



# Advancing (Enhancing) Climate Adaptation Action in the Asia-Pacific region through Web-Based Platforms

Panel Discussion

Moderators:

Roger Street, University of Oxford and CMCC, Italy

Kim van Nieuwaal, CAS, The Netherlands

## Purposes:

- to explore innovative solutions, share best practices, and identify pathways to enhance the effectiveness of web-based platforms in supporting adaptation actions.
- to explore the need and focus for establishing a CAP Asia-Pacific active network/programme.

## Key challenges we want to explore:

- How can adaptation platforms better meet the needs of diverse users, from local communities to national policymakers? How can platforms foster greater collaboration and knowledge exchange between regions, sectors, and stakeholders?
- What is being done to enhance the role of indigenous and local knowledge and insights in the content of CAPs? What are the challenges being experienced?
- What role can adaptation platforms play in addressing gaps in monitoring, evaluation, and learning (MEL) for adaptation?
- What are the emerging challenges in developing and maintaining adaptation platforms, including governance, funding, and data sharing?

## Structure – Panel session

Five Panellists – pitches related to one or two of the four challenges to stimulate discussion with the session participants

- Yasuaki Hijioka (NIES, Japan): The role and design direction required of an adaptation platform for multi stakeholders: Through the development of A-PLAT
- Fred Patison (PCCC, SPREP): Pacific Climate Change Portal and the Pacific Innovation Lounge: Catalysing climate adaptation in the Pacific Island Countries and Territories
- Damian Morgan-Bulled and Mandy Hopkins (CSIRO, Australia): Integrating Indigenous with place-based knowledge: The role of Indigenous led, co-design in enhancing adaptation platforms
- Young-Il Song (KEI, Korea): Operational status of the climate change adaptation platforms and improvement methods for efficient use
- Hsin-Chi Li (NSTCDR; Taiwan): Empowering Climate Action: the Redesigned TCCIP Platform for Enhancing Decision-Making

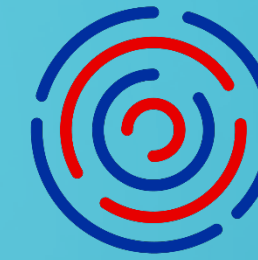
Discussions with Session Participants (15-20 minutes)

