

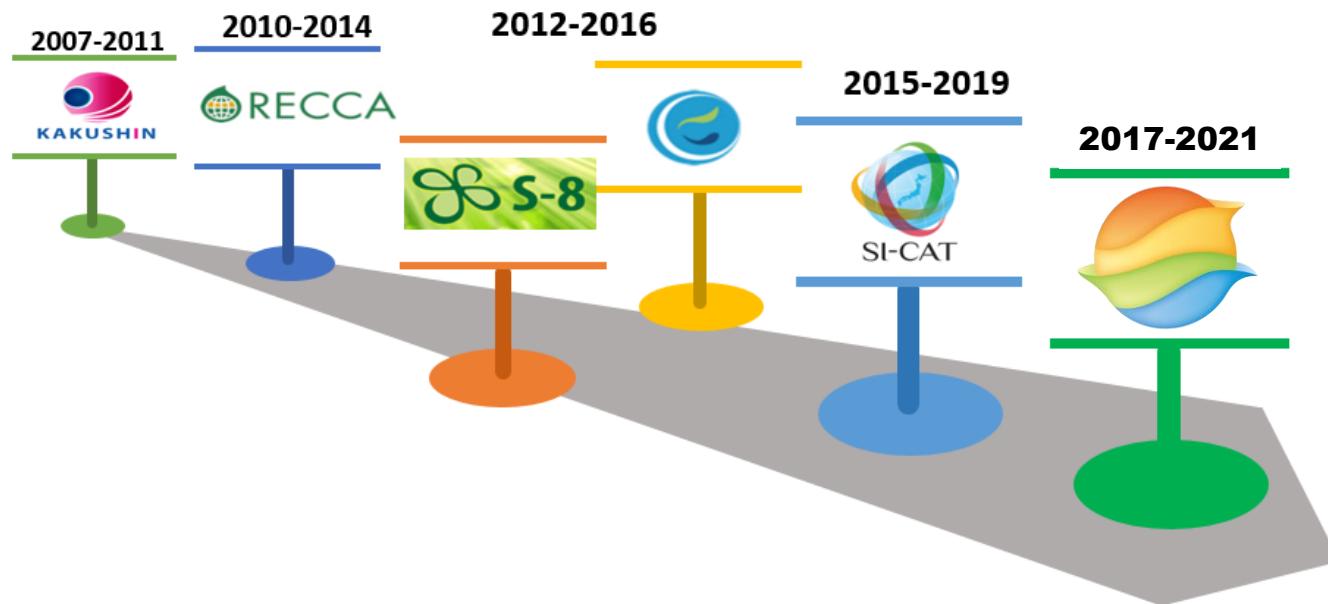
Towards comprehensive assessment of climate change impacts and adaptation in Japan

