Challenges to go beyond 'good practices': A case of RISTEX

Session 2

OECD/CSTP Workshop

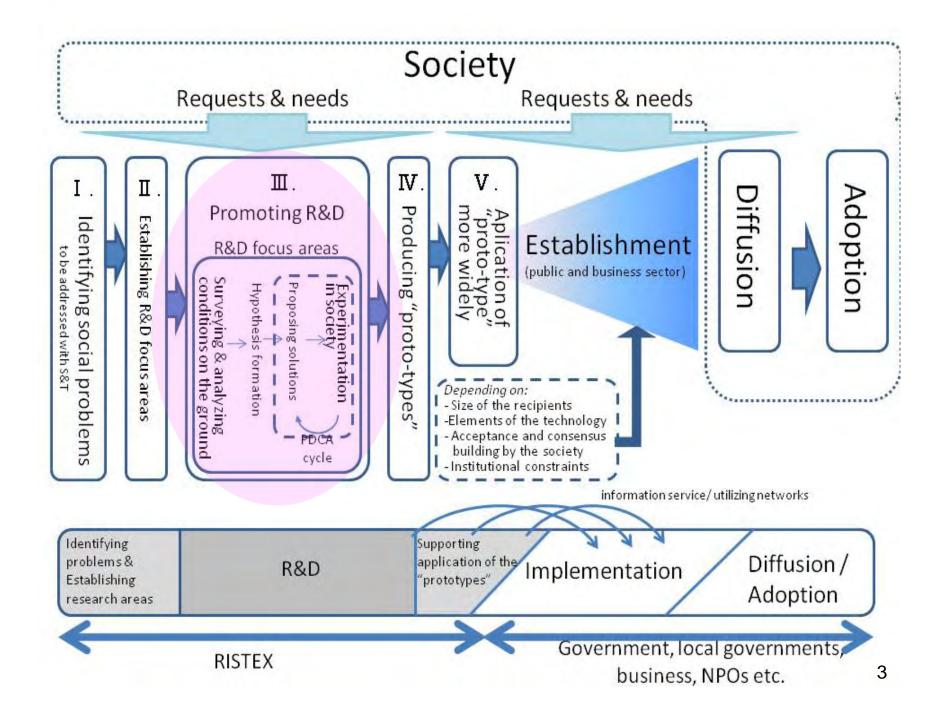
9-10 November, Paris

Sawako SHIGETO

Research Institute of Science & Technology for Society

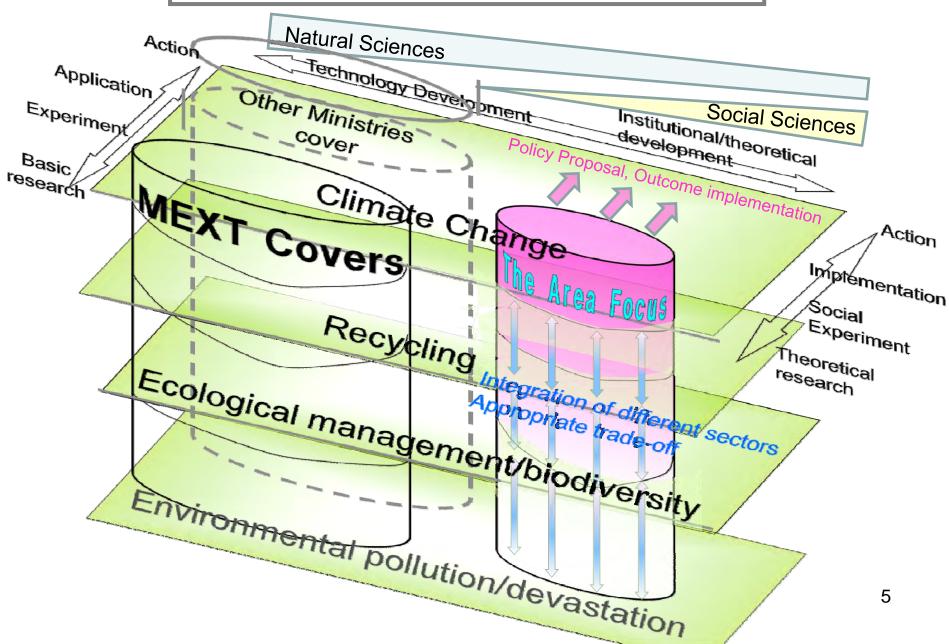
Japan Science and Technology Agency

Position of the R&D Area in the RISTEX's Activity Cycle



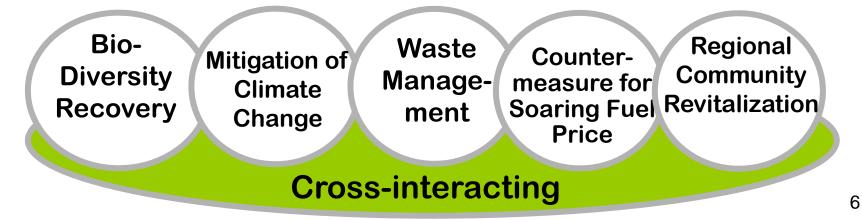
About R&D Focus Area of "Community Based Actions against Global Warming and **Environmental Degradation**" (FY2008-2013) P.O.: Prof. Masayuki HORIO

Field that the Area focus



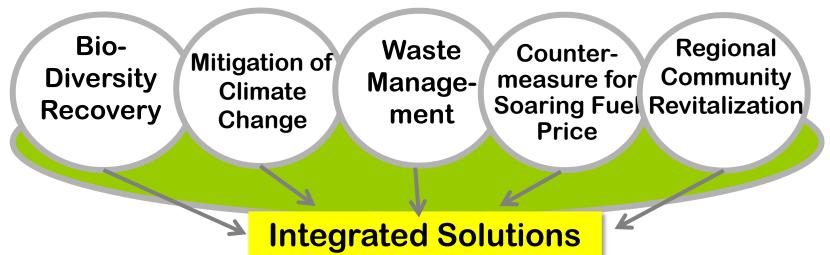
Problems to be solved

- Climate change and environmental degradation
- Decline of local community, especially in rural areas
- Immoderate modernization based on fertile fossil energy supply
- Incompetence of sciences, technologies and social systems for overcoming problems above due to the severance among them



Integrated actions w/ appropriate technologies

- Since problems have arisen from the same root, i.e., the extremely rapid development during the last 50 yrs, an integrated approach to solve the issues simultaneously should be intended.
- Appropriate technologies together with advanced ones are appointed to search for sure solutions.