Wrap-up by Moderator





# SHORT VIDEO MESSAGE KIM VAN NIEUWAAL CLIMATE ADAPTATION SERVICES ON NEXT PHASE KE4CAP

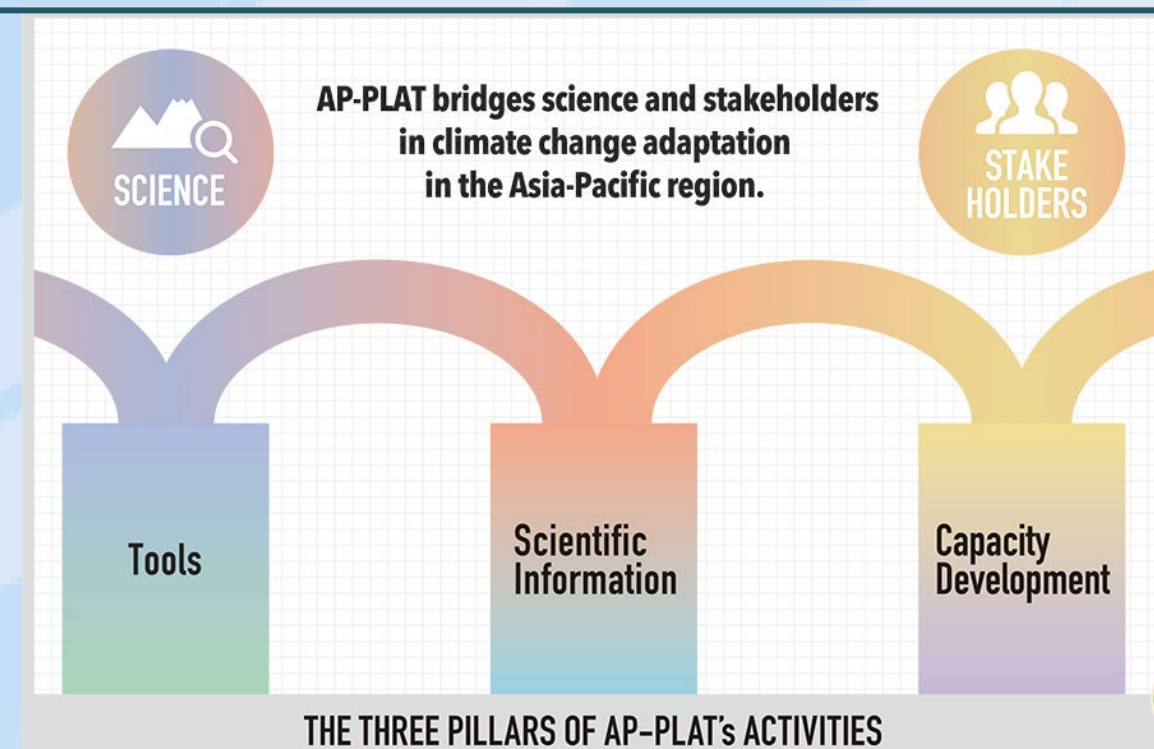
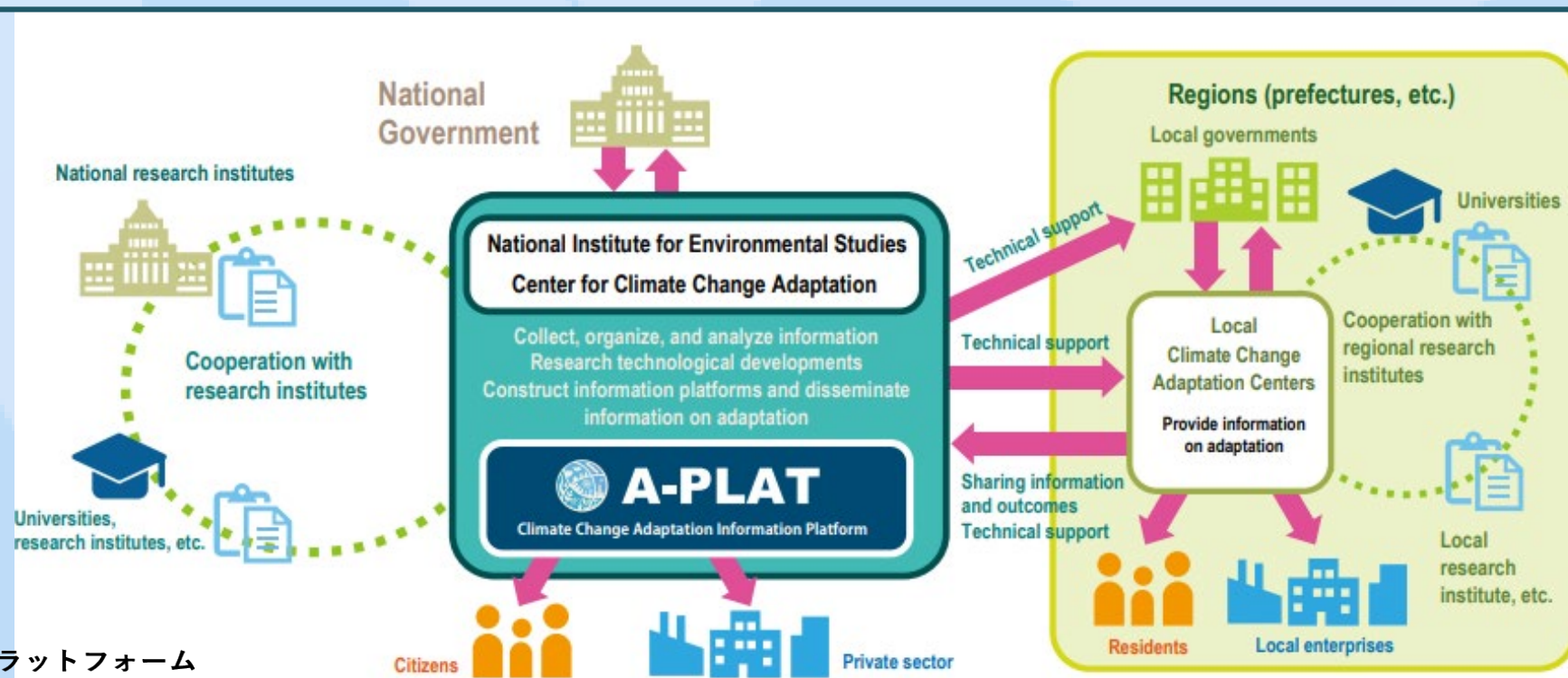


