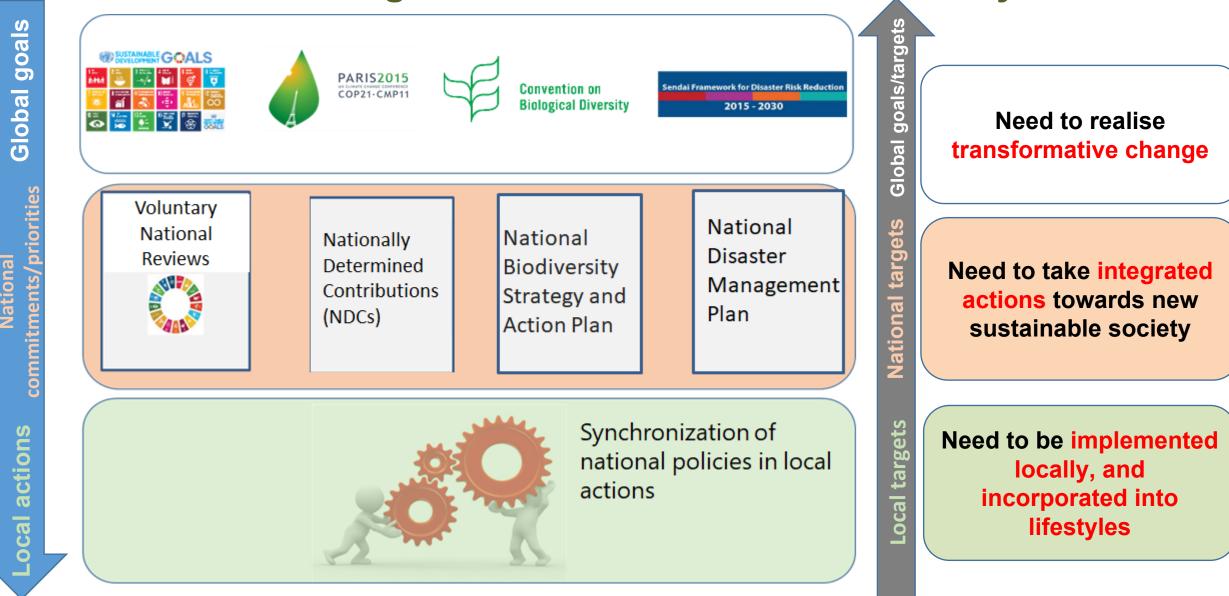


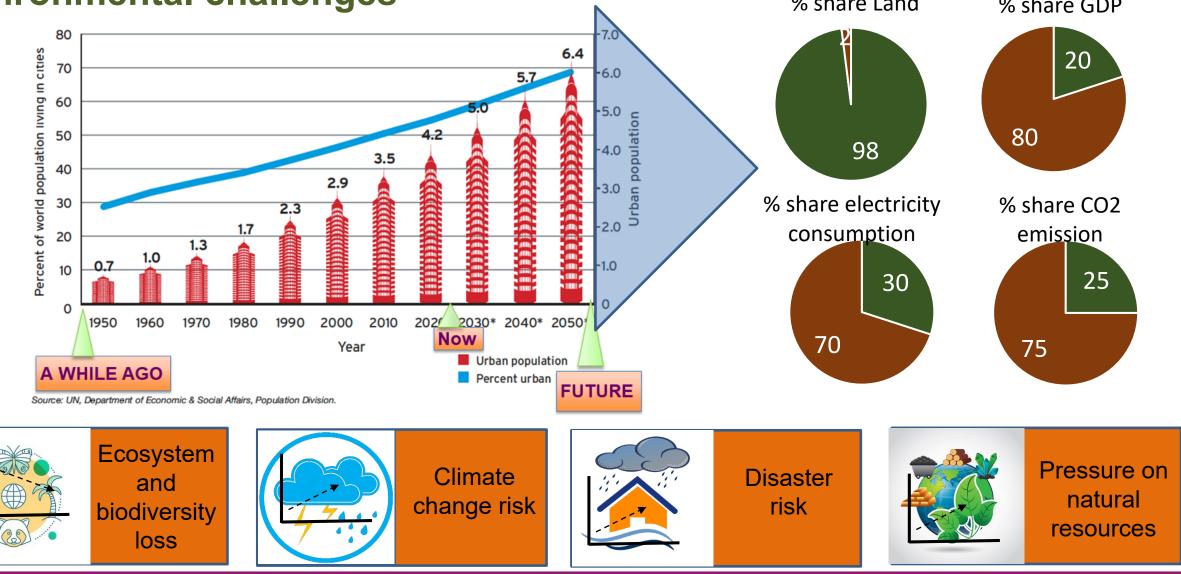
Regional-CES concept: Urban-Rural Integrated Actions on Localization of SDGs and Climate Actions

