



# AP-PLAT

Asia-Pacific Climate Change Adaptation Information Platform

OECC第5回橋本道夫記念シンポジウム  
～気候変動にレジリエントな開発と自然を活用した解決策～  
2023年6月21日

**増富祐司(国立環境研究所)**



National  
Institute for  
Environmental  
Studies, Japan

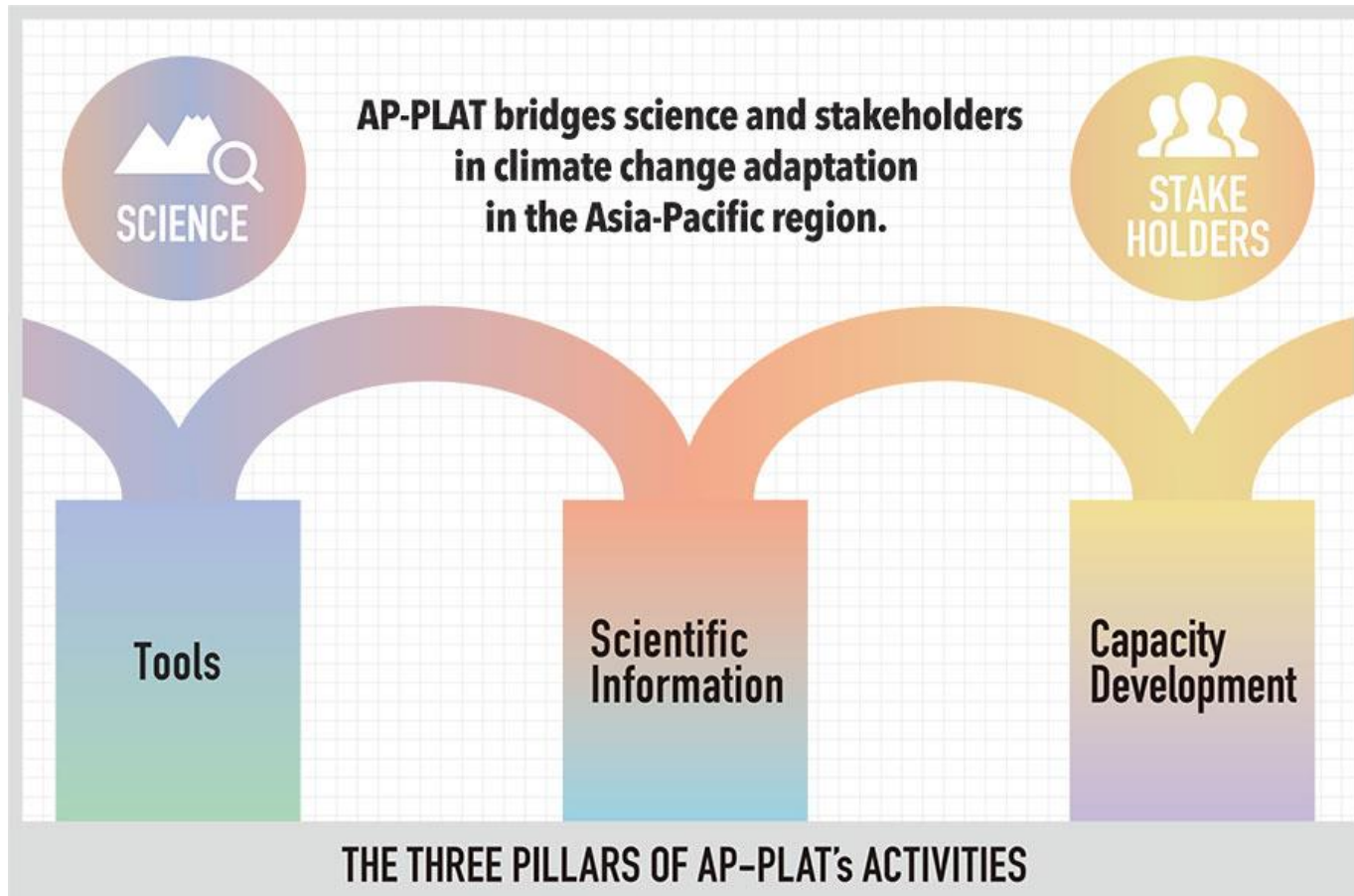


環境省  
Ministry of the Environment  
Government of Japan

**IGES**  
Institute for Global  
Environmental Strategies

# What is **AP-PLAT**?

**AP-PLAT** is a web-based information platform on climate change adaptation in Asia-Pacific region.



Promoting climate change adaptation by providing

1. Scientific information
2. Scientific tools
3. Capacity development.

**Kintai Bridge**



In Iwakuni city

# AP-PLAT website

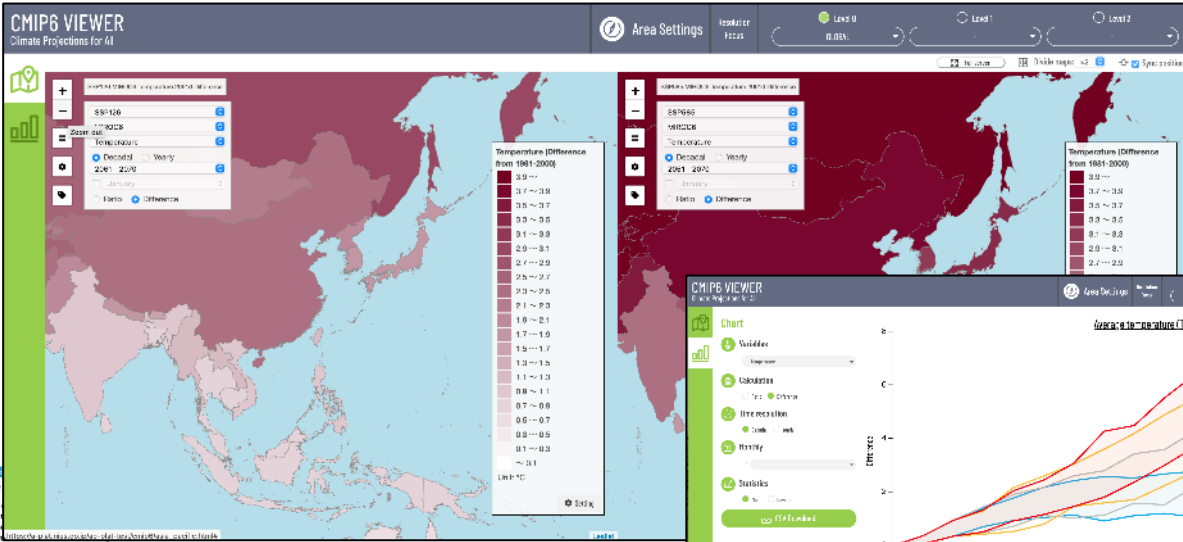
AP-PLAT supports decision-making and practical adaptation actions by providing scientific climate change risk information and tools for the Asia-Pacific.

