

# **APN Workshop on Climate Adaptation, Disaster Risk Reduction and Loss+Damage**

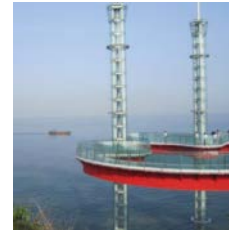
**-Linkage, Priorities, Limitations-**

## **1. Introduction**

**Akio Takemoto**  
Secretariat Director

Asia-Pacific Network for Global Change Research (APN)

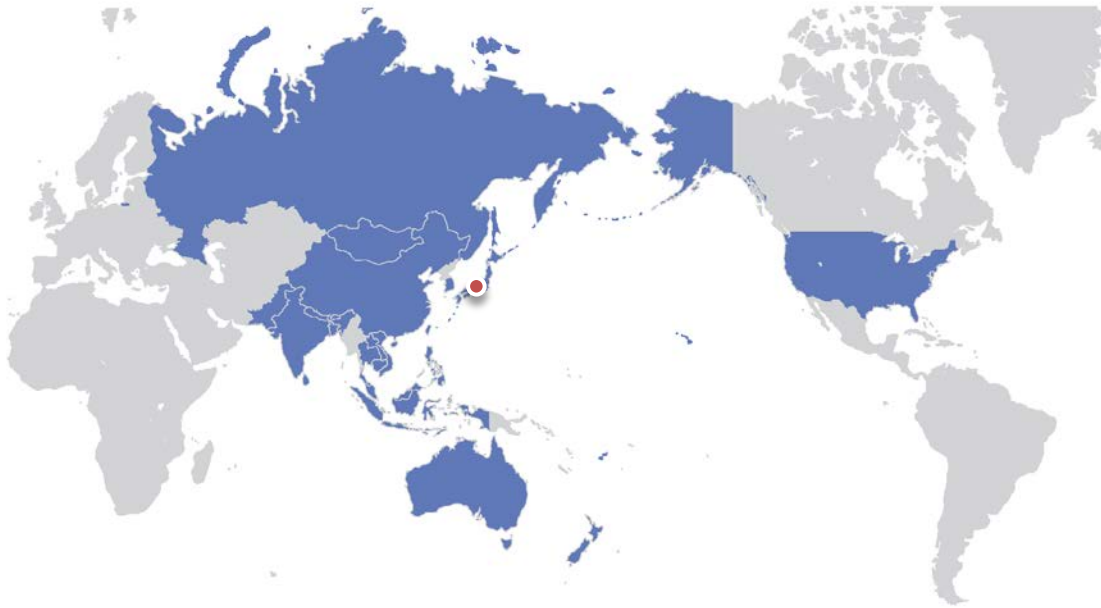
Kobe, Japan  
21-23 August 2013



Overview

# WHAT IS APN?

- An inter-governmental network of 22 countries in the Asia-Pacific to foster global change research in the region



*\* Pacific Island Countries, Singapore, Myanmar and Maldives are approved countries whose scientists are eligible to receive funding under APN awards.*

- Established **1996**
- Secretariat in **Kobe**, Japan since 1999
- Financial contribution from four donor countries: **Japan, USA, Republic of Korea, New Zealand**
- Financial Resources: **US\$ 3.4 Million** (2013/14)



# APN Goals

- Supporting **regional cooperation** in global change research on issues particularly relevant to the region
- Strengthening appropriate **interactions among scientists and policymakers**, and providing scientific input to policy decision-making and scientific knowledge to the public
- Improving the **scientific and technical capabilities** of nations in the region including the transfer of know-how and technology
- Cooperating with **other global change networks and organisations**



