



ARC CENTRE OF
EXCELLENCE IN
**POPULATION
AGEING
RESEARCH**

POPULATION AGEING AND SOCIAL SECURITY IN ASIA

John Piggott and Rafal Chomik



Context

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

Policy

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

Context

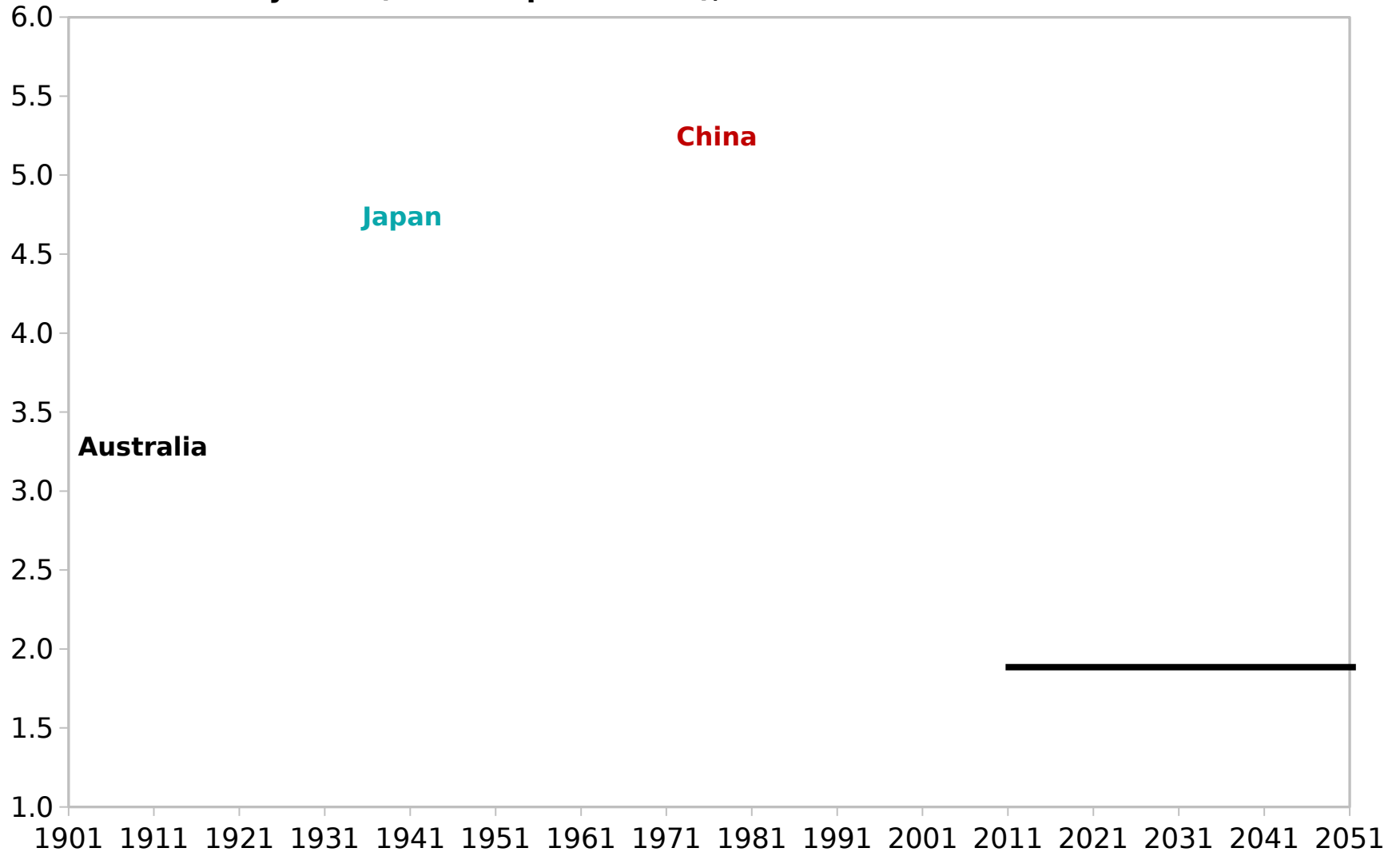
1. **Demographic drivers**
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Policy

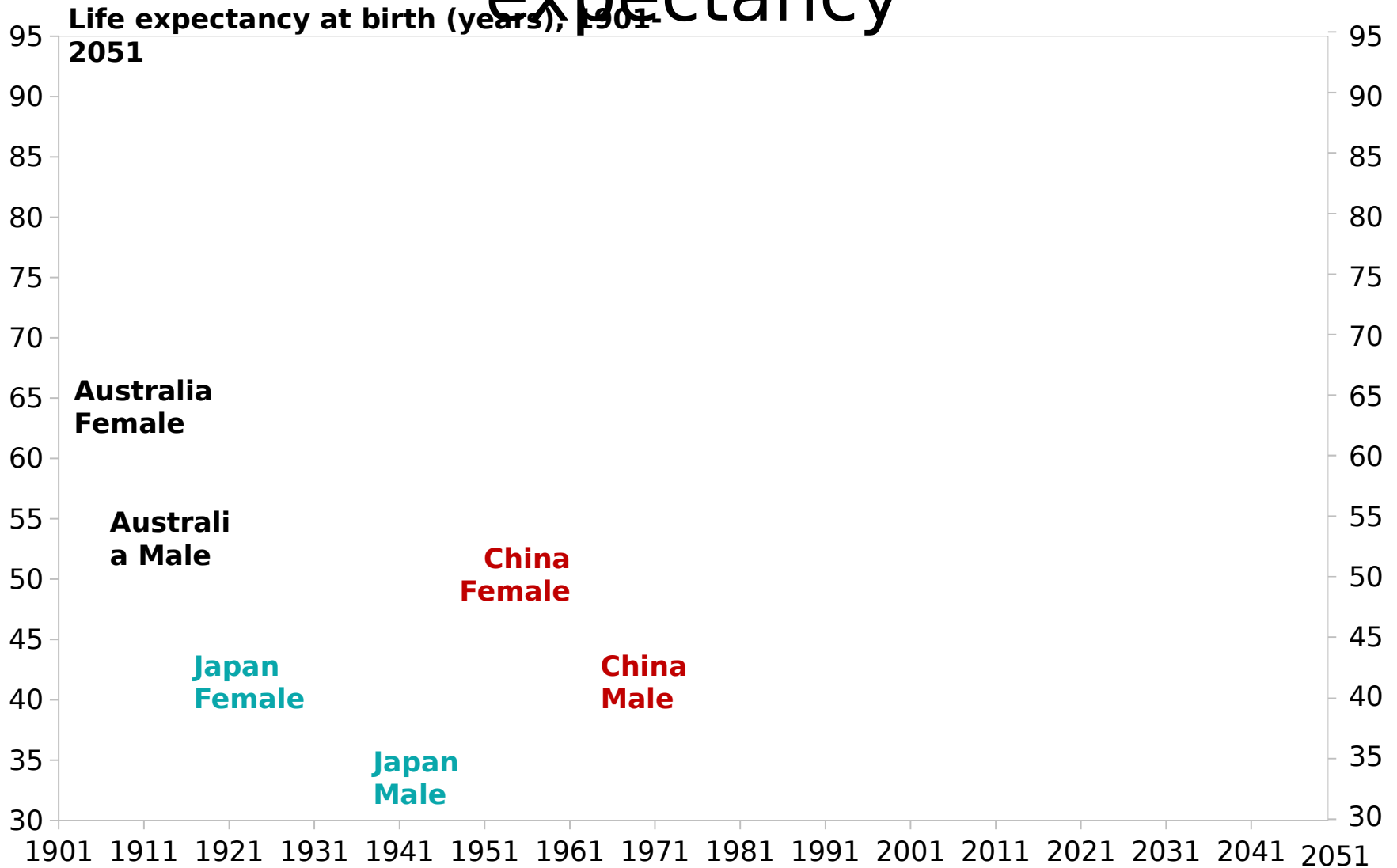
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1a. Demographic drivers: Fertility

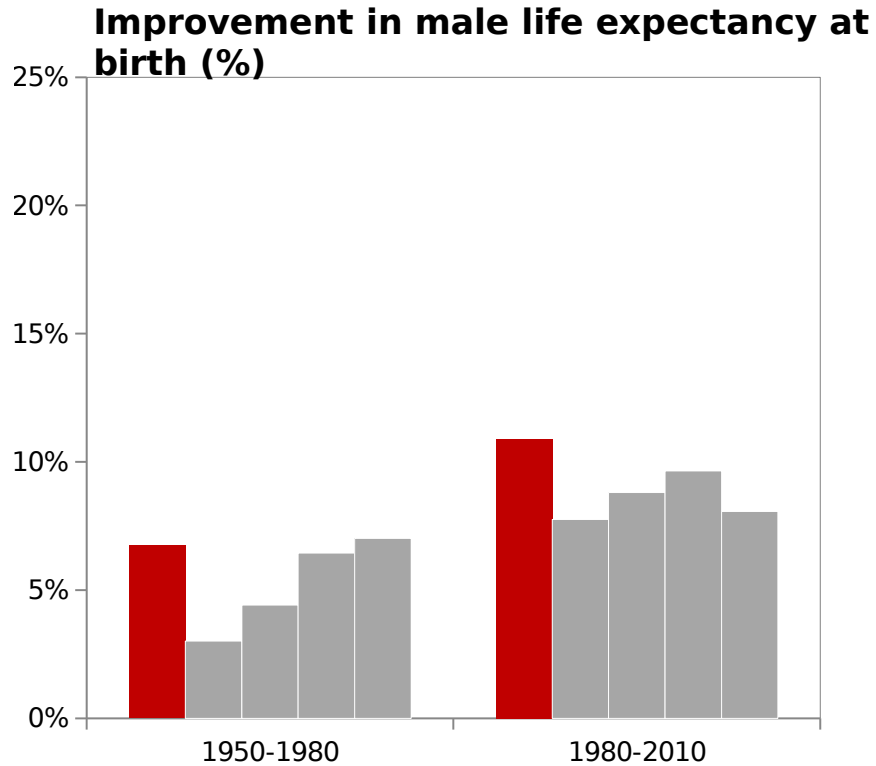
Total Fertility Rate (children per woman), 1901-2051



