**Rutgers University** 

Edward J. Bloustein School of Planning & Public Policy International Development Planning Studio

# Planning for Global Population ageing

Final Presentation to:

**Economic Analysis and Policy Division United Nations Department of Economic and Social Affairs** 

6 May 2022









# **Key Topics**

- **Economic production**: The untapped potential of longevity economy
- **Education**: Inclusive and lifelong learning as an intergenerational solidarity strategy
- **Consumption**: Alternatives to increase public finance
- <u>Pension</u> planning: Personal consumption and productivity policies
- Healthcare: Cost avoidance vs. Cost reduction preventive, age-friendly infrastructure, reducing climate change vulnerability

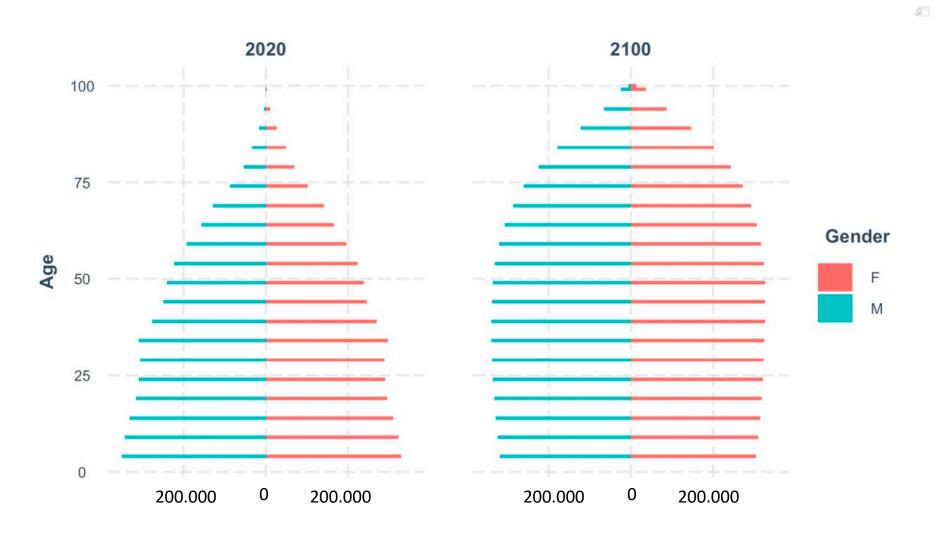


Introduction: Demographic Trends

Liliana Ordóñez

## The World's Population is Ageing:

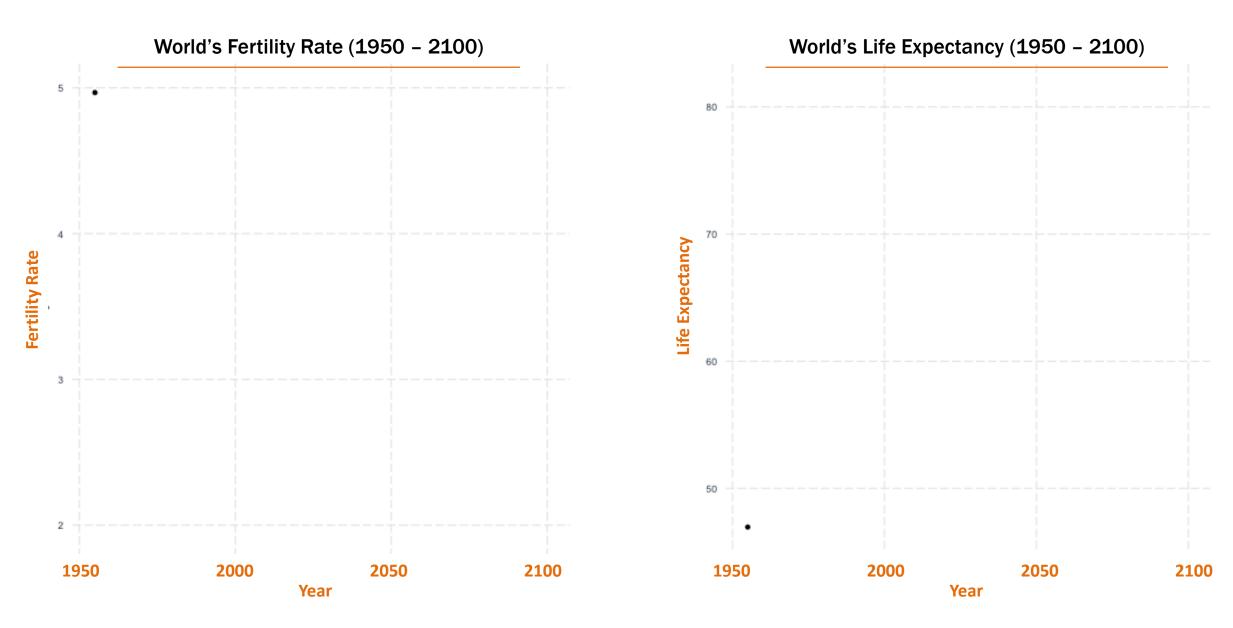
We are at a turning point in global population history