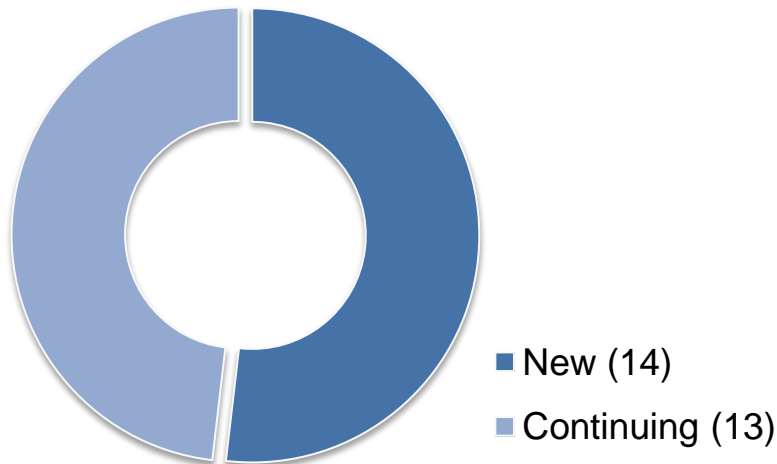
# Major Activities (2013/14)

- Funding regional research projects (ARCP)
- Funding capacity building projects (CAPaBLE)
- Focused activities:
  - Low Carbon Initiatives framework
  - Climate Adaptation framework
  - Biodiversity and Ecosystem Services framework
- Strengthening science-policy linkages



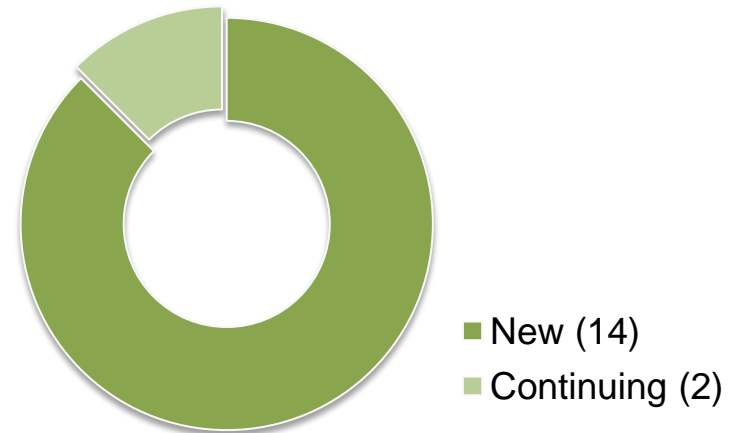
Annual Regional Call for Research Proposals