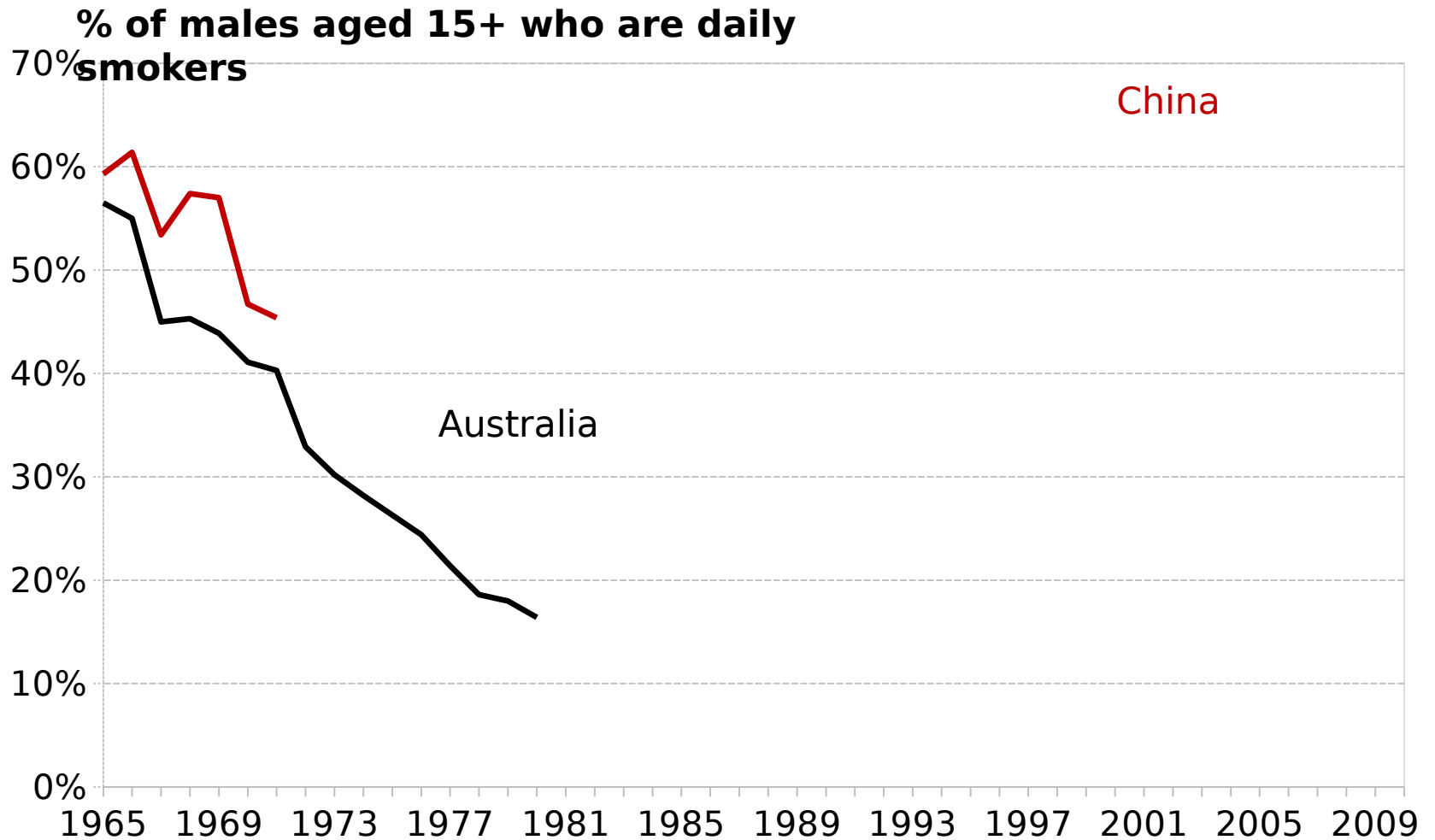
1b. Demographic drivers: Life expectancy



1b. Demographic drivers: Mid-life longevity



1b. Demographic drivers: Mid-life longevity



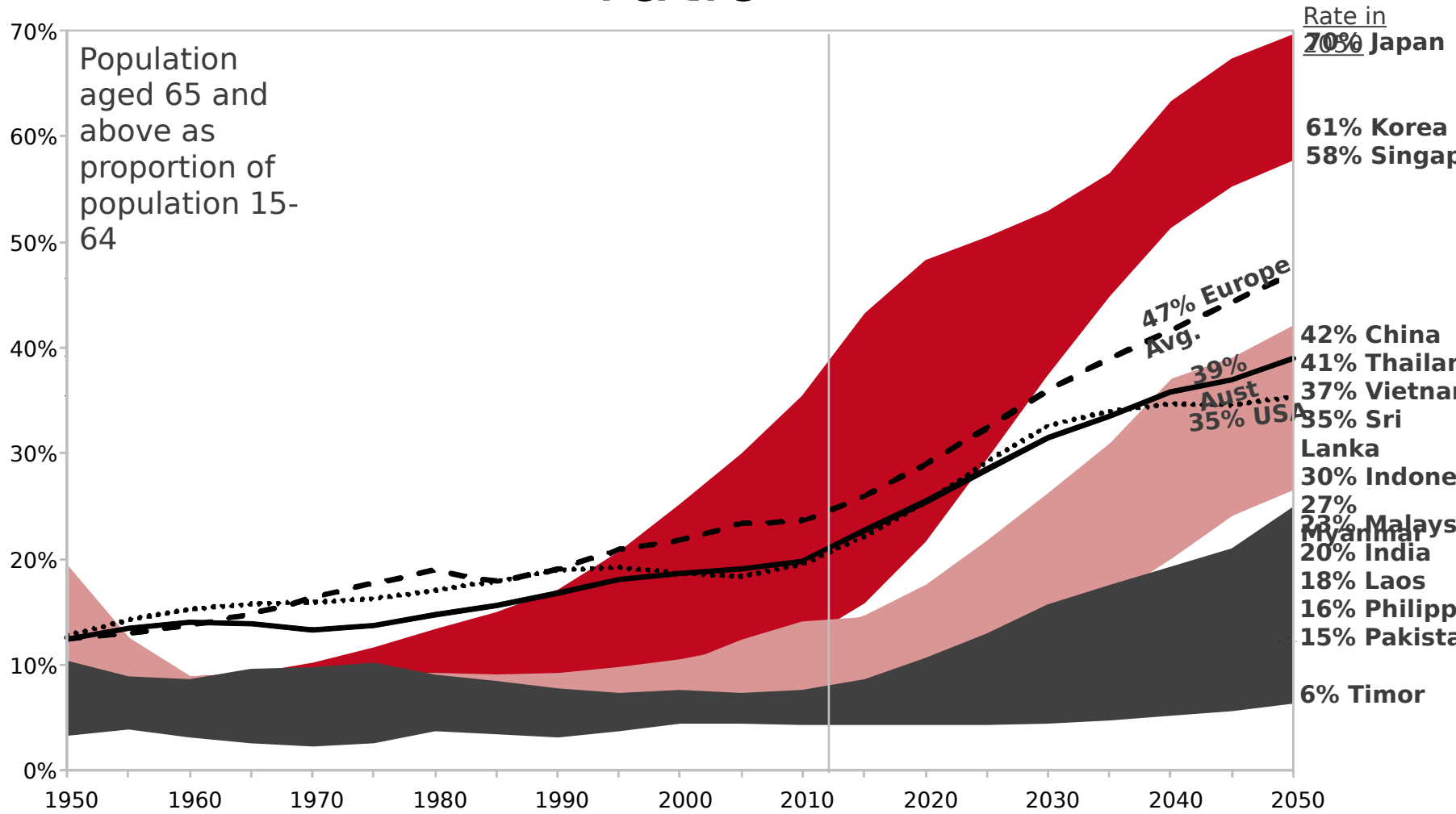
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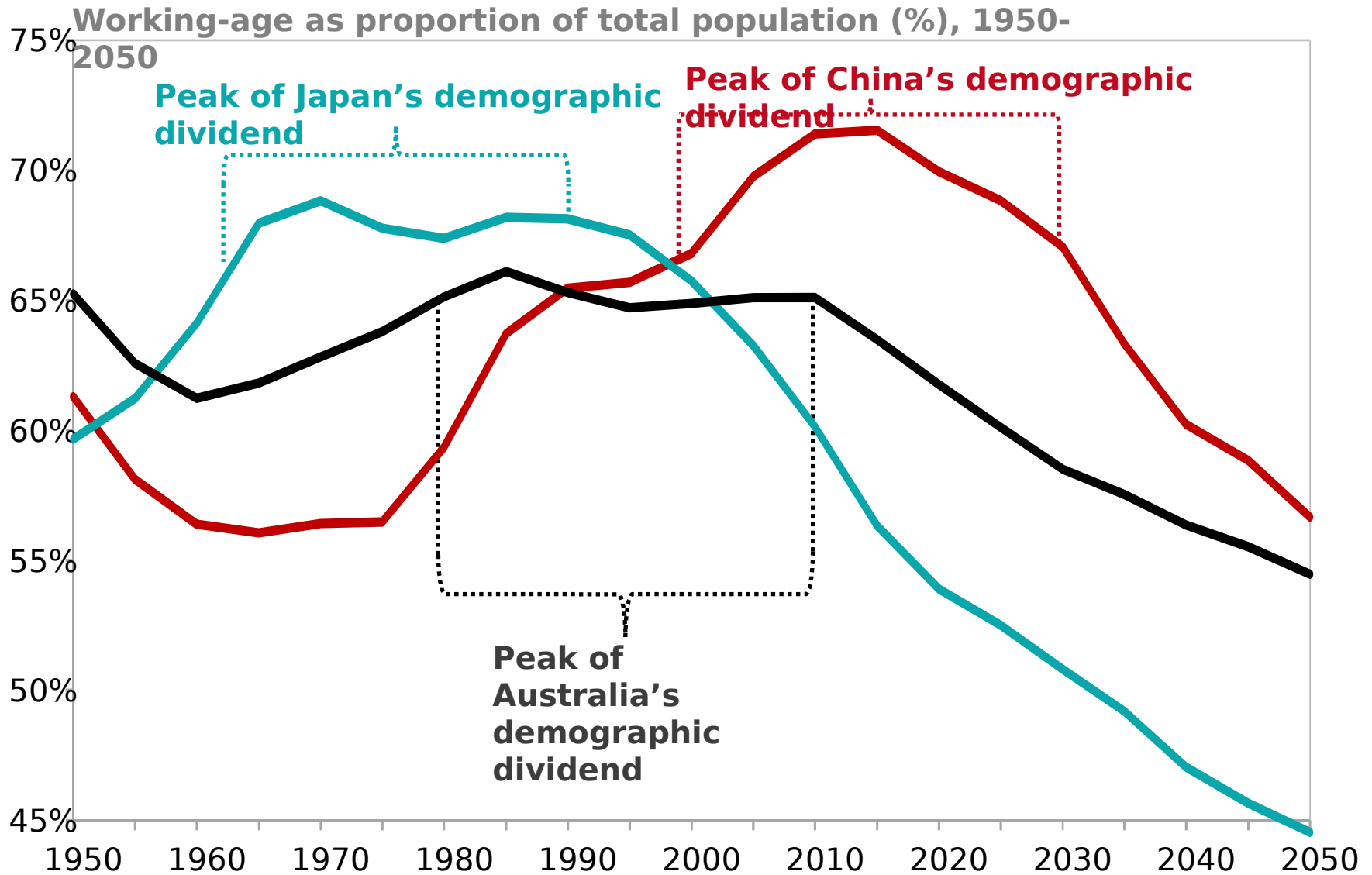
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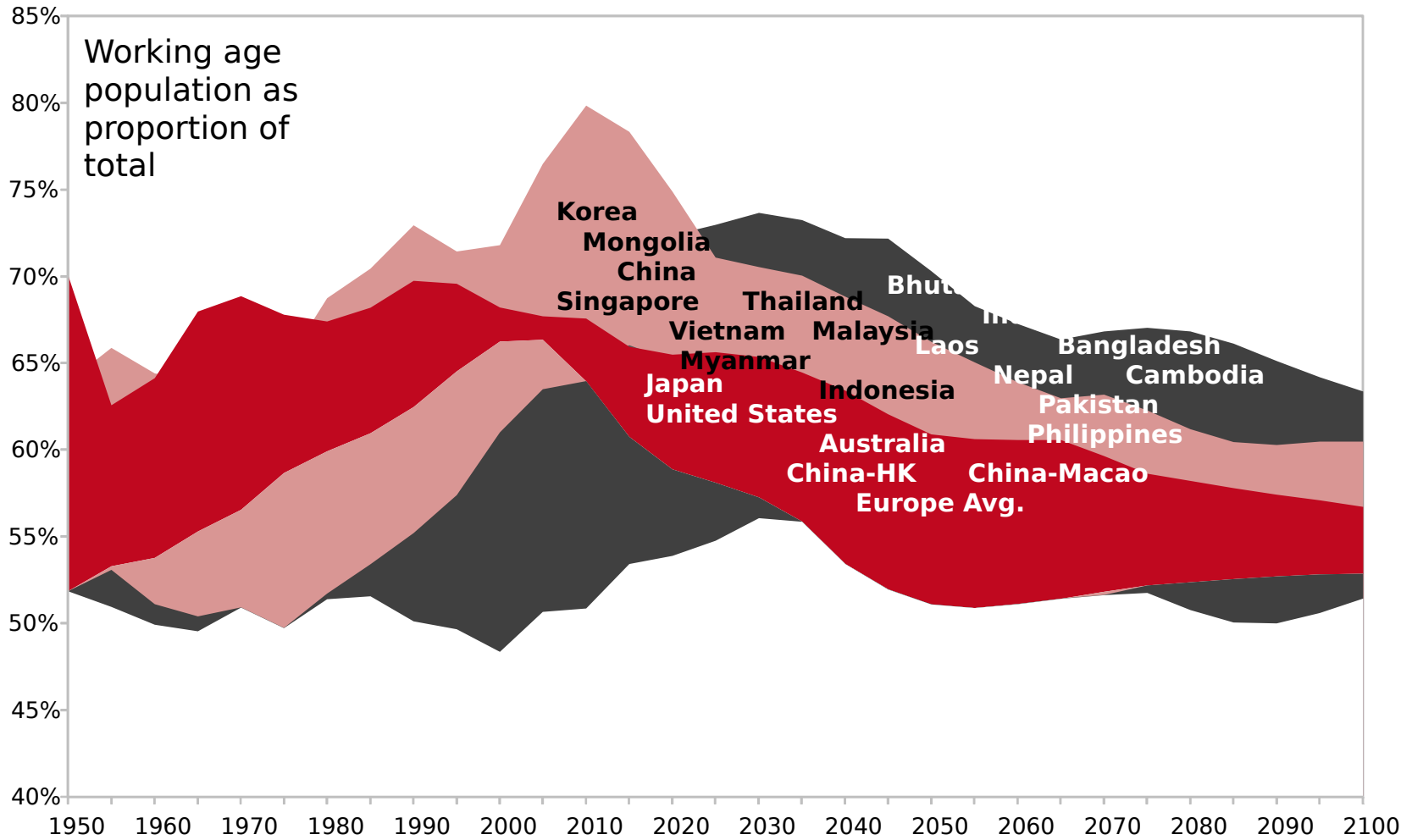
2a. Population ageing: Dependency ratio



