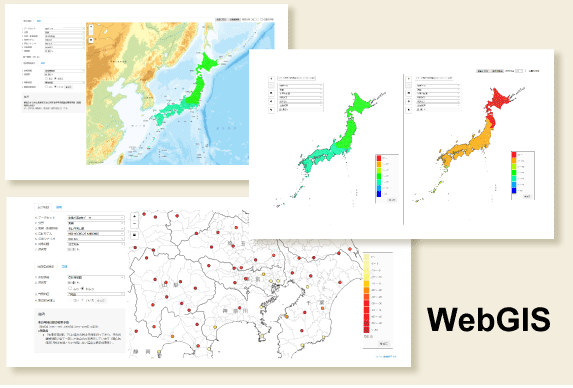


CCCA's efforts to promote regional climate change adaptation actions

Yoshifumi Masago

Center for Climate Change Adaptation

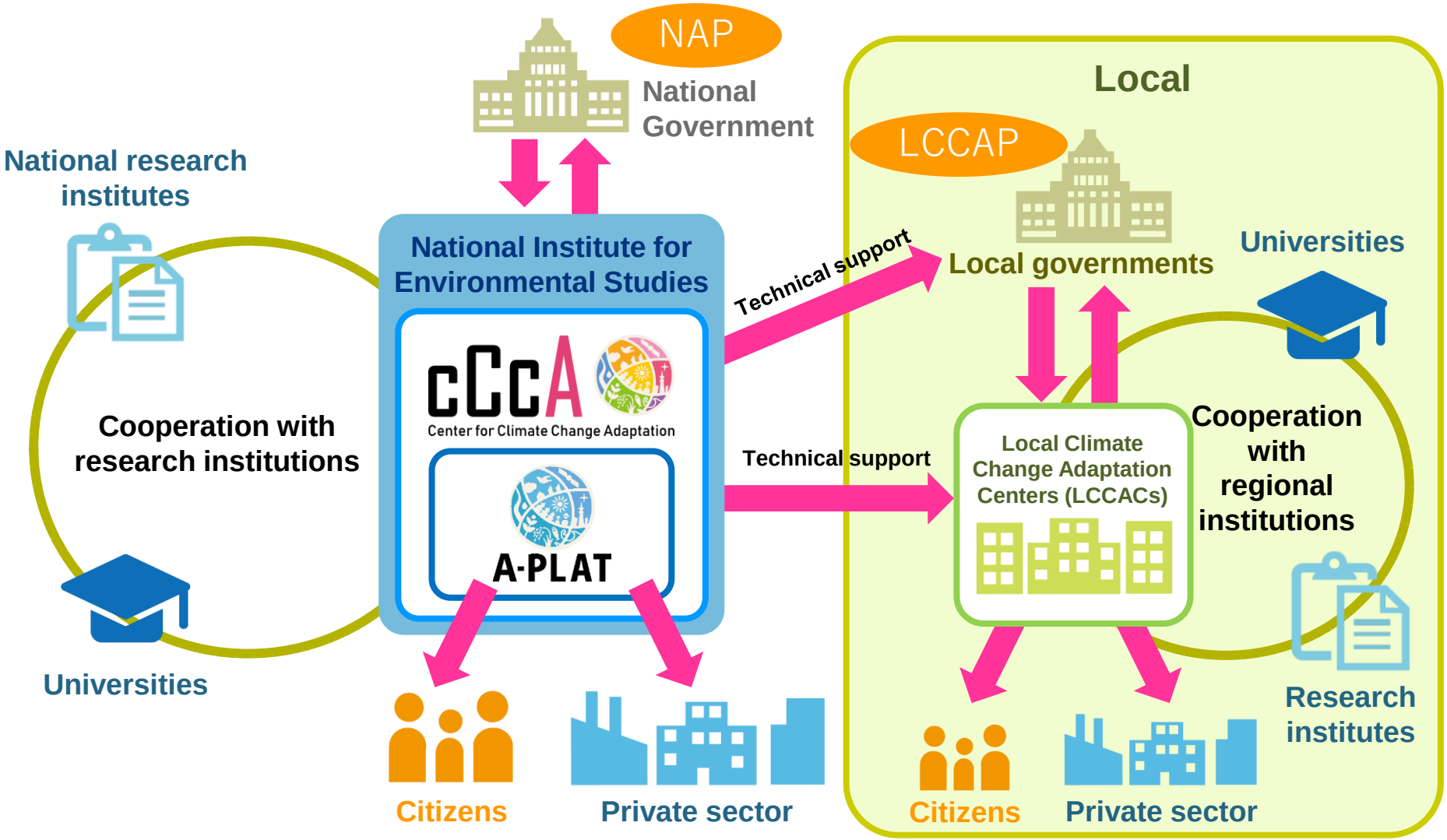
National Institute for Environmental Studies

