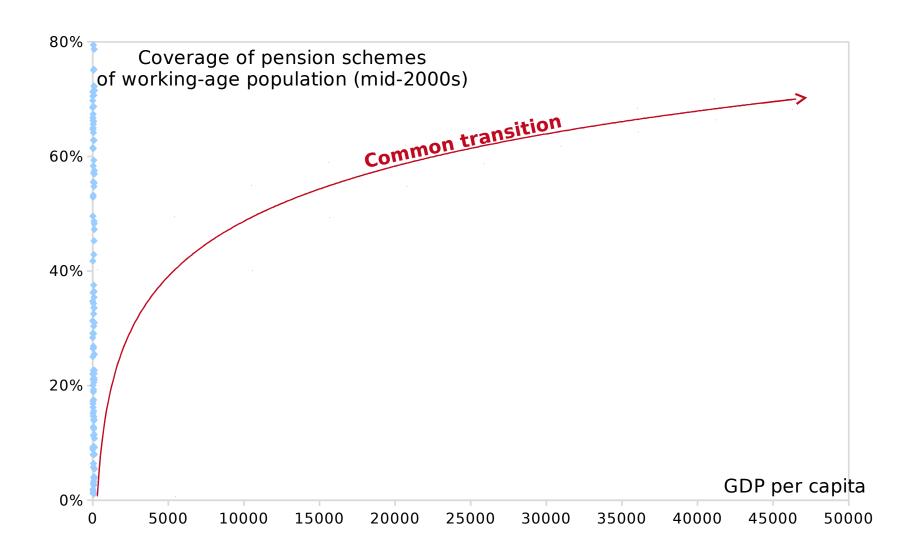
4c. Retirement income: 2nd + 3rd pillar



4d. Retirement income: Regulations

- 1. Accumulation and decumulation integration
- 2. Enrolment and contributions
- **3. Incentives**, particularly if voluntary
- 4. Low-cost retirement savings instruments
- 5. **Default investment**, but choice of risk profiles and horizons
- 6. Default life-cycle investment to protect those near retirement
- 7. Annuitisation to protect against longevity
- 8. Annuity market supply and cost-efficiency
- 9. Risk-hedging instruments and information
- **10Financial illiteracy** and communication

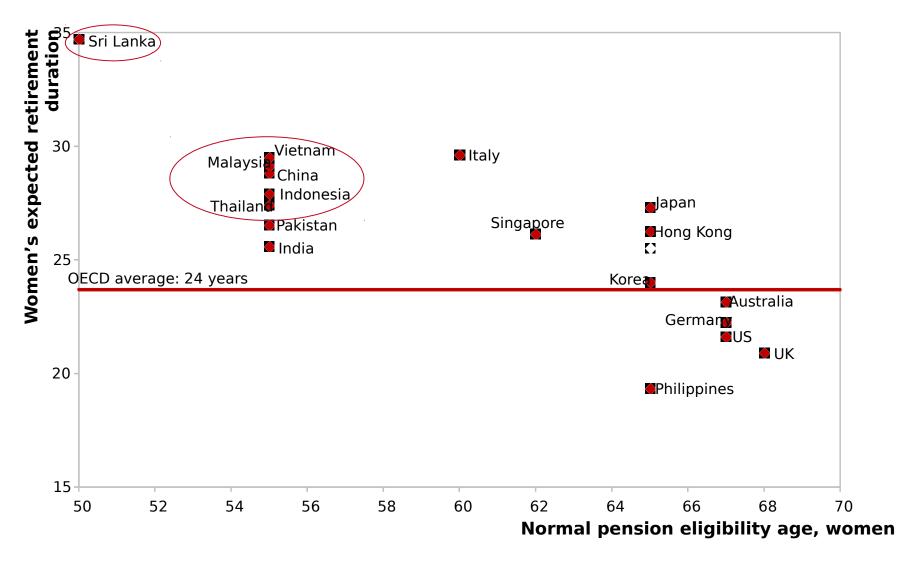
4e. Retirement income: Coverage



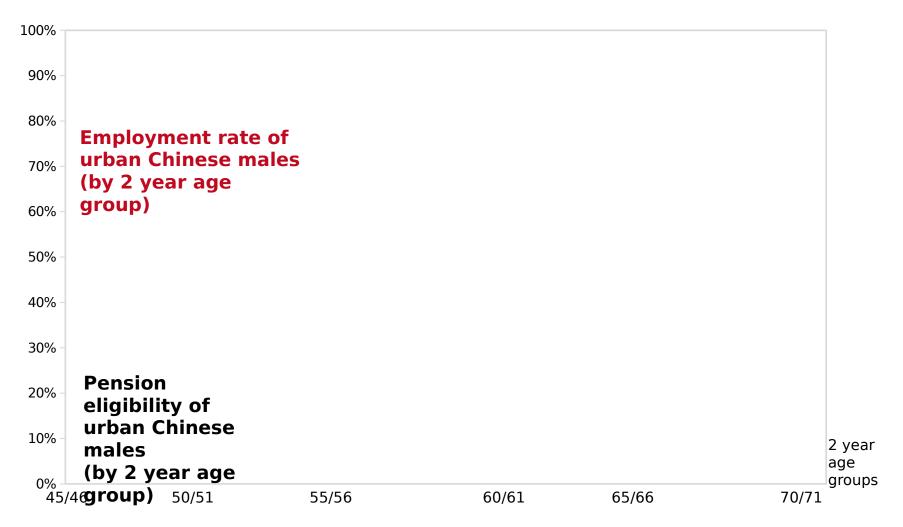
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5a. Labour market: Pension access age