## LATEST UPDATES

- Global News**
  - 23 Apr 2021 1 Updated: Global News on Adaptation
- Activities**
  - 23 Apr 2021 2 Video message from NIES Center for Climate Change Adaptation for "Platform for Redesign 2021"
- International Cooperation**
  - 23 Apr 2021 3 Updated: International Cooperation on climate change impact assessment and promotion of adaptation by the Ministry of the Environment of Japan
- Tools & Databases**
  - 23 Apr 2021 4 Country-Level Impacts of Climate Change (CLICC)
- TOWARDS the job**
  - 23 Apr 2021 5 How do you meet or "Workshop Adaptation Resilient Future" Roadmap? AP-PLAT responds to your question with experts on Economic, Governance, and Science to help you find practical action options. Please take a subscription!

## GLOBAL NEWS ON ADAPTATION

- North America**
  - 12 May 2021 [USA] New York City Adopts new Zoning Rules to Protect Coastal Areas From Climate Change
- Europe**
  - 12 May 2021 [EU] ECCA 2021 - 5th European climate change adaptation conference
- Asia**
  - 9 May 2021 [GCF] Green Climate Fund updates its strategic plan and sets new portfolio targets
- North America**
  - 23 Apr 2021 [USA] EPA Initiatives to Enhance Resilience



## GET STARTED



### CLIMATE CHANGE

Climate change is an unquestionable phenomenon. The latest scientific findings show the impact of human activity on the climate in the past and in the future, and that global temperatures are rising faster than expected, which is why we need to achieve carbon neutrality as soon as possible.

### TEMPERATURE PROJECTION VIDEO

Climate models are the primary tools available for investigating the response of the climate system to various forcings, for making climate predictions on a range of time scales from seasonal to decadal, and for making projections for the future climate of the coming century and beyond. This animation shows the change in air temperature (2 m from surface) at each point on the earth from around 1980 to the future using a projection by the Model for Interdisciplinary Research on Climate version 3 (MIROC5).



### IMPACTS & ADAPTATION

The effects of climate change are already being felt around the world. In addition to the widely known mitigation measures, such as efforts to reduce greenhouse gas emissions, it is increasingly important to adapt to the impacts of climate change that are already occurring now.

## ACTIVITIES

- 18 Oct 2021 AP-PLAT participated in the Asia-Pacific Climate Week 2021
- 16 Oct 2021 60 min. Japan document climate adaptation presentation at AICAPF meeting
- 16 Oct 2021 Video message from NIES Center for Climate Change Adaptation for "Platform for Redesign 2021"
- 16 Oct 2021 Towards Climate Resilient World: Challenges for Asia-Pacific Climate Change Adaptation Information Platform on 2021-2022 workshop

## SCIENTIFIC DATA & TOOLS

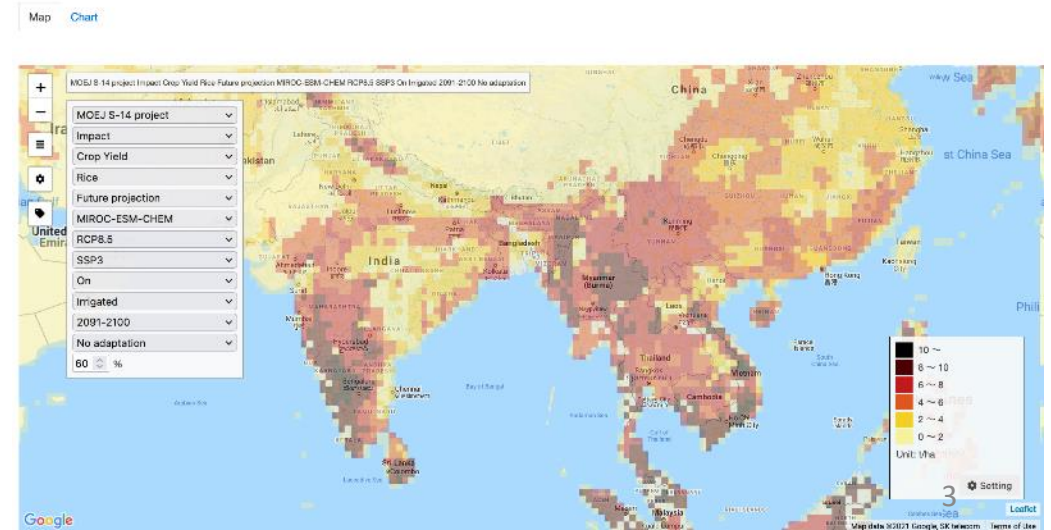
### ClimoCast

ClimoCast is an online tool that allows users to check future climate projections in their region based on the latest climate data (CMIP6 data). Users can compare four major emission scenarios (SSP126-585), compare results of ten different climate models, and download the data. ClimoCast was developed by AP-PLAT (CCCA) and its mission is to make climate projections easily accessible to all people, including those without academic background.

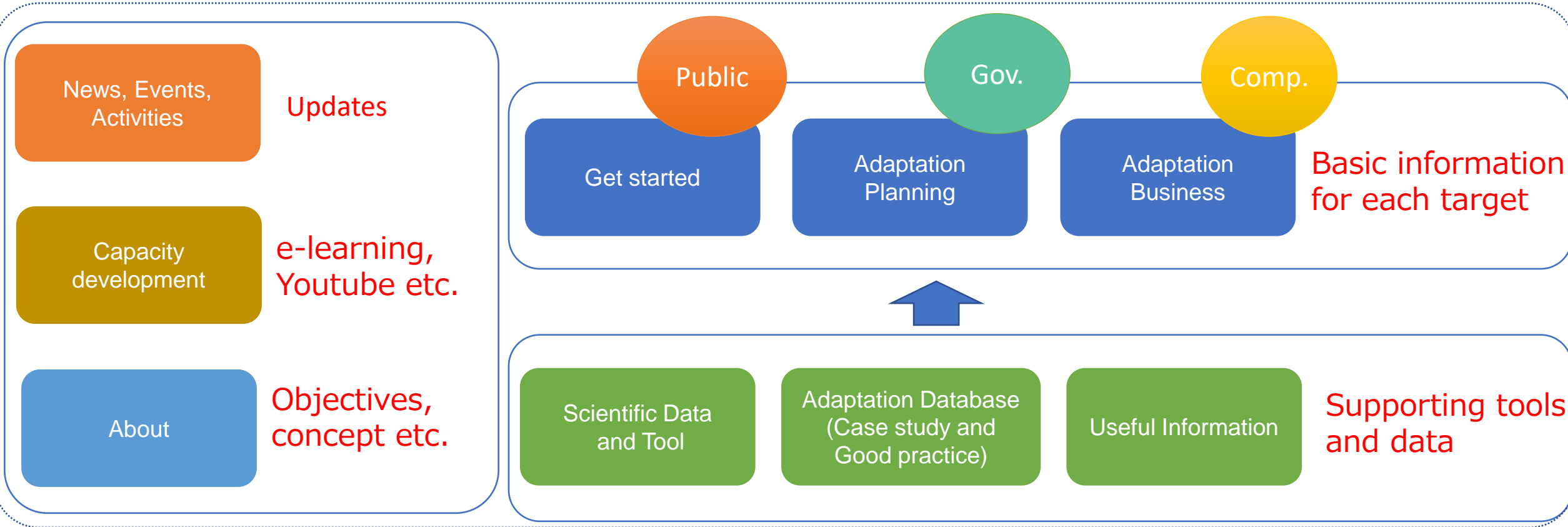
### CLIMATE IMPACT VIEWER

Climate Impact Viewer shows the results of climate change impact assessment in various sectors including climate, water resources, vegetation, agriculture and health. Users can visually compare global projections across sectors and time periods.

