

EU Research & Innovation Day 4 October 2016

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Background

- A central promise of the SDGs is "Ensuring that no one is left behind"
- In 2010 Oxfam reported that the wealthiest 388 people in the world had the same amount of wealth as the bottom 50%.
- By 2016, the same report documented that the wealthiest 62 people had the same amount of wealth as the bottom 50%.
- In 2016, the world also passed 400ppm of Carbon Dioxide, the first time this has been caused by antropogenic pollution.
- Global unemployment in 2016 is expected to increase to an unprecedented 200 million people according to the ILO.

On the other hand

- The European Union is at the forefront of changing economic realities on the ground.
- As EU advisor Jeremy Rifkin puts it, Europe is laying the groundwork for what he calls "The Third Industrial Revolution", though Klaus Schwab calls it "The Fourth Industrial Revolution".
- Science, Technology and Innovation at the core of transforming our societies towards one that is green, prosperous, and more equal, the 21st Century Digital Economy.
- Similar with the SDGs as it aims to reorient economic and social systems towards sustainability and shared prosperity - to not leave people behind



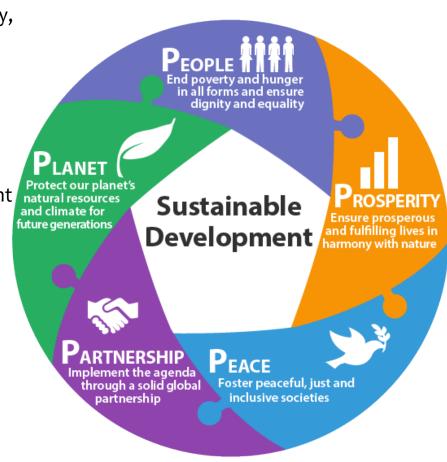
The 2030 agenda for sustainable development, and the Sustainable Development Goals

SDGs:

- A plan of action for people, planet, prosperity, peace, and partnership.
- A historic decision on a comprehensive, farreaching and people-centred set of universal and transformative Goals and targets.
- Aim is to disrupt the business as usual approach to achieve sustainable development

17 Sustainable Development Goals, 169 targets and 304 indicators:

- Demonstrate the scale and ambition of this new universal Agenda.
- Involve the entire world, developed and developing countries alike



Millennium Development Goals

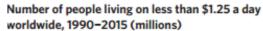
8 goals 18 targets 48 indicators

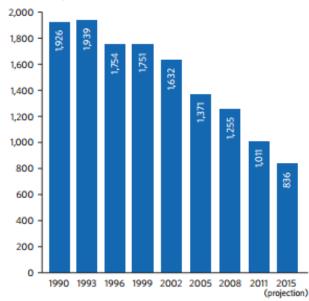


Millennium Development Goals



Progress, but more to do





Sustainable Development Goals











10 REDUCED INEQUALITIES























How do we get there?

- Financing
- Capacity building in public and private sectors
- Trade and private sector growth
- Civil society participation
- Data revolution
- Science, Technology and Innovation (#Tech4Dev)



#Tech4SDGs

- "Ensuring that no one is left behind"
- Coherence between Policy and SDGs
- Frugal/Hybrid innovation
- Social Innovation



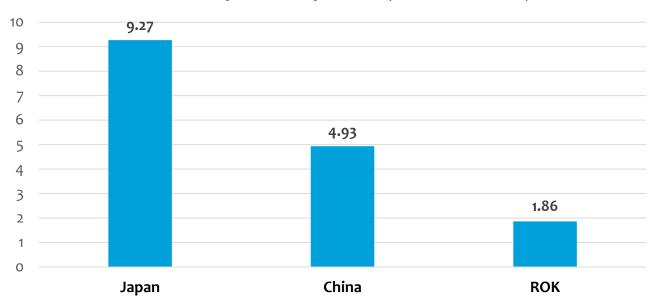




Contributing to SD in other parts of the world

- North-East Asia is a major source of ODA, technical cooperation, southsouth cooperation in Asia-Pacific
- Properly harnessing their development experiences with developing countries can provide greater benefits.

