

From Science to Implementation: Strengthening the Science Policy Interface (SPI) to Integrate Climate Change, Resilience, and the SDGs

Kazuhiko TAKEUCHI

**President, Institute for Global Environmental Strategies (IGES)
Chair, Central Environment Council, Government of Japan
Vice-President, Science Council of Japan**



HLPF2019 IGES Side Event

“From Science to Implementation: Strengthening the Science Policy Interface (SPI) to Integrate Climate Change, Resilience, and the SDGs” on 11th July 2019, UNHQ, NY

Global Agreements related to Sustainability



PARIS2015
UN CLIMATE CHANGE CONFERENCE
COP21·CMP11

Paris Agreement
(UNFCCC)

SUSTAINABLE DEVELOPMENT GOALS



2030 Agenda
and SDGs



Convention on
Biological Diversity

Aichi Biodiversity
Targets & Post-
2020 Biodiversity
Framework (CBD)

Need to take
**integrated
actions** towards
new sustainable
society

Need to be
**implemented
locally**

Role of Science for Achieving SDGs

Role of Science

2030 Agenda Process

Identify “**what we should do**”
“Normative”
e.g. Planetary Boundary



Identify “**what we can do**”
“Action-oriented”
e.g. **Regional CES**
(Circulating and Ecological Sphere)

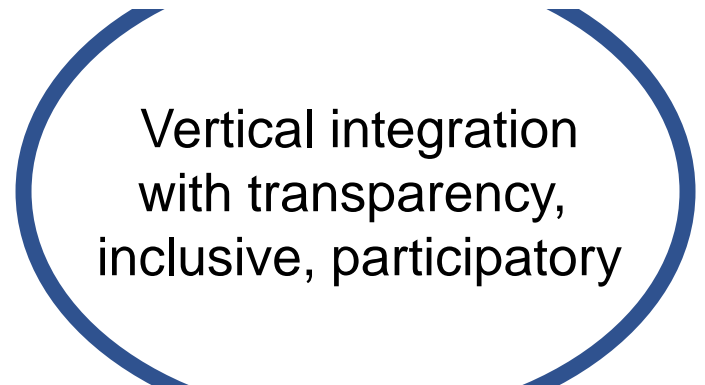


VLR Lab

Ecosystem
to create
solutions with
collective actions

Follow-up and Review

- Thematic review
- Goals review
- Voluntary National Review



Voluntary “Local” Review

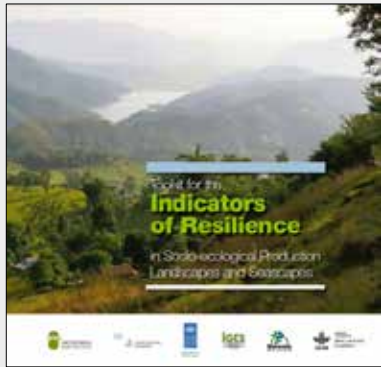
Cities, SMEs.....

The Satoyama Initiative

- u Promotes “**landscape and seascape approaches**” to biodiversity conservation and sustainable use:
Socio-Ecological Production Landscapes and Seascapes (SEPLS)
 - u Support **biodiversity** while providing humans with **goods and services** needed for their well-being.
 - u **Mutual benefits** between people and nature.
 - u **Dynamic mosaics** of habitats and land uses.
 - u Deeply linked to **local culture and knowledge**.



Indicators of Resilience in SEPLS



- u IPSI Collaborative Activity (developed by UNU, IGES, Bioversity International, UNDP)
- u Assessing multiple aspects of SEPLS using 20 indicators in five categories
- u Self assessment results by stakeholders interpreted by external party(agency)

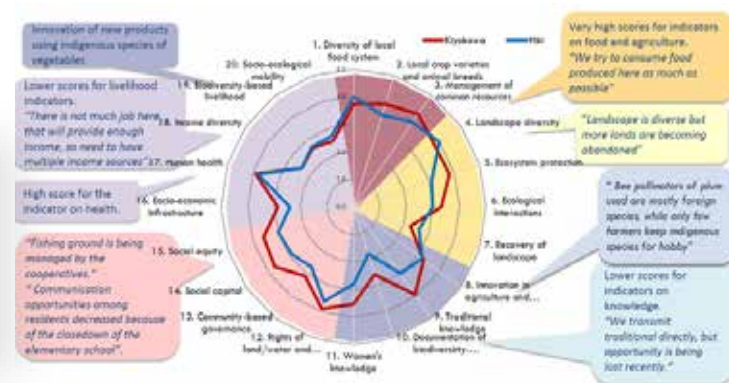
SEPLS RESILIENCE INDICATORS (Five categories and SDGs)