2b. Population ageing: Demographic dividend



2b. Population ageing: Demographic dividend



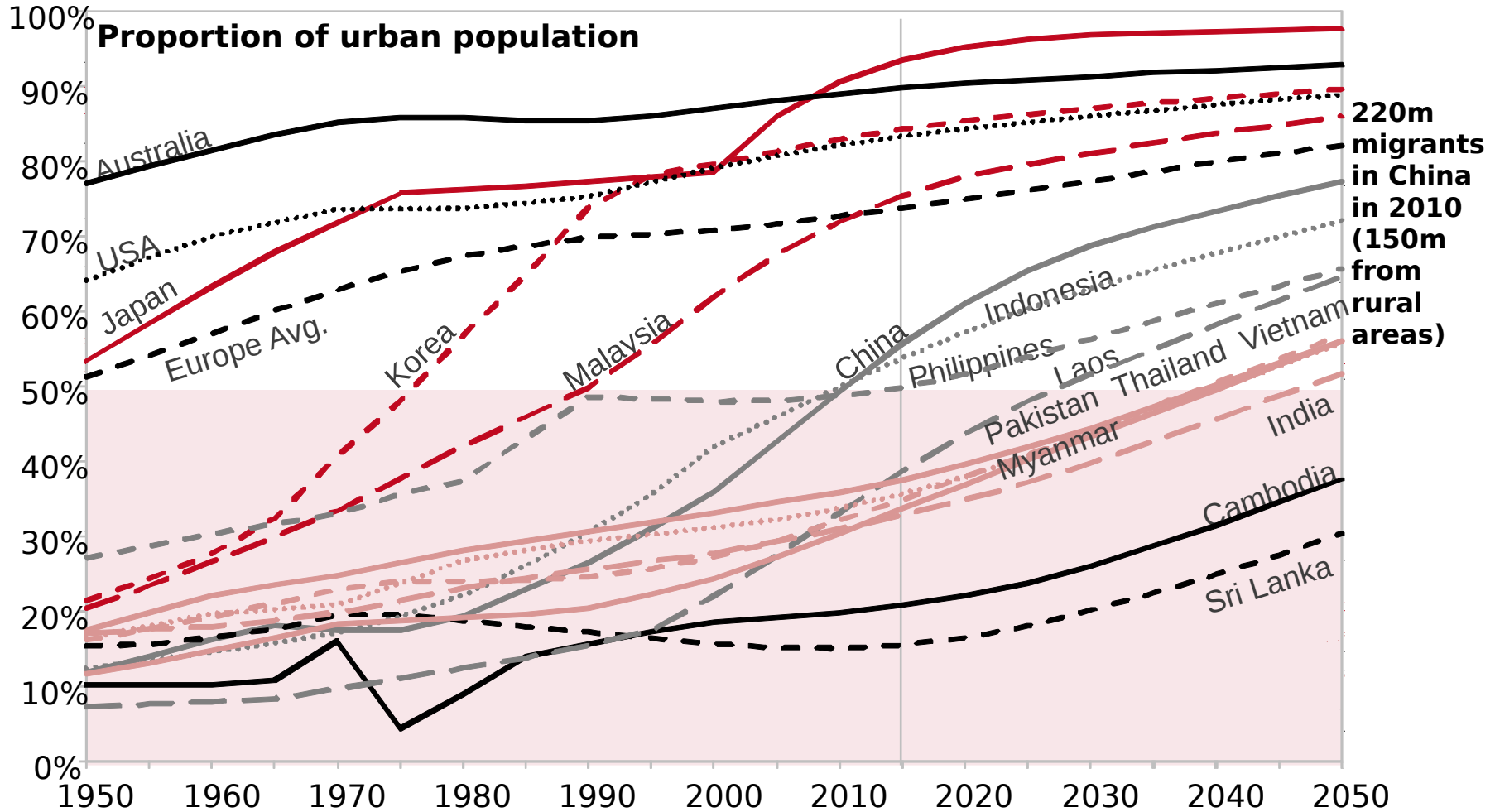
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1. Demographic drivers
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3. **Associated trends**

