

# **Role of Japan-ASEAN Cooperation: Japan's Adaptation Initiative**

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# Existing Japan-ASEAN Cooperation

- Dec. 2013 The ASEAN-JAPAN commemorative Summit Meeting
- ASEAN+3 Environmental Ministers Meeting
- ASEAN-JAPAN Dialogue on Environmental Cooperation
- Low Carbon Asia Research Network (LoCARNet)
- Asia-Pacific Network for Global Change Research(APN)
- Asia-Pacific Adaptation Network (APAN)

# ASEAN ESC Model Cities Programme

## Environmentally Sustainable Cities for regional collaboration



Year 2 of the Programme is running in 21 Model Cities across ASEAN

### MYANMAR

**Ministry of Environmental Conservation and Forestry**  
Organizing training in the Model Cities in Clean Land, Clean Air and Clean Water (CLCW)

**YANGON, MANDALAY, PYIN O O LWIN**  
Training on Clean Land, Clean Air and Clean Water model into the Vegetation and Urban Water being planning project



### LAO PDR

**Ministry of Public Works and Transport**  
Creating a CLCW handbook to assist cities nationally

**LUANG PRABANG AND XAMNEUA**  
With the assistance of BORDA, implementing pilot projects to decentralized wastewater treatment (DWWT) in both cities using training and handbook



### PHILIPPINES

**Department of Environment and Natural Resources**  
National coordination sharing good practices learned from Year 1

**SAN CARLOS, NEGROS OCCIDENTAL**  
Training on wastewater and air quality management for local government officials

**LEGASPI**  
Collection and information sharing on the activities conducted by the Office of the City Mayor's Leadership Academy held by USAID ROMA Employees

**SANTIAGO, LUZON**  
Training on Wastewater Method and Business Competing for Services, students and farmers to help eliminate open burning and generate income

### VIET NAM

**Vietnam Environment Administration**  
Proposed a set of national ESC indicators suitable for Viet Nam's context and developing ESC model procedures

**DA LAT**  
Raising awareness of and building capacity to improve the correct disposal of plastic waste through training, local media, air and water pollution



**DA NANG**  
Established a pilot Environmentally Friendly Residential Area in the City with the assistance of local stakeholders and communities, building on Year 1 work



### MALAYSIA

**Ministry of Urban Well Being, Housing and Local Government**  
Malaysia plans to support the exchange of good ESC practices and policies, and also share its experience in designing and implementing national ESC framework. It is also expected to be involved in the development of the proposed ESC Experts Dispatch Service and Network led by Singapore (2014-2)

### INDONESIA

**Ministry of Environment**  
Assisting cities in improving community involvement in ESC activities for means of building health awareness to waste bank membership and waste bank business

**BALIKPAPAN**  
Implementing training to improve waste bank management across the city as well as building capacity and raising awareness concerning recycling and plastic to local businesses



**LAMONGAN**  
Assessing, raising and implementation of garbage health insurance driving health insurance to waste bank membership with technical assistance regarding about insurance management

### SINGAPORE

**National Environment Agency**  
Singapore is actively sharing knowledge and experience on good ESC practices/policies among ASEAN Member States. It is also leading an effort to develop a proposed ESC Experts Dispatch Service and Network within the programme to Year 2 (2014-2)



**MALANG**  
Training on gender sensitivity regarding wastewater treatment

**TANGERANG**  
Continuously monitoring for the implementation for a small scale wastewater treatment plant



### THAILAND

**Ministry of Natural Resources and Environment**  
Disseminating good ESC practices to other local governments

**CHIANG RAI**  
Creation of Low Carbon Town, School and Community Evaluation and Results to set up training on low carbon community and city knowledge



**RENUNAKHON**  
Training on organic plantation, bioethanol and composting for community leaders as well as organic plantation promotion in schools



**NONGTENG**  
Training city stakeholders on water supply and using alternative energy including site visits to understand good practices