<p>[Environmental]</p> <p>1. Landscape/Seascape biodiversity & ecosystem protection</p> <p>2. Biodiversity (incl. agro-diversity)</p>	
<p>[Social]</p> <p>3. Knowledge & innovation</p> <p>4. Governance & social equity</p>	
<p>[Economic]</p> <p>5. Livelihoods & wellbeing</p>	

- u Indicators relate to all 17 SDGs
- u Promote partnerships between local communities and external partners to act toward **strengthening resilience** through participating in assessments
- u Establish process for **monitoring and evaluation**



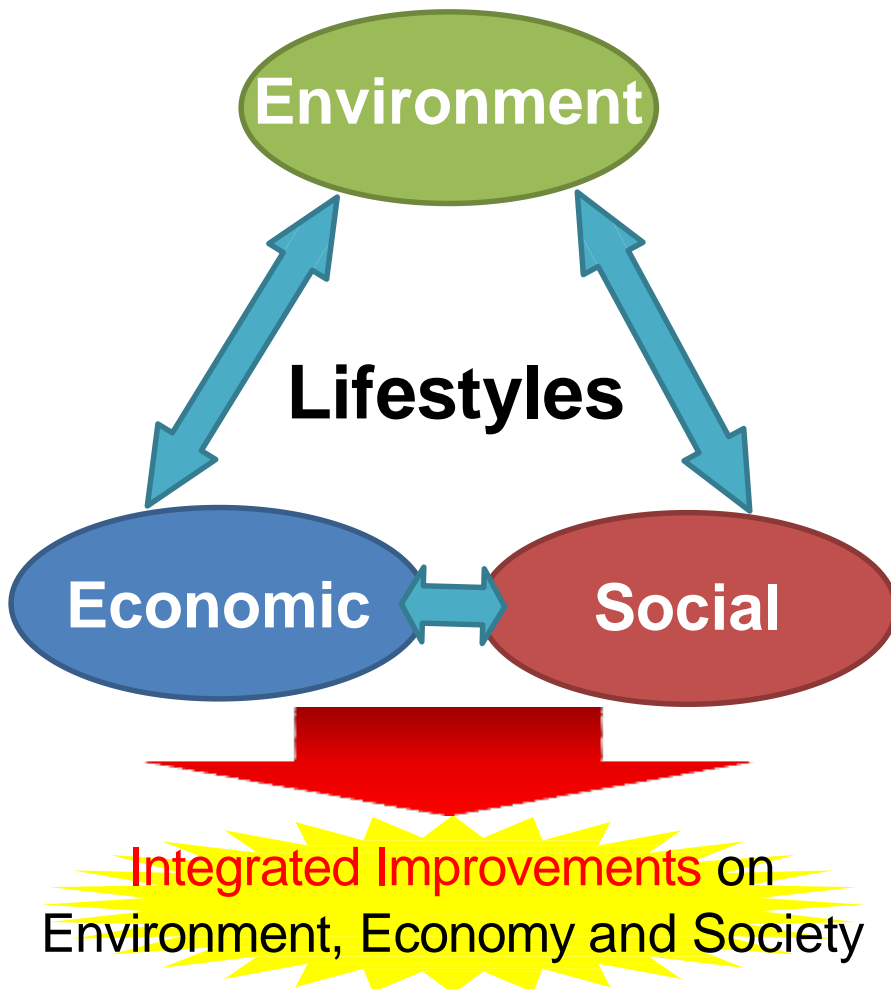
SEPLS Resilience Indicators Workshops in Namibia (Left), Bhutan (Center) and Japan (Right)