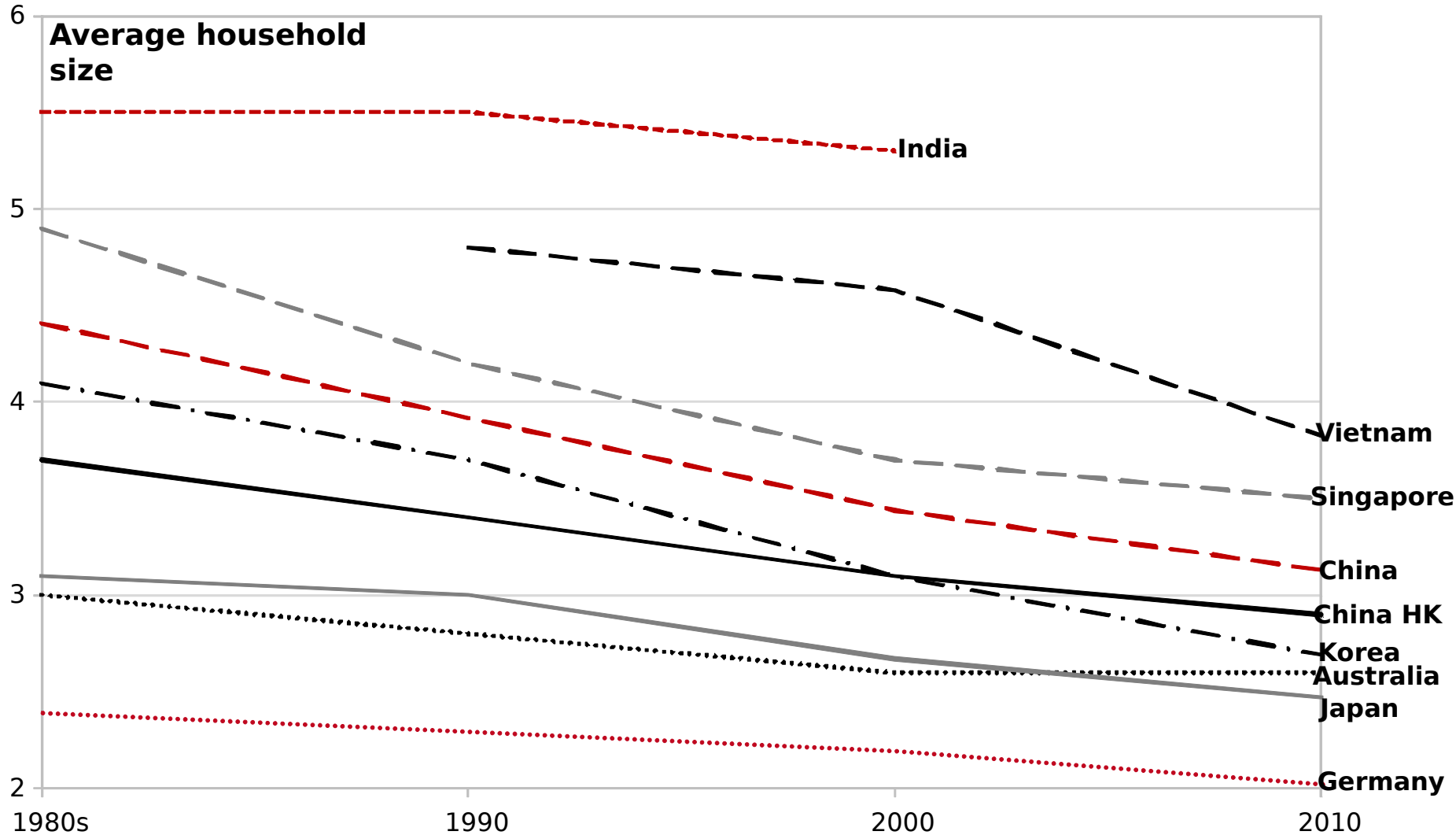
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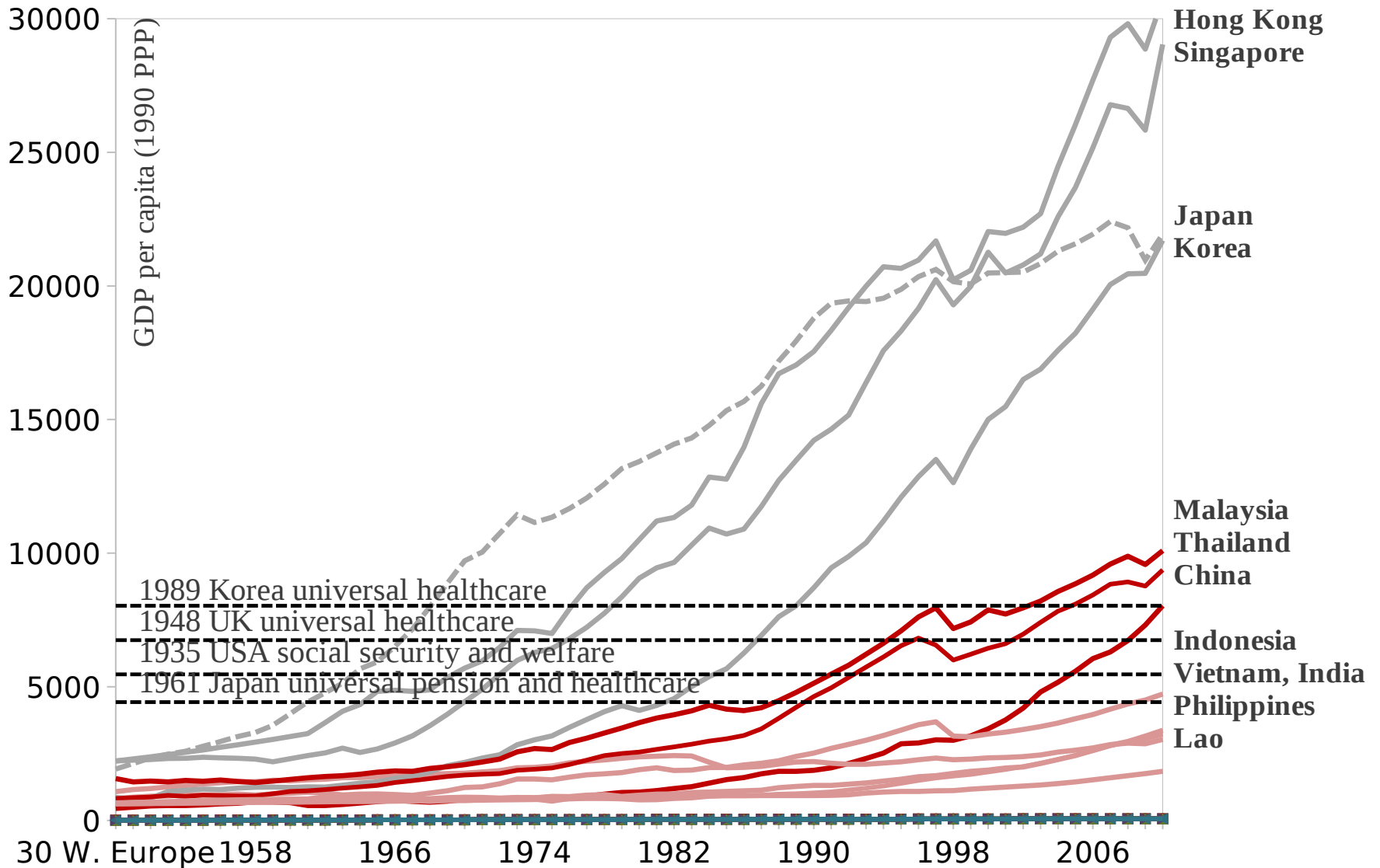
3a. Associated trends: Urbanisation



3b. Associated trends: Social



3c. Associated trends: Economic



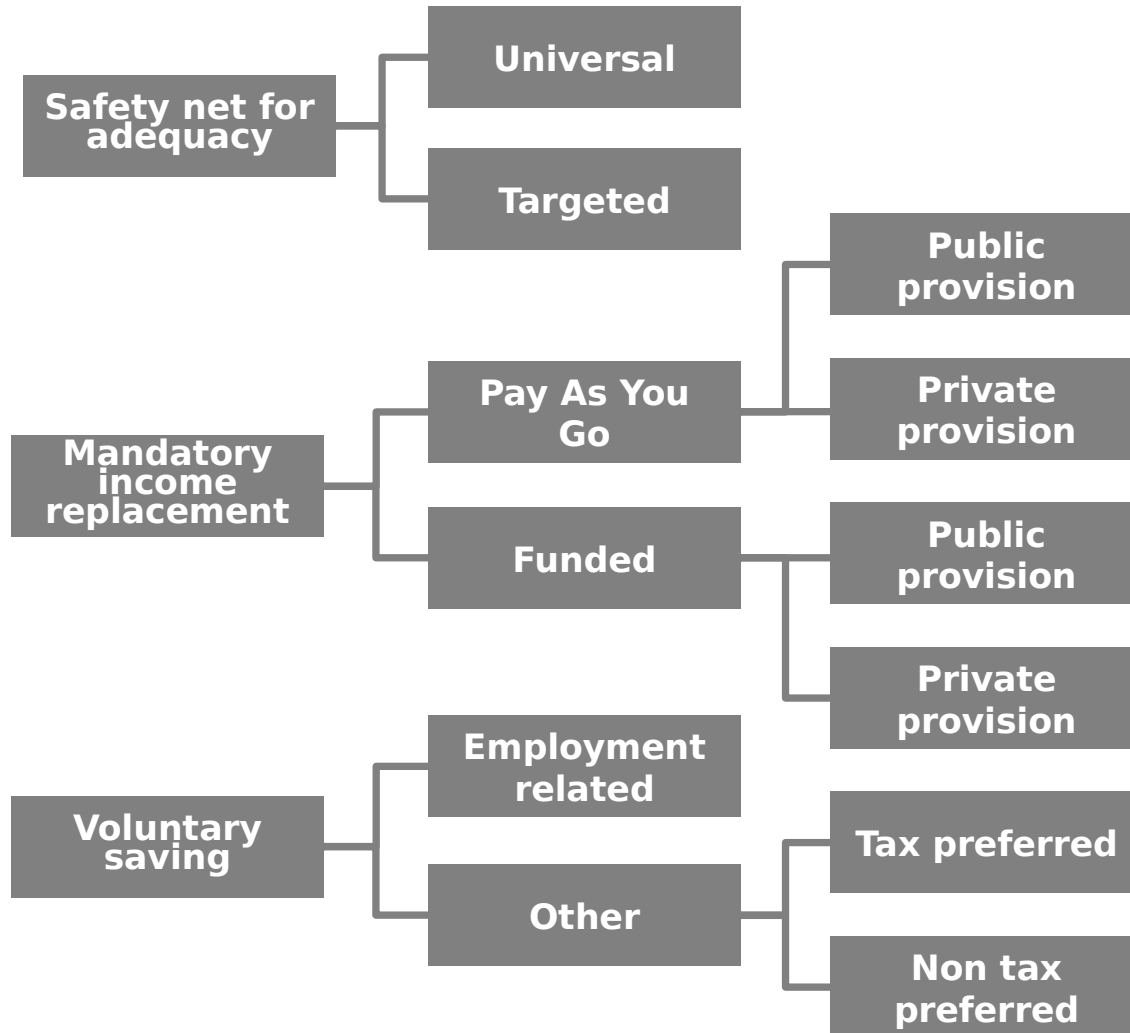
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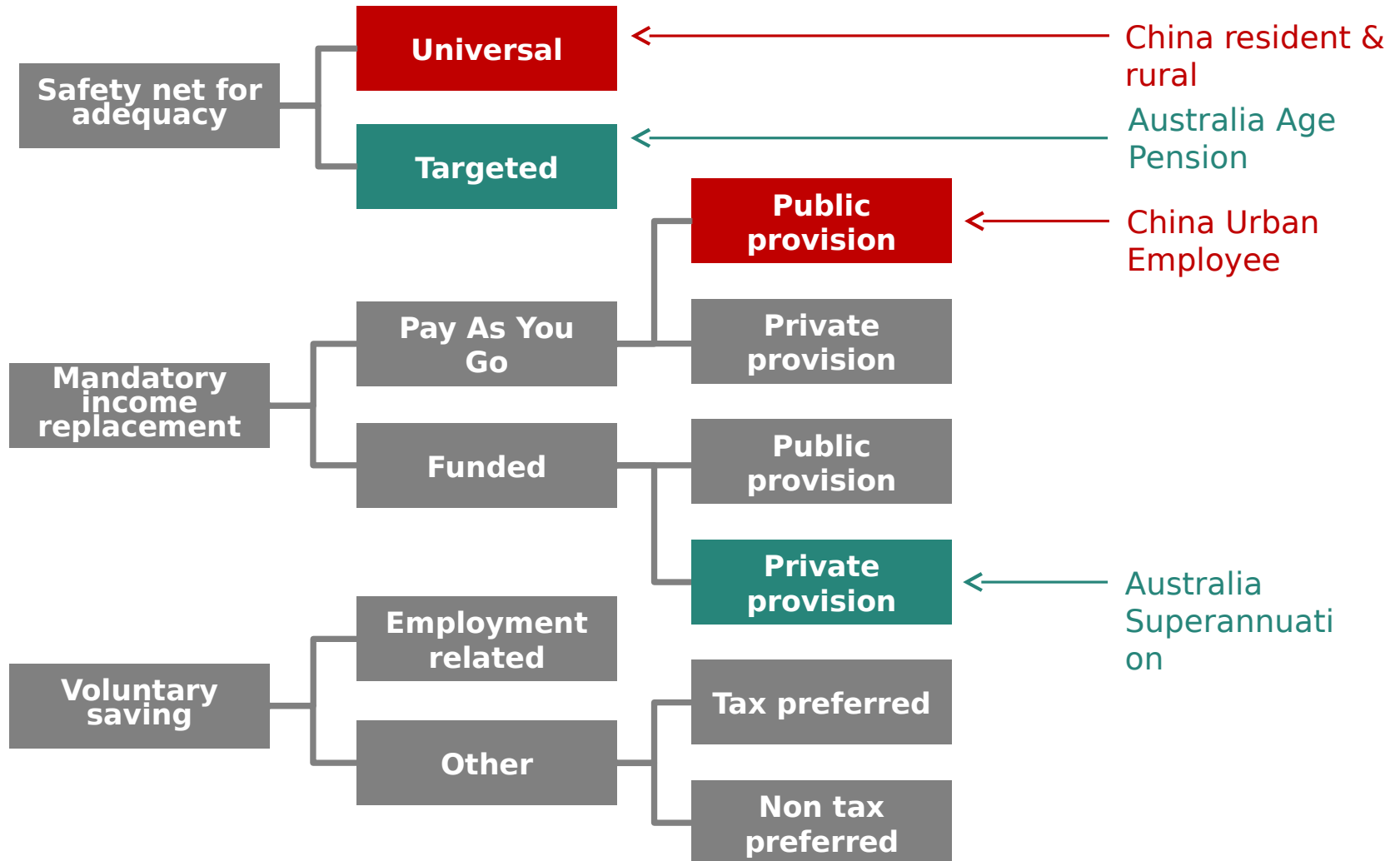
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4a. Retirement income: Structure