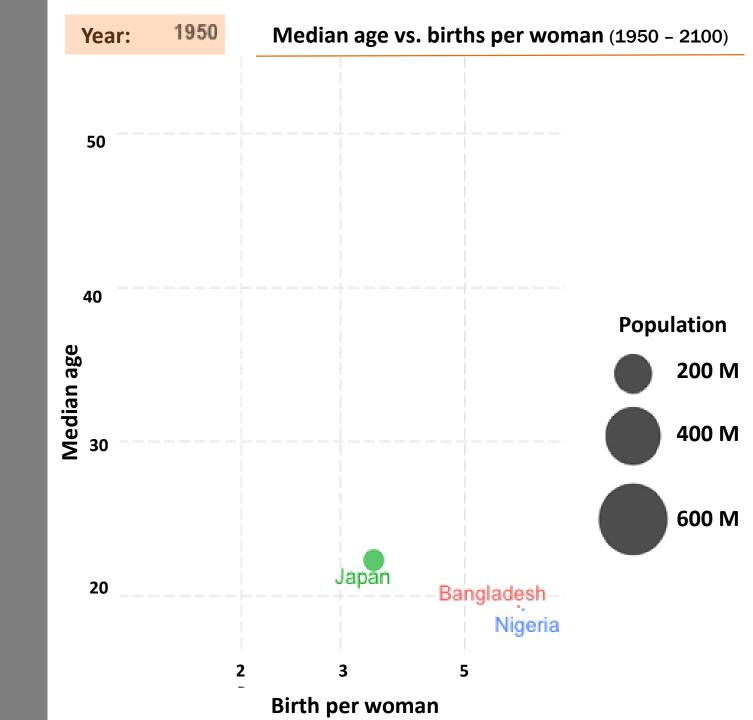
**Population Amount** 

Source: Own calculations based on UN population data

# Fertility Rate is decreasing, while Life Expectancy is increasing

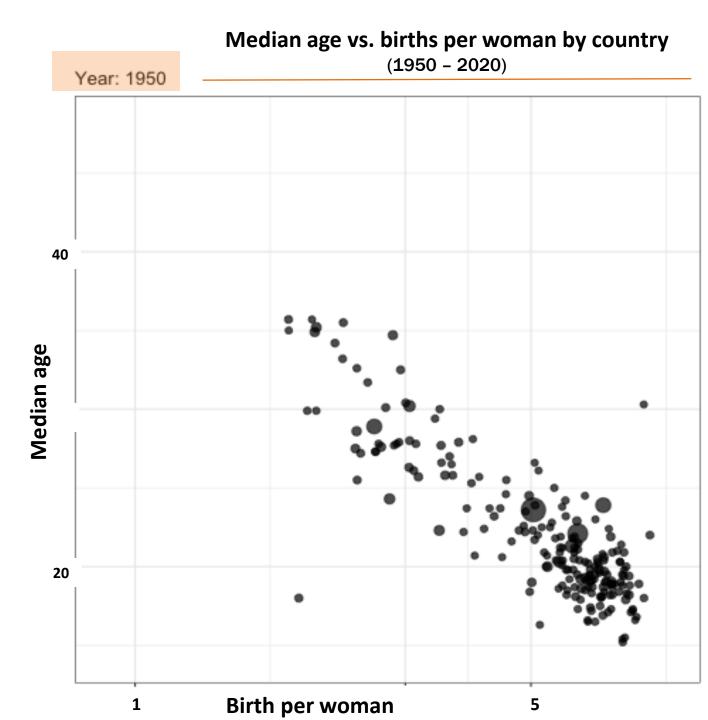


Bangladesh, Nigeria, and Japan are ageing in different ways



Although every country in the world is following the same path in terms of ageing,