Responses of Kiyokawa Town and Hiki Town, Japan

Japan's 5th Basic Environment Plan

Challenges Facing Japan



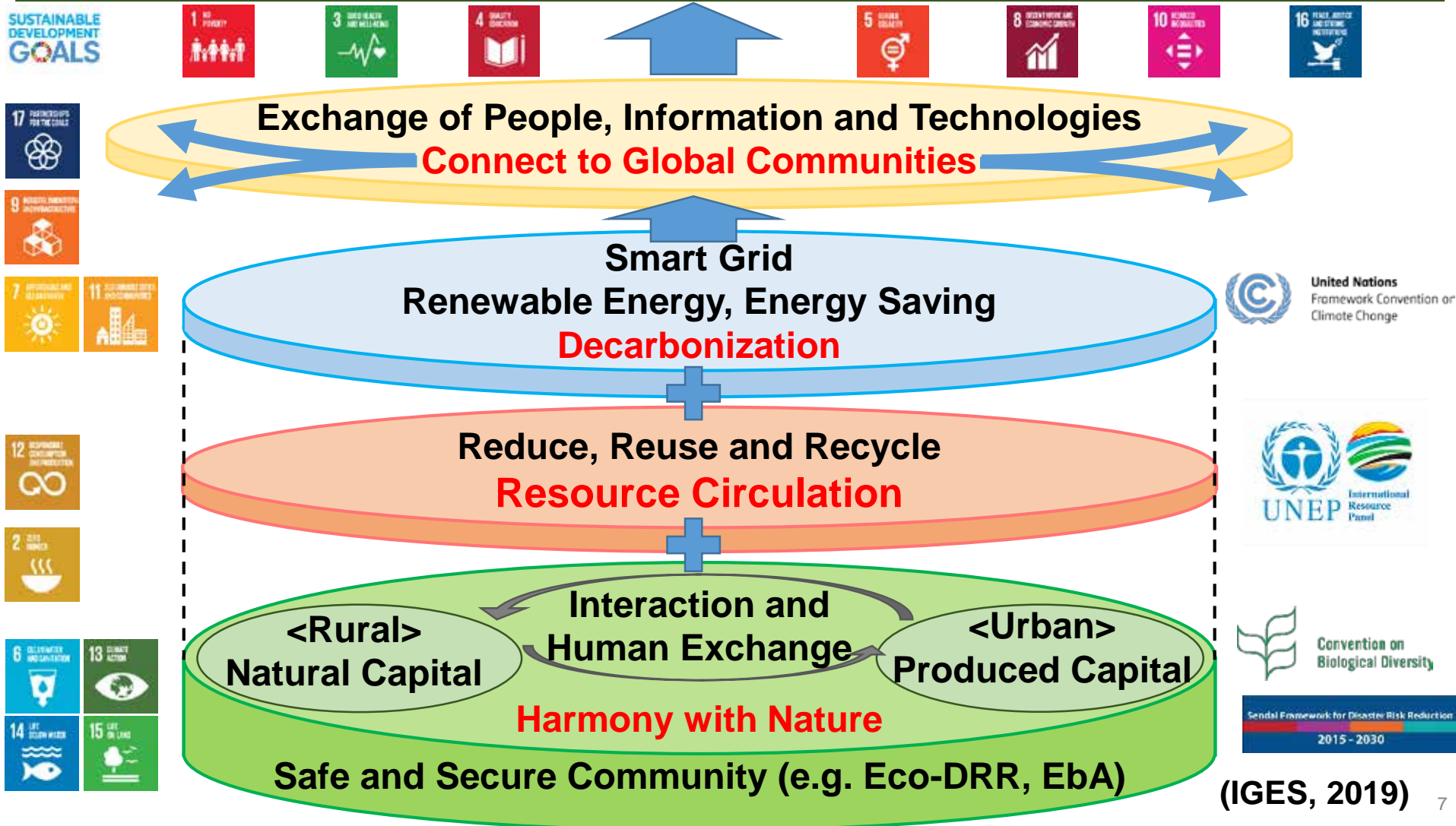
Source: Ministry of the Environment, Japan