## AP-PLAT CLIMATE IMPACT VIEWER

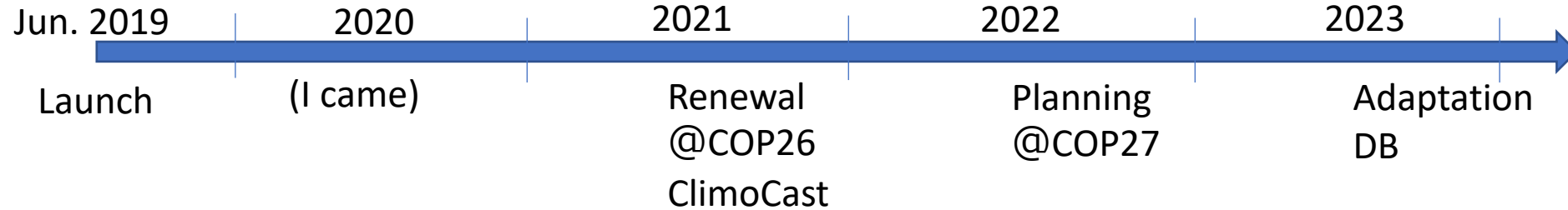


# Structure of AP-PLAT

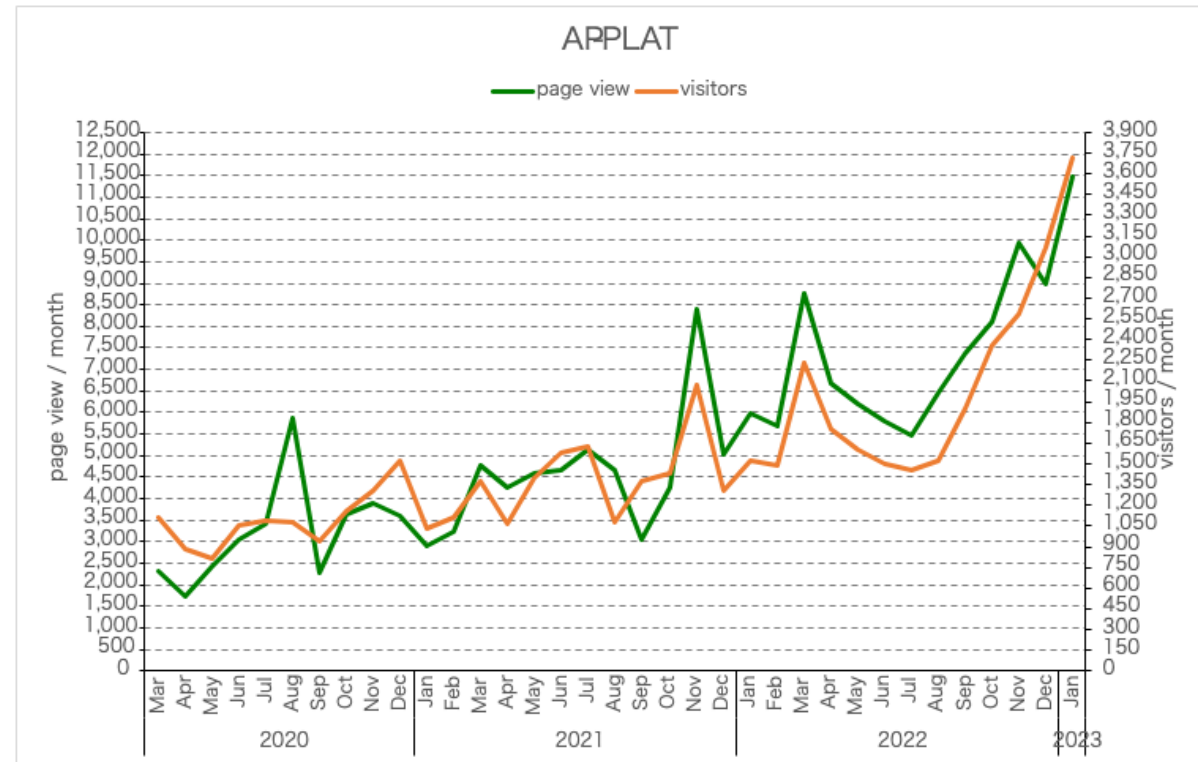


**Will be completed until Mar. 2026.**

# Development history and Number of page view and visitors



AP-PLAT was established in Jun. 2019 on the G20 Ministerial



The number is increasing exponentially!!

# Why does CCCA develop **AP-PLAT**?

**Climate Change Adaptation Act** has been enforced since Dec. 2019.

## ■ **Article 18: Promotion of International Cooperation**

The national government shall develop **an international system for sharing information on Climate Change**, etc., as well as endeavor to develop international cooperation including technical cooperation for developing areas for Climate Change Adaptation.



**(Asia-Pacific Climate Change Adaptation Platform)**



CMIP6 Climate Projection Tool

[Go to ClimoCast](#) →

# ClimoCast

With ClimoCast you can see future climate projections on the map, compare climate scenarios and download the data.

Main concept: ***Climate Projections for ALL***

We deliver latest climate projections to **everyone**.

Sub concept: **Quick and easy access**

**By using ClimoCast**, you can climate projections the fastest and easiest.

# CMIP6 Climate Viewer: ClimoCast

## Climate Projections for ALL

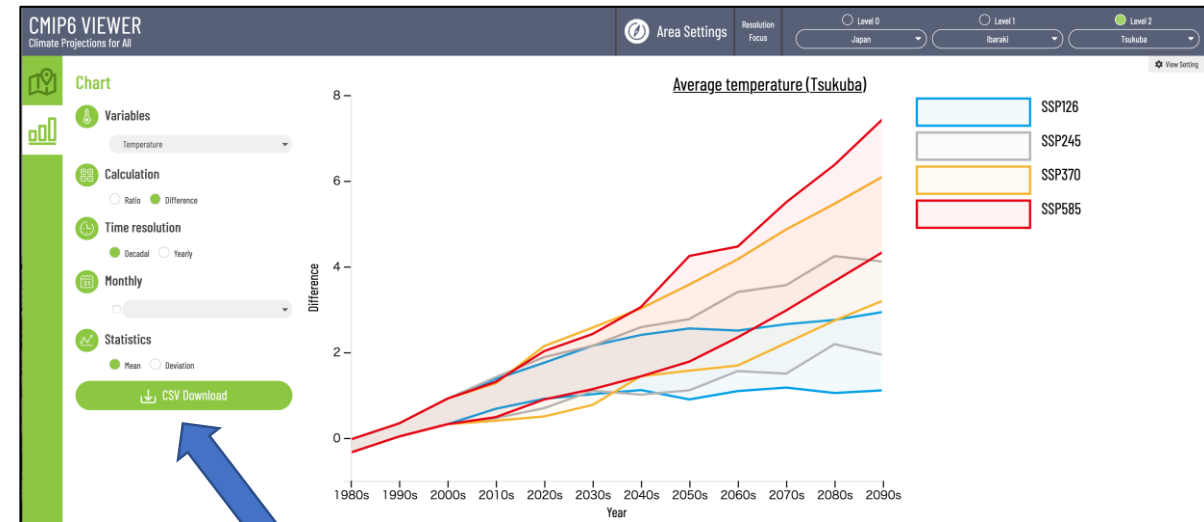
### Map mode

You can geographically compare future climates between climate scenarios (10 GCMs and 4 SSPs)