Bijon Kumer Mitra Deputy-Director Integrated Sustainability Center, IGES

Global Agreements Related to Sustainability

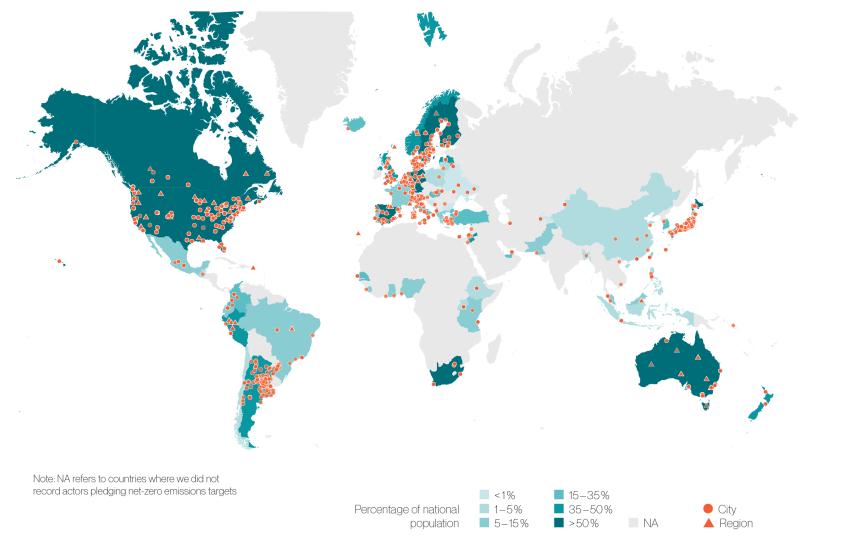


Cities should be on the front line for mitigating social, economic and environmental challenges % share Land % share GDP



www.iges.or.jp

More than 1000 cities pledge some form of net-zero targets

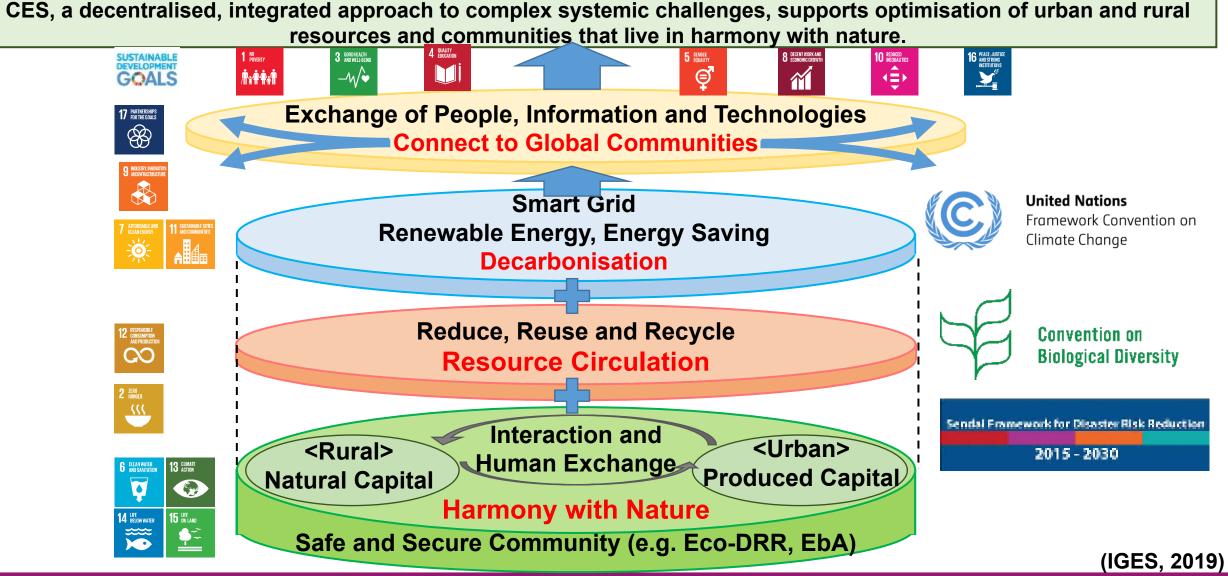


However, actions in 2% areas of the world (urban) is not enough to achieved net zero targets, SDGs, disaster risk reductions, biodiversity conservation.