**KE4CAP**  
Knowledge Exchange between  
Climate Adaptation Platforms





- CCCC of NIES is mandated under the Climate Change Adaptation Act enacted in 2018 to serve as the core scientific information base for climate change impacts and adaptation. CCCC supports local governments, businesses, and citizens in implementing climate change countermeasures.
- As the scientific information platform, CCCC develops and operates the “**Climate Change Aadaptation Information Platform (**A-PLAT**)**”, widely providing information in an easily accessible format to promote adaptation actions by various stakeholders.
- CCCC also launched the “**Asia-Pacific Climate Change Adaptation Information Platform (**AP-PLAT**)**” in 2019 as an information platform to support the formulation and implementation of adaptation plans in developing countries in the Asia-Pacific region, contributing to international collaboration and cooperation on adaptation.



## 1. Required roles and design

- Collecting, organizing, and distributing information tailored to specific users
- Disseminating the latest information on climate change impacts and adaptation
- Interactive communication with users, including AI utilization
- Design anticipating collaboration with other organizations Platform operation, organizational and human networking, and event collaboration

## 3. Necessary functions and technologies

- Establishing a system to receive M&E reports from relevant agencies
- Establishing indicator settings and building an automated data acquisition support system for automatic M&E verification
- Positioning it as the official M&E reporting foundation

## 4. Systems required for development and maintenance

- Project-based funding is unsustainable and foundational budget requires continuous organizational support. Implement additional components through projects
- To quantitatively measure the value and effectiveness of a web-based platform, it is necessary to explore methods beyond simply counting access numbers.





# **Pacific Climate Change Portal and the Pacific Innovation Lounge, catalysing climate adaptation in Pacific Island Countries and Territories.**

**Mr. Fred Patison-Climate Finance Readiness Advisor**

# Pacific Climate Change Portal

- A hub for climate change resources to improve timely access to credible and fit-for-purpose information, knowledge, decision-making tools & opportunities to enhance the resilience of Pacific Island Countries and Territories

- Host 2268 climate change resources and tools
- 5.2k users of information



**SPREP**  
Secretariat of the Pacific Regional  
Environment Programme



**PECC**  
pacific climate change centre



<https://www.pacificclimatechange.net/>



The Pacific Climate Change Portal is a service delivered through the [Pacific Climate Change Centre](#) , at SPREP.

This is a hub for climate change resources to improve timely access to credible and fit-for-purpose information, knowledge, decision-making tools & opportunities to enhance the resilience of Pacific Island Countries and Territories.