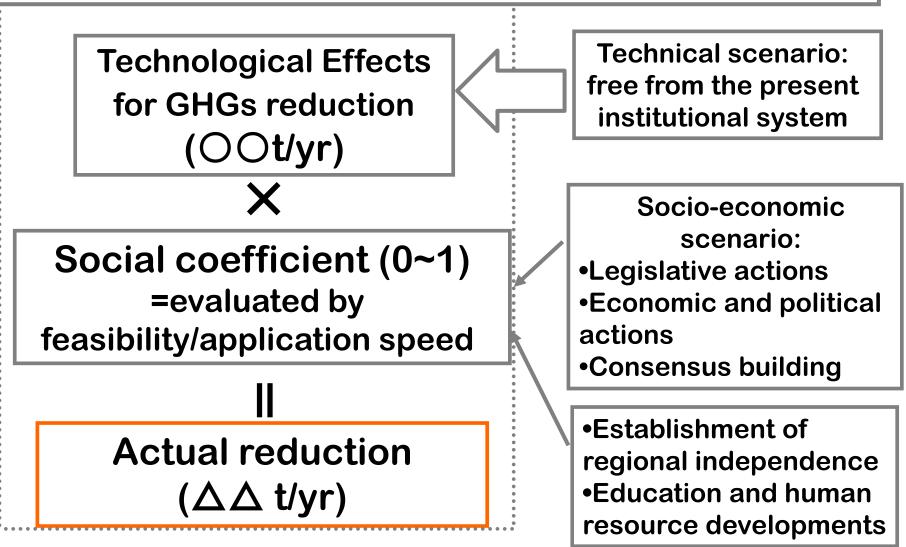


Guideline for R&D proposal

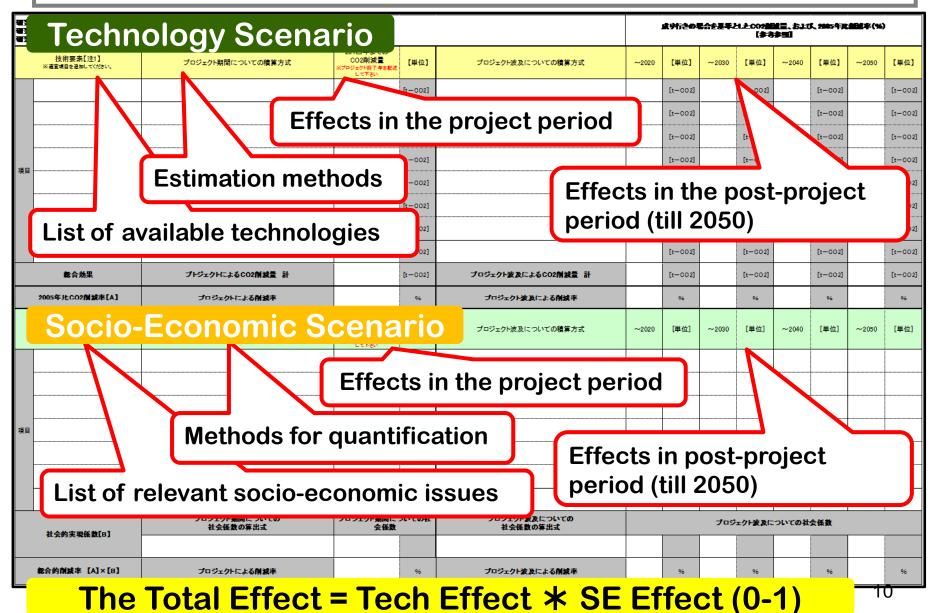
R&D Proposal is requested to be novel

- (1) in their approach for tackling climate change and environmental degradation issues;
- (2) in their approach for tackling problems at the regional level with people;
- (3) in quantifying the effect;
- (4) in developing regional independence with effective collaboration with a variety of stakeholders and local actors;
- (5) in collaboration of researchers from both natural and social sciences sharing a unified goal and methodology and practices in the field.

How quantify and structure the project effects?