Yoshifumi Masago

Center for Climate Change Adaptation

National Institute for Environmental Studies

Japan's national research projects on adaptation

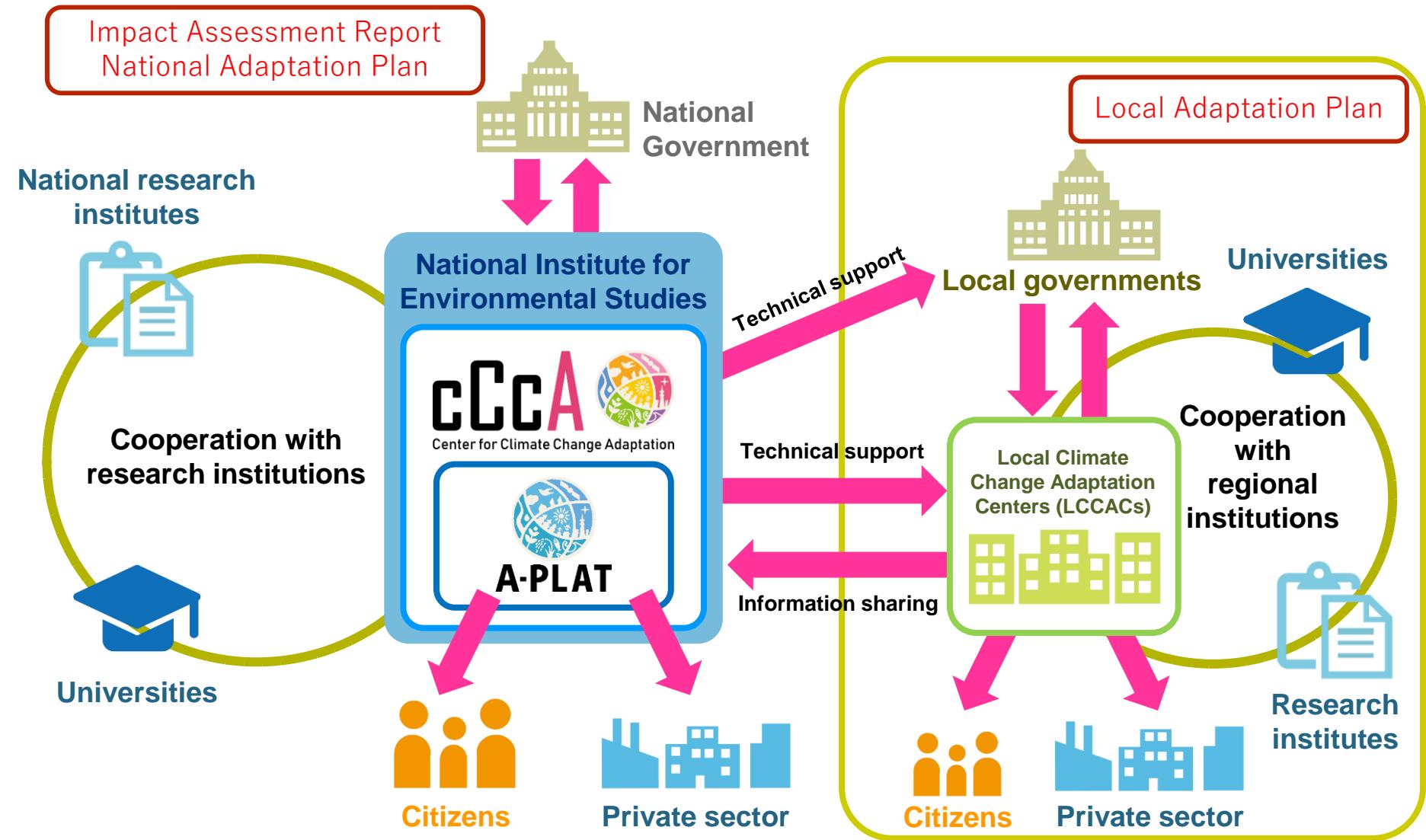


Comprehensive research on projection of climate change impacts and evaluation of adaptation (FY2020-2024)



Climate change adaptation research program (FY2021-2025)

Structures for promoting national and local adaptation under the Climate Change Adaptation Act



Climate Change Impact Assessment Report

- The latest report (2020) categorized the impacts into **71 items in 7 fields**, and evaluate each impact based on its **significance, urgency, and confidence**.
 - 33 items (46%) in all 7 fields were classified as “highly significant and highly urgent”