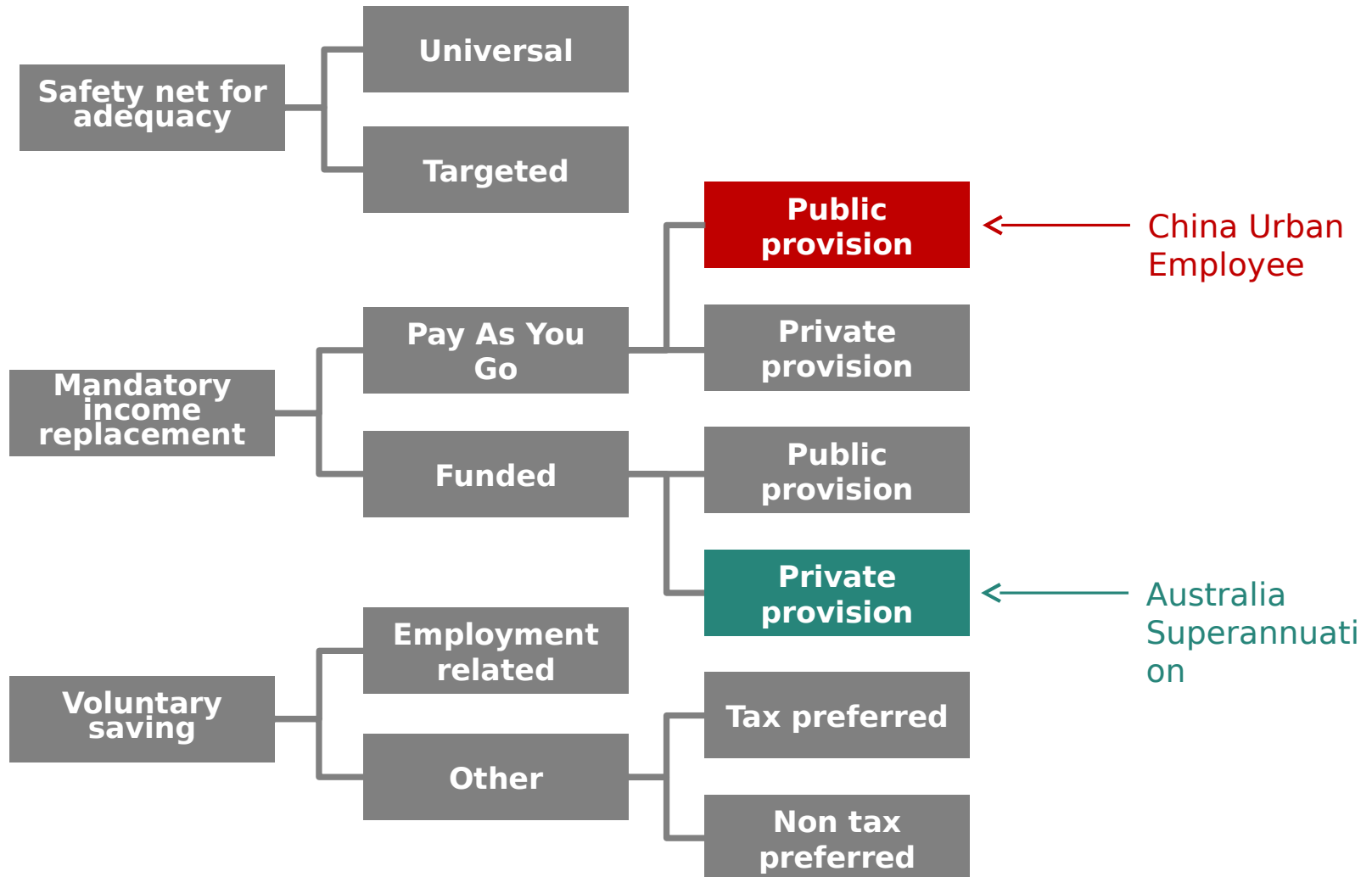
4a. Retirement income: 1ST pillar



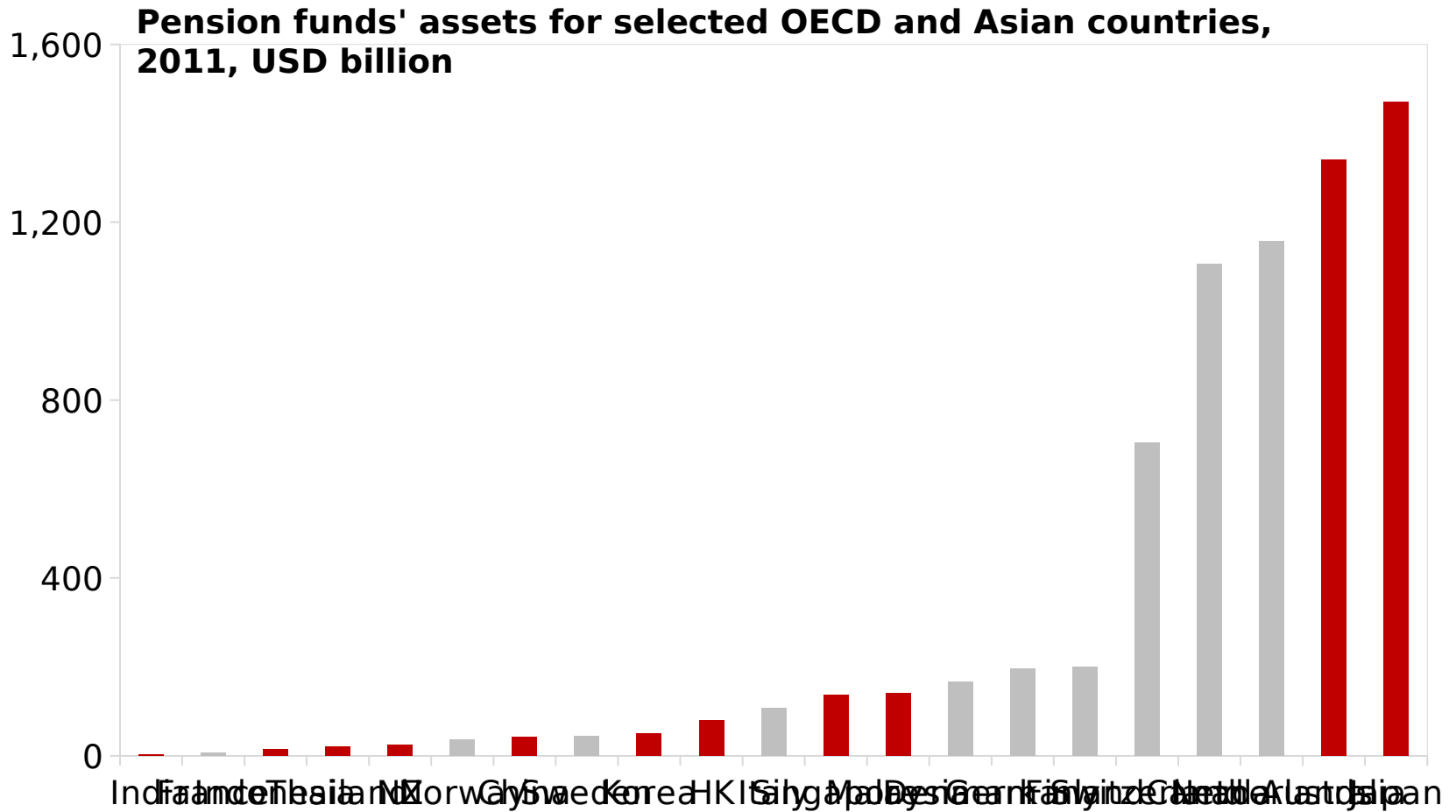
4a. Retirement income: 1st pillar

	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 year from ~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			