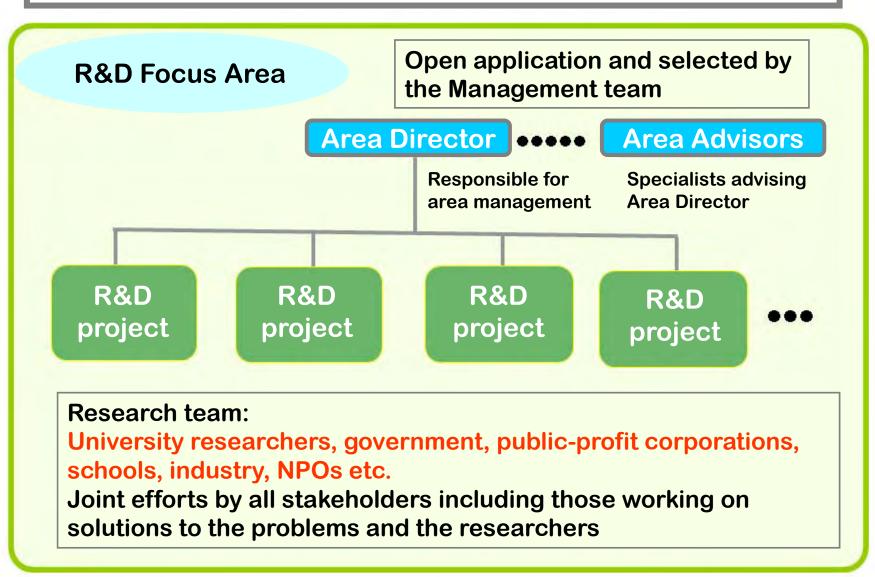


Roadmap sheet to be filled

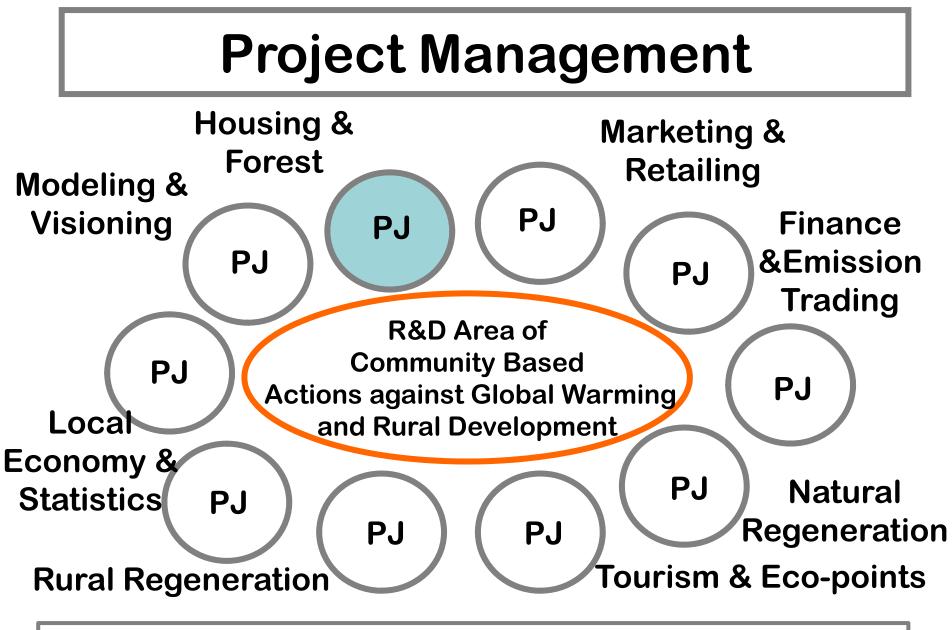


Project Management Strategy

Area Management



The RISTEX's basic area management framework

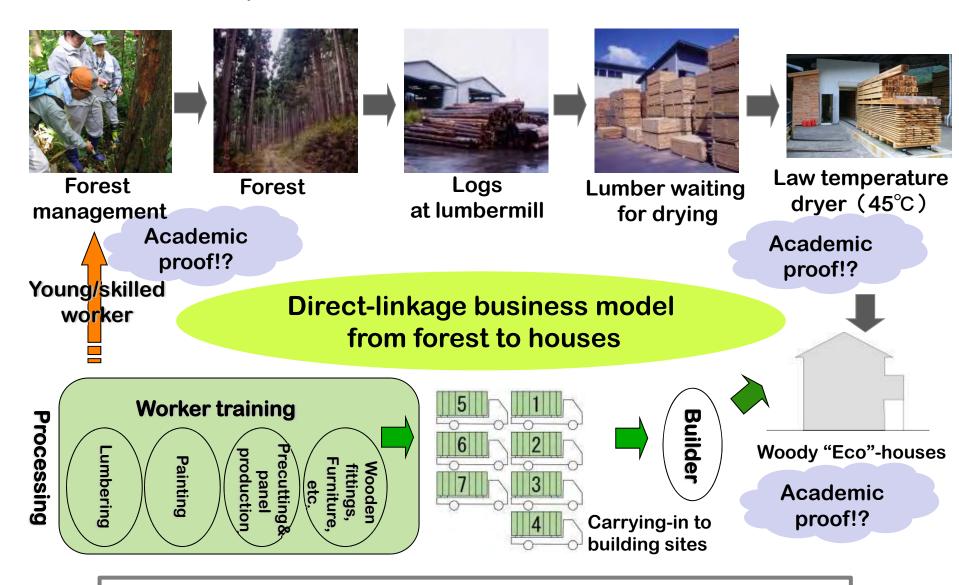


Each project challenges an integrated social solution.