**PICHIT**  
Training and awareness raising on community based solid waste management and the establishment of environmental and learning centres



**PANUSNIKOM**  
Establishment of Clean and Green Community and School Awards through the active participation of city stakeholders



### CAMBODIA

**Ministry of Environment**  
Supporting cities in developing and providing opportunities for information exchange through holding a national workshop building on good practices

**PURSAT**  
Development of pilot model environmentally friendly neighbourhood districts in 3 communities focusing on proper solid waste management and public cleanliness



**PHNOM PENH**  
Continuation of the Year 1 pilot reduction campaign, local government and communities to encourage people bag, monitor, and separate



Japan-ASEAN Cooperation



- Established in **2009** on the initiative of the G8 Environment Ministers' Meeting.
- Composed of **7 countries and 16 research institutes**.
- Held 5 annual meetings in the past.



- Has been conducting workshops in selected Asian countries /cities with NIES/AIM team.
- During the course of these workshops, **the growing importance of low-carbon growth in Asia** was strongly recognised.

- Proposed the establishment at ASEAN+3 EMM held in October 2011 in Cambodia.
- Launched at the side-event of "**East Asia Knowledge Platform for Low Carbon Growth**" in April 2012.



Declaration of LoCARNet launch (April 2012, Tokyo)



# Asia-Pacific Network for Global Change Research

- Inter-governmental Network of 22 member countries
- Funding Agency for Global Change Research
  - International joint research : 84 project, 433 researchers (2009-2012)**
  - Scientific capacity building program: 83 projects (2009-2014)**
- Established in 1996, Secretariat in Kobe, Hyogo Prefecture
- financial contribution support by Japan, USA, Republic of Korea and New Zealand



Australia



Bangladesh



Bhutan



Cambodia



China



Fiji



India



Indonesia



Japan



Lao DPR



Malaysia



Mongolia



Nepal



New Zealand



Pakistan



Philippines



Republic of Korea



Russian Federation



Sri Lanka



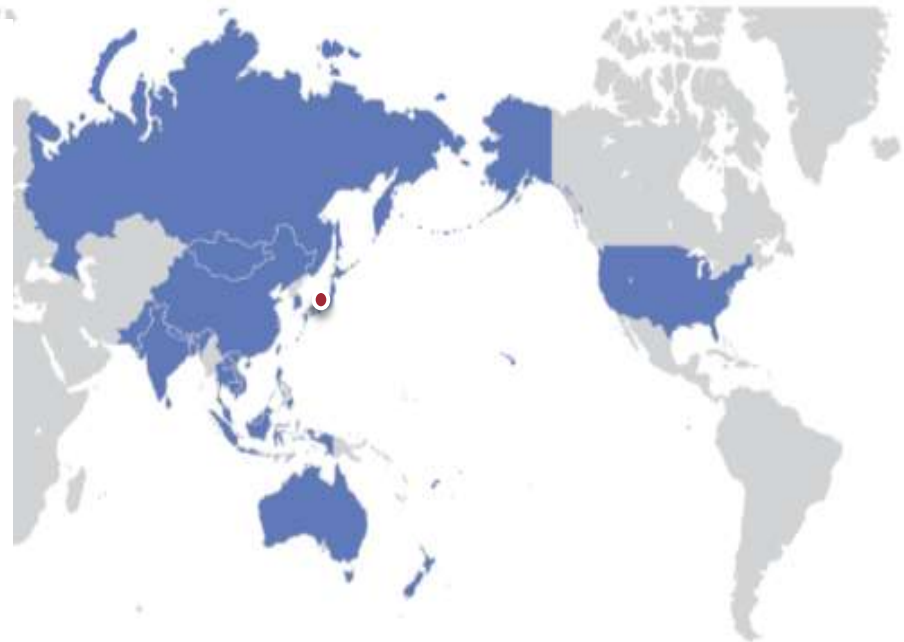
Thailand



USA



Viet Nam



# Japan's Adaptation Initiatives to Support Adaptation Action

- Climate change has caused impacts on natural and human systems on all continents and across the oceans. There are risks resulting from sea level rise, storm surge in coastal areas, and inland flooding in urban regions.
- Japan will bring together the knowledge of the private sector, government and academia, and consistently **assist developing countries' adaptation actions both in terms of their plans and implementation.**