Roles of NIES under the Climate Change Adaptation Act

Article 11: Development of domestic adaptation information infrastructure

- Appoint NIES as the core of information infrastructure for adaptation
- NIES shall:
  - collect, organize, analyze and provide information related to climate change impacts and adaptation; and
  - provide technical advice and support to local governments, local climate change adaptation centers (LCCACs) and other institutions
- NIES will:
  - cooperate with other research institutions; and
  - foster public participation in collecting information about climate change impacts

Japan's national and regional adaptation framework



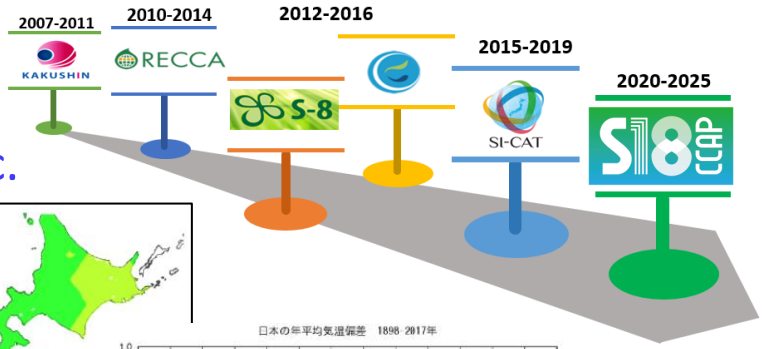
Center for Climate Change Adaptation:
Bridge between National and Local Adaptation Policies

National level

- Lead research projects with relevant institutions
- Collect and provide data and information
- Contribute to National Impact Assessment & NAP

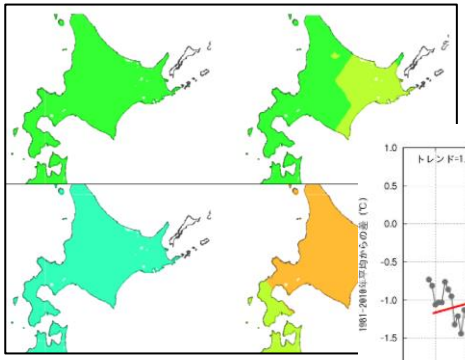
cCcA
Center for Climate Change Adaptation

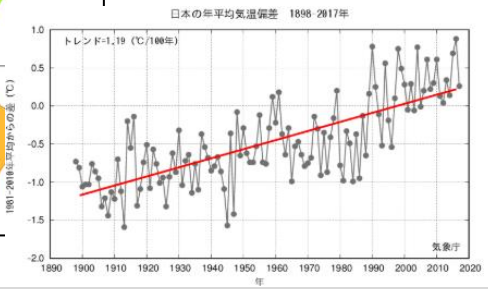
Exchange
- data
- information
- knowledge
- experience etc.