Project Example:

"From Forest to Houses Co-realization of Carbon Abatement and Comfortable Life to 2050" (FY 2009-2013)

Social entrepreneur: "Tennen Jutaku" (Natural Houses)



Empirically good, but no academic proof



Roundtable

Outreach

Mini Roundtable-3

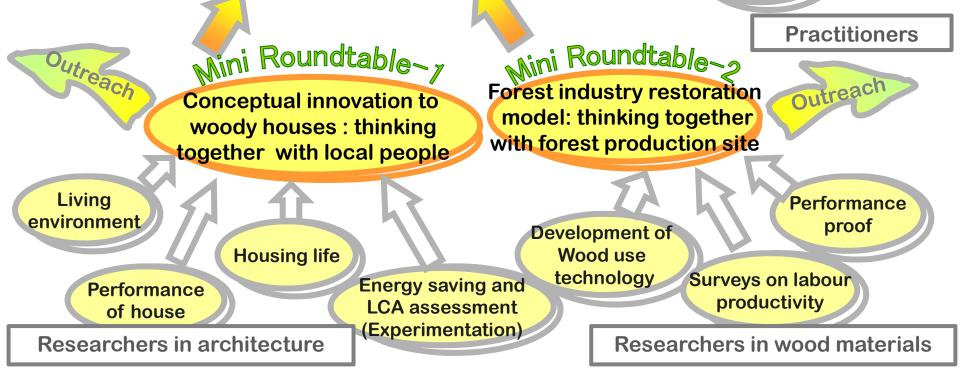
System proposal for woody house dissemination/ Creation of market

Dissemination of woody houses and forest revitalization/ Development of its collaboration business model, and social experiment