Pacific Islands resource for climate change information,  
resources, events and more that are relevant to the

**2270**  
Resources available >

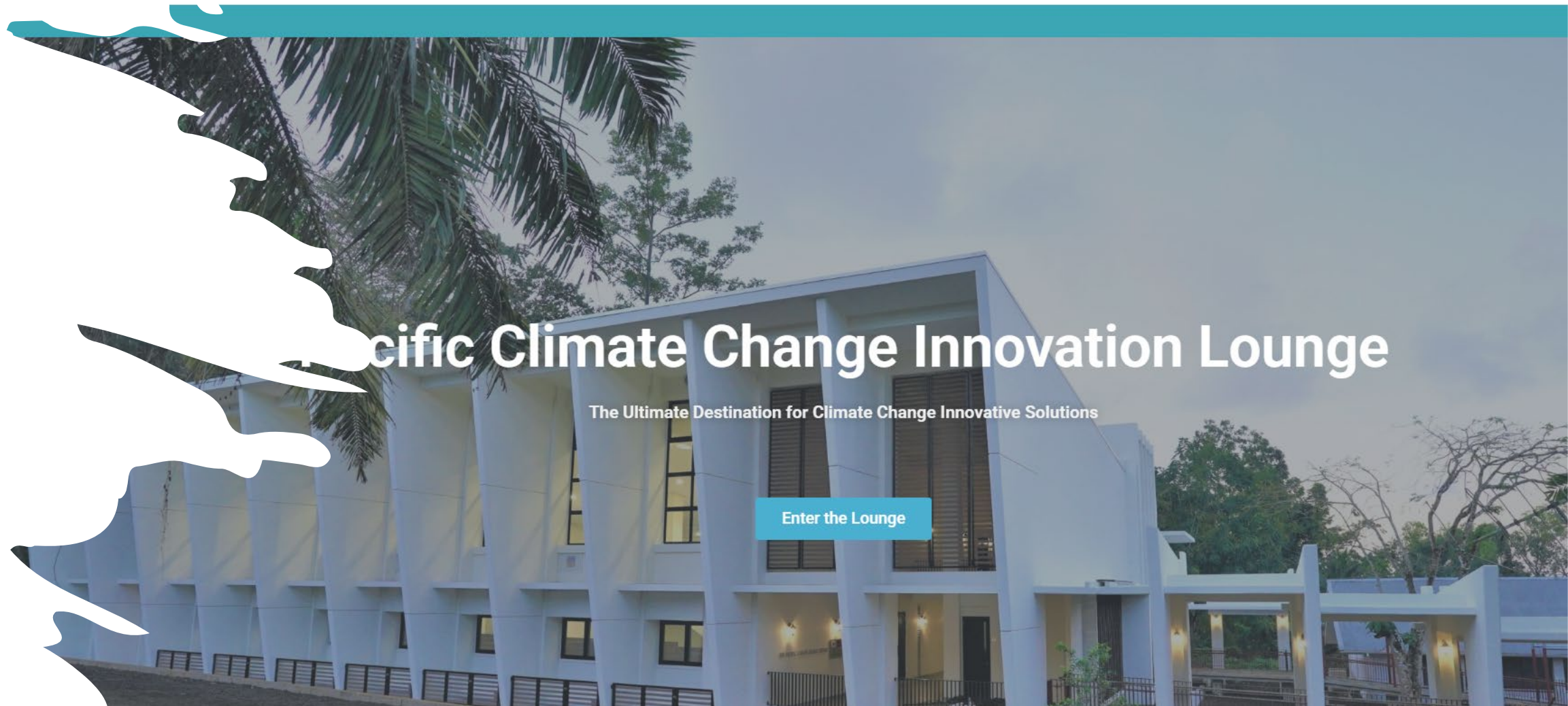
**213**  
Completed projects >

**20**  
Country profiles >



# Pacific Climate Change Innovation lounge

- A platform designed to highlight climate change innovation, connect potential users of this innovation with the suppliers and to act as the go-to platform for accessing climate change innovative solutions fit-for-purpose for the Pacific region.



## Pacific Climate Change Innovation Lounge

The Ultimate Destination for Climate Change Innovative Solutions

Enter the Lounge

- Launched in September of 2025
- Host 21 innovative climate change solutions
- 8 webinars
- 84 members



<https://pcccinnovation.com/>



# Pacific Climate Change e- learning Platform

- A dedicated online space for delivering high-quality courses on climate change, tailored to the Pacific context.
- Launched in March 2021
- Host 29 courses
- 1271 registered users



<https://spreptraining.moodlecloud.com/login/index.php>



Log in

[Lost password?](#)

Is this your first time here?