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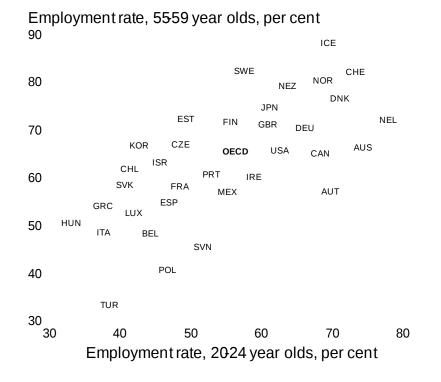


5b. Labour market: Lump of labour fallacy

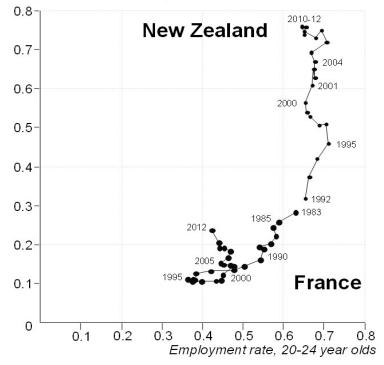
- That there is a fixed demand for labour and a job becomes available if someone stops work
- Used to support a supposed link:
 Early retirement
 Unemployment reduction
- In fact, working creates its own demand: More workers I more productive economy

5b. Labour market: Lump of labour fallacy

Across countries



Across time

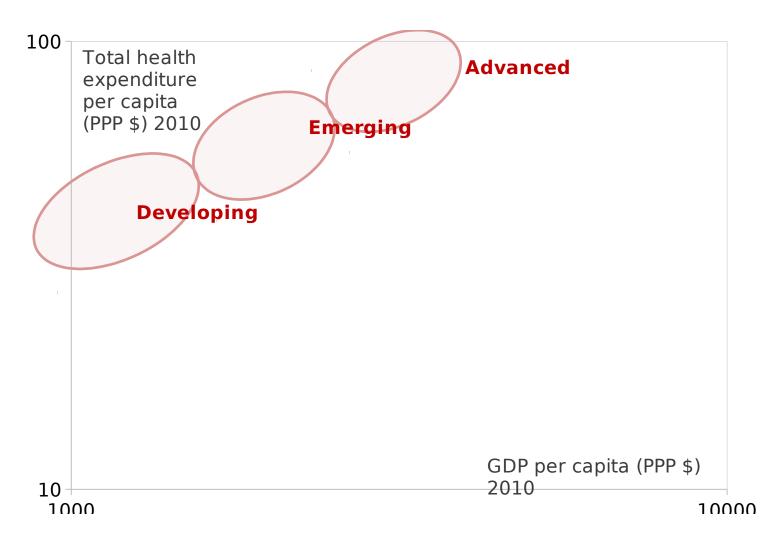


Employment rate, 60-64 year olds

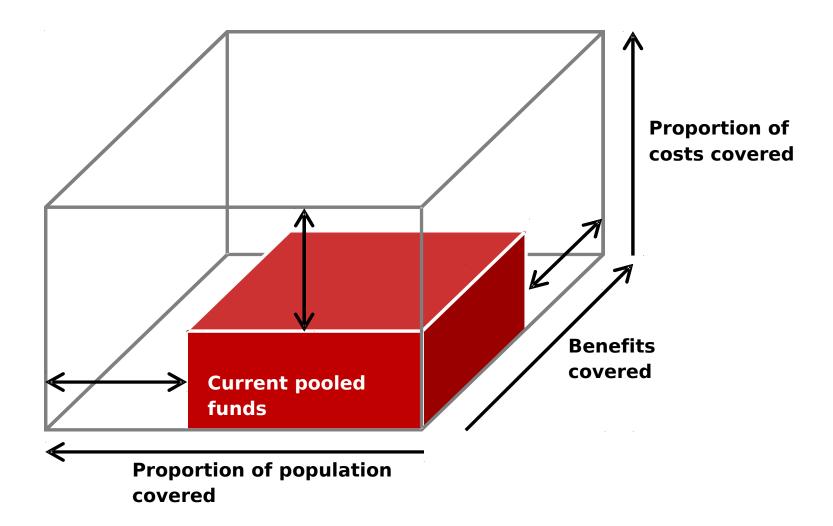
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6a. Healthcare: Different development levels



