



# Discussion on research collaboration among Asian countries: **Impact and adaptation research**

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## **Regional CC Impact & Adaptation research in AIM**

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- 1. Climate change adaptation research program in NIES**
  - ✓ 2018.8-2021.3
  - ✓ NIES's internal research program
  
- 2. Comprehensive research on the projection of climate change impacts and the evaluation of adaptation**
  - ✓ 2020.4-2025.3 (five year project)
  - ✓ S-18, Environment Research and Technology Development Fund
  
- 3. Climate Change Adaptation Information Platform Meeting**
  - ✓ 2018.12-
  - ✓ Networking among adaptation platform experts around the world

# Research programs on climate change adaptation

## Research program on climate change adaptation in NIES (2018.8-2021.3)

### PJ1

Research on the observation, monitoring and detection of climate change and its impacts

Collection and development of medium and long-term observational data on natural ecosystems and air pollution

Research into clarifying mechanisms behind the impacts of global warming

Development/implementation of monitoring methods

### PJ2

Research into enhancing methods for predicting the impacts of climate change

Development of climate scenarios

Assessment of the impacts of climate change in various fields (water resources, crop productivity, terrestrial ecosystems, human health, etc.) at various levels (from the global level to municipalities)

### PJ3

Research into adaptation strategies in consideration of social changes

Development of information platforms to support the further understanding of the social impacts of climate change and the evaluation of adaptation measures

Research into the concept and implementation of adaptation measures and development/application of evaluation methods

Construction of socio-economic scenarios

Concerned organizations in and outside Japan

Related projects in and outside Japan

## Promotion of climate change adaptation measures (Promotion Office.)

✓ Scientific contribution to reports on the assessment of the impacts of climate change by the IPCC and national government

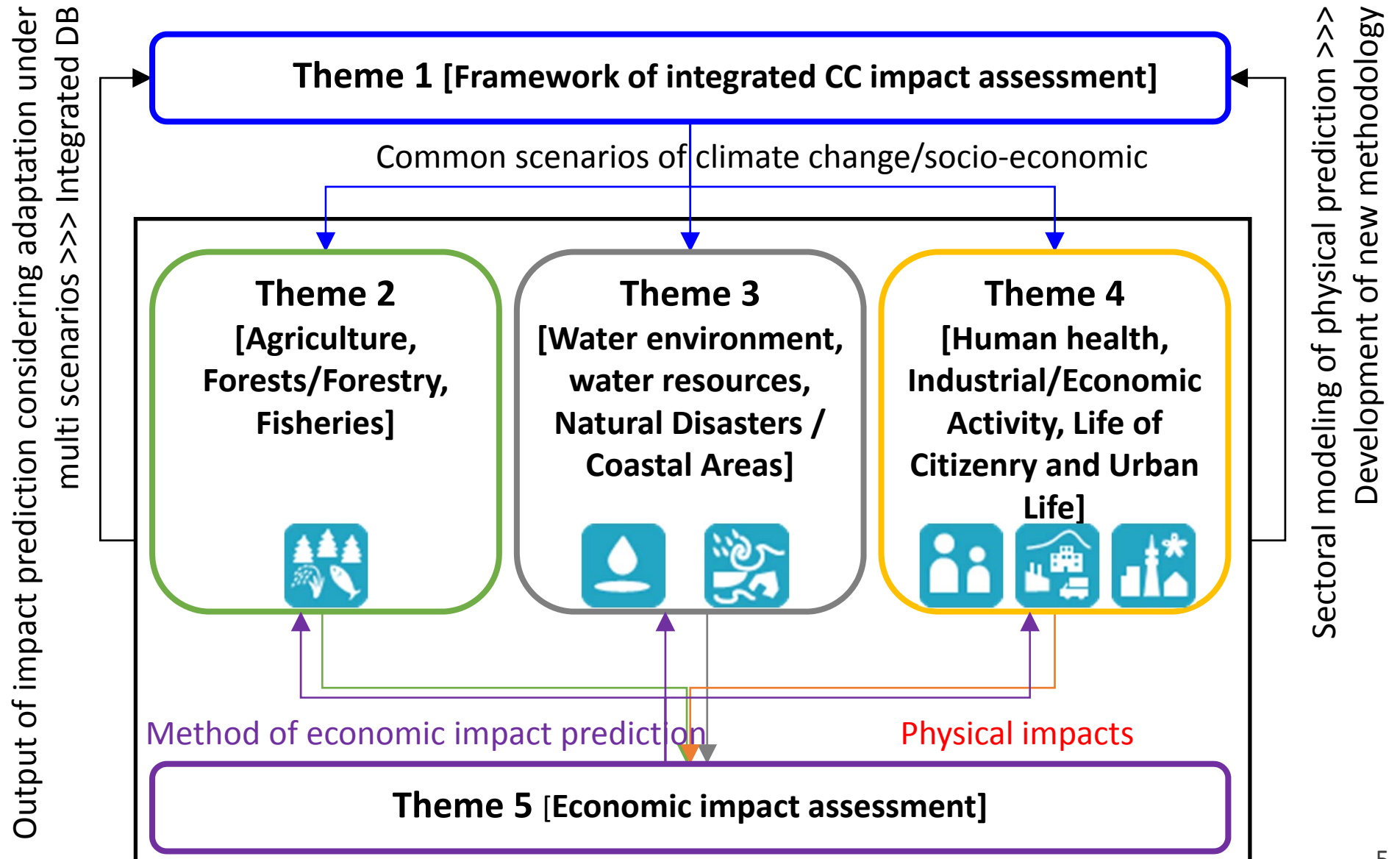
✓ Provision of technical advice to local governments and Regional Centers for Climate Change Adaptation (RCCAs)