### Time series mode

You can compare future climate changes over time between climate scenarios (10 GCMs and 4 SSPs)

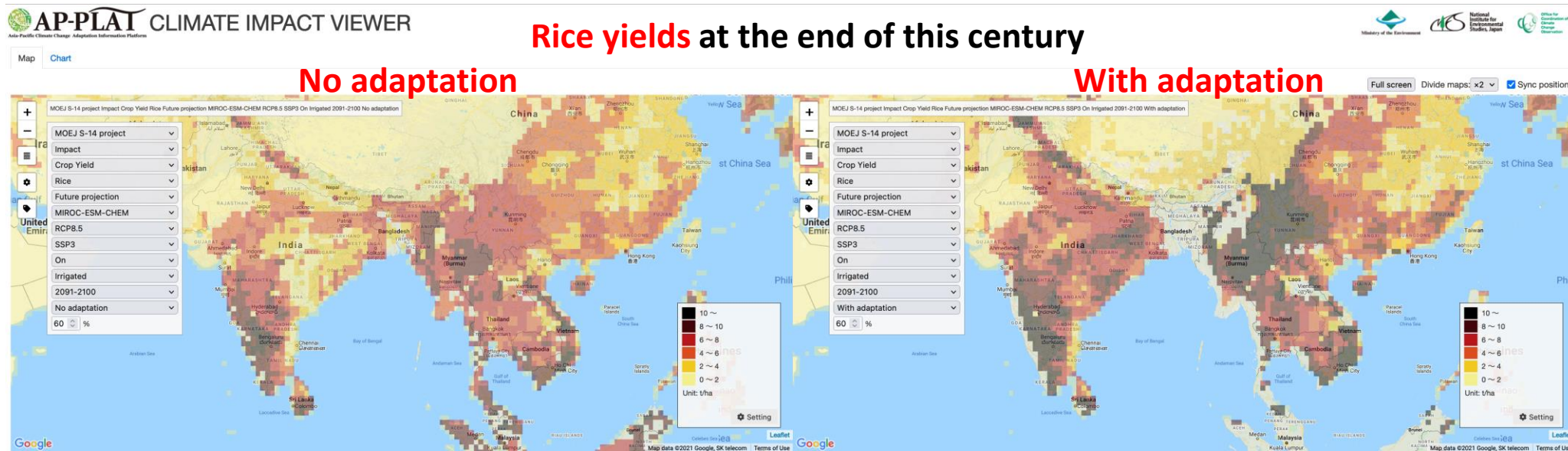


**You can download data in CSV format by one click**



# Climate Impact Viewer

**Climate Impact Viewer** provides climate change impacts information based on scientific results.



## A wide range of sectors

Extreme weather, Sea level rise, Health, Agriculture, Water resources, and Ecosystem

AP-PLAT Asia-Pacific Climate Change Adaptation Information Platform

NEWS GET STARTED DATA&TOOLS LITERACY PLANNING BUSINESS CASE STUDIES USEFUL INFO ABOUT

TRANSLATE CONTACT

SEARCH

# ADAPTATION PLANNING

HOME > ADAPTATION PLANNING

Adaptation planning, implementation, and monitoring and evaluation (M&E) based on scientific impact assessments are core components of adaptation to climate change. Sustainable adaptation requires these three stages to be revisited periodically. This page provides practical information for countries in all stages of this cyclical process. Our resources will help you understand the position, role, and significance of adaptation planning. We provide guidance on National Adaptation Plans (NAPs) and others in the UNFCCC process, as well as information on the status of adaptation planning in the Asia-Pacific. We hope this will help you develop and update your adaptation plans.

## ADAPTATION PLAN DEVELOPMENT PROCESS

Whether you're looking to update an adaptation plan or are intending to start on one, engaging in the adaptation planning process is important work. Once you identify where your country is located in the process, you will find useful information such as tools and good practices.

[SEE MORE](#)

## NAP PROCESS UNDER THE UN FRAMEWORK

What do nations need to implement under the UNFCCC framework? How does this relate to adaptation planning? Understand why adaptation planning is necessary in the long run to implement the Paris Agreement. Learn about the latest trends in international adaptation negotiations and support systems for NAP formulation under the UN bodies.

[SEE MORE](#)

# EXPANDED UPDATE Adaptation Planning

AP-PLAT's guidance on planning for climate change adaptation have undergone major updates and expansion. Get up to date on the position, role, and importance of adaptation planning and National Adaptation Plans (NAPs), receive practical guidance for implementing the UNFCCC process, and learn about the status of adaptation planning in your region.

[Go to Planning](#)

## STATUS OF ADAPTATION IN THE ASIA-PACIFIC

What adaptation plans are being developed in the Asia-Pacific? Learn some of the most distinctive features and best practices, and find the latest information on adaptation plans being carried out by your neighboring countries, or by countries facing similar challenges.

[SEE MORE](#)

### FINANCE & IMPLEMENTATION

Identify key points, good practices, and useful examples for financing both in the planning and implementation phases of adaptation.

[See More](#)

### MONITORING & EVALUATION

Once adaptation measures are implemented, Monitoring and Evaluation (M&E) is conducted to track and evaluate the effectiveness of adaptation measures. Find useful resources including the latest discussions and good practices here.

[See More](#)

We welcome your comments and questions regarding the activities of AP-PLAT and the information provided on this website.