### 2013 ARCP Projects



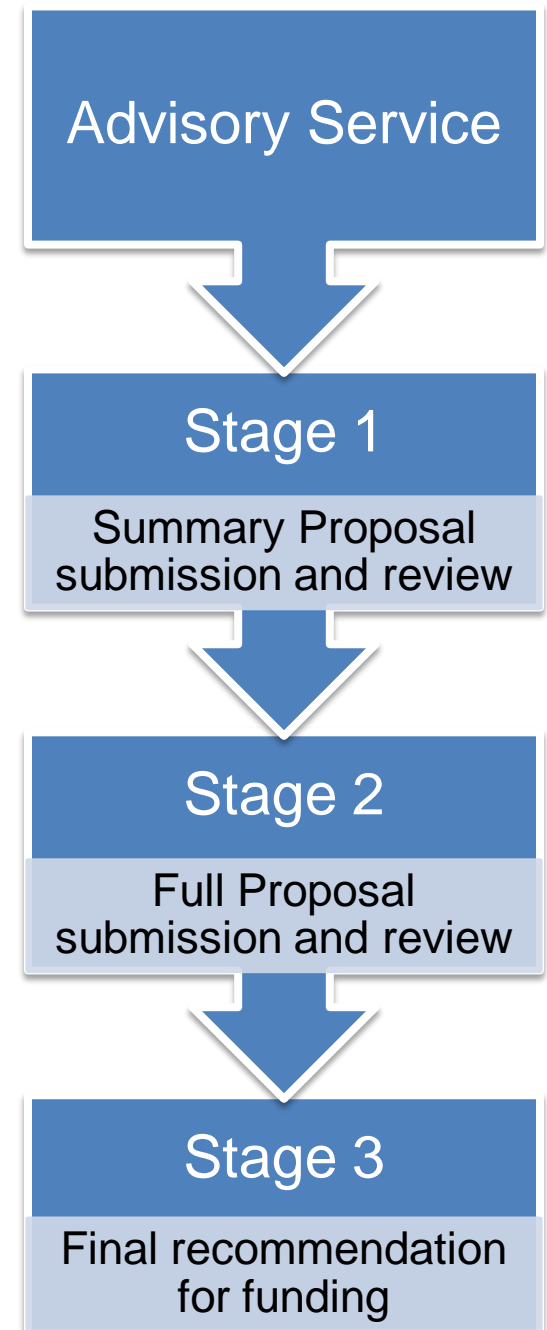
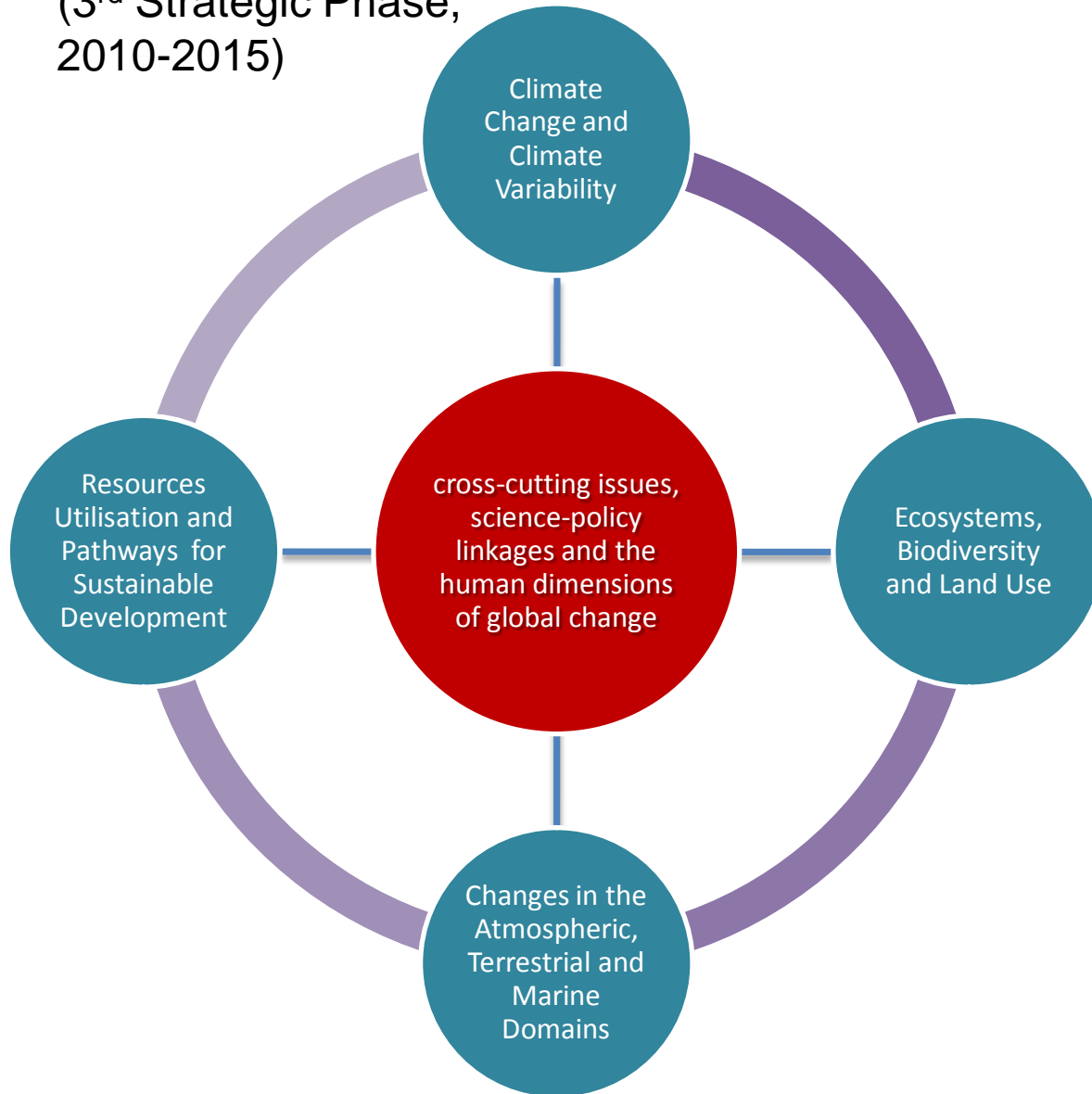
Scientific Capacity Building/Enhancement for Sustainable Development in Developing Countries