Each country is at a different stage of demographic transition



# **Economic Production**

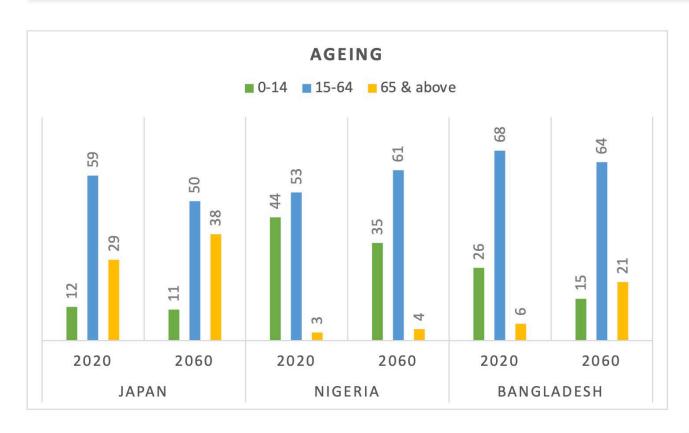
How can ageing nations maintain economic growth and social cohesion?

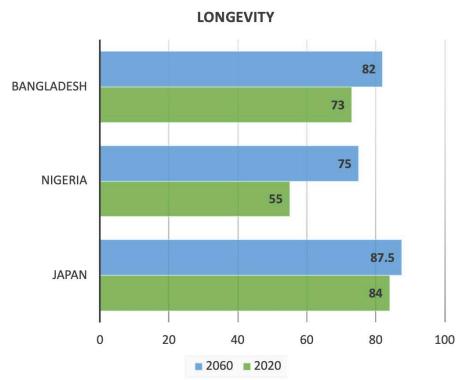
Richa Rashmi



## **Country Comparison**

	Japan	Nigeria	Bangladesh
Employment Rate	60%	24%	37%
Productivity	High, Declining	Low	Low





Data Source: Revision of World Population Prospects 2019, UN DESA

# **Economic Production**

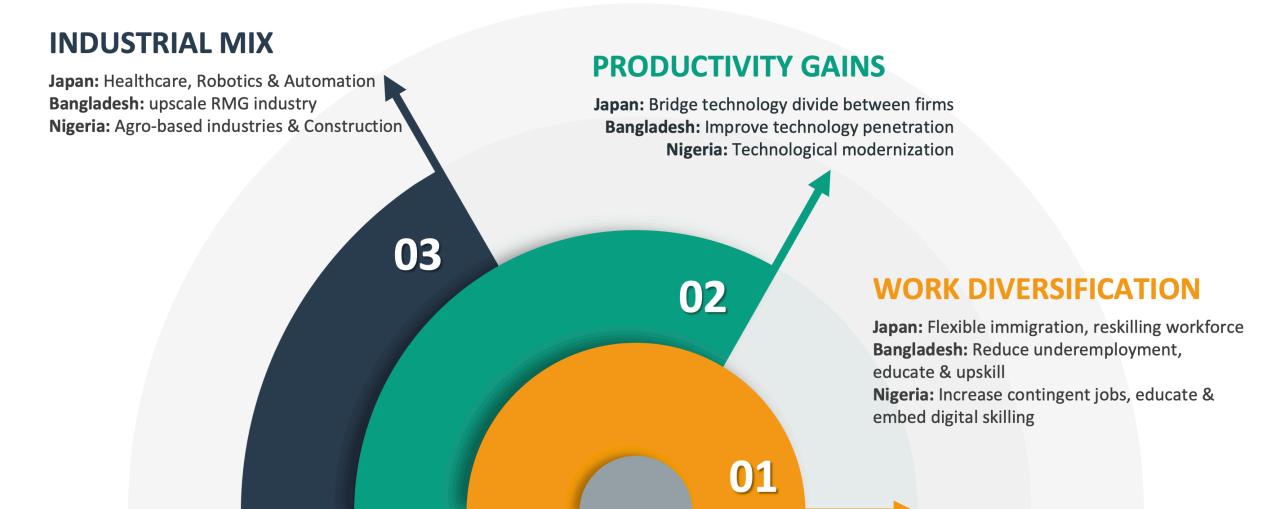
# Policy Implications

### **ECONOMIC**

Challenges	Opportunity	Policy Recommendation		
		Mitigation	Caveat	Solution
Gains at economically inactive age characterized by poor health	Focus on LONGEVITY (rather than ageing)	<ul><li>Delayed     Retirement</li><li>Set targets for     healthy ageing</li></ul>	<ul><li>Skill obsolescence</li><li>Rise in lifestyle diseases</li></ul>	<ul><li>Lifelong learning</li><li>Preventive health</li></ul>
		SOCIAL		
Education	Work	Marriage	Fertility	Retirement

