

# Impact of changes in socio-economic activity and consumption behavior on realization of decarbonized society in Japan

model/tool

results

Decarbonized society sustainable society

Innovative environmental innovation strategy

Regional circular and ecological sphere

【Proposals to solve problems】  
Society 5.0

## Sub-theme 1:

Analyses to achieve both decarbonized society and solution of social issues (NIES, NTT, CESS)

### (1-2) ICT scenario development

- Development of future ICT service scenario
- Assessment of ICT service based on macro-frame

Diffusion of ICT service

ICT service affecting lifestyle

### (1-1) Consumption behavior analysis

- Assessment of behavioral and social changes to solve various social issues including aging and depopulation

Model to assess household energy service demand

Model to assess consumption behavior

Household energy service demand

Expected lifestyle and consumption pattern from local viewpoint

Consumption pattern change in whole Japan

### (1-3) Local analysis in Saitama Prefecture

- Analysis of decarbonized local society solving social individual issues

Local scenario consistent with national scenario

Snapshot tool

Downscale tool

## Sub-theme 2:

Quantitative assessment of decarbonized society scenario in Japan (MHIR, KU)

### (2-1) Enduse model for Japan

- Assessment of renewable energy (RE) supply potential considering its supply-demand (sup-dem) structure
- Technology diffusion in decarbonized society and energy demand

RE potential assessment model

RE sup-dem assessment model

Energy demand model

Household energy sup-dem assess model

RE supply

Technology

Household energy demand

### (2-2) Quantification of roadmap decarbonized society in Japan

- Decarbonized society solving social issues

CGE model

Macro analysis

Population decrease

Aging society

Disparity

Excessive concentration & depopulation

【Issues to be solved in Japan】