For full access to this site, you first need to create an account.

Create new account

English (en) ▾

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# Integrating Indigenous, placebased knowledge: The role of Indigenous led, cedesign in enhancing adaptation through a physical platform



**Damian Morgan- Bulled** - CSIRO, Indigenous Facilitator, NESP Climate Systems Hub

**Mandy Hopkins** - University of Tasmania, Indigenous Partnerships Officer, NESP Climate Systems Hub



# The National First Peoples Platform on Climate Change (NFPPCC)



- The National First Peoples Platform on Climate Change (NFPPCC) is a physical platform consisting of 12 First Nation peoples. Endorsed by their First Nation Group, they bring together First Nations people to provide advice and guidance to research bodies on how to work in a respectful, reciprocal environment that includes Indigenous and place-based knowledge in land and resource management research, practices and strategies.
- A National First Peoples Gathering on Climate Change was established by the NFPPCC to bring together Traditional Owners from across Australia and Internationally to talk with researchers, government and NGOs about the opportunities and challenges that first nation peoples encounter due to changing climate. This initiative created unique space for First Nations people to engage with research bodies on a national scale, enabling First Nation to strengthen kinships by discussing the opportunities and challenges of climate change including how high impact weather events are affecting Country and People.





# The National First Peoples Platform on Climate Change (NFPGCC)

- The Gathering also enabled relationships to be established between First Nation groups & researchers towards developing projects that help breakdown language barriers, discuss differences in cultural perspectives and diverse associated scientific knowledge systems.
- Through this initiative First Nations to consider western climate science in their Healthy Country planning and can enhance land and water management policy and practices that can assist developing web-based platforms that are inclusive of and accommodate Indigenous place-based knowledge.
- The challenge we are finding through our engagement with grass roots Communities is how to ensure data sovereignty, custodianship and Indigenous Cultural Intellectual (ICIP) are protected in research agreements. This will also be a challenge for KE4CAP and they will need ensure the principles of Free Prior Informed Consent are used when developing them.



National Environmental Science Program



# Thankyou

**Contact details:** Damian Morgan Bulled, [damian.bulled@csiro.au](mailto:damian.bulled@csiro.au)

**Mandy Hopkins** [Mandy.Hopkins@utas.edu.au](mailto:Mandy.Hopkins@utas.edu.au)

- [2024 First Nations Statement of Climate Change](#)
- [2024 First Nations Gathering on Climate Change](#)
- [Current work being delivered through the Indigenous Partnerships Team in the NESP Climate Systems Hub](#)



National Environmental Science Program

## **Name & Organisation**

Young-Il Song, Korea Environment Institute



## **Name of the Platform**

### **MOTIVE**

- Integrated future impact projection models covering 6 sectors (Water, Health, Ecosystem, Forestry, Agriculture, Marine)

## **Experience**

- Provided scientific climate change impact assessment results by sector to support the formulation of adaptation measures in over 30 local governments

## **Lessons Learnt**

- Contributed to establishing a scientific basis for adaptation planning
- Users face difficulties in utilizing the platform (models)
- Growing demand for projections that incorporate the implementation of adaptation measures



## **Name of the Platform**

### **DIRECTION**

- Integrated future impact projection models considering the effectiveness of adaptation measures across 5 sectors (Water, Health, Ecosystem, Forestry, Agriculture)

## **Challenges**

- Difficulty in quantitative evaluating the effectiveness of adaptation measures
- Development of user-friendly systems – three types of output/display systems developed
- Need for regular system upgrades
- Securing and maintaining adequate budget and human resources for operation and maintenance

## **Triggering Statement**

“How can adaptation platforms evolve into user-driven, decision-support systems that are both scientifically credible and practically accessible?”





