

Satoyama and Satoumi are "living classrooms" of sustainability

#### Satoyama type of landscape

- Satoumi type of seascape









Socio-ecological Production Landscapes and Seascapes (SEPLS)



et sustainability

SEPLS are

"dynamic mosaics of habitats and land and sea uses where the harmonious interaction between people and nature maintains biodiversity while providing humans with the goods and services needed for their livelihoods, survival and well-being in a sustainable manner" (IPSI, 2017)

### SEPLS around the world





Biodiversity rich environments maintained by traditional cultures and wisdom of indigenous peoples and local communities



#### Biodiversity underpins sustainability of the planet!

#### The SDGs 'Wedding Cake'

(Stockholm Resilience Center, 2016)

- Forming the basis of the planet are
   4 goals related to the biosphere:
  - SDG 6: Clean water and sanitation
  - SDG 13: Climate action
  - SDG 14: Life under water
  - SDG 15: Life on land
- Economy and Society are embedded parts of Biosphere
- Ecological limits form basis of the SDGs



Biosphere is the foundation of sustainability of our planet and biodiversity is the key connector of the 4 biosphere related SDGs!

# However, biodiversity is now in crisis...



and sustainable development of our planet is at critical threat!

The Intergovernmental Science-Policy Platform on Biodiversity and Ecosystem Services (IPBES) Global Assessment on Biodiversity (May 2019)

The Report warns that



3) Climate change

#### around 1 million animal and plant species (out of 8 million)

are now threatened with extinction, many within decades, more than ever before in human history

Direct exploitation of organisms

5 Key Drivers of Global Biodiversity Loss:



(Source: IPBES, 2019)

1) Changes in land and sea use

## Threats and Challenges facing SEPLS















- Demographic change
- Economic change
- Cultural change
- Science & technology
- Socio-political change









### The Satoyama Initiative

Proposed by **UNU** and **the Ministry of Environment Japan** at the Tenth Meeting of the Conference of the Parties to Convention for Biological Diversity (**CBD COP 10**) held in Nagoya City, Aichi Pref., Japan, 2010.



- A global effort to realize
   "societies in harmony with nature"
- Revitalization and sustainable management of landscapes and seascapes for people and nature



"Useful tool to better understand and support human-influenced natural environments for the benefit of biodiversity and human well-being"

(CBD-COP10 Decision X/32)

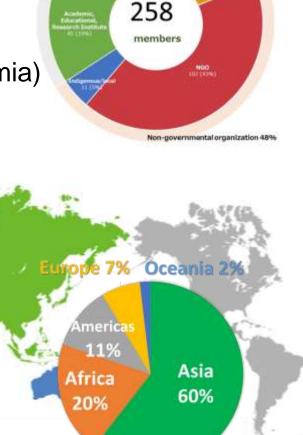
### **International Partnership for** the Satoyama Initiative (IPSI)





Government 18%

- Launched at CBD COP 10 in 2010
- IPSI Secretariat at UNU-IAS
- **258 member organizations** as at April 2020
- (e.g., Governments, NGOs, private sector, IPLCs, academia)





Six Ecological and Socioeconomic Perspectives

of local

traditions and

culture

resources

stakeholder

participation

and

collaboration

socio-

economies

#### **IPSI Three-fold approach**





Consolidating wisdom on securing diverse ecosystem services and values



Integrating traditional ecological knowledge and modern science to promote innovation



Exploring new forms of co-management systems or evolving frameworks of "commons"

Sustainable management and restoration of SEPLS through promoting community-based knowledge sharing and social learning

#### Five clusters of IPSI Activities



# IPSI Collaborative Activities

#### **Knowledge**

Enhance understanding and raise awareness of the importance of SEPLs

- 1. Knowledge Facilitation
- 2. Policy Research
- 3. Indicators Research

**Action** 

Promote maintenance and rebuilding of SEPLs

- 4. Capacity Building
- 5. On-the-ground Activities

Provide research tools and capacity building mechanisms for community-based learning and biodiversity conservation measures