# **Economic Production**

# Country specific recommendation



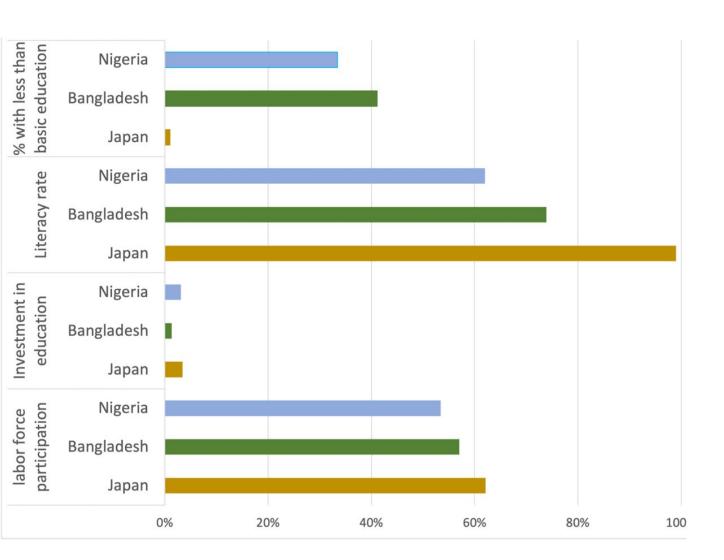
# Education, Skills and gender

What are the barriers in accessing education? How can the female work force participation increase?

**Smriti** 



# **Country Findings**

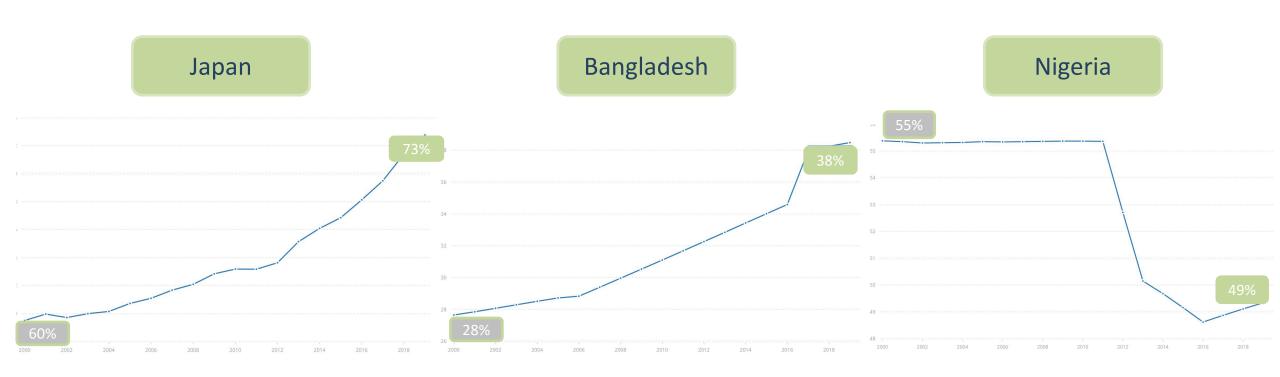


Universal access to basic education. 46% of 45-54 year-old and 32% of 55-64 **year-old** have tertiary education, significantly higher than the OECD average (29% and 24%, respectively)

Bangladesh did great in SDG 4-1 — access to primary education. Unemployment rates were found the highest for those with higher secondary education (15 percent) and those with tertiary degrees (11 percent).

One in every five of the world's out-of-school children is in Nigeria. More than half of the women are not in school in the northern part of Nigeria. Internal insurgencies one of the barriers in accessing education

# Labor force participation rate, female (% of female population ages 15-64) (modeled ILO estimate) (2000-2019)



38% of working women are selfemployed or family workers - part time and relatively low paid. Gender wage gap third-worst among developed countries (24.5%). Male biased work spaces and cultural setback.