## Assistance to Developing Countries in the field of Adaptation

(Approx. 2.3billion USD from Jan. 2013 to Jun. 2014 )

### Adaptation Policy Planning

Assist the mainstreaming of adaptation through formulation of national/local adaptation plans in developing countries vulnerable to climate change, **based on Japan's experience in formulating its National Adaptation Plan** to be published in the summer of 2015.

### Implementing Adaptation Measures

Assist various adaptation measures against climate change risks from extreme weather events and slow onset events.

- ✓Water Resource/Disaster Risk Reduction
- ✓Natural Environment/Biodiversity etc.

### Vulnerabilities particular to small island states

**Provide comprehensive assistance by sharing Japan's experience and knowledge** and providing necessary

- Wide-area capacity development for climate change and natural disaster

### Disaster Risk Reduction

Host the Third World Conference on Disaster Risk Reduction in Sendai, Japan in March 2015 and contribute to the formulation of the post-Hyogo Framework for Action (HFA2)

- Capacity development for DRR through both structural and non-structural measures
- Provision of swift assistance for recovery

### Applying Japan's Technology for Adaptation Measures

- Data, technologies, and knowledge related to climate change

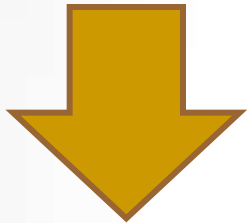
**Human resources development of 5000\* people in the field of adaptation in the next 3**

Sharing experience and knowledge through international networks

(\*as part of the pledge made by PM Abe for human resources development of 14,000 people in the next 3 years to address climate c

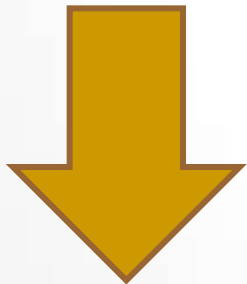
# Steps towards National Adaptation Plan

Establish “Expert Committee on Climate Change Impact Assessment” at 114<sup>th</sup> Global Environmental Subcommittee, Central Environmental Council (2 July, 2013)



- Further detailed projection of climate change in Japan to monitor extreme events
- Assessment on climate change impacts in Japan
- Analysis on risk information

Summarize climate change impacts, risk assessment and future issues (around Feb, 2015)



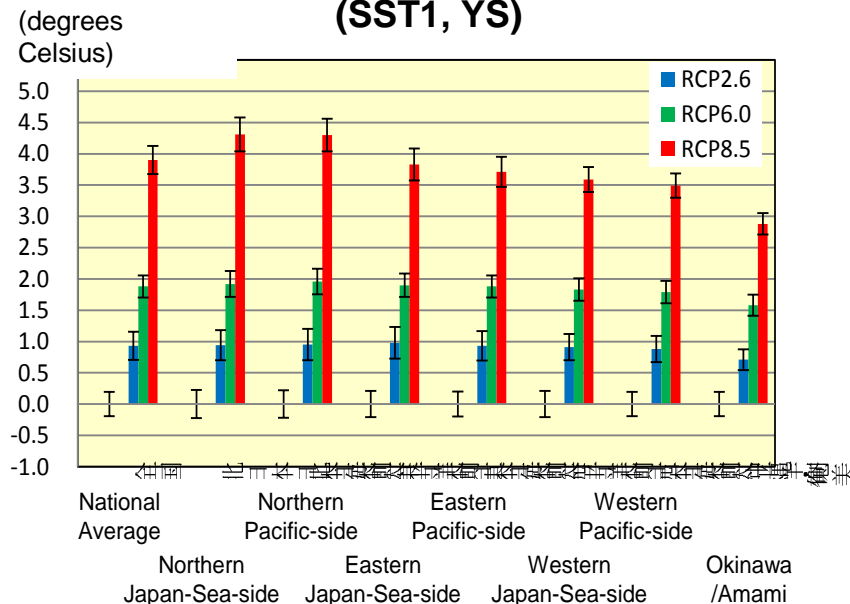
- Extraction of priority areas/issues in short-term (- 10 years), middle-term (10-30 years) and long-term (30-100 years)