Agriculture, forestry,
and fisheries



Water environment
and resources



Natural ecosystems



Natural disasters



Human health



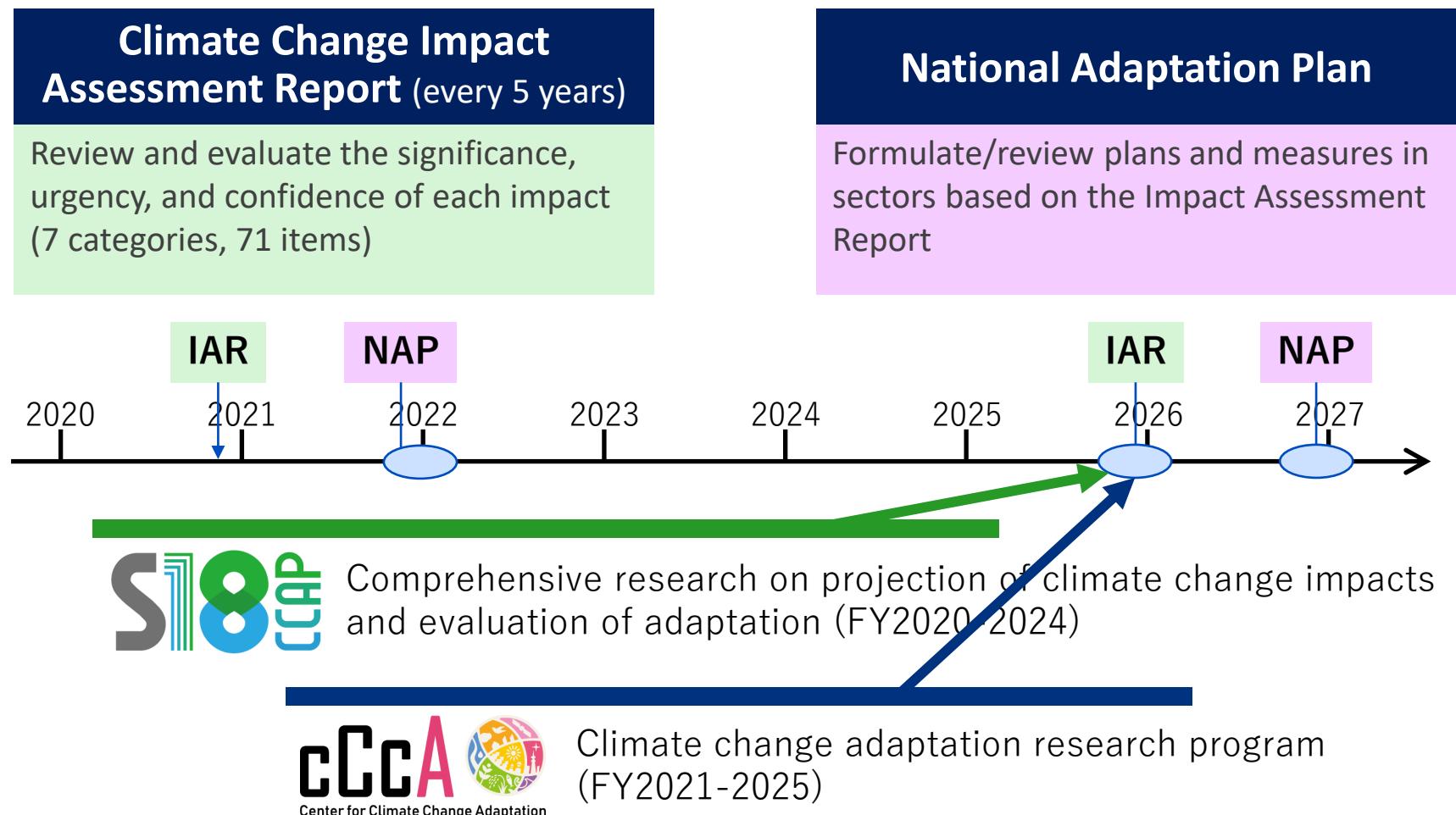
Industrial and
economic activities



Life of citizens

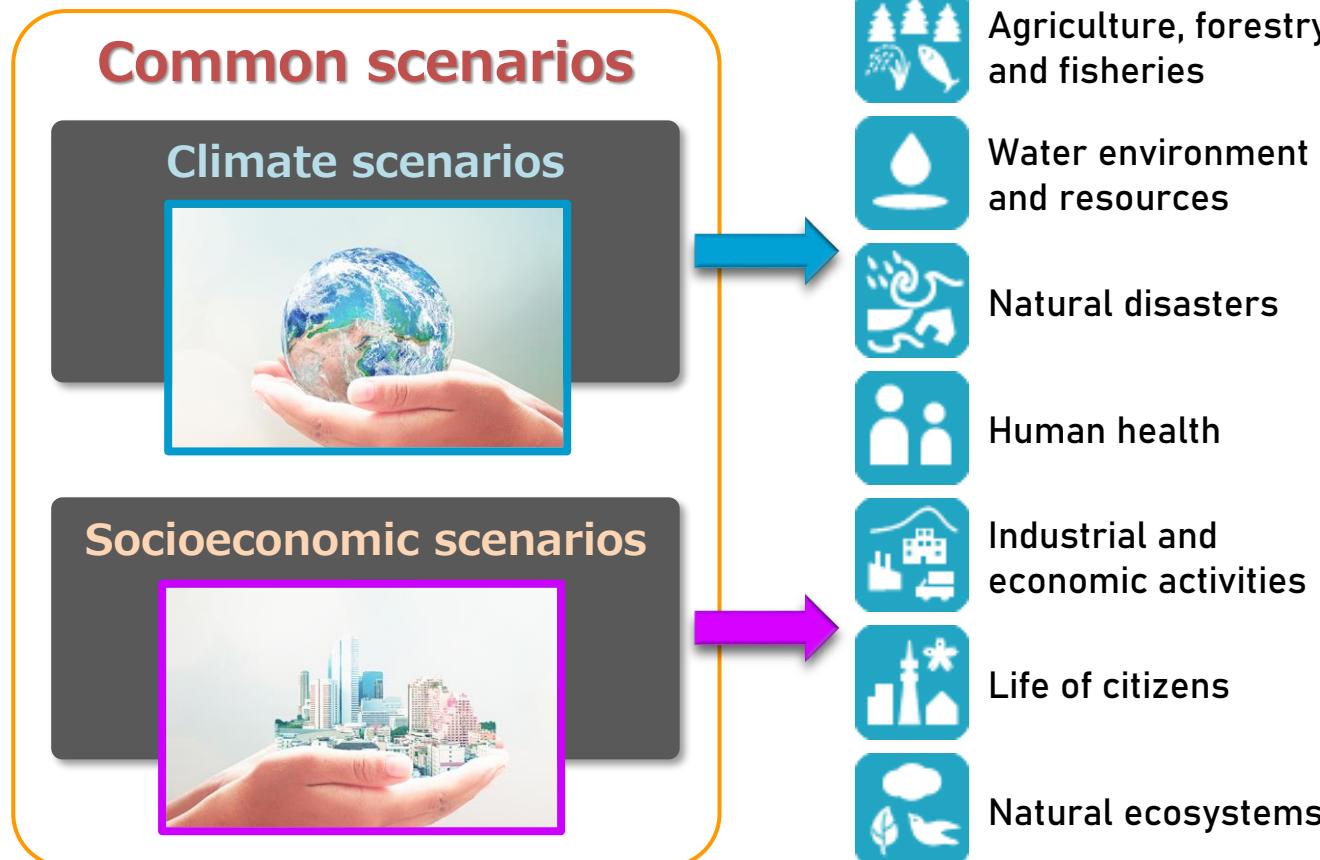
Field	Group	Item	Significance	Urgency	Confidence
Agriculture, forestry, and fisheries	Agriculture	Rice	High	High	High
		Vegetables	Moderate	High	Moderate
		Fruits	High	High	High
		Other crops	High	Moderate	Moderate
		Livestock	High	High	Moderate

Timeline of the Impact Assessment Report, National Adaptation Plan, and the two research projects