Less than half of the women employed.

Mostly in informal sector. Making public spaces and travel more female-friendly; and female work more socially acceptable important for FLFP

Decline in FLFP. Marital status, religion, income, education and internal conflicts are significant determinants.

### **Challenges**

**Opportunities** 

Japan

Meeting social security—related obligations while maintaining a sustainable fiscal position.

Innovative curriculum & skill development programs for different age

groups and ensuring flexible and inclusive employment

Bangladesh

Less service sector jobs, majority employed in low-paying, low- productivity informal sector.

Focus on job creation and tandem between industry requirement and skill development programs

Nigeria

Overall low literacy rate, lack of institutional capacity and political will.

Creating institutions, and bridging the urban rural gap; investment in education, skill development and health

# Key takeaways

- Diverse skill development and inclusive employment for women and elderly in Japan; enhanced focus on secondary and tertiary education in Bangladesh and Nigeria.

- Employment generation for the abundant youth.
- Women's access to education, employment and social infrastructure like childcare, water and sanitation facilities.

Household Consumption

Astha Negi



### Household consumption and its impact

### Consumption percent in GDP

- Household consumption percentage in GDP
- Government consumption percentage in GDP
- Other GDP shares like investments and exports



#### Japan

**Household consumption** 2,805,092 million US dollars

GDP \$4971 billion

### Challenges

• ageing population, Low fertility rate, Less Immigration

### Bangladesh

**Household consumption** 225,536 million US dollars

GDP \$274 billion

### Challenges

Low employment, Low Literacy

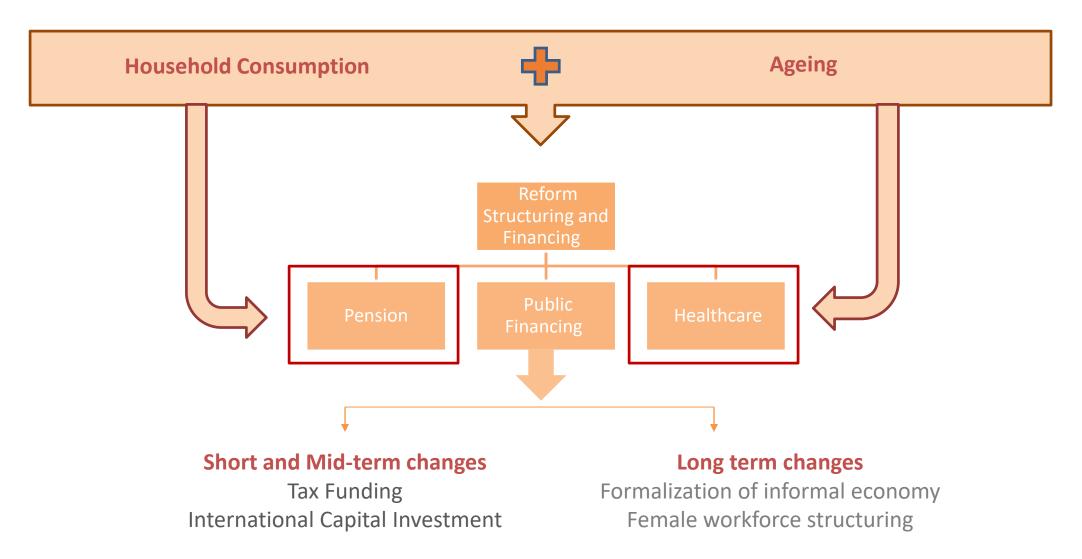
### Nigeria

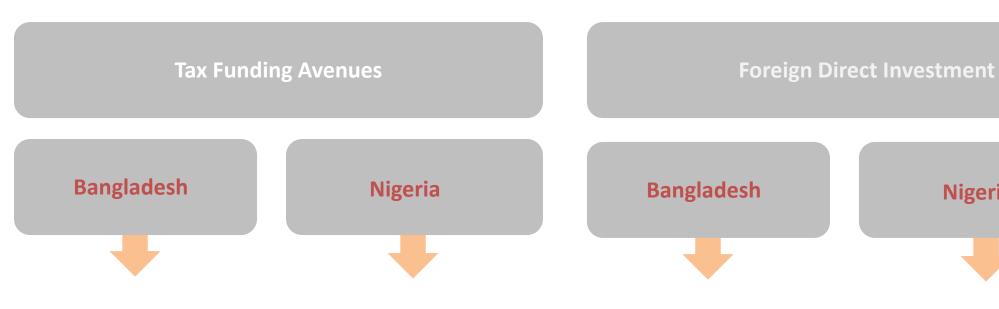
**Household consumption** 254.718000 million US dollars