6b. Healthcare: Coverage concepts

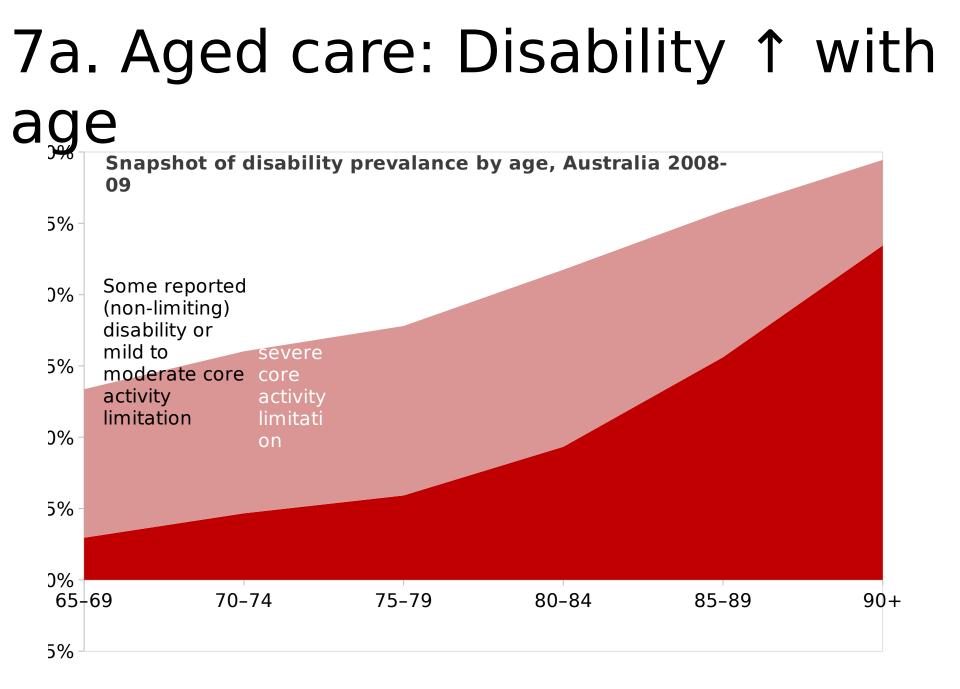


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Policy

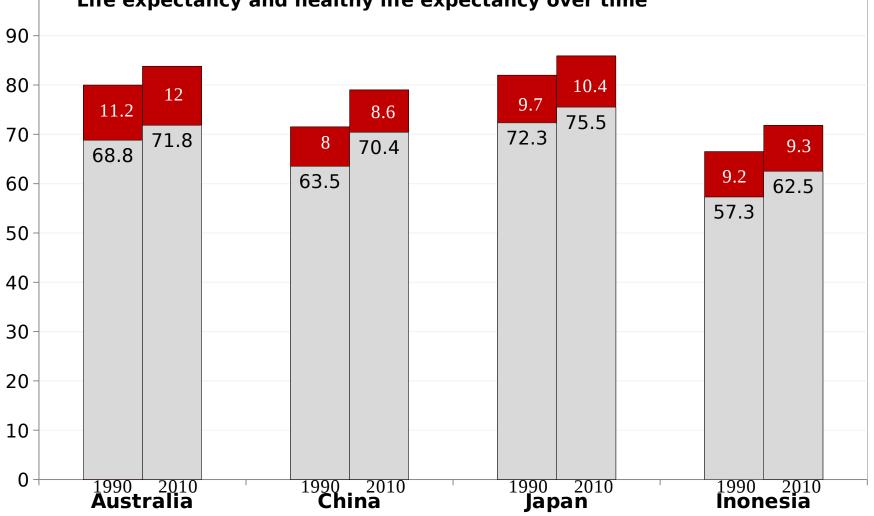
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10.Aged care



Source: Australian Bureau of Statistics (SDAC)

7b. Aged care: Years in disability ↑ Life expectancy and healthy life expectancy over time



Source: Global Burden of Disease Study

7c. Aged care: Expansion of supply

	Cumulative number of aged care homes in	of agedhelp with all aspects of development and				
)	selected Chinese cities	op sta	anagement: perations, tra andards as v uilding	aining and	Sector reclassifi	fied f
)		Before 1 96% we	L990, re govt		"restricte "permitt can be 1 foreign c	ted" 100%
0		run. By 2 80% of facilities				,
0 — C		Beijing	\bigvee	Tianjin	v Nanjing	

Source: Feng et al, 2011

7d. Aged care: Policy areas

- Structure (home v institution)
- Financing (public insurance / tax; means testing; reverse mortgages; private insurance)
- Informal care (support progs; labour market)
- Provision (efficiency / tech; workforce)
- Quality (regulation; market mechanisms)
- Interventions (prevention & rehabilitation)

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