https://newclimate.org/wp-content/uploads/2020/09/NewClimate_Accelerating_Net_Zero_Sept2020.pdf

www.iges.or.jp

Circulating and Ecological Sphere (CES) for integration of environmental, economic and social dimensions



Local/Regional Circulating and Ecological Sphere (CES)

Countryside

- Self-reliant and decentralised community
- Local production & consumption
- Use of renewable energy

Provision of funds and human resources

- Participation in conservation activities
- Consumption of local products
- Support through socio-economic systems
- Investment in local funds

Provision of ecosystem services

- Food, water & timber
- Renewable energy
- Water purification, control of natural disasters
 - Cross-sectoral cooperation in policymaking and planning including climate policy
 - Facilitate sound cycle of funds and human resources
 - Self-reliant and decentralised community
 - Local production & consumption
 - Use of renewable energy

Revitalisation of Decentralised, yet Connected Local Societies

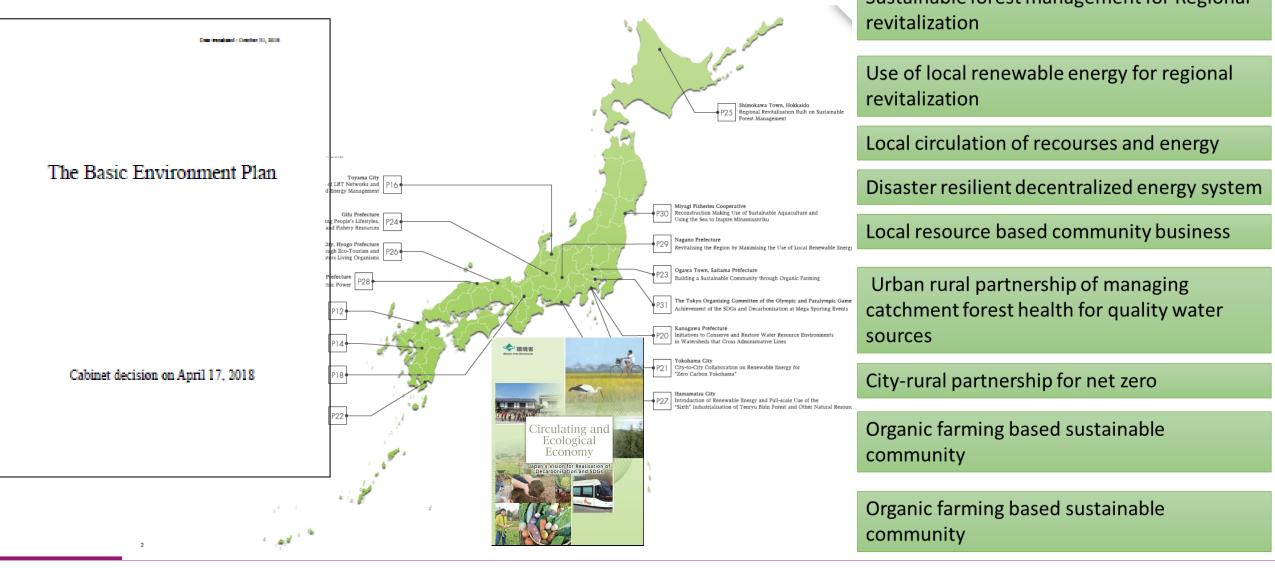
Cities

www.iges.or.jp

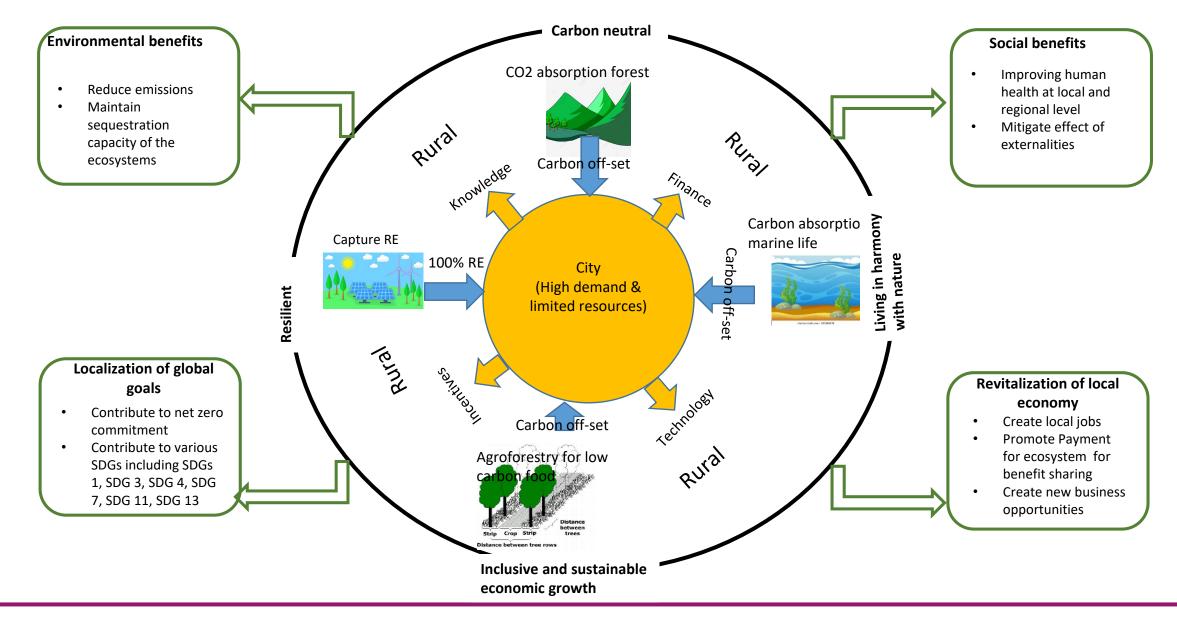
IGES Institute for Global Environmental Strategies

(IGES, 2019)

CES in Action in Japan for localization of SDGs and climate actions

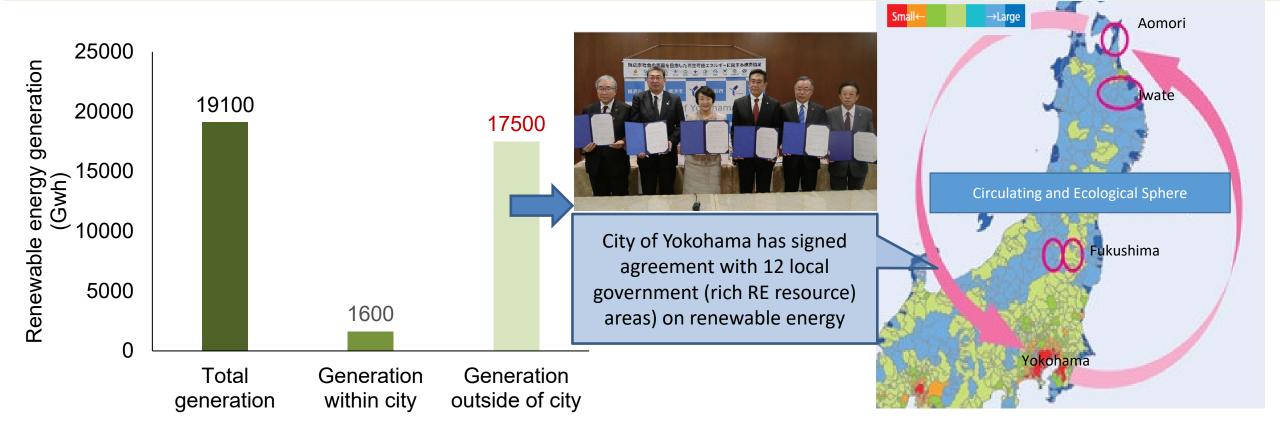


CES approach for optimum utilization of local mitigation options



CES Model for achieving 100% RE target (by 2050) of the city of Yokohama

Needs to get 19100 GWh energy supply from renewable sources in order to achieve the city's ambitious carbon neutral target by 2050. However, only 8% RE can be produced within city boundary.