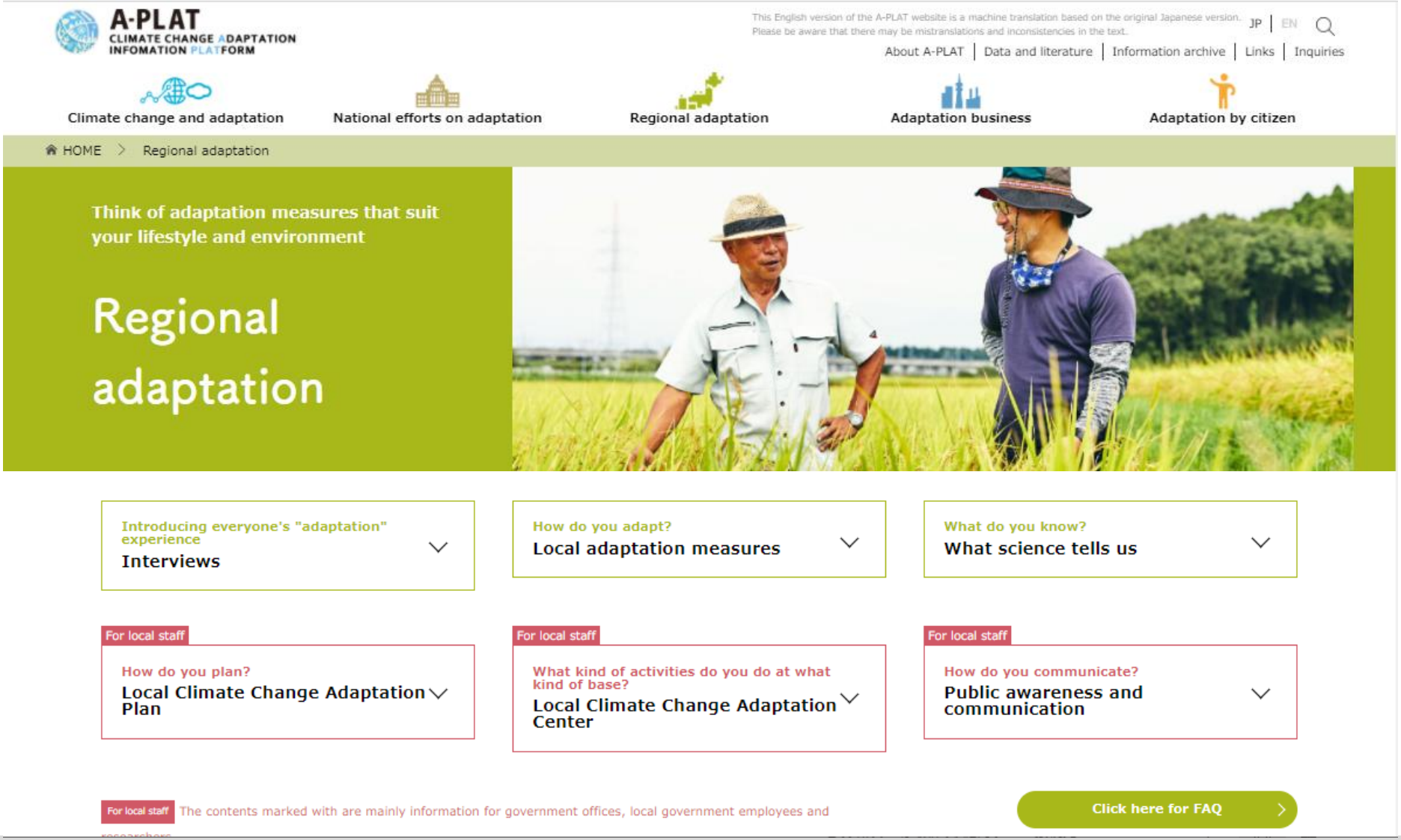
Local level

- Provide information via A-PLAT
- Support in developing LCCAPs
- Collaborate with LCCACs





CCCA's activities for local adaptation actions
A-PLAT: Regional adaptation



CCCA's activities for local adaptation actions

- Training courses for local stakeholders
  - How to develop local adaptation plans
  - Basic knowledge on climate change, impacts and adaptation

- Individual communication and support
  - Tailoring data and information for regional adaptation
  - Serve as a committee member
  - Giving lectures for regional committee
  - Introduce scientists in NIES and other institutions

Collaborative research program with LCCACs

- An internal research program on climate change adaptation to enhance collaboration with LCCACs
  - Information design on regional climate change adaptation through co-creation with LCCACs
  - Establishment of a monitoring system for detecting the effects of climate change
  - Monitoring and estimation of the climatic change effects on Japanese natural lakes
  - Study on human health impacts by climate change
  - Climate-change adaptation using green-grey hybrid infrastructure
  - Study on climate effect on airborne particulate matter over the Oki Islands

A-PLAT Lab

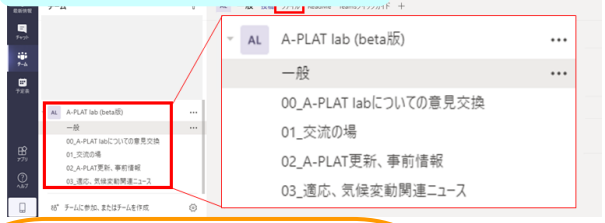
- A closed online platform for sharing information and knowledge to promote local adaptation
  - Activities of LCCACs
  - LCCAC newsletter
  - Meeting materials and minutes
  - Internal information of LCCACs (structure, budget, etc.)