4b. Retirement income: 2nd pillar



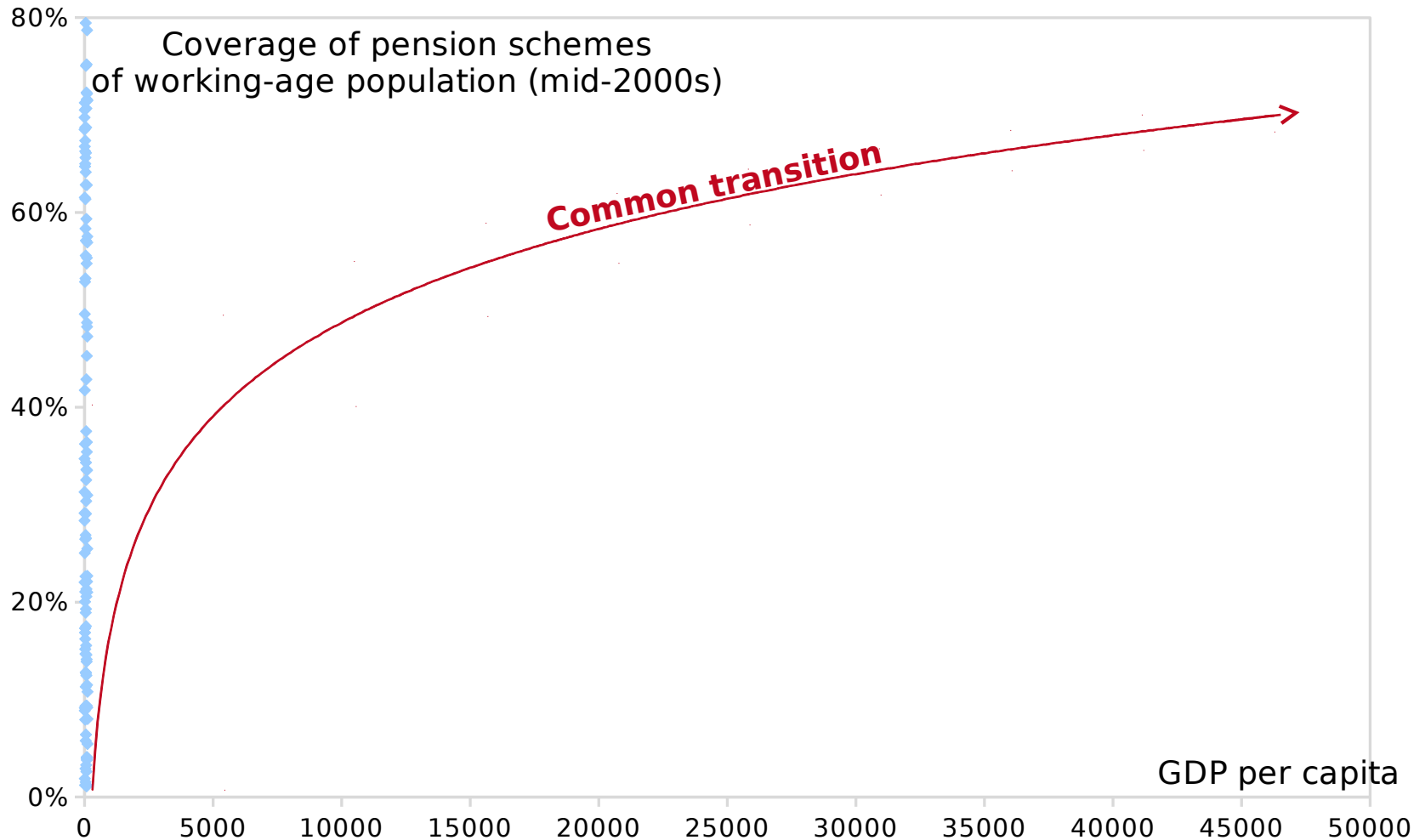
4c. Retirement income: 2nd + 3rd pillar



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
10. **Financial illiteracy** and communication

4e. Retirement income: Coverage



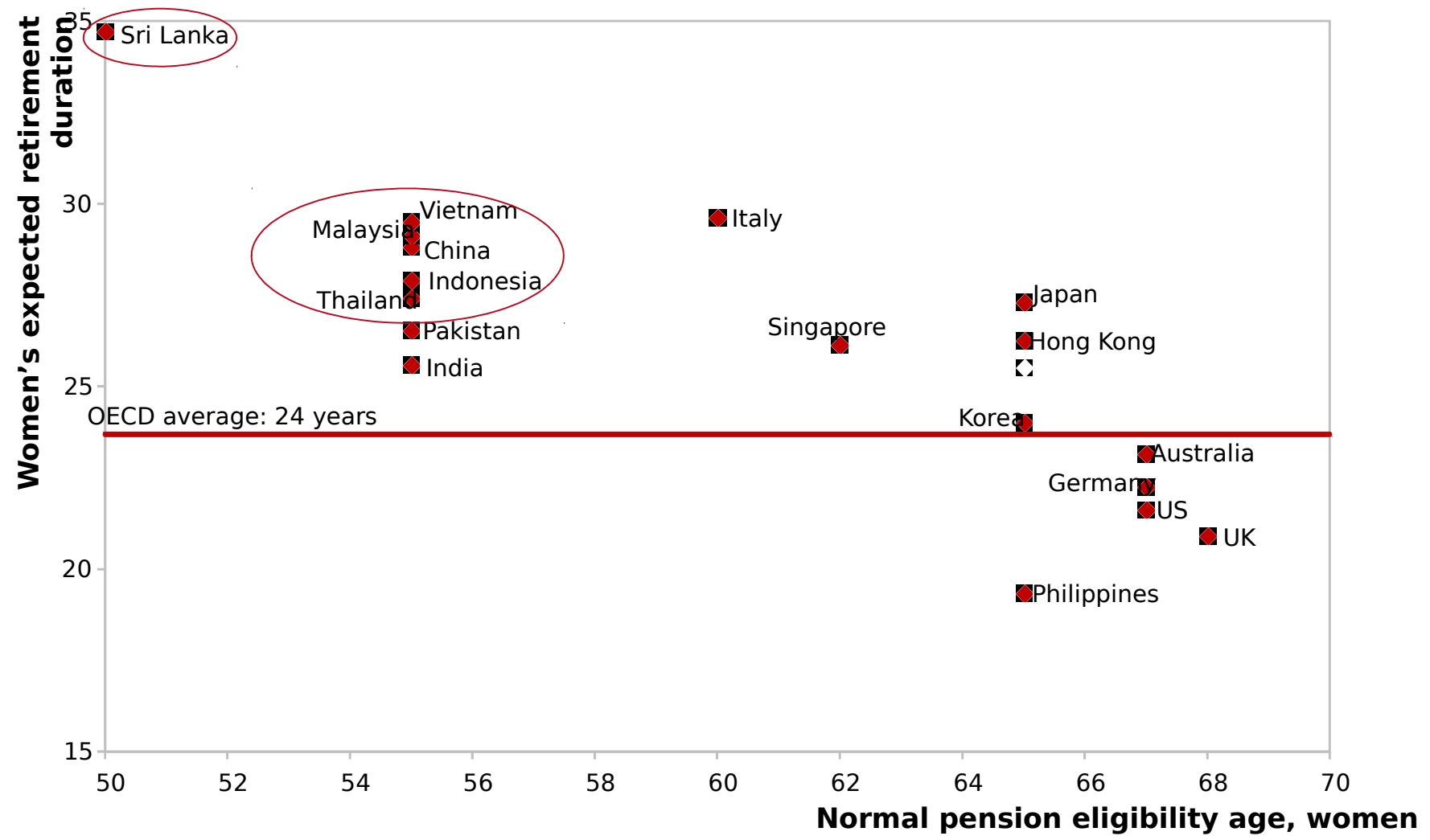
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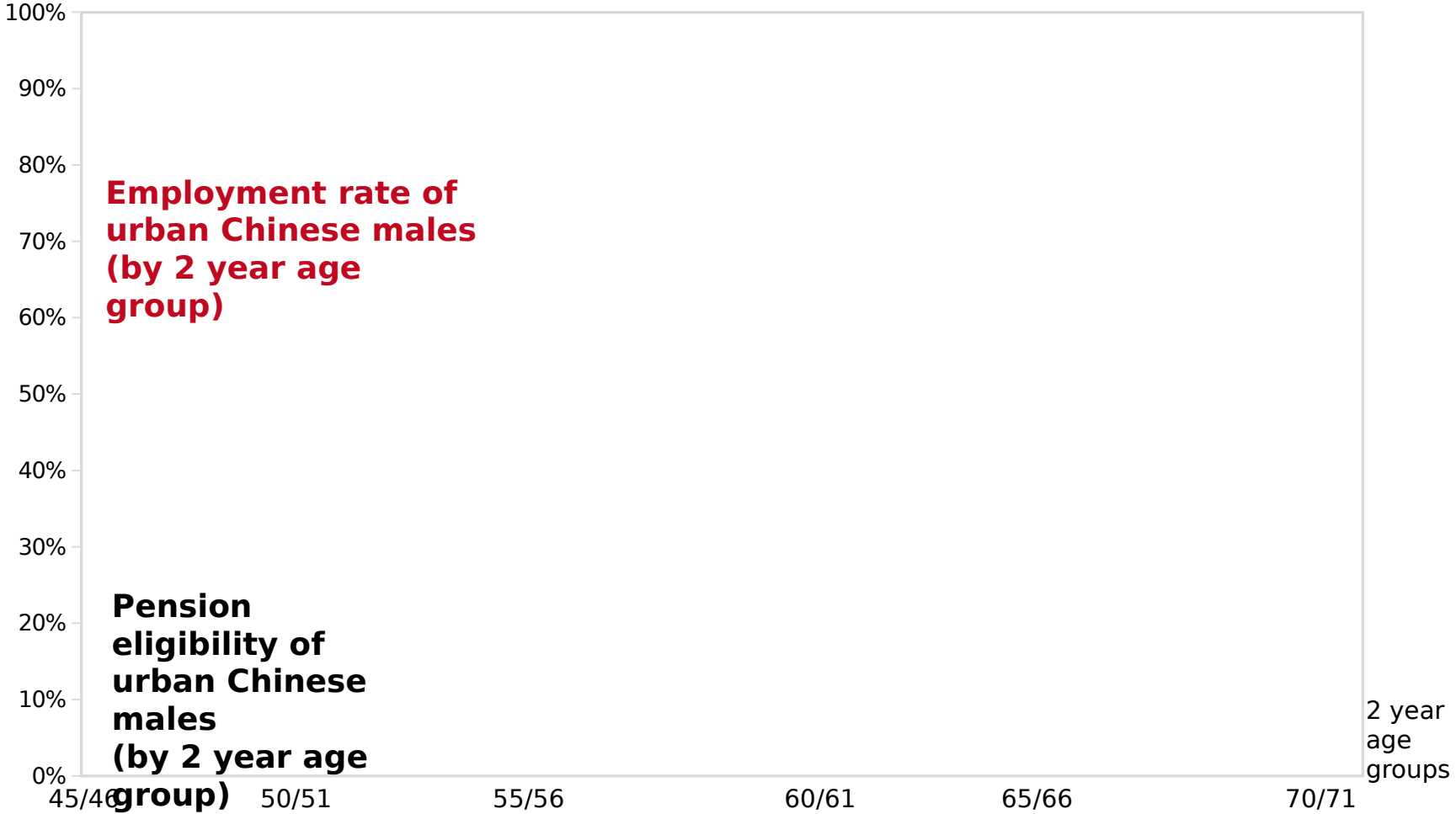
Policy

7. Retirement income
8. **Labour market**
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5a. Labour market: Pension access age



5a. Labour market: Pension access age



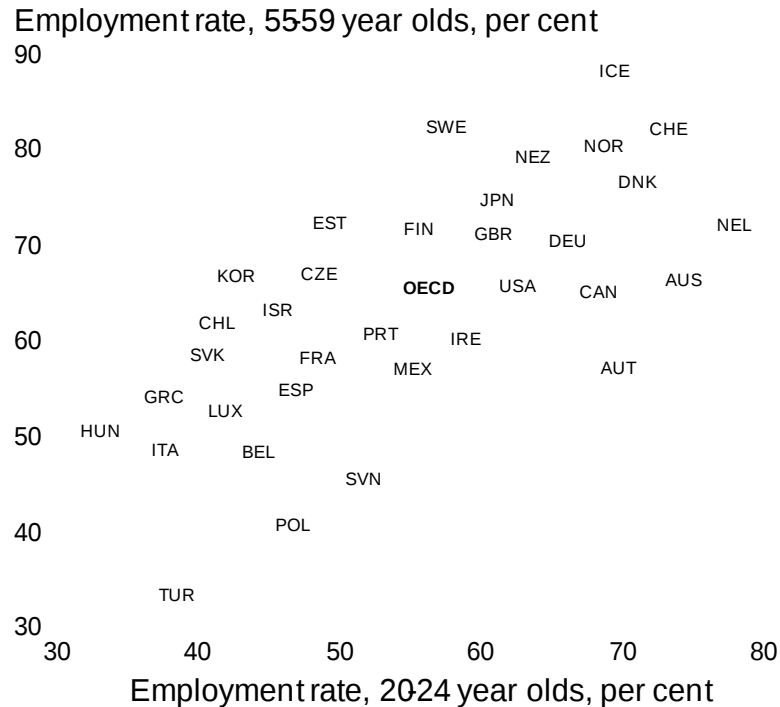
Source: Chomik & Piggott (2012)