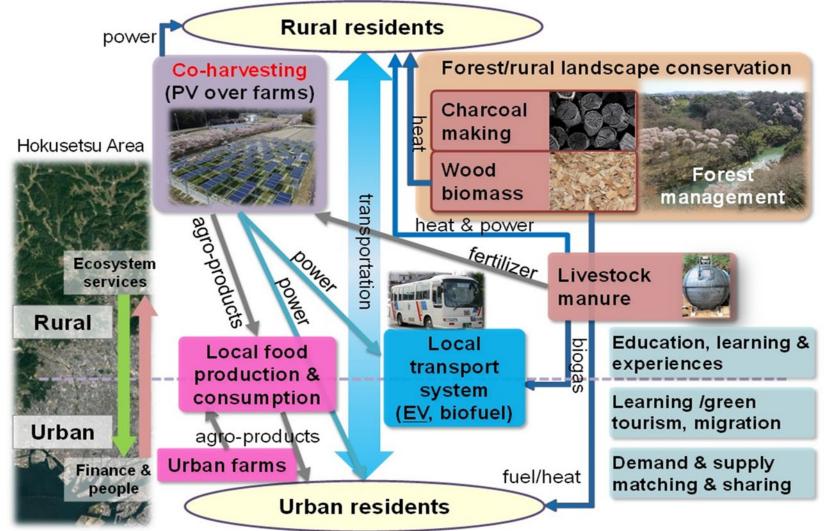


Source: https://www.city.yokohama.lg.jp/lang/overseas/climatechange/news/activities.files/0001_20200731.pdf

Selected CES Model in Japan: Hokusetsu CES Model



Hokusetsu CES Model in Hyogo Prefecture (IGES, 2019)



CES has been identified as an emerging integrated adaptive governance by the Sixth Assessment Report of IPCC (WG-II)

IDCC INTERGOVERNMENTAL PANEL ON CLIMATE Ch Climate Change 2022 Impacts, Adaptation and Vulnerability Summary for Policymakers (f) WGII

[START BOX 10.1 HERE]

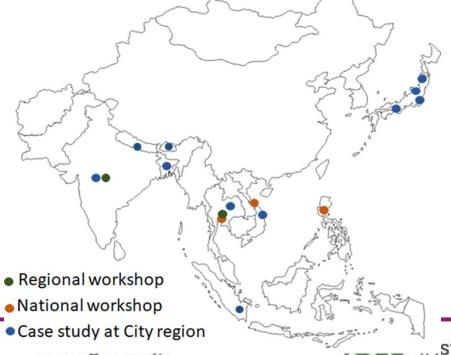
Box 10.1: What is New on Asia in AR6?

- Adaptation in energy sector is becoming increasingly crucial in the Asian region, which has been assessed in a new sub-section.
- Adaptation technology and innovations are also of high importance for the region. Classification of adaptation technology and its use in different systems are assessed.
- On the governance side, the nexus approach among several systems like food, energy, water is focused, and its importance is assessed.
- New concepts on decentralised and self-reliant society, such as the Circulating and Ecological Sphere (CES) are emerging for integrated adaptive governance,
- As a part of sustainable development pathway, interlinkages of climate change adaptation and disaster risk reduction is highlighted.

The CES-Asia Consortium was established on 14th October, 2021

Goal: Mainstreaming the Regional-CES concept to address sustainability challenges through integrated actions in city regions of Asia