[CONTACT](#)

AP-PLAT Asia-Pacific Climate Change Adaptation Information Platform

网站地图 | SITE POLICY

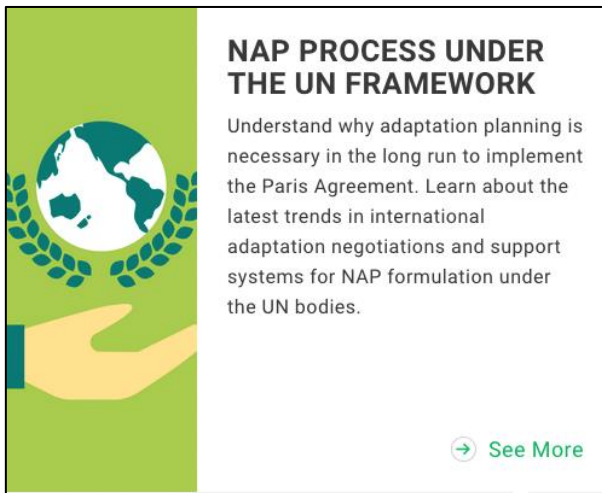
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New page on **adaptation planning** was opened in Nov. 2022@COP27

# New page on **adaptation planning**



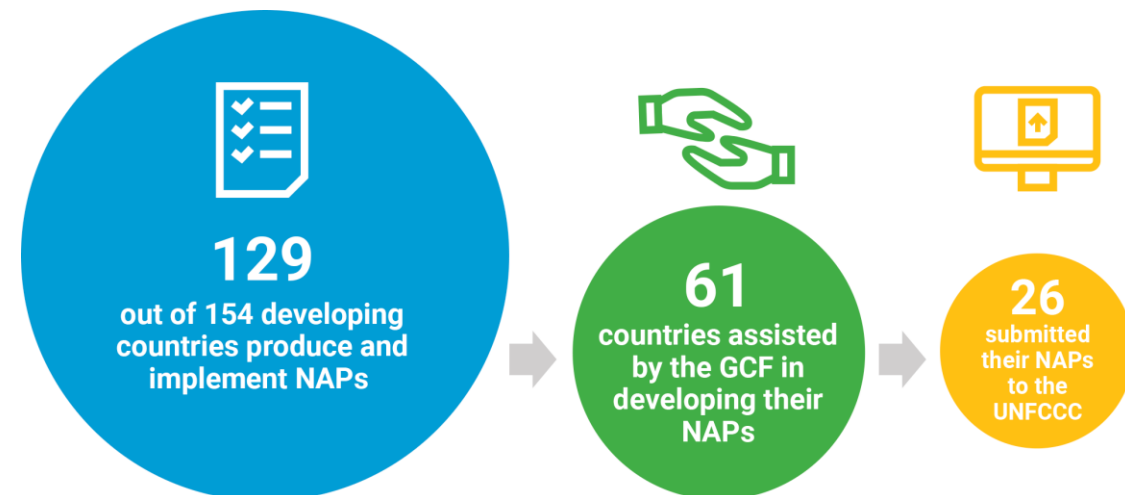
- Practical information in all processes of adaptation plan development
- Guidance on National Adaptation Plans (NAPs) and others in the UNFCCC process
- Information on the status of adaptation planning in the Asia-Pacific.



**NAP PROCESS UNDER THE UN FRAMEWORK**

Understand why adaptation planning is necessary in the long run to implement the Paris Agreement. Learn about the latest trends in international adaptation negotiations and support systems for NAP formulation under the UN bodies.

[See More](#)



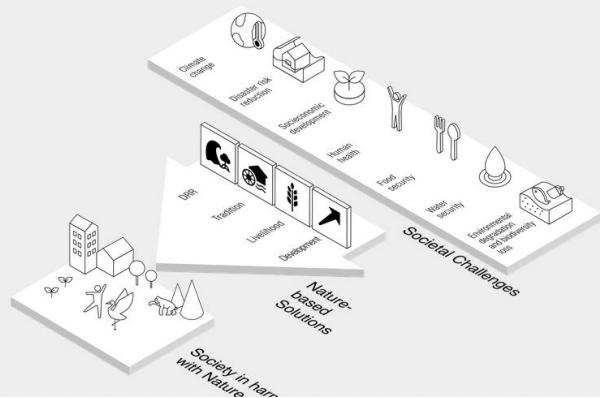
# INAS(Inspired by Nature-based Actions and Solutions)



INAS showcases Nature-based Solutions (NbS) for policymakers, practitioners, and local communities. NbS are actions for effectively and adaptively addressing various societal issues through functions of nature to achieve societies in harmony with nature. Be inspired by nature-based actions and solutions with INAS!

## Nature-based Solutions

NbS are actions to protect, sustainably manage, and restore natural or modified ecosystems that address societal challenges effectively and adaptively, simultaneously providing human well-being and biodiversity benefits to achieve societies in harmony with nature. NbS bring multi-benefits to societies and communities, in combination with conventional approaches. While potentially serving as innovative solutions to challenges, case studies in this website are categorized into four practical approaches that address various uses: Disaster Risk Reduction, Tradition, Livelihood, and Development.



## Good Practices

Good practices from around the world where NbS have helped communities cope with the varieties of societal challenges.

- All
- DRR
- Tradition
- Livelihood
- Development

**Certifying Environmentally-friendly Farming**  
- Sado, Japan

**Adaptive Recovery with a Coastal Ecotone**  
- Shinhama, Japan

**Participatory Forest Management Planning**  
- León, Nicaragua

**Wetland for Flood Mitigation**  
- Inba Lake, Japan

**Coastal Mangroves for Livelihood**  
- Sundarbans, Bangladesh

**Traditional Flood Control "Kasumi-tei"**  
- Chikuma, Japan

**Mainstreaming Ecosystem-based Adaptation**  
- Ben Tre, Vietnam

**Community-based Sustainable Tourism**  
- Gangtey-Phobji, Bhutan

## Certifying Environmentally-friendly Farming - Sado, Japan

Nature-based Solutions | SOCIETAL CHALLENGES: Food Security, Biodiversity Loss, Socioeconomic Development



**ABOUT THIS ISSUE**  
Sado rice lost its brand strength after a typhoon in August 2004 devastated its entire annual rice crop that year

**SOLUTION**  
Sado re-established its rice brand by promoting environmentally-friendly farming with rice certification and boosting the island's economy



### Decline in brand value due to the typhoon

Sado's "Koshihikari" rice had a high brand value as one of the most prominent ones in Japan. However, the typhoon that hit Sado Island in August 2004 wiped out that year's entire rice crop. Because of that event, the Sado rice once lost its brand value and struggled to sell the produced rice. Sado City was wondering if there was any way to re-establish the brand of rice grown in Sado.

### Branding rice with the reintroduction of the crested ibis

Sado City came up with an idea to restore the brand value of Sado rice by linking it to the return of crested ibis to the wild. Originally, Sado was an island inhabited by wild crested ibises. The crested ibis was the symbol of Sado Island. However, they were once extinct due to overfishing and the loss of feeding grounds caused by paddy field development. Later, the Sado Japanese Crested Ibis Conservation Center continued to breed the crested ibis, and the reintroduction of the crested ibis took place in 2008.

# E-learning contents



HOME > ADAPTATION LITERACY

## RESOURCES



### E-LEARNING COURSES

We are developing self-paced e-learning videos for the emerging adaptation issues such as Nature-based Solutions. Start now to learn.