GDP \$397.3 billion

#### Challenges

Low employment, Low Literacy





### **Short and Mid-term**

Climate Taxes **VAT Taxes** 

### Long term

Textile and footwear industry tax

### **Short and Mid-term**

Climate Taxes **VAT Taxes** 

### Long term

Mineral Fuel tax Oilseed and cocoa industry taxes

### **Sectors**

- Gas and Petroleum
- Agriculture industry related production and manufacturing- Cocoa, Oilseed.
- Textile and Wearing

### **Sectors**

Nigeria

- Telecommunication
- Textile and Wearing
- Power
- Gas and Petroleum

Key Takeaway

Short term

1 Large household consumption GDP share

2 Burden on healthcare and pension sector

**3** Lowering fertility rate

Mitigate Financial Volatility

The GDP share move away from household income to public financing options like Tax and FDI investment.

Stabilize future priority sectors

Prioritize stabilizing the two sectors.

Accommodate Demographic Change

Increase investment challenges on female employment and healthcare.

# Pensions

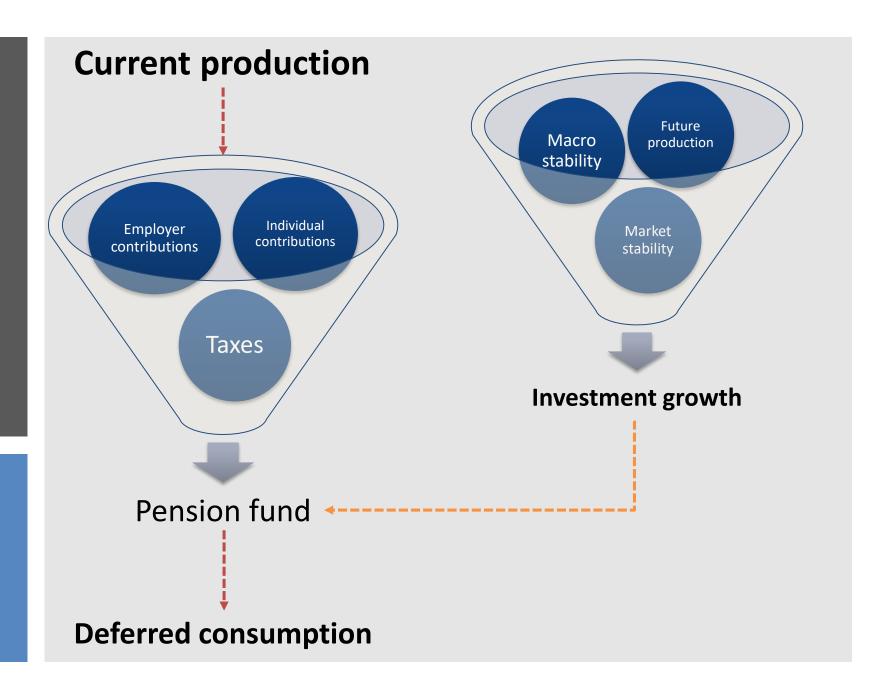
How to fund and by whom: production and consumption approach

Dillan Patel



Who pays?

Layered pension system distributes funding burden between households, companies, and governments.



# What are the issues?

- Universal pensions address coverage gap (BGD)
- Micro-pensions provide access to informal workers (NGA)
- Investment funds increase fiscal sustainability (JPN)

### Sustainable growth

Pension funds need stable, long-term returns

### Intergenerational equity

PAYG systems imply higher taxes for working population

### Disposable Income

• Need to raise real wages, offer tax credits or subsidies

### Gender

Women tend to make more career breaks and contribute less

### **Economic complexity**

• Lower income countries need to increase coverage and adequacy

### Risk Sharing

 Contributions from different economic actors (through tiered pension system) increases financial resiliency