Net ODA/ Development Cooperation (2014, Billion USD)

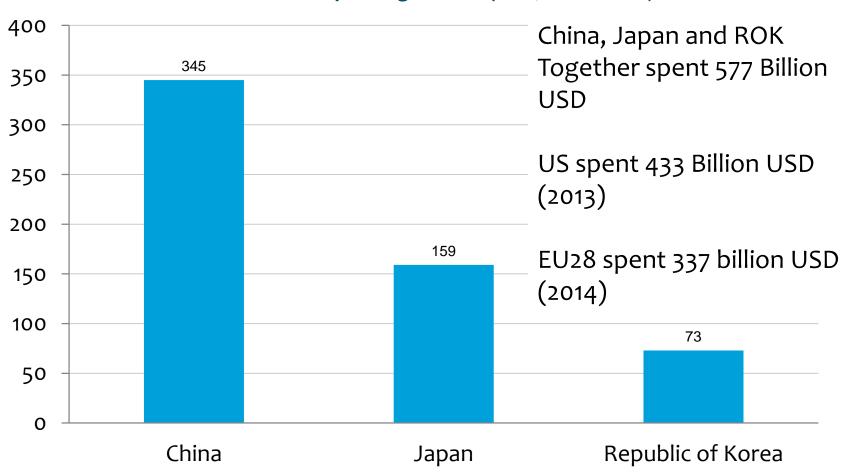


Source: OECD for JAPAN and ROK; China: unofficial estimate by JICA Research Institute



North-East Asia is leader in global R&D spending

Gross Domestic Spending on R&D (2014, Billion USD)



Source: OECD

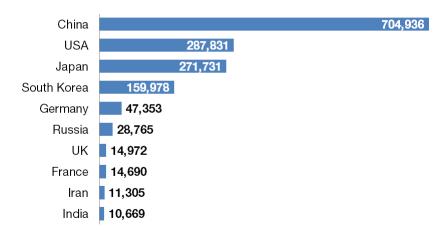


Science, Innovation and Technology

- North-East Asia is at the **forefront of global** technological advancement but innovation divide persists.
- As NEA accounts for 1/3 of global energy consumption, STI is key in the absolute decoupling of energy and economic growth.
 - China and Japan are among the world's leading economies in attracting clean energy investment (with global share of 31% and 13% respectively)
- NEA also lead the **development of** environment-related technologies
 - China has highest % of patent filings in 3 out of 4 CCMT patent landscapes (2006-2011) in biofuels, solar thermal and solar PV
 - Japanese and Korean companies play prominent role in solar PV patent landscape

Countries filing the most patent applications

Number of applications in 2013



Source: World Intellectual Property Organization (WIPO)