**Develop National adaptation plan as a government-wide integrated effort (summer, 2015)**

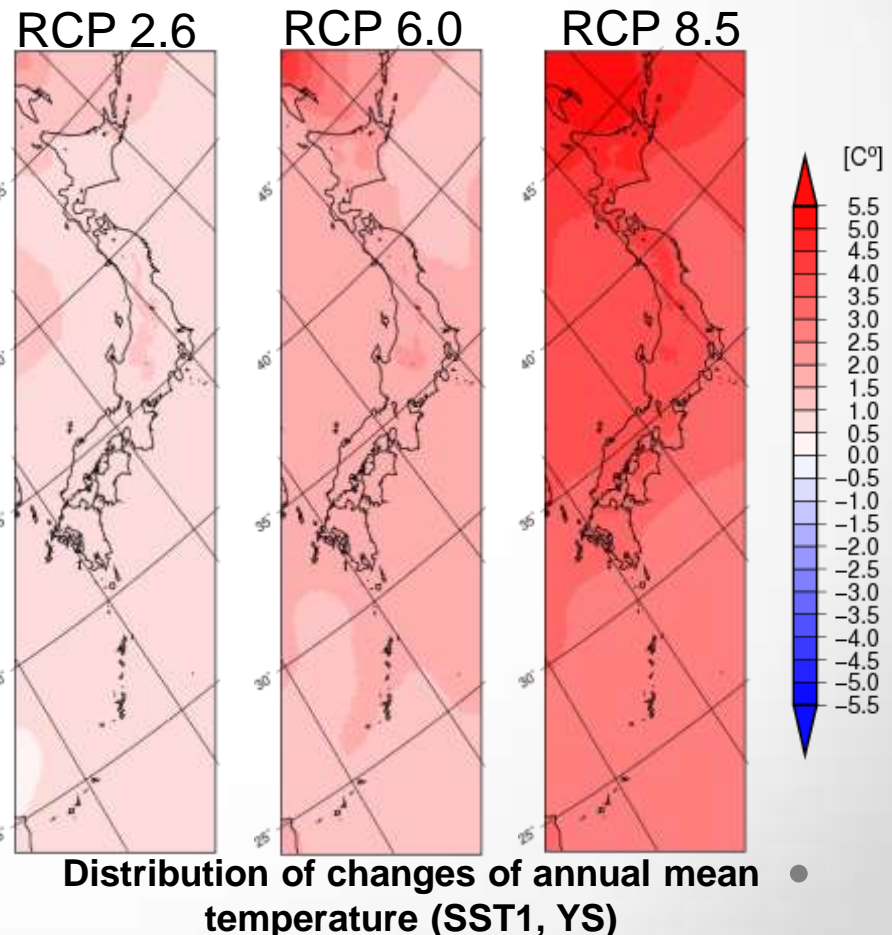
# Climate Change Projection (Regional Climate Model)

- Changes of annual mean temperature
  - The amounts of temperature increases are relatively high in northern regions and relatively low in Okinawa/Amami region.

