

Pillar 2 : Addressing Challenges in an Indo-Pacific Way

Case (11): Responding to Climate Change (adaptation support, response to loss and damage)

1. Basic concept

- Climate change is now an opportunity for economic growth beyond a global issue, as well as cross-sectoral diplomatic issues that have significant impacts on countries' security in various forms.
- In the National Security Strategy of Japan revised at the end of last year, climate change is recognized as "security challenges on the existence of human beings." It is also clearly stated that Japan should provide support for the establishment of sustainable and resilient economies and societies in developing countries including the island nations, where climate change poses an imminent threat. Based on these policies, Japan will need to provide assistance to the countries that are vulnerable to the adverse effects of climate change.

2. Items of cooperation

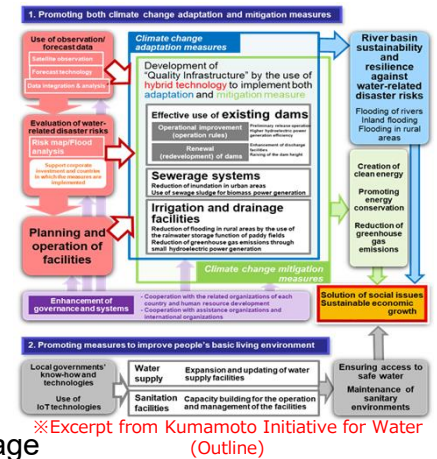
- Adaptation support for the Asia-Pacific region
(Examples) Project for Capacity Building on Climate Resilience in the Pacific (Samoa)
-Capacity building for the ministries and agencies related to climate change in Oceanian countries
- Promotion of measures to climate change based on the Kumamoto Initiative for Water
(Examples)
Dam: Improvement of flood control and water utilization functions by improving dam operation, renewing existing dams while operating them, etc.
Sewerage: Promote Pipe-jacking method and biomass power generation using sewage sludge.
- Assistance for loss and damage
(Examples) Early Warning System Initiative in the Asia-Pacific region through Public-Private Partnerships
- Development of the early warning system by the private sector
- Providing climate information solutions

● Adaptation support for Pacific Island countries

- Project for Capacity Building on Climate Resilience in the Pacific (Samoa)
Capacity building of relevant ministries and agencies in the field of climate change in Pacific Ocean countries at the "Pacific Climate Change Center" constructed through grant aid.



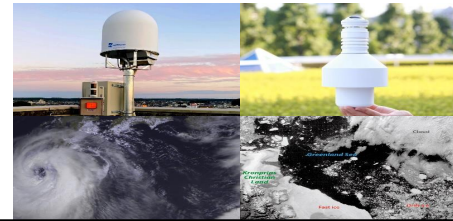
■ Kumamoto Initiative for Water



● Example of assistance for loss and damage

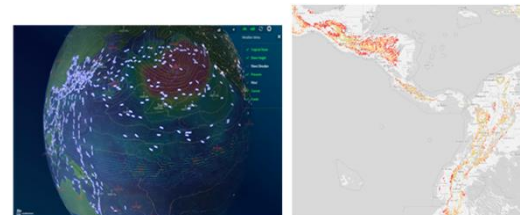
Early Warning System Initiative in the Asia-Pacific region through Public-Private Partnerships

■ Development of the early warning system by the private sector



Weathernews Inc.: Plans to install a small radar in Vietnam. Aiming to set up in 50 sites by 2024 in Indonesia, Japan, and other Asian countries.

■ Providing climate information solutions (Climate information service)



• Recommendation of the best route for vessels

• Support for procurement of raw materials to deal with yield reduction

[Improvement of resilience]
Visualization of climate risk in developing countries
↓
[Business support]
Providing information solutions and risk-hedging instruments to developing countries

(Weather derivative insurance)

Case study in a **non-life insurance company**
• Sugar production (Thailand)
Reduction of yield and production due to heavy rainfall and high temperature
• Mine (South Africa)
Suspended operations due to cyclones
• Ride-hailing (Singapore)
Decreased sales due to heavy rainfall