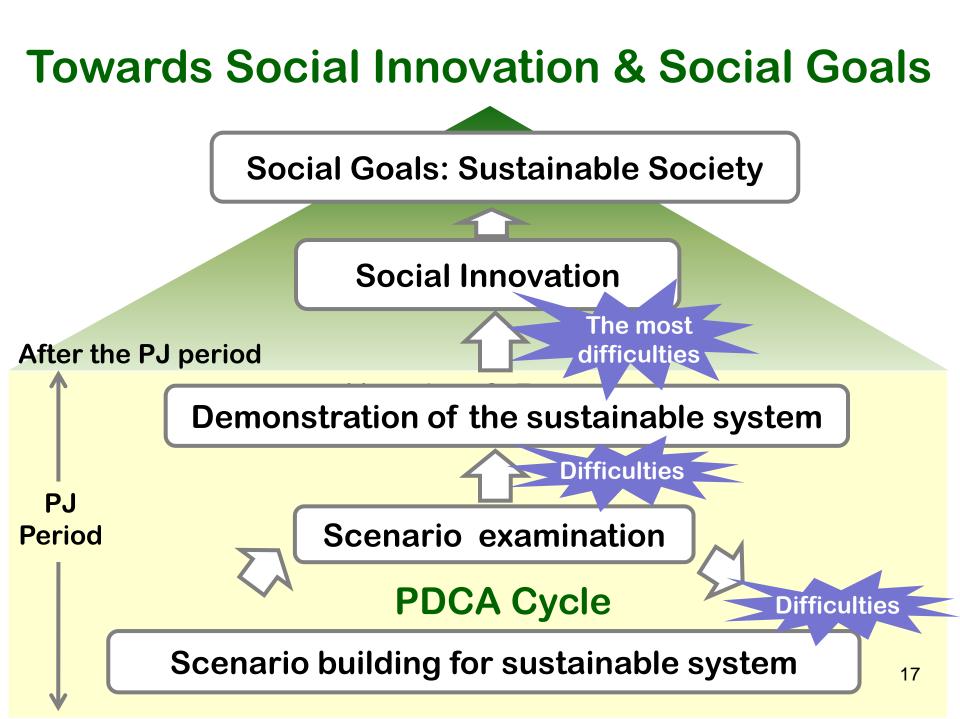
Outreach

Creation of certification

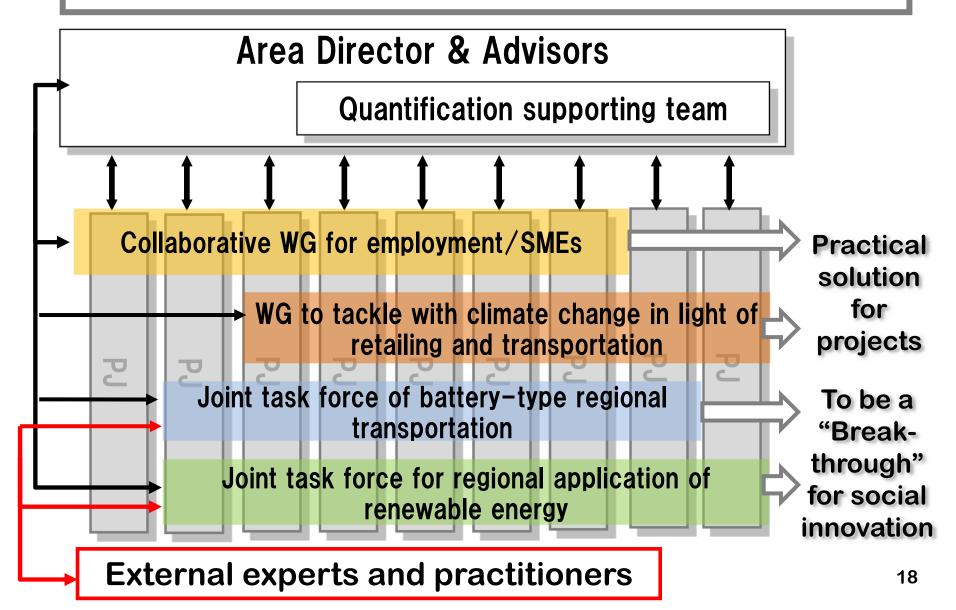
Finance model market



Outreach



To overcome the difficulties



Current strategies of TFs

Task force for regional utilization of renewable energy

Target Dissemination: Micro hydro power and other distributed power Potential: High Situation: Very limited use Why: Legislative restrictions, Cost, Conflict of interests, etc.

Breakthrough? ⇒ Publication of a 'Practical' manual for people



Current strategies of TFs

Task force of battery-based regional transportation

Target Dissemination: Electric community bus / battery assisted train Potential: High Situation: Not at the practical level Why: Belief for high-tech vehicles, Legislative restrictions, Cost, Battery and charging, etc.

Breakthrough? ⇒Development of a niche vehicle and service system package for local / rural communities



To conclude

- The R&D Area of "Community Based Actions against Global Warming and Environmental Degradation" focuses technologies that have potential to lead social innovation to have the significant impacts to achieve 80% CO₂ reduction till 2050.
- For that purpose, bridging to the social problem solution is needed with collaboration works among a variety of stakeholders and researchers both in natural science and social sciences.
- The RISTEX defines the basic Area management framework, and how to operate is the Area Director's responsibility.
- Therefore, the case presented is one of experiments of RISTEX to lead social innovation.

To go beyond....

We have to find a "breakthrough". Otherwise we repeat "good practices" forever, and cannot step forward to social innovation and social goals.

In this context, what we expect to social innovators and social entrepreneurs ?

Thank you