Basic Approach

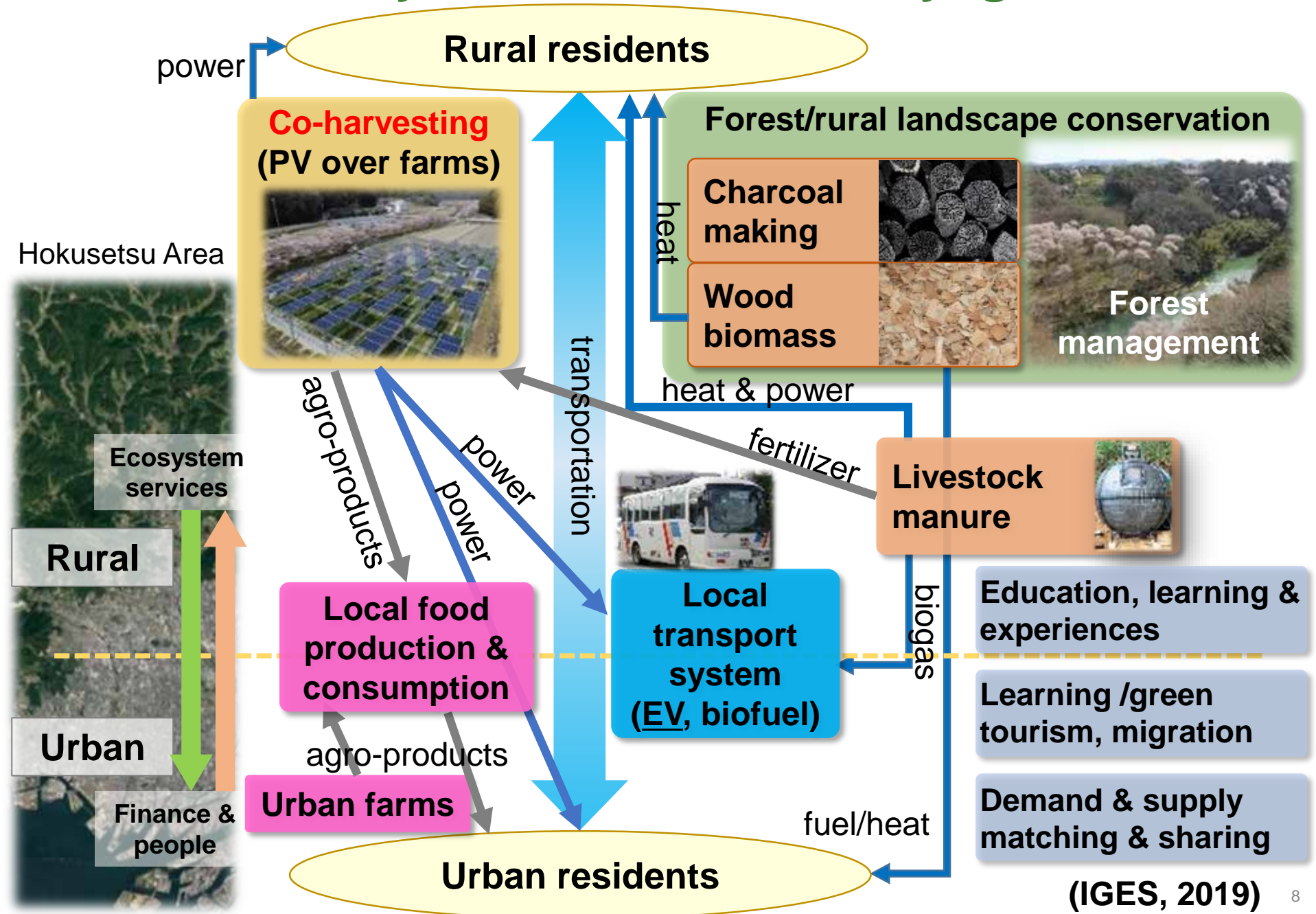
- Utilizing the concepts of SDGs, realizing the **Integrated Improvements on Environment, Economy and Society**.
- Innovation of lifestyles** towards environmentally-friendly, healthy and high quality life.
- Maximize the sustainable use of regional/local resources** for improvements in economic and social activities.
- Promoting **Partnerships** with a wide range of stakeholders.

Regional/Local Circulating and Ecological Sphere (CES)