Web portal

Latest news

General news on adaptation
A-PLAT and Teams updates

Microsoft Teams



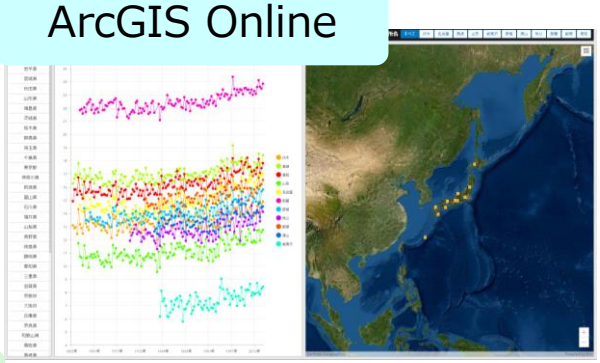
Communication

Forum, Web meeting

Data sharing

Sharing documents and data
Questionnaire survey

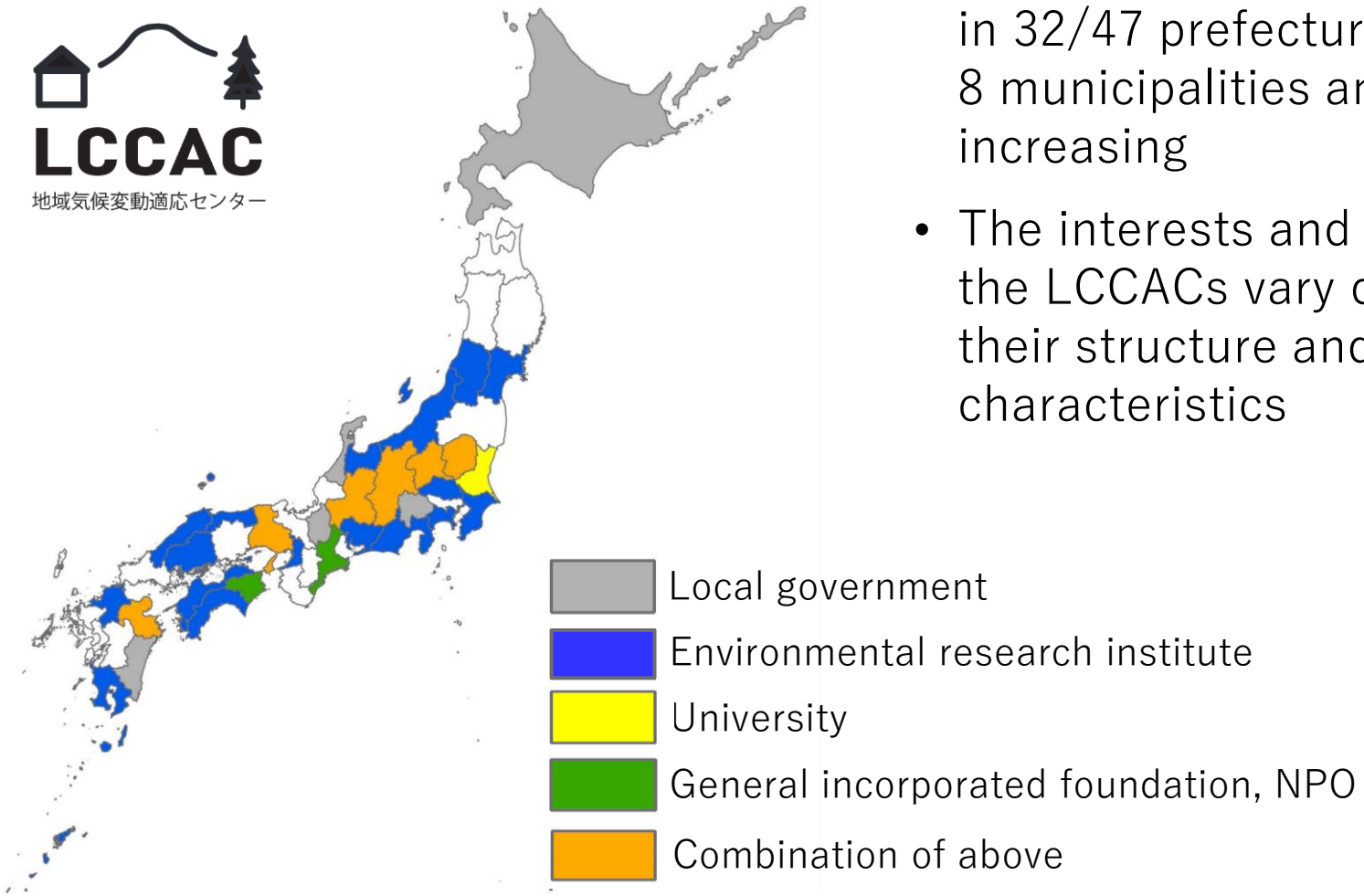
ArcGIS Online



GIS data

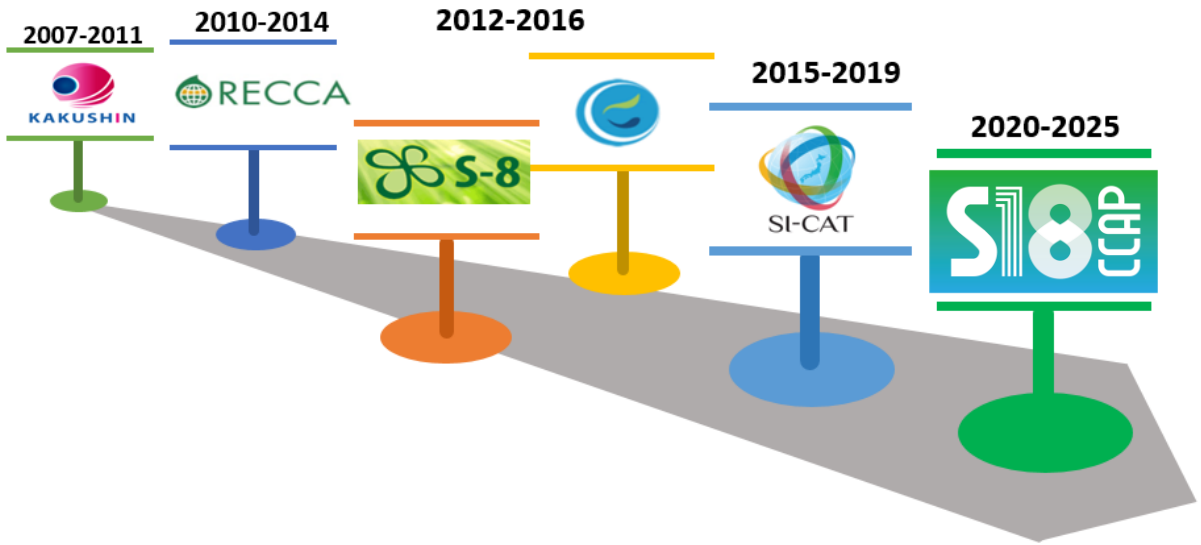
Source GIS data of the WebGIS, etc.

Challenges:
Different background, different capacity, different needs



- LCCACs have been established in 32/47 prefectures and 8 municipalities and are increasing
- The interests and capacity of the LCCACs vary depending on their structure and regional characteristics

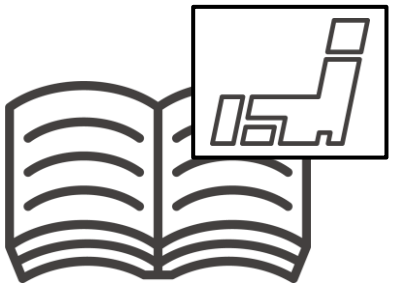
Challenges: Maintaining scientific knowledge up-to-date

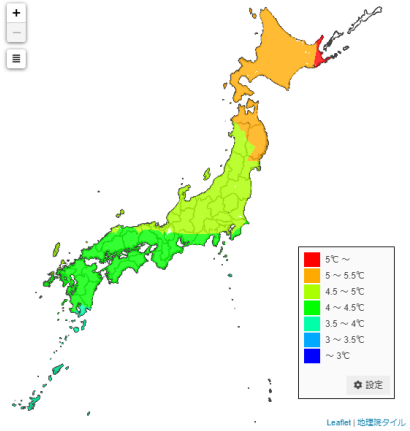


- Scientific knowledge on climate change impacts is being accumulated, and it is getting difficult to provide the data appropriately.
  - Multiple downscaled climate scenarios from different institutions
  - Multiple projection datasets on the same impact using different assumptions (e.g., climate scenarios) and models
  - Some models are well-established, some are brand-new

Challenges: Improving CCCA's capacity and service

- Enhance communication and collaboration with an ever-increasing number of diverse local stakeholders, with limited resources
- Catch up with the latest IT/Web technology
- Develop networks with relevant platforms under different ministries
  - Data sharing, open data policy, API…





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