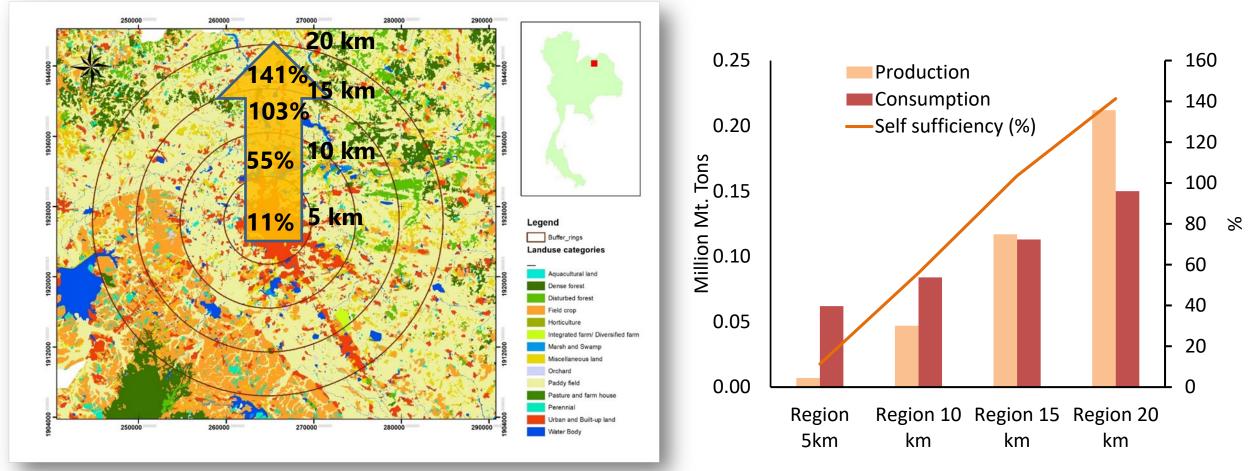
Footprint of CES-Asia Consortium Bangladesh | Bhutan | India | Indonesia | Japan | Nepal | Philippines | Thailand | Vietnam



Ten (10) consortium members have signed the Partnership Agreement

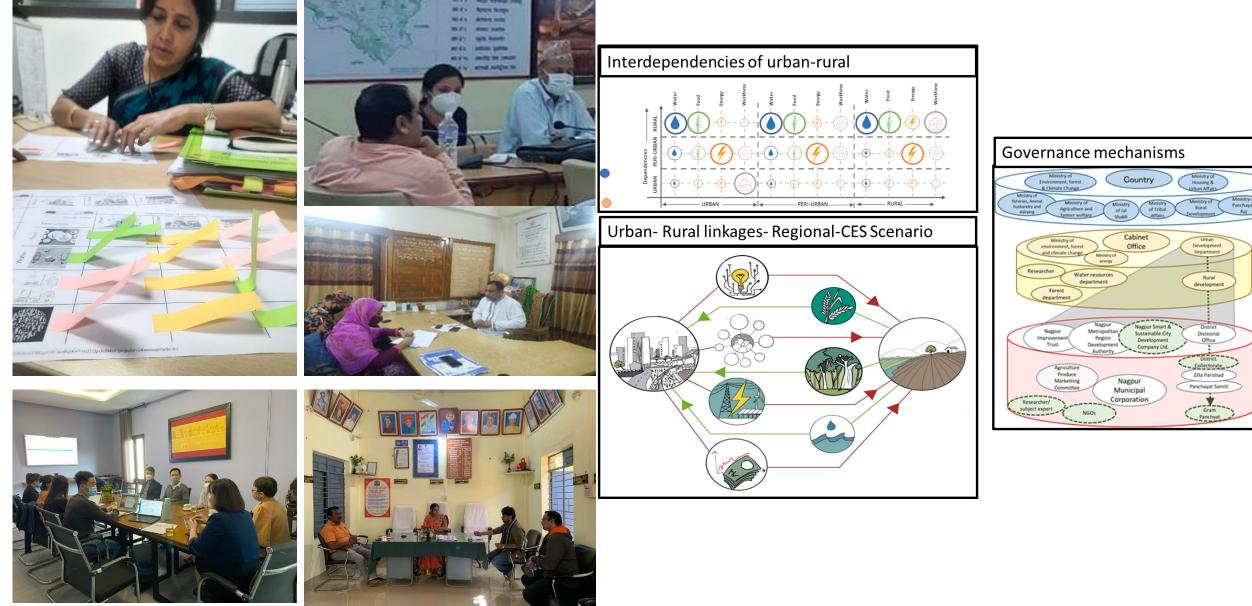


Generating scientific evidence through case study: Need CES approach for resilient food supply in Udon Thani City region Thailand



★ City center of Udon-Thani. Each circle denotes 5 km radius

Need a multi-stakeholder platform to advance CES approach in the city region



Thank you very much

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