5b. Labour market: Lump of labour fallacy

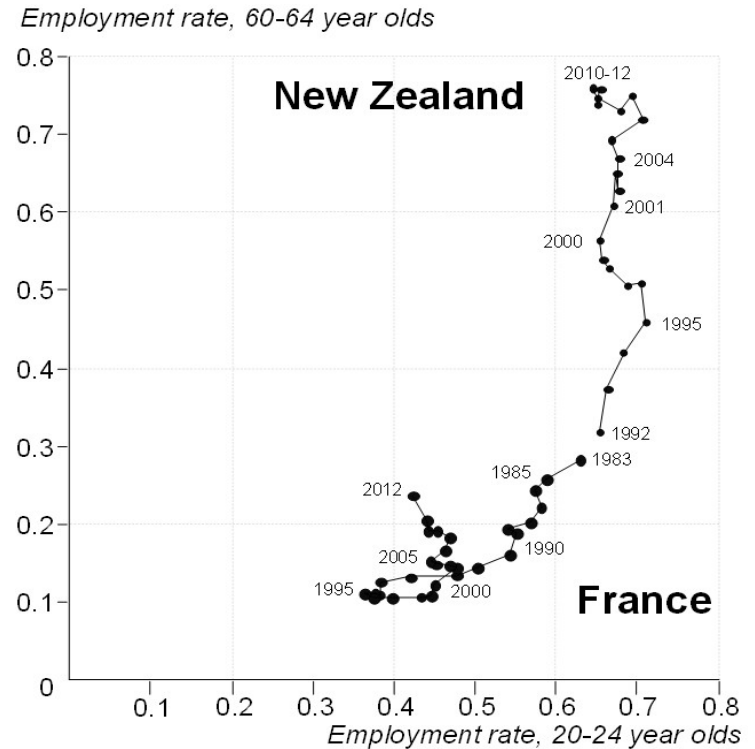
- That there is a fixed demand for labour and a job becomes available if someone stops work
- Used to support a supposed link:
Early retirement □ **Unemployment reduction**
- In fact, working creates its own demand:
More workers □ **more productive economy**

5b. Labour market: Lump of labour fallacy

Across countries



Across time



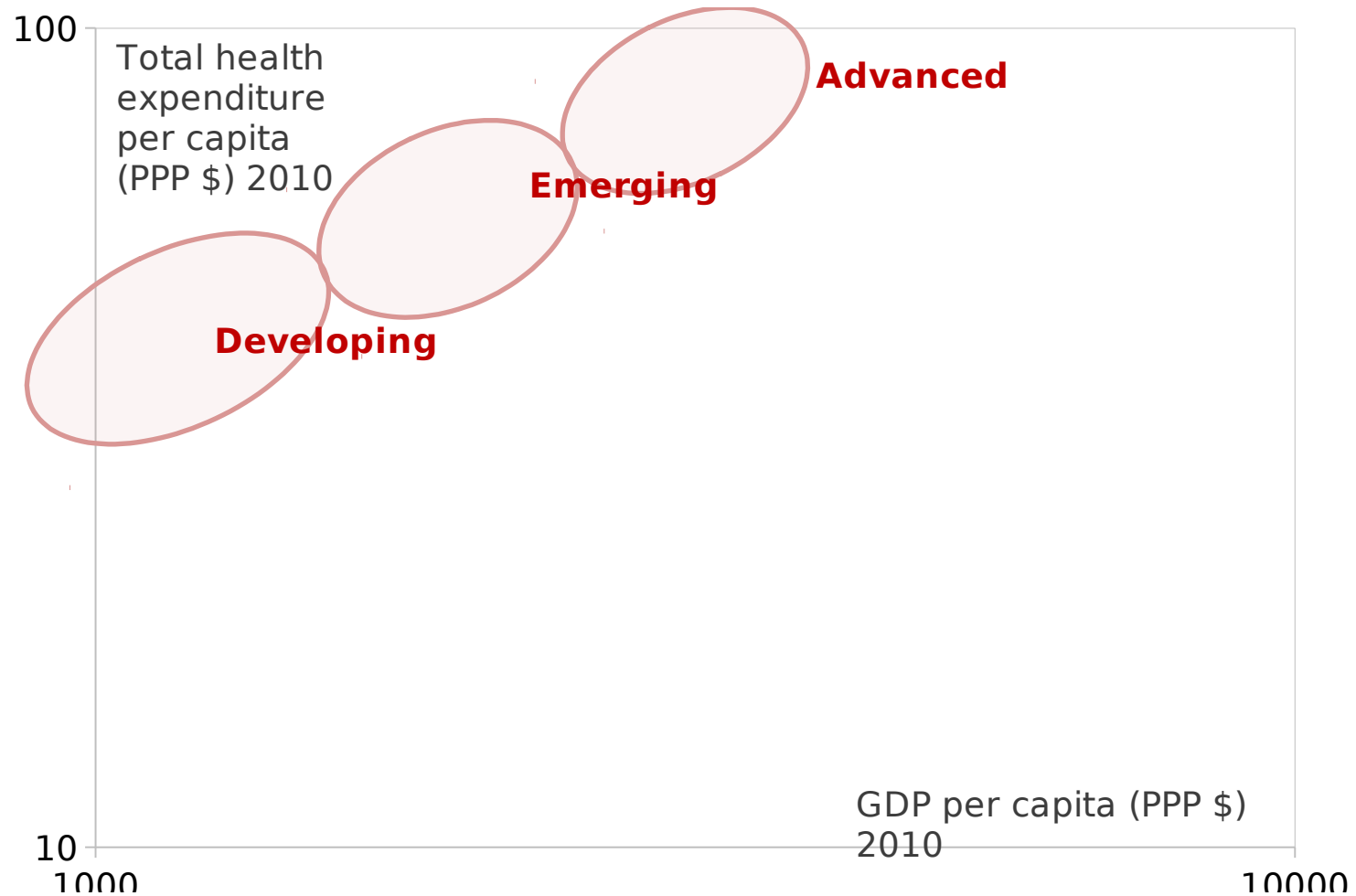
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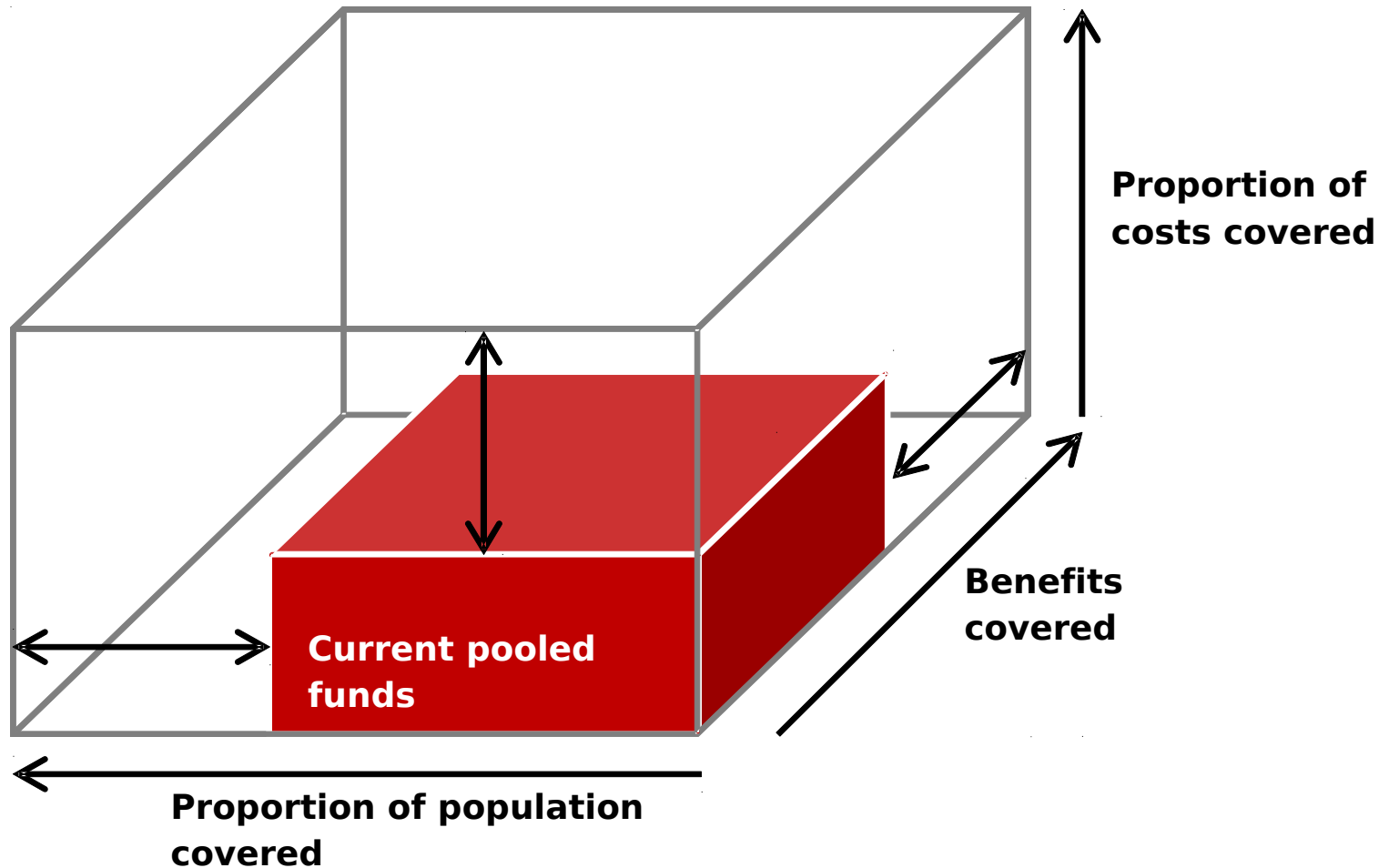
Policy