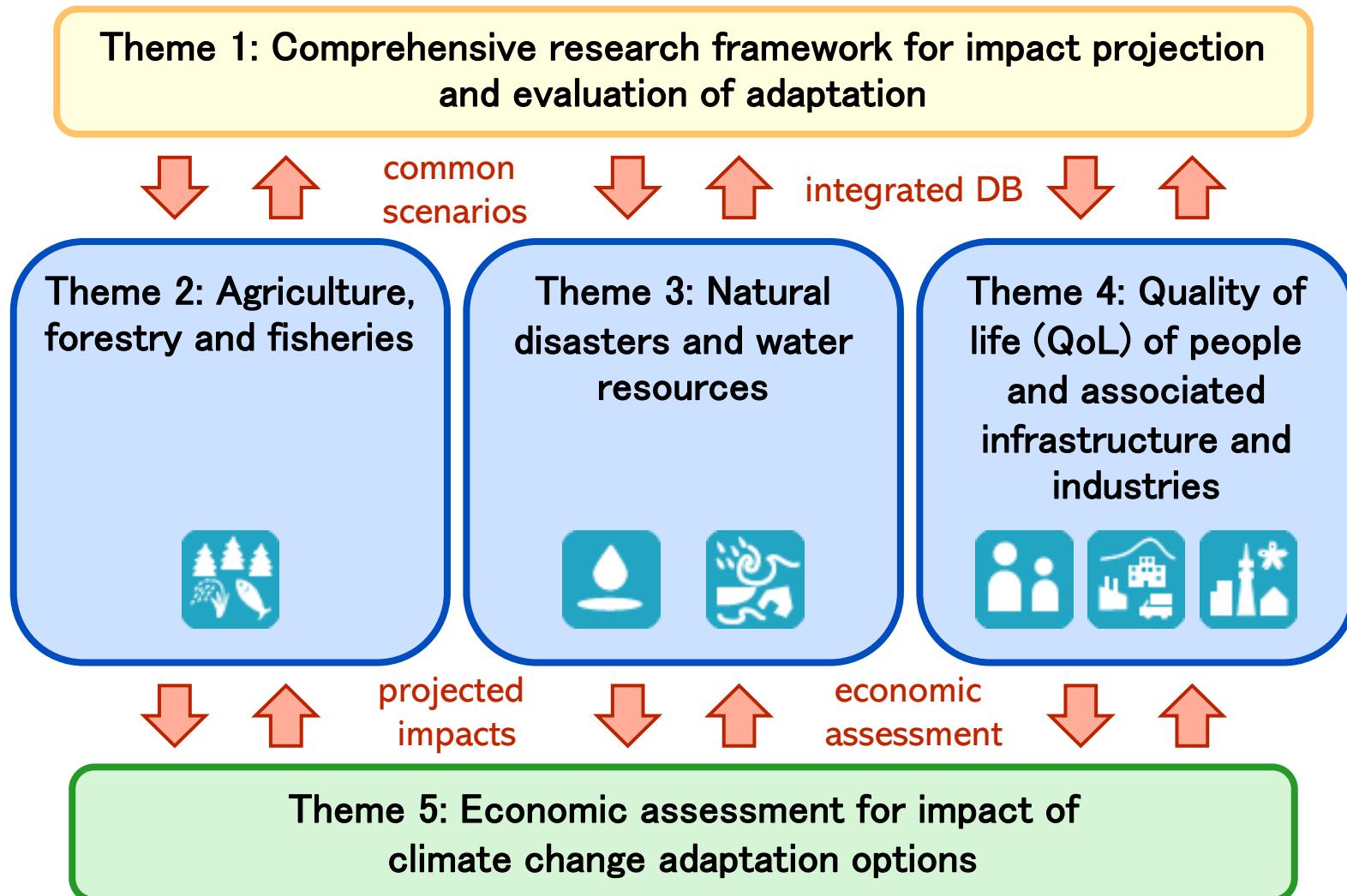


Common goal of the projects

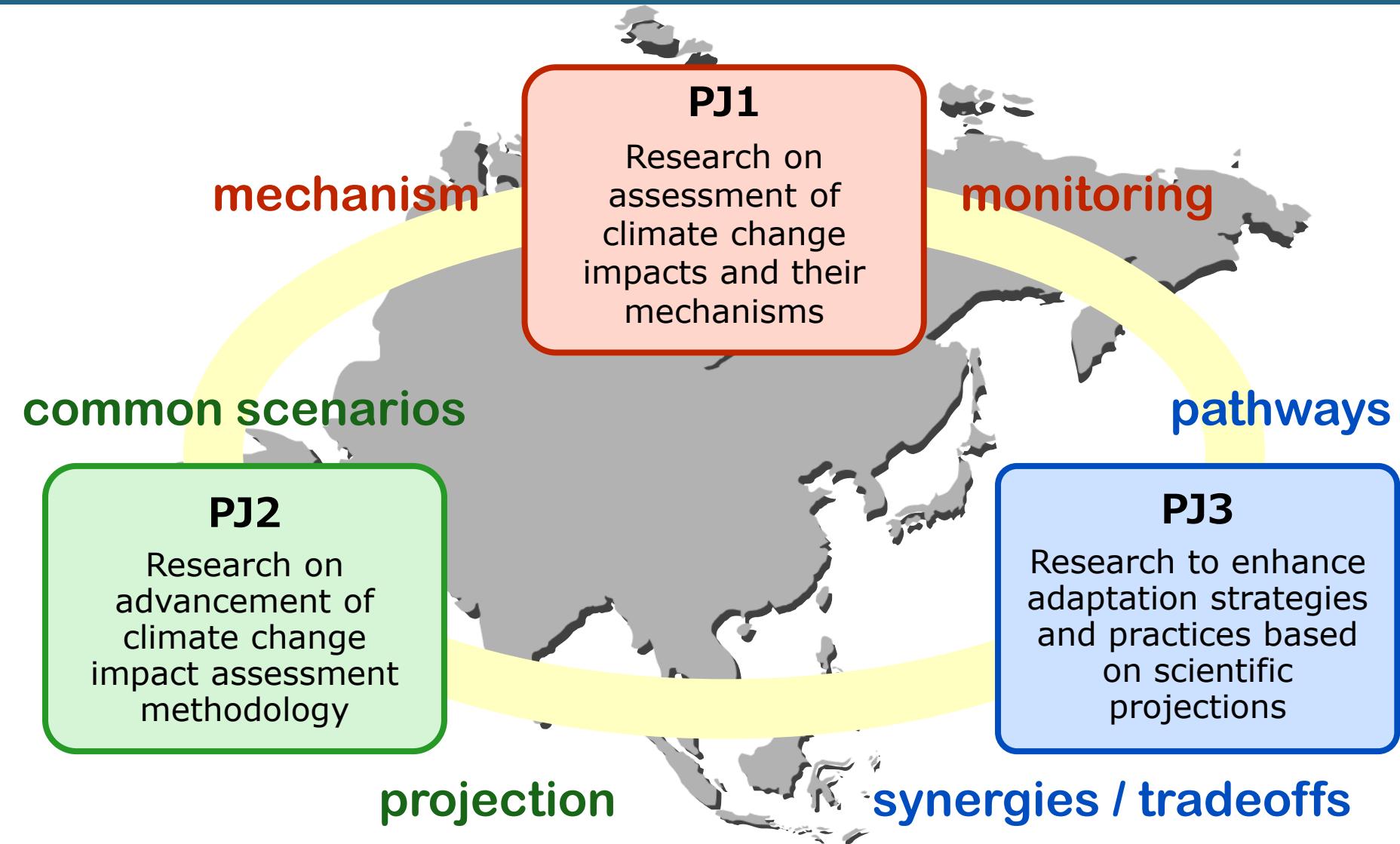
- To provide up-to-date scientific information on projection of climate change impacts and evaluation of adaptation measures to enhance adaptation in Japan.



Comprehensive research on projection of climate change impacts and evaluation of adaptation (S-18 project)



Climate change adaptation research program



Summary

- Under the Climate Change Adaptation Act, the Government is supposed to run the cycle of developing and revising the Impact Assessment Reports and Climate Change Adaptation Plan.
- In order to comprehensively assess the climate change impacts in a wide range of fields, the two research projects are collaborating to promote climate change impact projection and assessment of adaptation measures.
- It is important to use common scenarios and assumptions for comprehensive assessment, and the two projects will share the same climate and socio-economic scenarios.