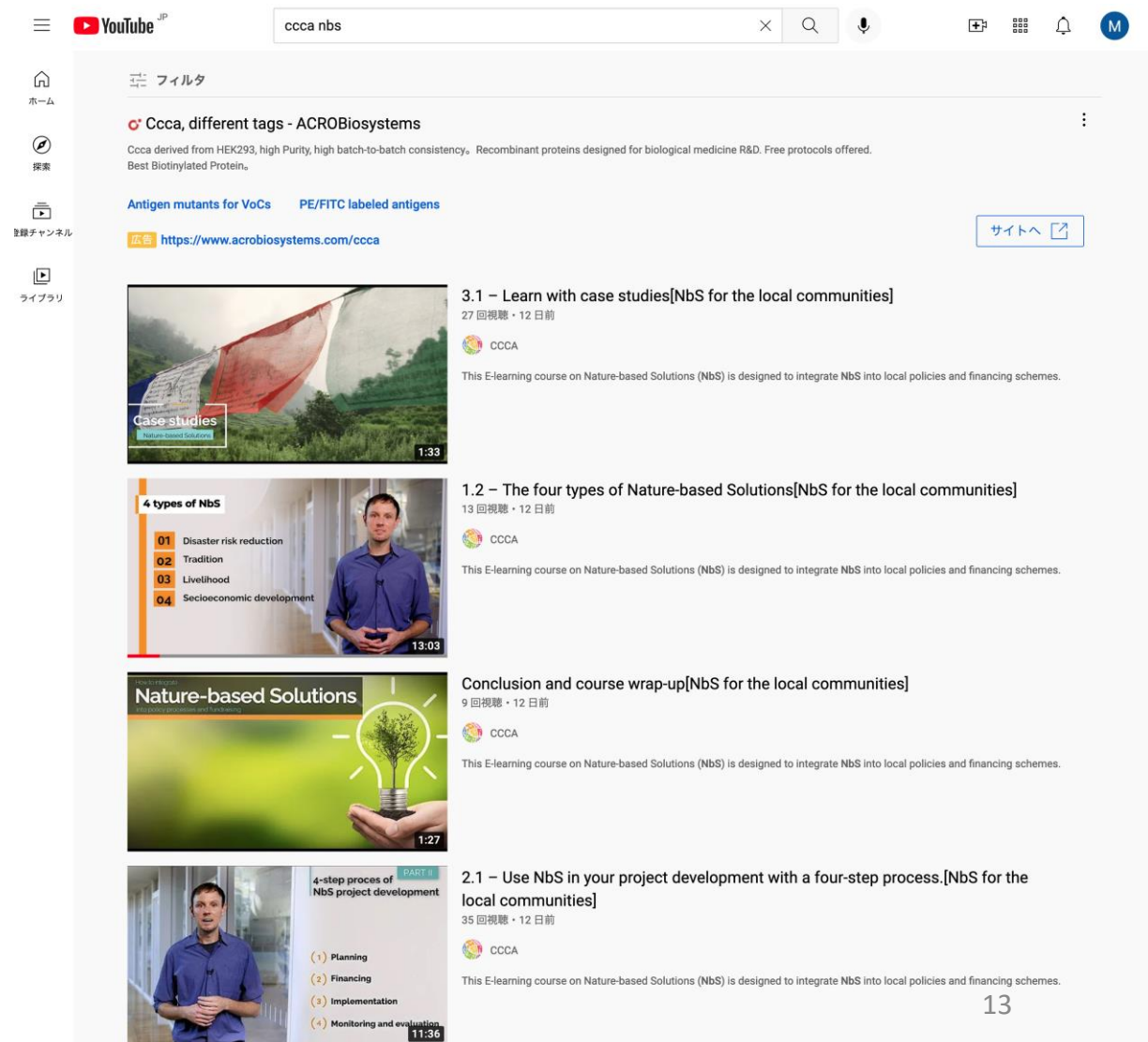
### WEBINARS

Past collaborative activities with key institutions to promote knowledge exchange are available here. Get access to our past webinars here.



### TOOLS

Applying appropriate scientific tools is essential to plan, implement, monitor, and finance adaptation projects. Explore our datasets and state-of-the-art applications for forecasting future climate impacts under different scenarios.



YouTube search results for 'ccca nbs'.

Filters: フィルタ

Video 1: **Ccca, different tags - ACROBiosystems**  
 Ccca derived from HEK293, high Purity, high batch-to-batch consistency. Recombinant proteins designed for biological medicine R&D. Free protocols offered. Best Biotinylated Protein.  
 Antigen mutants for VoCs PE/FITC labeled antigens  
<https://www.acrobiosystems.com/ccca>

Video 2: **3.1 – Learn with case studies[NbS for the local communities]**  
 27 回視聴 · 12 日前  
 CCCA  
 This E-learning course on Nature-based Solutions (NbS) is designed to integrate NbS into local policies and financing schemes.

Video 3: **4 types of NbS**  
 01 Disaster risk reduction  
 02 Tradition  
 03 Livelihood  
 04 Socioeconomic development  
 13:03

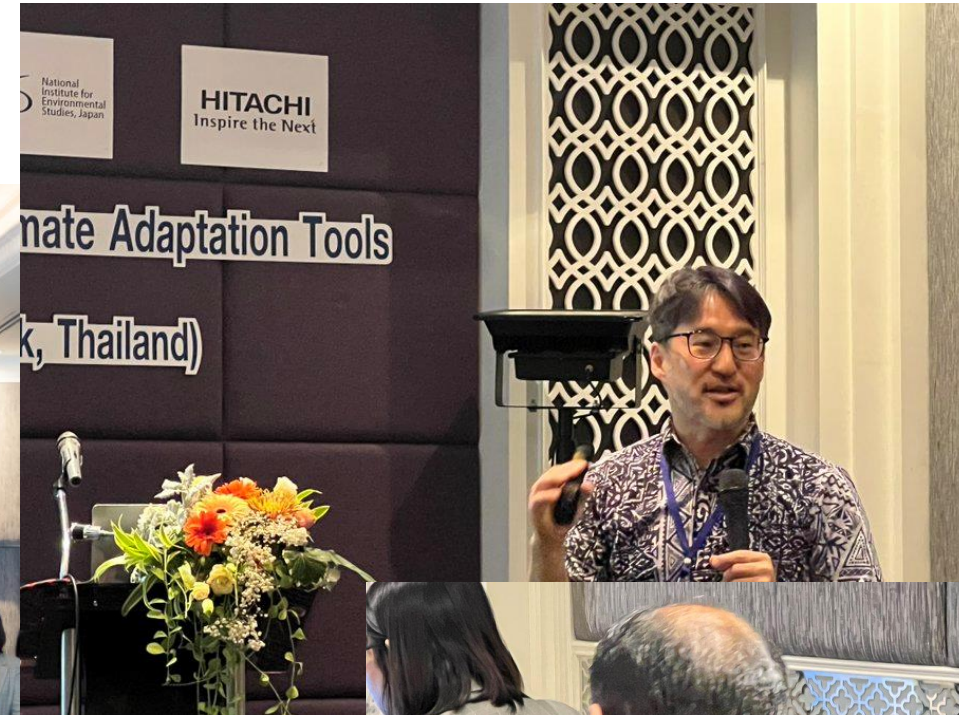
Video 4: **1.2 – The four types of Nature-based Solutions[NbS for the local communities]**  
 13 回視聴 · 12 日前  
 CCCA  
 This E-learning course on Nature-based Solutions (NbS) is designed to integrate NbS into local policies and financing schemes.