# Pensions: takeaways



# **Short term: reality**

**Increase flexibility** 

Tax incentives

Increase retirement age



# Long term: normative goals

**Productivity growth** 

Pillar system

**Formalization** 

**Continuous social and economic investment** 



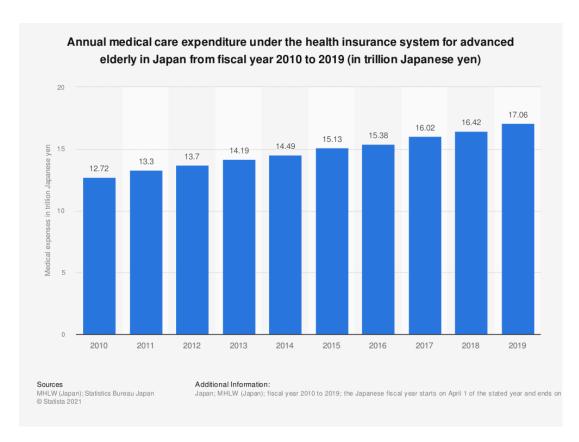


Senior Healthcare

Demi Yan, Sharon Chen, Lydia Zoe

# Japan – World's highest life expectancy

## Who pays?



Source: MHLW Japan, Statistics Bureau Japan

### Issues:

- High proportion of expenses for the elderly
- Shrinking economy
- Pressure on health-workforce



### **Solutions:**

- Strengthen investment in preventive health care
- Increasing existing benefits
- Introducing more male staff or even elderly staff
- Encourage civil participation

# Bangladesh

# Nigeria

- Huge financial pressure
- Action leading by organizations
  - Health policy and administrative management
  - ageing Research on the Edge



- Health policy and administrative management
  - Infectious disease control
    - Counterfeit Drugs
    - Retirement benefits

Avoid private sector participation
Healthcare Information Collection
Addressing the livelihood difficulties of
the elderly

**Solutions** 

Avoid private sector participation

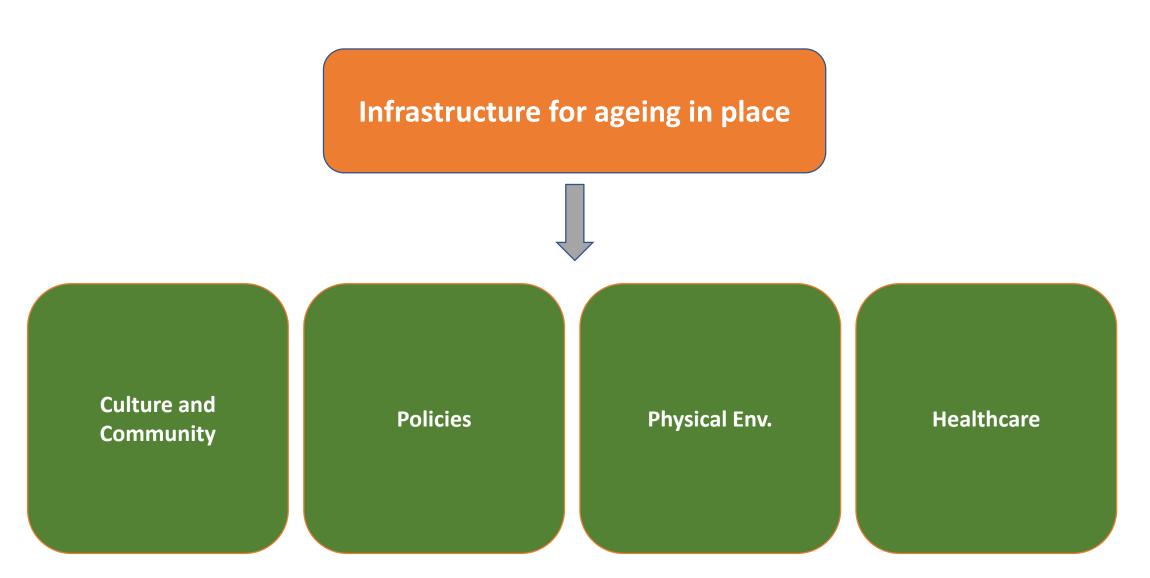
Need ageing ACT

Health insurance for the elderly

Addressing the livelihood difficulties

of the elderly

# Infrastructure & ageing Economies



# Infrastructure & ageing Economies

**Current Challenges** 

Japan

Bangladesh

Nigeria

- Shifting institutional landscapes to support active ageing
- Comparable to Denmark's Structural Reform

- Cultural unwillingness for institutional care
- Lack of alternative financial support
- Social health challenge differences in urban and rural areas

- Marginalization of elderly residents and social isolation
- Lack of planning for retirement and poor management of pension schemes

# Infrastructure & ageing Economies

What does this mean moving forward?