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

6a. Healthcare: Different development levels



6b. Healthcare: Coverage concepts



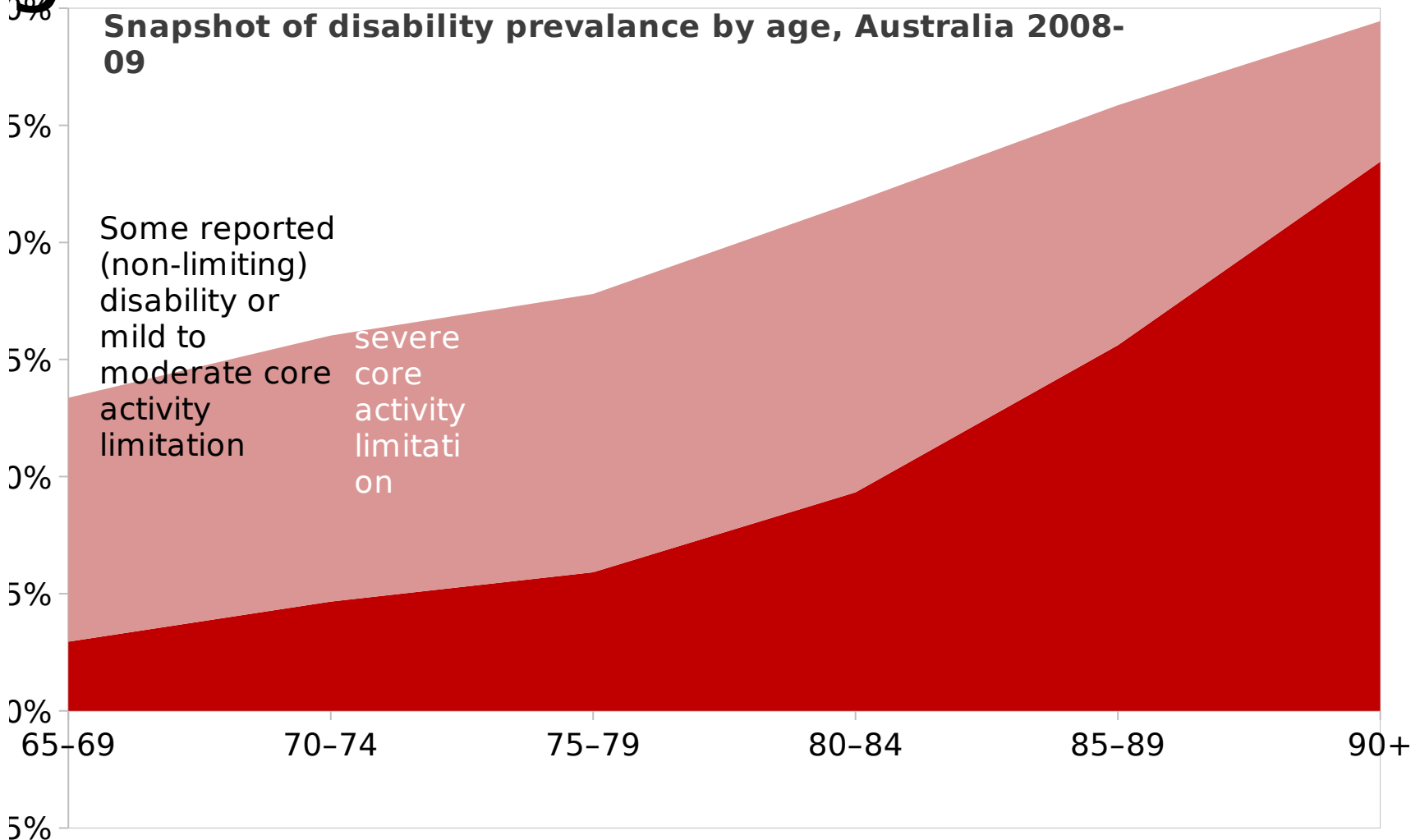
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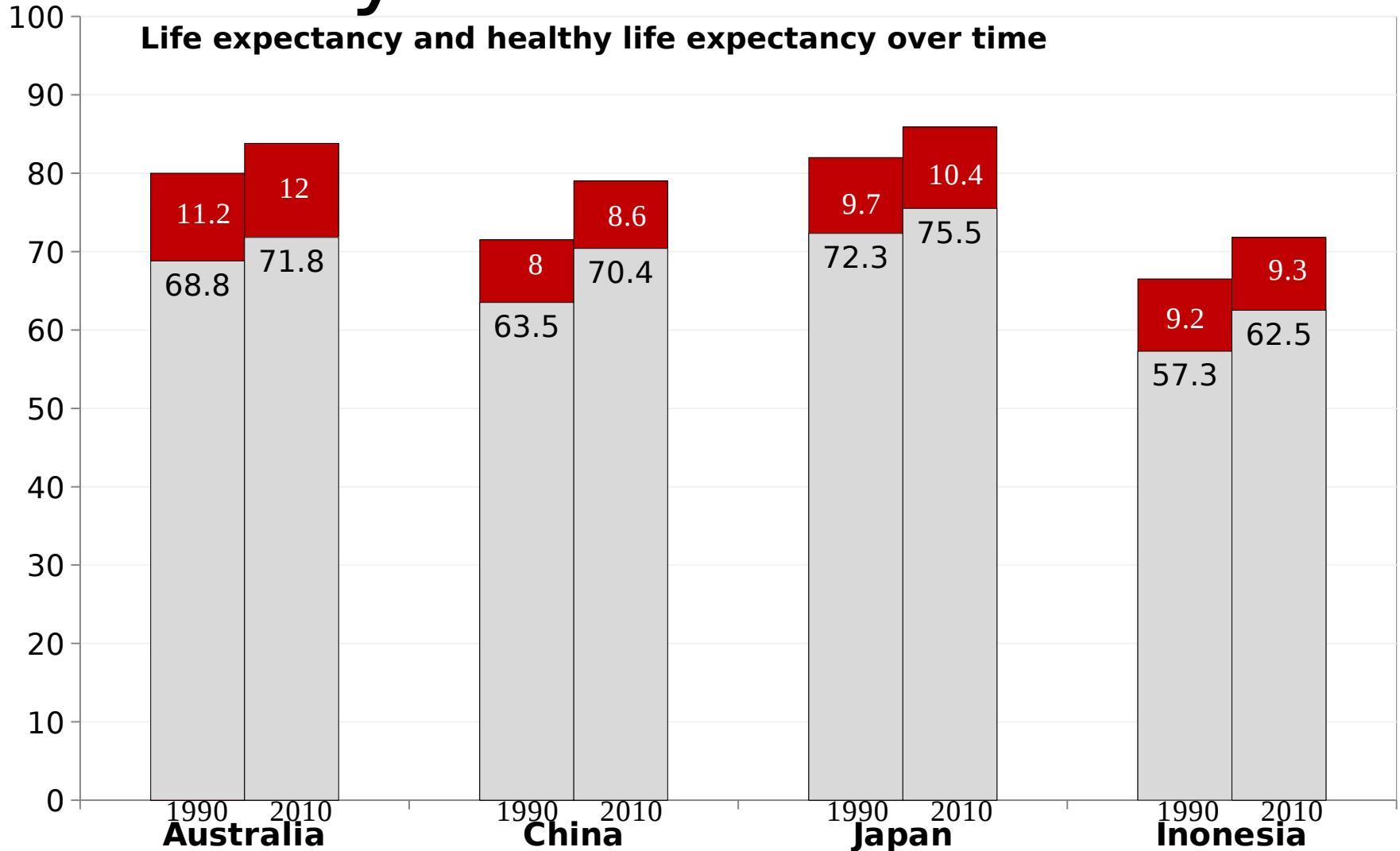
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10. **Aged care**

7a. Aged care: Disability ↑ with age



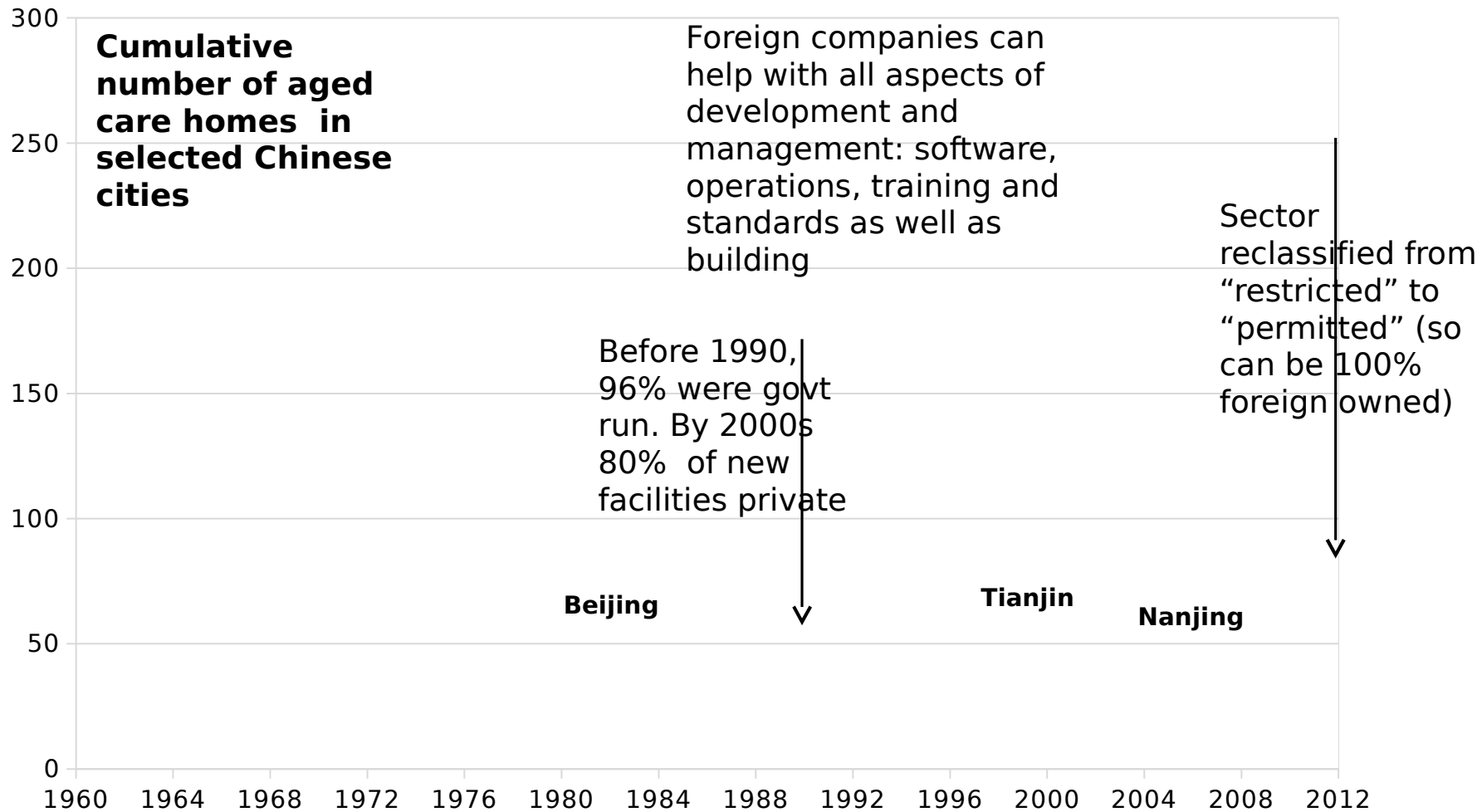
Source: Australian Bureau of Statistics (SDAC)

7b. Aged care: Years in disability ↑



Source: Global Burden of Disease Study

7c. Aged care: Expansion of supply



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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