Toward the Establishment of a Sustainable Society in Harmony with Nature - A Key for Redesign of Our Society in the Post-COVID Era

ISAP Thematic Track 6
“Redesigning Local for Transformative Change: Demonstration of Circulating and Ecological Sphere (CES)”
11 November 2020

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COVID-19 Pandemic and Unsustainable Development

- Rapid Deforestation
- Rapid Urbanization
- Massive Movement of People

Same unsustainable paths accelerate
- Biodiversity Loss
- Climate Change
- Disasters
- Infectious Diseases

Mongabay News 27 Apr 2015
UN World Urbanization Prospects 2018
UNWTO Tourism Highlights 2019

International tourist arrivals (million) and tourism receipts (USD billion)
Source: World Tourism Organization (UNWTO), 2019
Global Agreements related to Sustainability

- 2030 Agenda and SDGs
- Paris Agreement (UNFCCC)
- Aichi Biodiversity Targets & Post-2020 Biodiversity Framework (CBD)
- Sendai Framework for Disaster Risk Reduction

Need to realise transformative change in the Post-COVID19

Need to take integrated actions towards new sustainable society

Need to be implemented locally, incorporated into lifestyles
The “Triple R Framework”
(Response-Recovery-Redesign)

RESPONSE
Targeted interventions to address immediate impacts

RECOVERY
Socioeconomic measures to change policy orientation

JUST TRANSITION
Transforming unsustainable socioeconomic systems and institutions

REDESIGN
Short-term  Medium-term  Long-term

Sustainable & Resilient World

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“Adaptive Recovery” from Disasters

Responding to the crisis
◆ Emergency humanitarian relief
◆ Establishment and management of evacuation centers and provisional housings
◆ Removal of disaster debris

Recovery for more disaster-resilient society
◆ Flexible adaptation by using ecosystem services (EbA, Eco-DRR)
◆ Improvement of infrastructure and promotion of effective land use

Redesign the future of resilient society
◆ Multi-sector/Multi-level cooperation (ko-jo, kyo-jo, ji-jyo)
◆ Address various other threats, such as infectious diseases, heat stroke and earthquakes
◆ Promotion of pre-disaster reconstruction efforts

“Adaptive Recovery” is the new concept introduced by Japan. We must respond to disasters by implementing resilient measures including climate change adaptation.
Japan’s 5th Basic Environment Plan

Need for Integrated Approach

Basic Approach

- Utilizing the concepts of SDGs, realising the Integrated Improvements on environment, economy and society
- **Innovation of lifestyles** towards environmentally-friendly, healthy and high-quality life
- Maximise the sustainable use of local resources for improvements in economic and social activities
- Promoting **partnerships** with a wide range of stakeholders

Source: Ministry of the Environment, Japan
Multi-level Circulating and Ecological Sphere (CES)

**Global**

- Offshore wind

**Regional**

- Local power producers and suppliers
- Composting, feed conversion, facilities for methane fermentation and power generation

**Local**

- Local production & consumption of agriculture, forestry and marine products
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**Community**

- NPO community/citizens’ community
- Centers for disaster management utilising renewable energy, stored energy
- Energy Independent block
- ZEB・ZEH
- Heat utilisation of Satoyama resources
- Nature experience, hot spring cure, “workation”
- Local grid

Promotion of environmentally friendly agriculture, forestry and fisheries
Circulating and Ecological Sphere (CES)

Integration of environmental, economic and social dimensions

Integrated response to declining and aging population, Local revitalisation

CES to achieve integrated solution for those local issues

Safe and Secure Community (e.g. Eco-DRR, EbA)

Harmony with Nature

Resource Circulation

Interaction and Human Exchange

Reduced, Reuse and Recycle

Smart Grid

Renewable Energy, Energy Saving

Decarbonisation

Exchange of People, Information and Technologies

Connect to Global Communities

(IGES, 2019)
Local Circulating and Ecological Sphere (Local CES) (Localisation of SDGs)

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

Provision of ecosystem services
- Food, water & timber
- Renewable energy
- Water purification, control of natural diesters

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

- 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
Globally Important Agricultural Heritage Systems (GIAHS)

- Started in 2002 by FAO, headquartered in Rome
- Certification of sustainable agricultural systems that must be conserved for future generations, e.g., farming methods that sustain biodiversity
- GIAHS looks ahead to the future of agriculture while looking back on the past
- In 2011, the satoyama of Sado (featuring the ibis) and the satoyama and the satoumi of Noto were designated as GIAHS.
- A further challenge is the regional revitalization through promotion of agriculture, forestry, and fisheries in ways that conserve biodiversity

New Commons and New Business Models

- The declining numbers and ageing of primary industry workers is a serious problem
- It is important to promote regional complex industries that go beyond previous efforts to link primary, secondary, and tertiary industries.
- A “new commons” that allows horizontal cooperation between a diversity of stakeholders is necessary.
- Models are needed which provide added-value to agricultural, forestry, and fisheries.
- These approaches should be developed not only in Japan but also more broadly and internationally.
New Business Model: The Case of Sado Island

- Add high value through production systems which sustain biodiversity
- Handle various goods collectively and establish access to markets
- Build synergies between tourism and bio-production industries
Thank You for Your Attention!