### Why Community-based learning?



Participatory Approach

Social learning

Conflict reduction

Just outcomes







Life-long learning

Sustainability





#### Satoyama Development Mechanism (SDM) Project 15-1:

Integrated participation of institutional stakeholder for upliftment of rural livelihood through sustainable harvesting and market linkages of NTFPs and Agri products

- Mandla district of Madhya Pradesh, India
- Livelihood of **indigenous tribes** depend on forest resource, subsistence agriculture and animal husbandry
- However, intensifying exploitation and market pressure
- Establish sustainable harvest of commercially important nontimber forest products (NTFP), develop market linkages, promote community fodder banks and rotational grazing
- Promote knowledge-sharing through community-based consultations



Construction of an Azolla Pit as a green fodder supplement for cattle feeding

Source: Takahashi et. al (2019), A self assessment by the SDM Secretariat

### **Key Achievements**





Empowered the elderly and women



Sense of ownership



Value chain analysis



Achievements, challenges and ways forward for the Satoyama Development Mechanism: A self-assessment by the SDM Secretariat

Vacco Telestadii, Marita Talia-Pete Salma Megasar, Jode Ma Hales Sebegativ, Rajariti Elestadia and Fabilitis Laser Garero



Value-added to marketing of agro-products



Established community enterprises



Established sustainable harvest of native crops







Enhanced livelihoods and business skills



Reinforced valuing of nature and motivation to learn



Source: Takahashi et. al (2019), A self assessment by the SDM Secretariat

#### **Indicators of Resilience in SEPLS**

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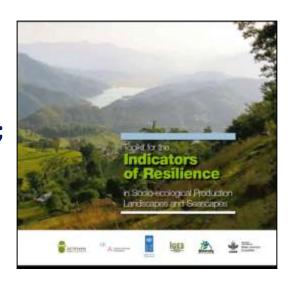


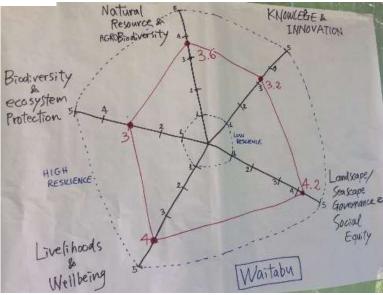
- A self-assessment survey tool of local communities on their understanding and perceptions
- 20 indicators (5 areas) to generate understanding of SEPLS:
  - 1. Landscape/seascape diversity and Ecosystem protection;
  - 2. Biodiversity;
  - 3. Knowledge and innovation;
  - 4. Governance and social equity;
  - 5. Livelihoods and well-being
- Adjustable to local context

Scores	Trends
5 Very high	↑ Upward trend
4 High	
3 Medium	→ No change
2 Low	→ Downward trend
Very low	









#### Using the SEPLS Resilience Indicators for Community-based projects



### Community Development and Knowledge Management for the Satoyama Initiative (COMDEKS) Programme

- Implemented by UNDP; Contribution from Japan Biodiversity Fund
- Small-grant funding in 20 countries to apply the landscape approach



#### **Publications developed**

- US \$22,260,656 (including co-financing) was funded to 398 projects in 6 years (2012-2018)
- "COMDEKS methodology" including landscape approach now included in all GEF-SGP "Upgraded Country Programmes" in 35 countries









#### **GEF-Satoyama Project**

- Implemented by Conservation International; Funding from the GEF
- US\$ 2 mill. in total (2015-2018)



- Knowledge generation and capacitybuilding in 3 priority ecosystems: Indo-Burma, Tropical Andes, and Madagascar and Indian Ocean Islands
- Conservation benefits to over 4 million ha of land and sea
- Improved habitats for 120 globally threatened species of plants and animals











- Y4IRT is a tablet-based capacity-building and exchange program
- By University of the Philippines and local partners



Ifugao Rice Terraces (IRT), Philippines (UNESCO World Heritage, FAO GIAHS Agricultural Heritage)

- Reconnect local Ifugao youths, and connect urban youths, with the IRT
- Community-based education on value/importance, challenges and the actions taken to conserve IRT
- Also part of a IPSI SDM project and documented in Satoyama Initiative Thematic Review Vol.5