Video 5: **Nature-based Solutions**  
 9 回視聴 · 12 日前  
 CCCA  
 This E-learning course on Nature-based Solutions (NbS) is designed to integrate NbS into local policies and financing schemes.

Video 6: **4-step proces of NbS project development PART I**  
 (1) Planning  
 (2) Financing  
 (3) Implementation  
 (4) Monitoring and evaluation  
 11:36

Video 7: **2.1 – Use NbS in your project development with a four-step process.[NbS for the local communities]**  
 35 回視聴 · 12 日前  
 CCCA  
 This E-learning course on Nature-based Solutions (NbS) is designed to integrate NbS into local policies and financing schemes.

# Training WS



May 29-31 with AIT

# Supporting organizations of AP-PLAT

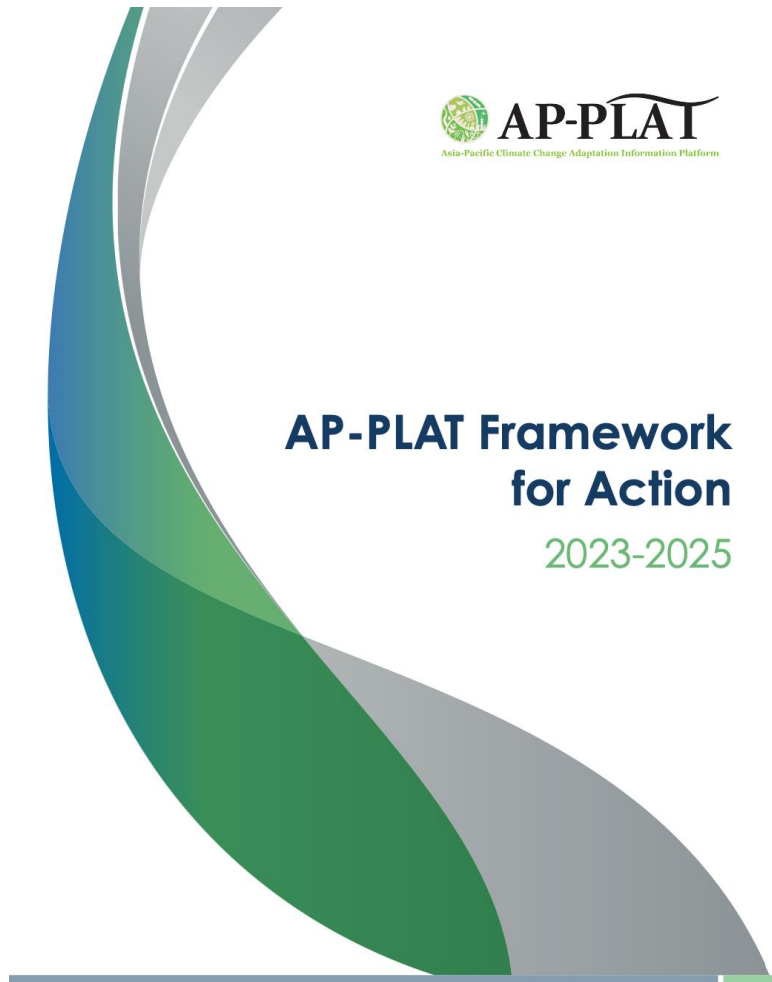


# AP-PLAT Framework for Actions

## 1. Vision, Mission, Approach of AP-PLAT

The vision, mission and approach of AP-PLAT shall be as follows:

<b>Vision</b>	Sustainable and <b>climate resilient development</b> in the Asia-Pacific region
<b>Mission</b>	The mission of AP-PLAT is to support best science-based decision-making and promotion of effective climate change adaptation measures in the Asia-Pacific region, in light of climate change risks, through strengthening partnerships with diverse stakeholders, and to boost international adaptation efforts, with the UNFCCC process at its core. In particular, AP-PLAT aims to contribute to the achievement of the Global Goal on Adaptation (GGA) set out in the Paris Agreement, given the importance of improving all countries' capacity in adaptation, strengthening resilience, and reducing vulnerability.
<b>Approach</b>	To achieve its mission, AP-PLAT will pursue the following basic approaches. <ul style="list-style-type: none"> <li>• Actively promote partnerships with national and local governments, relevant organizations, and the private sector, which are key actors in promoting adaptation measures in the Asia-Pacific region. Specifically, AP-PLAT will function as an effective platform for creating opportunities for collaboration and promoting dialogue among supporting organizations and will effectively promote good adaptation practices.</li> <li>• Establish three pillars of AP-PLAT activities, namely developing a scientific information and knowledge base, providing support tools, and capacity development and development of human resources through the above partnerships.</li> <li>• Analyze and understand trends in adaptation needs in the Asia-Pacific region, and actively promote collaboration and dialogue with existing initiatives and platforms, to accurately prioritize adaptation needs in the region and focus on activities that are complementary and value-added to existing efforts, including those by AP-PLAT supporting organizations.</li> </ul>



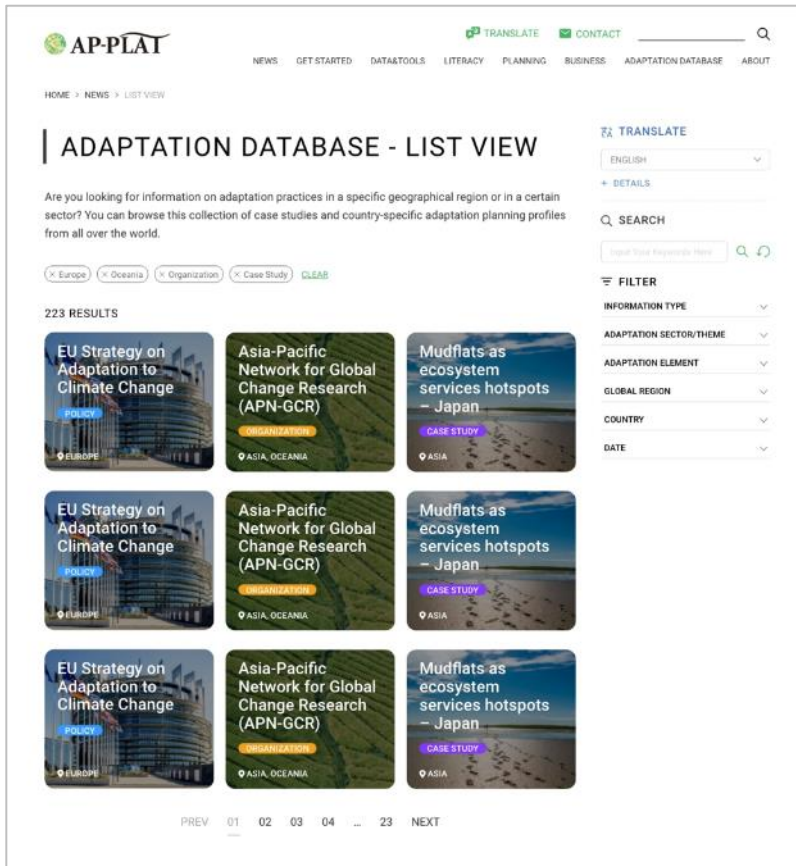


# What's the next?

## • Adaptation Database (will be opened next April.)

- Good practices, case studies, technology, etc.
- Organizations, institutes etc.