**Dr. Hsin-Chi Li**

Deputy Chief, Climate Change Division

National Science and Technology  
Center for Disaster Reduction (NCDR)

# Empowering Climate Action: the Redesigned TCCIP Platform for Enhancing Decision-Making

IPCC AR4  
2007

IPCC AR5 2013-2014

IPCC AR6  
2021-2022

National Adaptation Plan of Taiwan

National Adaptation Plan  
Phase I : 2012-2017 (NDC)

National Adaptation Plan  
Phase II : 2018-2022 (EPA)

Phase III : 2023-2027  
(MoE)

Platform 1.0 (2012)



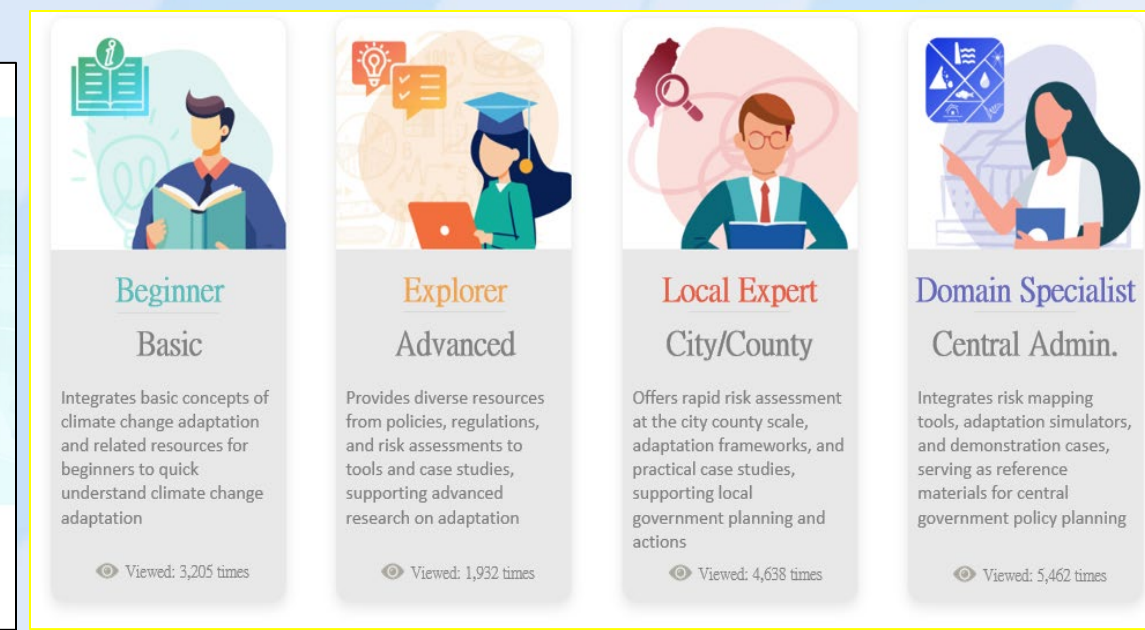
Platform 2.0 (2015)



Platform 3.0 (2019.11)



Platform 3.5 (2025, Beta version)