Industrialisation

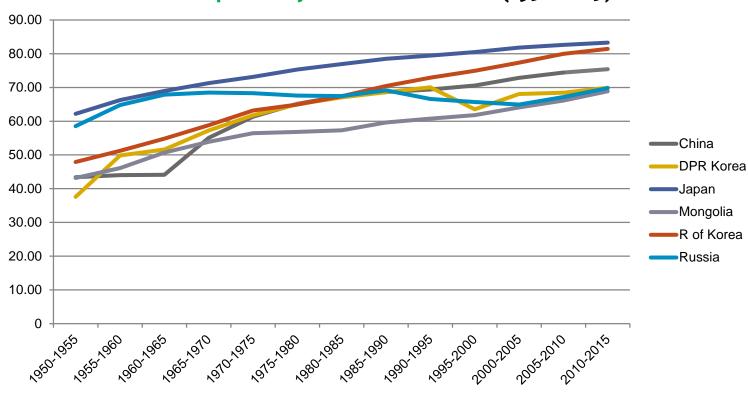




Healthy Lives

People on average are living longer than ever before



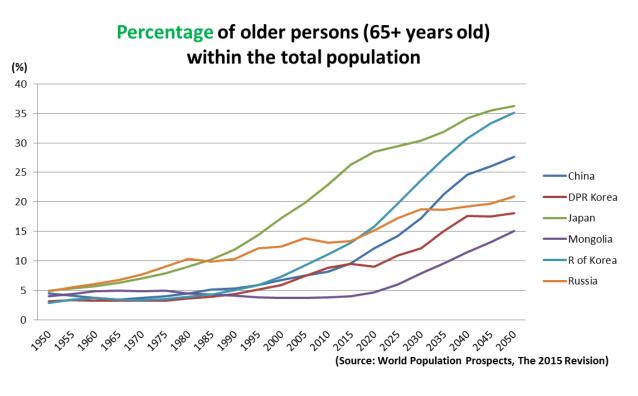


(Source: World Population Prospects, The 2015 Revision)



And Wellbeing for all

Ageing in North-East Asia: a critical factor Goal 3 as well as the fundamental structure of economy and society



- JAPAN: The world's most aged country
- REPUBLIC OF KOREA: The world's fastest ageing country
- CHINA: The world's largest population aged 80 years or over (2050)



Smart Green Cities

The demand and its potential

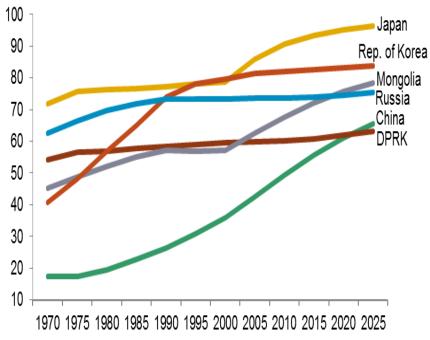
 Global LCC investment can reduce up to 18% of global energy-related GHG emissions (New Climate Economy Report, 2014)

 More compact, connected urban development can reduce urban infrastructure requirements by USD 3 trillion over 2015-2030 (NCE, 2014)

• NEA shares 1/3 of global GHG emissions, cities are the major source of emissions

• NEA has high & continuing Urbanization: Japan (93% in 2014) ROK (82%), Russia (74%), China (50%)

Share of urban population in North-East Asia, 1970-2025





Smart Green Cities

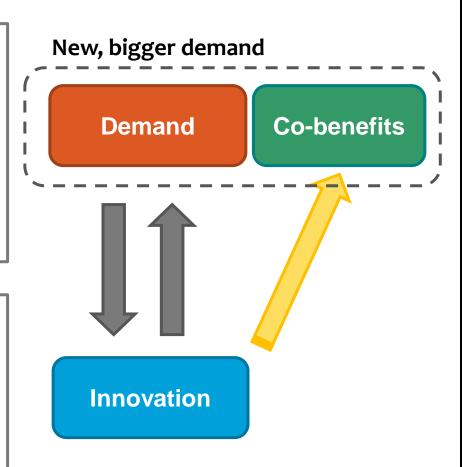
Innovation and Demand

Technology

• 30 market-ready low-carbon technologies e.g. LED lighting, and electric buses, if applied in 30 world's megacities, can avoid 3 billion tonnes of GHG emissions and 3 million tonnes of air pollution, and create 2 million jobs between 2014-2025

Schemes/Social

- Los Angeles's EV sharing targeting low income groups since 2015
- Seoul Eco-mileage programme, providing credits based on energy saved by households, to spend on eco-friendly products



Supporting cooperation

Bangkok Declaration on Regional Economic Cooperation and Integration in Asia and the Pacific (2013)

- Specifies:
 - The significance of seamless connectivity in transport, energy and ICT infrastructure to boost trade, investment and movement of people
 - The need to substantially enhance the degree of connectivity, including ICT; and the need to address the growing gap in broadband connectivity

Supporting the Harnessing of Science, Technology and Innovation

Harnessing Science, Technology and Innovation for Inclusive and Sustainable Development in Asia and the Pacific (ESCAP Resol. 72/12, 2016)

- ESCAP to encourage dialogue and cooperation on STI policies, to support the attainment of the 2030 Agenda
- ESCAP to encourage promotion partnerships to harness STI for sustainable development
- Recognizes the importance of access by all countries to environmentally sound technologies, new knowledge, know-how and expertise

THANK YOU



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