Please tell us good practices and case studies you have!!



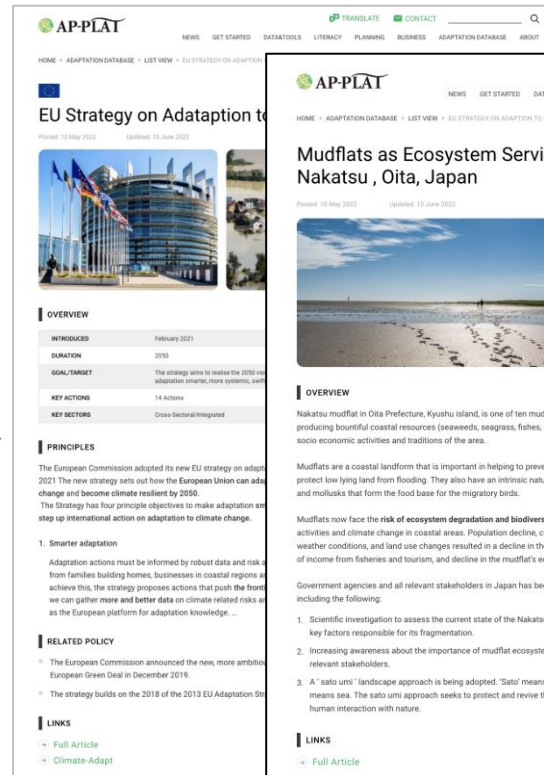
AP-PLAT Adaptation Database - List View

Are you looking for information on adaptation practices in a specific geographical region or in a certain sector? You can browse this collection of case studies and country-specific adaptation planning profiles from all over the world.

Filters: Europe, Oceania, Organization, Case Study, CLEAR

223 RESULTS

Grid of results including: EU Strategy on Adaptation to Climate Change, Asia-Pacific Network for Global Change Research (APN-GCR), Mudflats as ecosystem services hotspots - Japan.

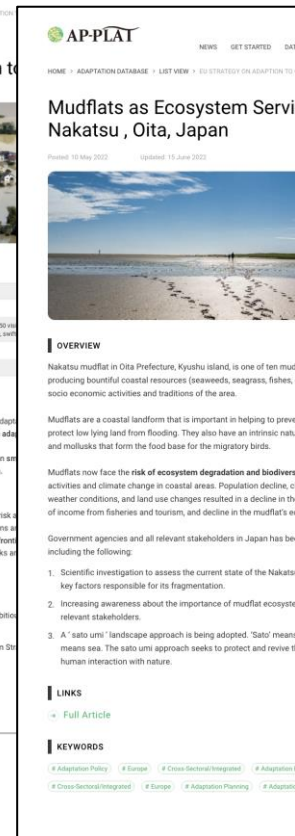



AP-PLAT EU Strategy on Adaptation to Climate Change

Posted: 10 May 2022 Updated: 15 June 2022

Overview: Introduced February 2021, Duration 2010, Goal/Target: The strategy aims to realize the 2050 net-zero emissions target, Key Actions 14 Actions, Key Sectors Cross-Sectoral/Integrated.

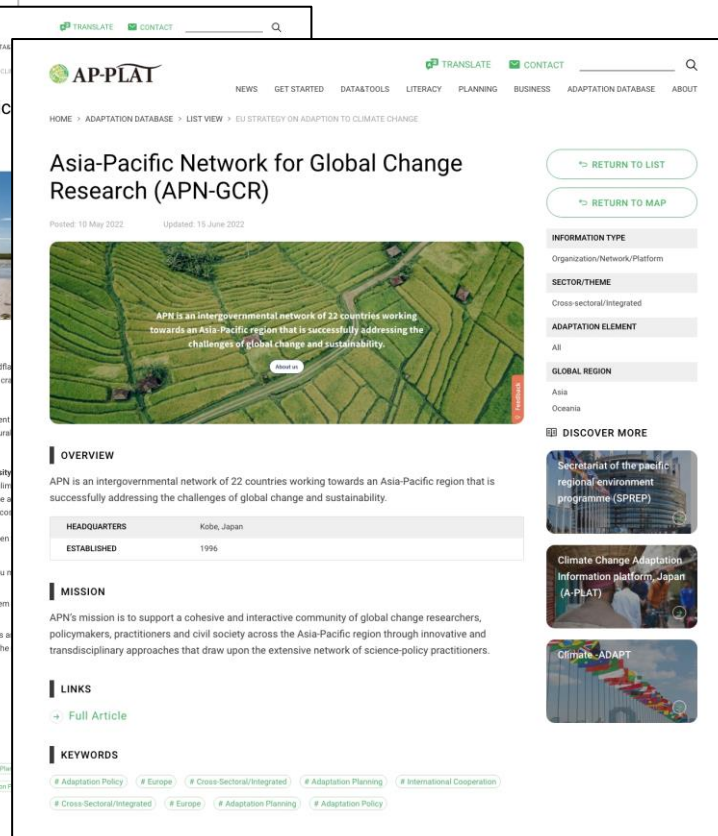
Principles: The European Commission adopted its new EU strategy on adaptation to climate change in December 2021. The new strategy sets out how the European Union can adapt to and become climate resilient by 2050. The strategy has four principle objectives to make adaptation an integral part of the European platform for adaptation knowledge...



AP-PLAT Mudflats as Ecosystem Services Hotspots

Posted: 10 May 2022 Updated: 15 June 2022

Overview: Nakatsu mudflat in Oita Prefecture, Kyushu island, is one of ten mudflats producing bountiful coastal resources (seaweeds, seagrass, fishes, and mollusks that form the food base for the migratory birds. Mudflats now face the risk of ecosystem degradation and biodiversity loss due to climate change in coastal areas. Population decline, climate change, and land use changes resulted in a decline in the income from fisheries and tourism, and decline in the mudflat's ecosystem services.



AP-PLAT Asia-Pacific Network for Global Change Research (APN-GCR)

Posted: 10 May 2022 Updated: 15 June 2022

Overview: APN is an intergovernmental network of 22 countries working towards an Asia-Pacific region that is successfully addressing the challenges of global change and sustainability.

Headquarters: Kobe, Japan

Established: 1996

Mission: APN's mission is to support a cohesive and interactive community of global change researchers, policymakers, practitioners and civil society across the Asia-Pacific region through innovative and transdisciplinary approaches that draw upon the extensive network of science-policy practitioners.

# Summary

- AP-PLAT aims to support adaptation in Asia-Pacific region
  - **bridges** between stakeholders and scientists
- AP-PLAT is evolving, but not enough.
  - We would like to discuss further development.
  - We hope to make climate-resilient world **together with you!**

**Thank you for your attention**