**Changes of annual mean temperature  
(SST1, YS)**

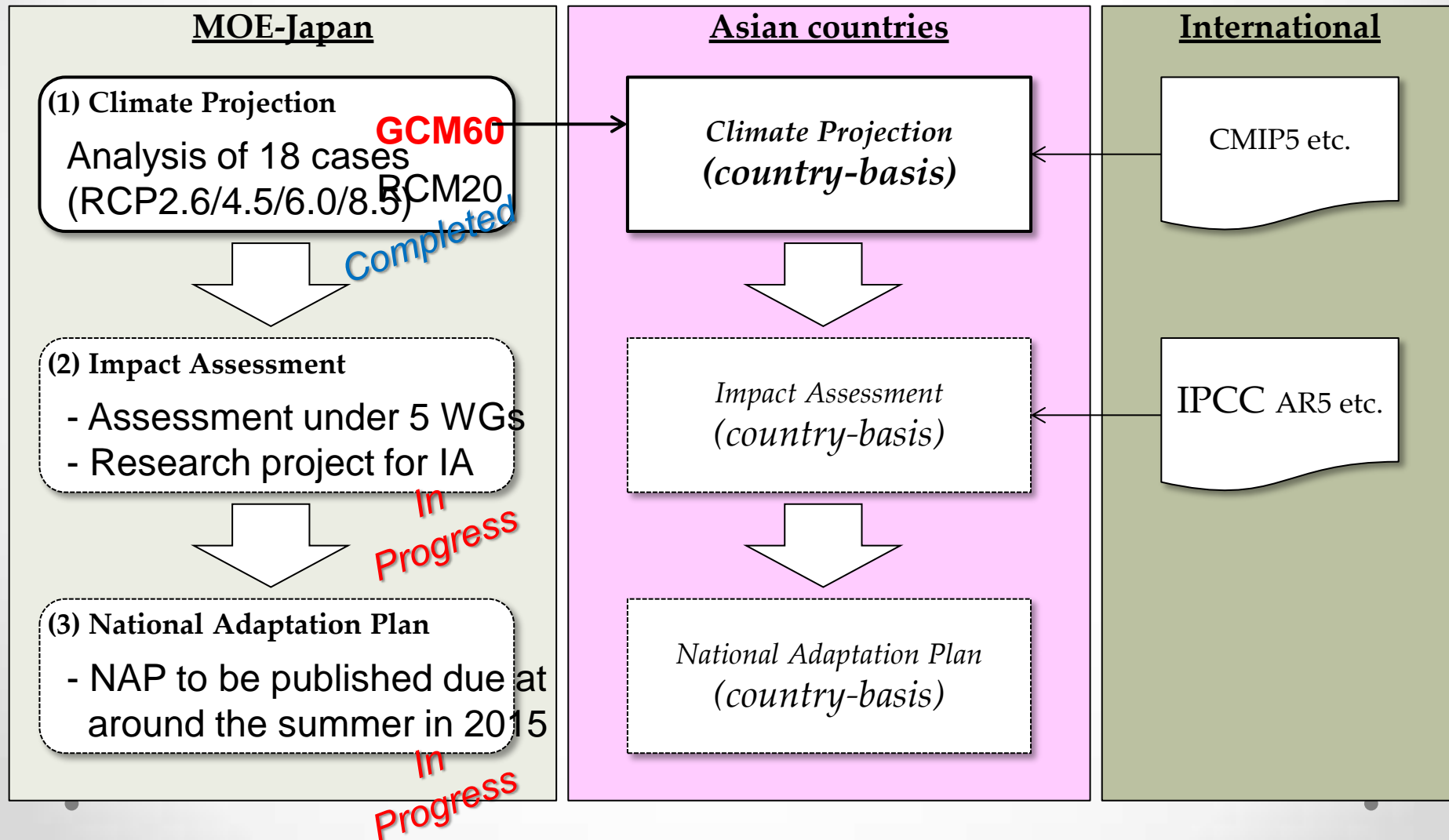


Column : Changes from present climate  
(Blue : RCP2.6, Green : RCP6.0,  
Red : RCP8.5 )  
Error Bar : Standard deviation of interannual variation  
(Error bar with no column: SD of present climate)





Japan's experiences on its "NAP" establishment can contribute to developing "NAPs" in Asian countries.





**Thank you for your attention!**