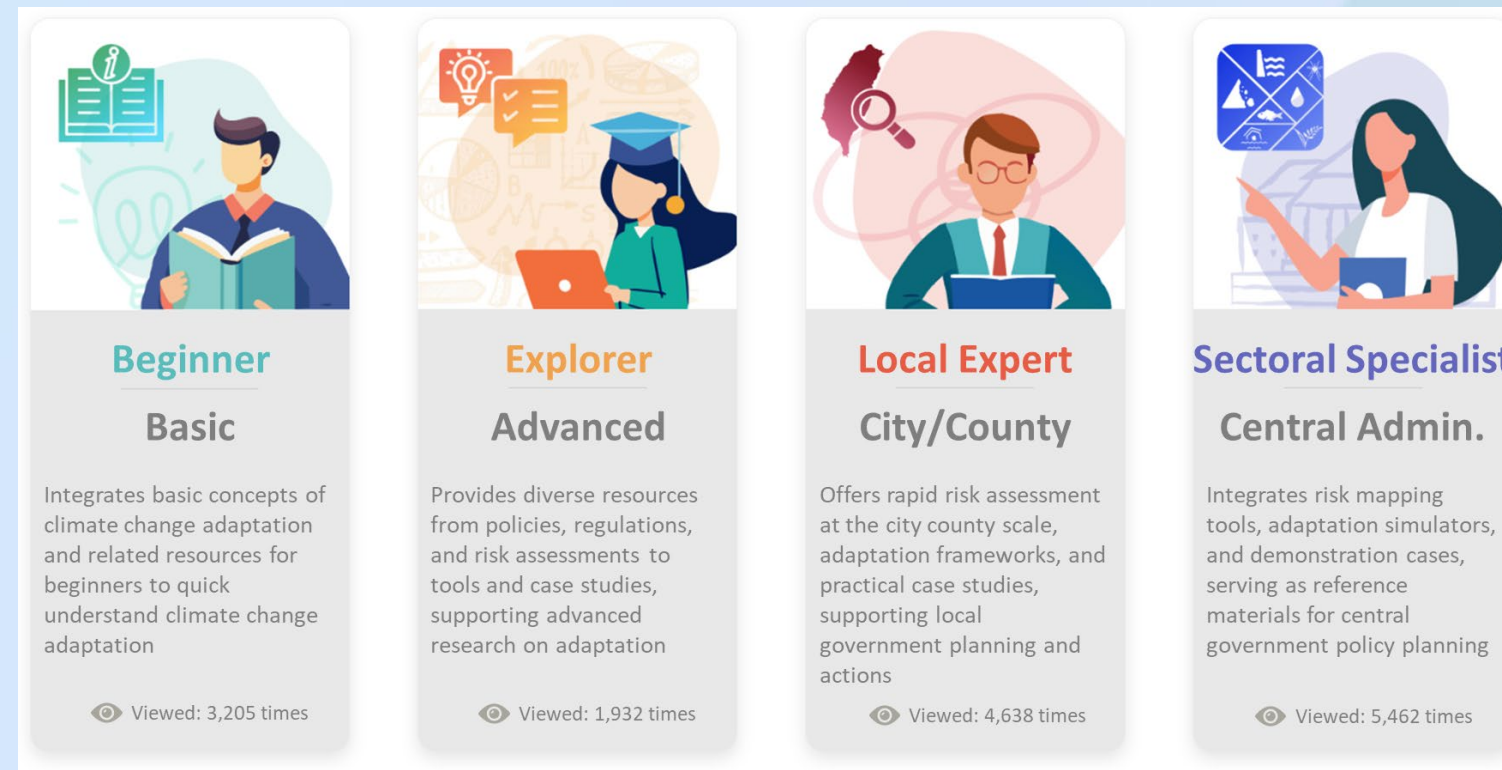
# Challenges for Promoting Adaptation

## Required Role/Design

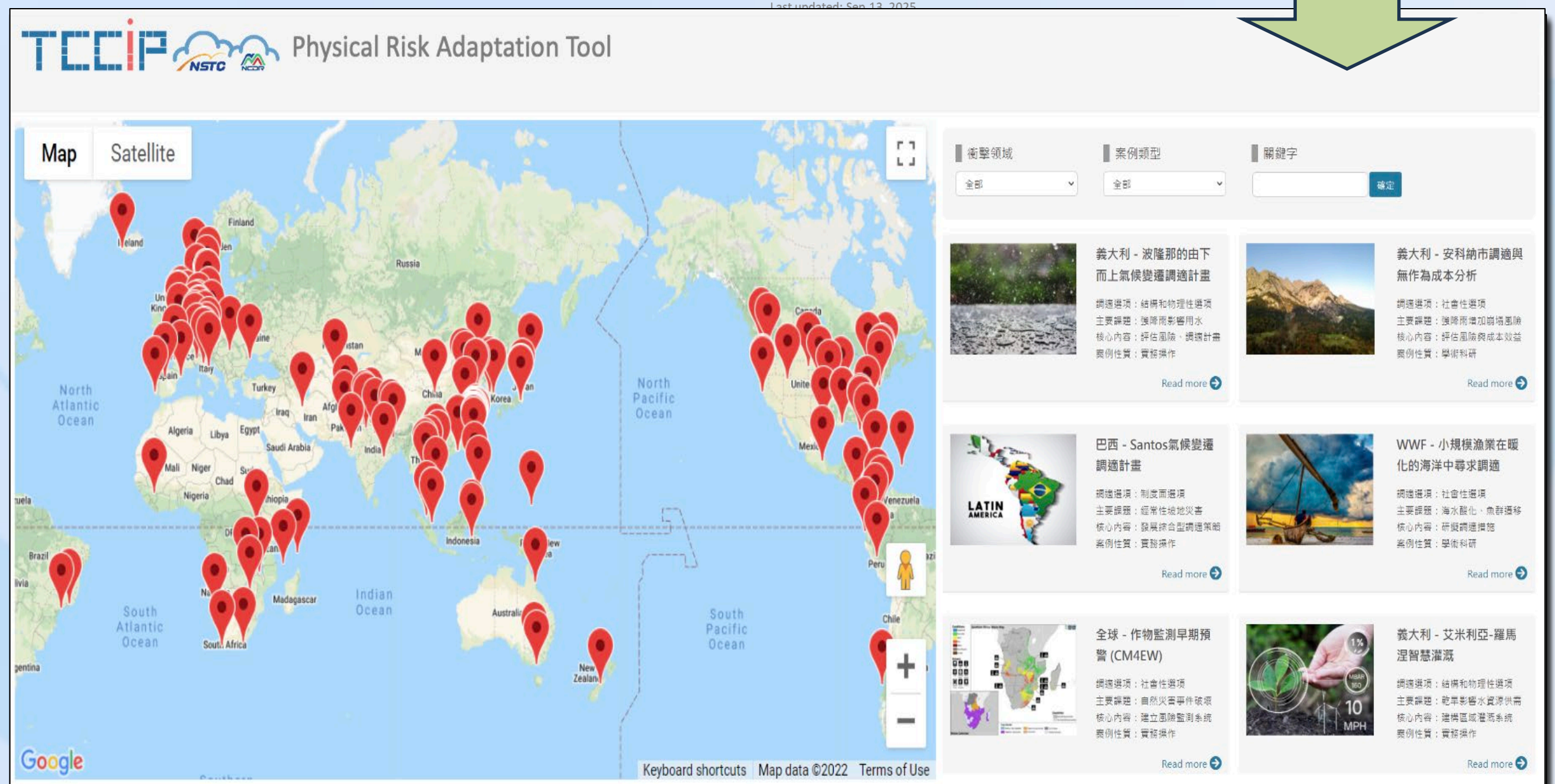
Climate Change Response Act enacted in 2024 required government of all levels to conduct risk assessment and proposed adaptation plans based on the assessment result

## Necessary functions/tech:

- Technical barriers to data understanding, mapping and analysis
- Lack of ability to interpret and apply the scientific information into action plans
- Lack of integrated channel or platform for data and information extraction



# Adaptation Simulator





# Advancing (Enhancing) Climate Adaptation Action in the Asia-Pacific region through Web-Based Platforms

## Wrap-up of Session

### **Expected Outcomes**

Identification of success factors and barriers for adaptation platforms.

Facilitated strengthening networks between platform developers and users to foster collaboration.

Considerations to support advancing the next generation of adaptation platforms.

Enhanced visibility of the KE4CAP outcomes as a foundation for future work in this field.