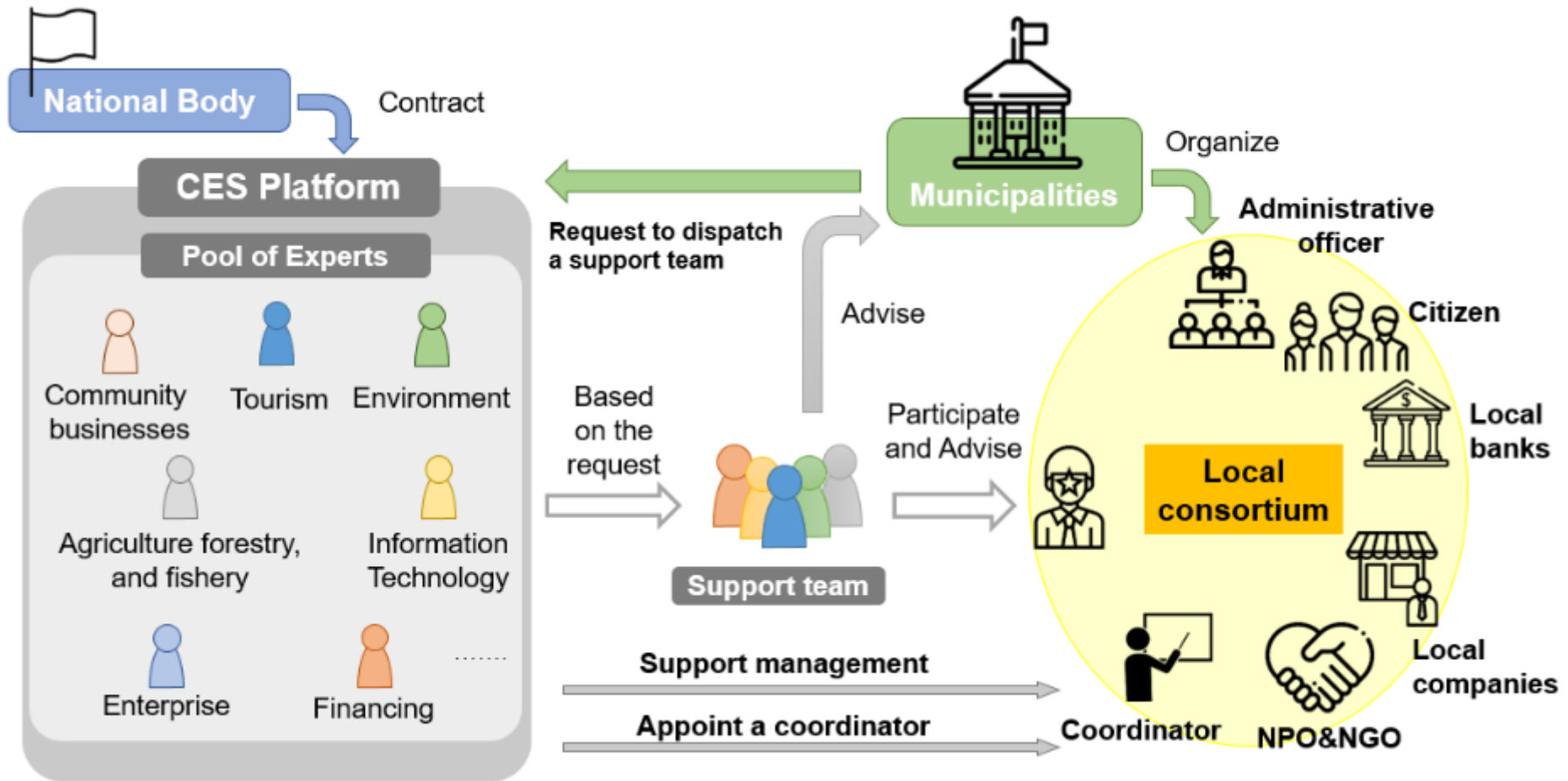
Integration of environmental, economic and social dimensions
 Integrated response to declining and aging population, Local revitalization
CES to achieve *integrated solution* for those local issues



Hokusetsu Satoyama CES Model in Hyogo Prefecture



Existing Platform Project toward CES

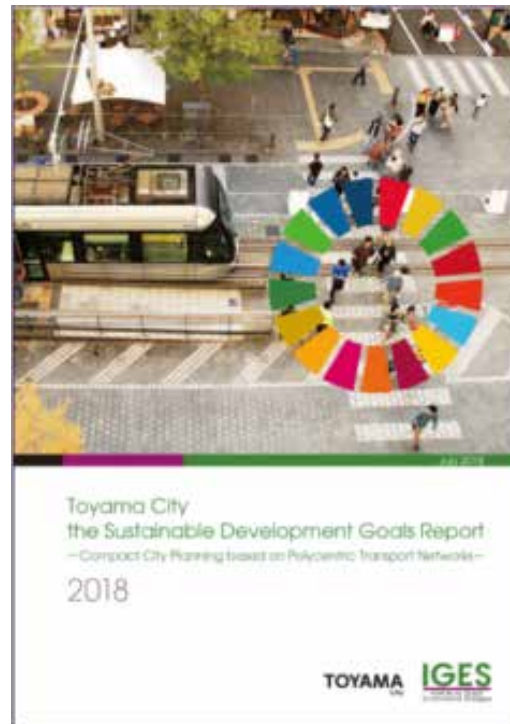


Voluntary Local Review (VLR)

VLRs have the potential to inform the drafting of future Regional/ Local CES strategies.



Shimokawa Town, Hokkaido



Toyama City, Toyama



Kitakyushu City, Fukuoka

Conducting VLRs can provide a space for self-assessment, policy integration, accountability and peer-learning.