✓ Broad provision of scientific findings to the general public and developing countries via A-PLAT and AP-PLAT

## Research programs on climate change adaptation

| [PJ3]<br>Research into<br>adaptation strategies in<br>consideration of social<br>changes                                  | [PJ2]<br>Research into<br>enhancing methods for<br>predicting CC impacts | [PJ1]<br>Research on<br>observation,<br>monitoring & detection<br>of CC and its impacts |
|---|--|---|
| 3-1a: Integrated DB incl. adaptation pathways   | 2-1: Climate Scenario DB   | 1-1: Observation & monitoring DB  |
| 3-1b: Socio-economic scenario DB  |  |   |
| 3-2: Global CC risk   | 2-2: Global CC impact modeling   |   |
| 3-3: Asia-Pacific adaptation strategies   | 2-3: Asia-Pacific CC impact modeling                                     | 1-3: Asia-Pacific OMD   |
| (air pollutant, mangrove, etc.)   |  |   |
| 3-4: Assessment of adaptation practices and options in Japan  | 2-4: Physical and economic modeling of CC impact in Japan                | 1-4: OMD in Japan   |
| (air pollutant, forest ecosystem, inland water, coral reef, marine forest, ocean environment, energy, human health, etc.) |  |   |
| 3-5: Regional assessment of adaptation practices and options  | 2-5: Regional CC impact prediction                                       | 1-5: Regional OMD   |
| 3-6: Investigation of adaptation planning   | 2-6: Collaboration with LCCAC (impact modeling)                          | 1-6: Collaboration with LCCAC (OMD)   |

# Outline of S-18



# Climate Change Adaptation Information Platform Meeting

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## ● Background

- ✓ There are growing needs of adaptation information platforms and many countries have launched its own national platform.
- ✓ However, few opportunities for the experts to meet and share the knowledge and experience, particularly in Asia.
- ✓ NIES has been developing Asia-Pacific climate change adaptation information platform, named AP-PLAT officially launched on June 2019.

## ● Purpose

- ✓ Share experiences and lessons learnt with the goal of informing the development of adaptation actions in Asia through AP-PLAT/A-PLAT
- ✓ Explore the potential to establish a knowledge exchange network among adaptation platform experts around the world.



# Climate Change Adaptation Information Platform

|                 | Platform             |
|-----------------|----------------------|
| Australia       | Kalara McGregor      |
| Denmark(EEA)    | José Ramón Picatoste |
| Germany         | Kirsten Sander       |
| Ireland         | Jeremy Gault         |
|                 | Barry O'Dwyer        |
| South Korea     | Young Il Song        |
|                 | Hyemin Ha            |
| The Netherlands | Kim van Nieuwaal     |
| United Kingdom  | Roger Street         |
| UK(SEI)         | Julia Barrott        |
| Japan           | Yasuaki Hijioka      |

|                 | AP-PLAT                |
|-----------------|------------------------|
| Australia       | Geoff Gooley           |
| Indonesia       | Sudhiani Pratiwi       |
|                 | Pramudita Mahyastuti   |
|                 | Sudhiani Pratiwi       |
| Thailand        | Atsamon Limsakul       |
|                 | Apinan Pitaratae       |
|                 | Teerapong Laopongpith  |
|                 | Wutthichai Paengkaew   |
| The Philippines | Alith Jean Leyba       |
| Samoa           | Siosinamele Lui        |
|                 | Emma Chelsea Arasi-Sua |
| Japan           | Kazutaka Oka           |