Japan

Bangladesh

Nigeria

- Pre-emptively directs resources to actively develop
- Gentofte Model
- Direct Engagement

- Further comprehensive research
- How do socio-economic and physical wellbeing concerns affect social status in urban and rural areas?
- How effective will the UPS be?

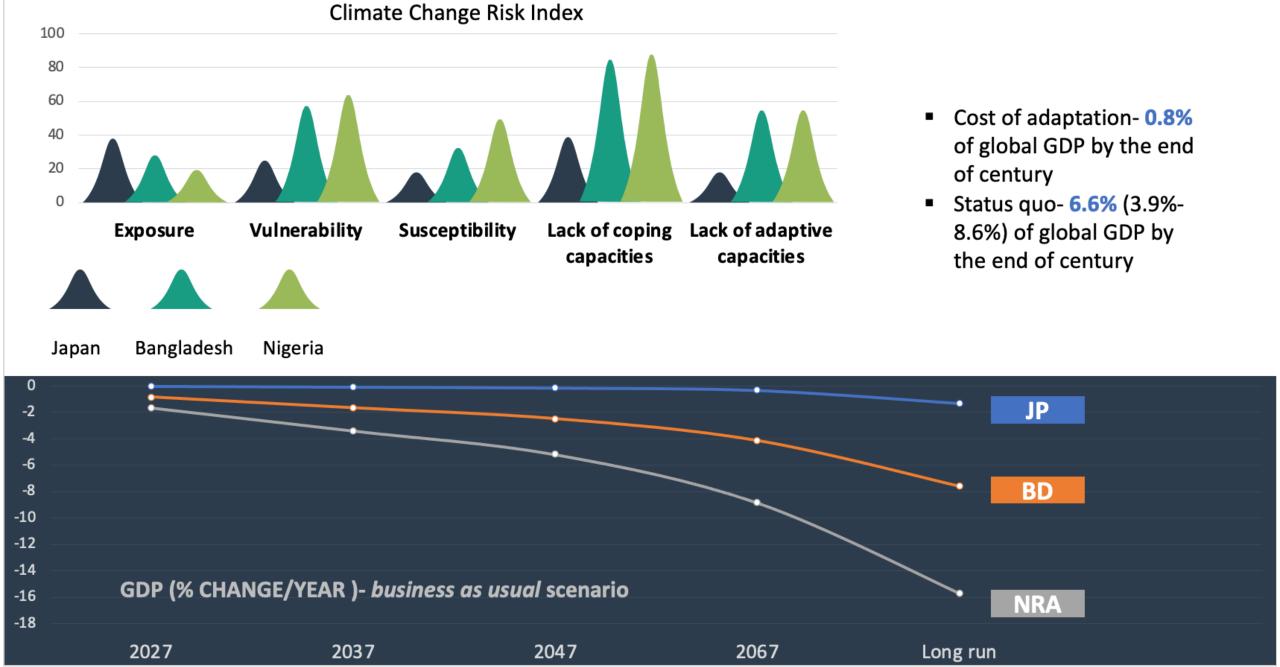
- Reducing stigmas and discrimination of ageism
- Elderly-forward policy and pension systems

Climate Change and Healthcare

Why do we need to make climate change be a part of the healthcare planning?

**Brane Gradina** 





# Climate change adaptation and healthcare system

### Japan

- Centralized
- Good coordination
- Funded by the budget

### **BANGLADESH**

- Decentralized
- Low coordination
- Lack of funds

### **NIGERIA**

- Decentralized
- No coordination
- Lack of funds

### Heat: an issue multiplier

### Gender Age Elderly the most Mortality risk is more vulnerable group associated with heat exposure for women than for men **Productivity Poverty** Global warming of 1 degree Celsius can Socioeconomic status lead to a drop in matters labor productivity by 1-3%

### **Policy suggestions**

- Enhance community development practices, especially for marginalized and vulnerable groups.
- 2 Health adaptation plans for climate change should promote public participation, particularly among those most vulnerable and marginalized
- Health in terms of climate change adaptation is a cross-sectional issue



### **KEY TAKEAWAYS**

Countries ageing at different rates but demographic challenge urgent for all

So...

Focus on longevity rather than ageing

By...

Enshrining longevity into economic, social, and environmental policy