SITR Vol.5





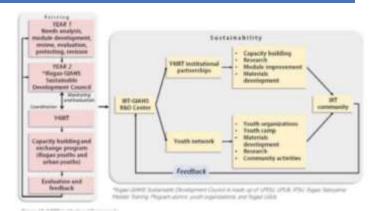
#### **Tablet-based training modules**



#### Youth and exchange program



# Monitoring and improvising of module



Both educators and students work with the local communities to build this learning programme, while documenting local knowledge and exploring sustainable pathways for the communities

UNIVERSITY

UNU-IAS

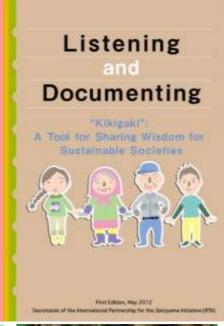
### Oral History Handbook "Kikigaki"

- Guidance handbook on TEK documentation for students
- •Joint publication with NPO Kyozonno-mori Network
- "Kiki" Listening
- "Kaki/Gaki"- Writing (Documenting)
- •Annually, 100 high school students interview elders
- •Make a record of the lives of skilled craftspeople and farmers living in rural communities in Japan













### 12 Principles of *Kikigaki*

### ◆ 共存の森 NETWORK NETWOR

#### - Tips on community-based learning

Get to know the neighbourhood where the interviewee lives and observe things first-hand. Do your best to listen to the voice of the interviewee's experience and memory.



Visit the place where the interviewee works; get a feel for the lend and the national feetimes of the area. As you learn about the wisdom and skills involved in his/her craft, you will begin to undorstand his/her life and values. Your interviewee will begin to speak more freely upon learning that thora is someone who sincerely wants to undorstand and learn about his/her story.

# Observation & Experience

# Respect & Open-mindness

More important than literary talent in Kikigaki is the openminded and respectful attitude you show to the interviewee.

"Kikigeki" writing doesn't require literary talent, it is much better to be curious about your introviouse, to have the courage to day about the things you don't know about, to have an attitude that communicates woncer and excitement about what you hear, and to convey that you respect and care about the feelings of the interviewee.



Note the way the era the person has lived through is reflected in his/her way of speaking.



Listening & Understanding

# **Communication** & Appreciation

Kilkigaki is a joint product of the interviewer and the interviewe.

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Community-based research can inculcate values, foster skills and capacities of students





#### Merits of Community-based learning through Kikigaki

I realised that technology is not just the skills that are handed down; it is the accumulation of the devotion and wisdom of our ancestors.

(2nd year high school student, male)

I realised that forests are like the foundations of our lives.

They are not separate from us, but naturally tied to our daily lives.

I became much more aware of forests.

(2nd year high school student, female)

- Raise awareness of the value and importance of local traditions and culture
- Nurture love for Nature
- Strengthen bonds of urban youths with rural communities

Educate openminded future leaders







A whole-of-society effort to make dynamic changes, breaking away from status-quo and business-as-usual ways





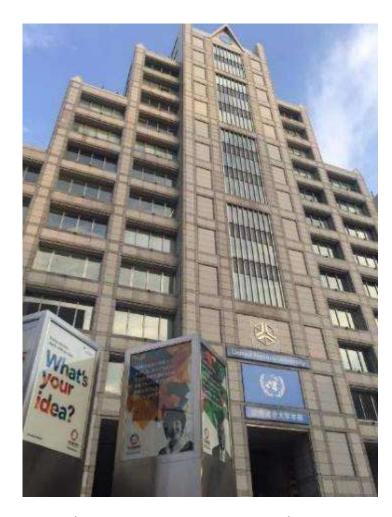
- Satoyama Sympoiesis
- Collective creation of the knowledge about multiple values of nature
- Promoting community-based, life-long learning on biodiversity conservation
- Moving learning spaces out of the classrooms (no textbooks!)
- Life-time challenge:

What are the "sustainable futures" we want?

How we can bring about transformative change to achieve them collectively?







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### THANK YOU



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https://satoyama-initiative.org/