### 2013 CAPaBLE Projects

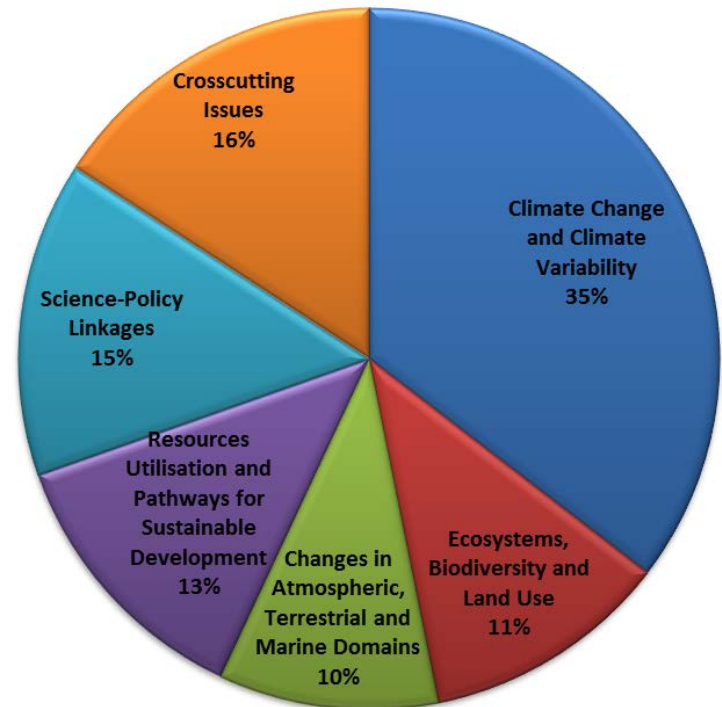
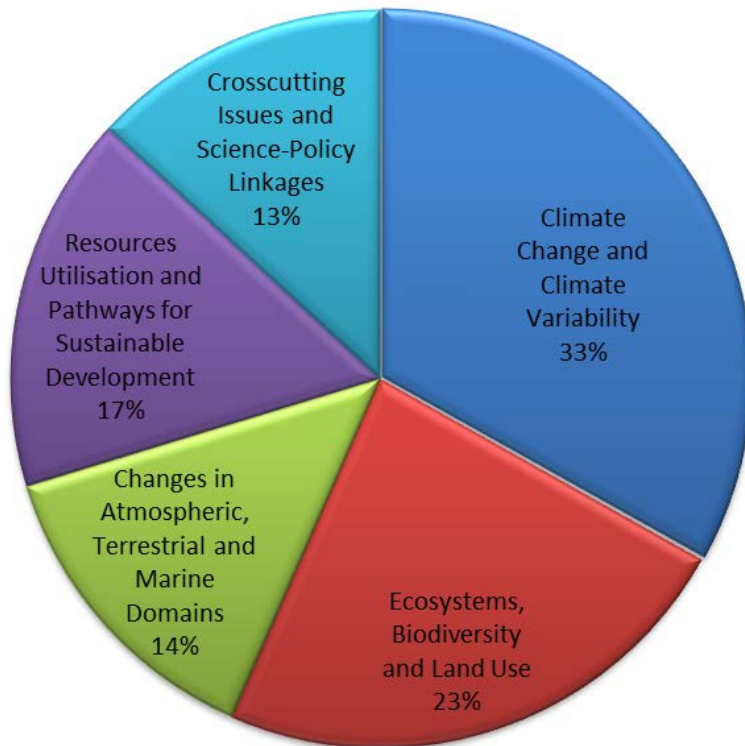


# Science Agenda

(3<sup>rd</sup> Strategic Phase, 2010-2015)

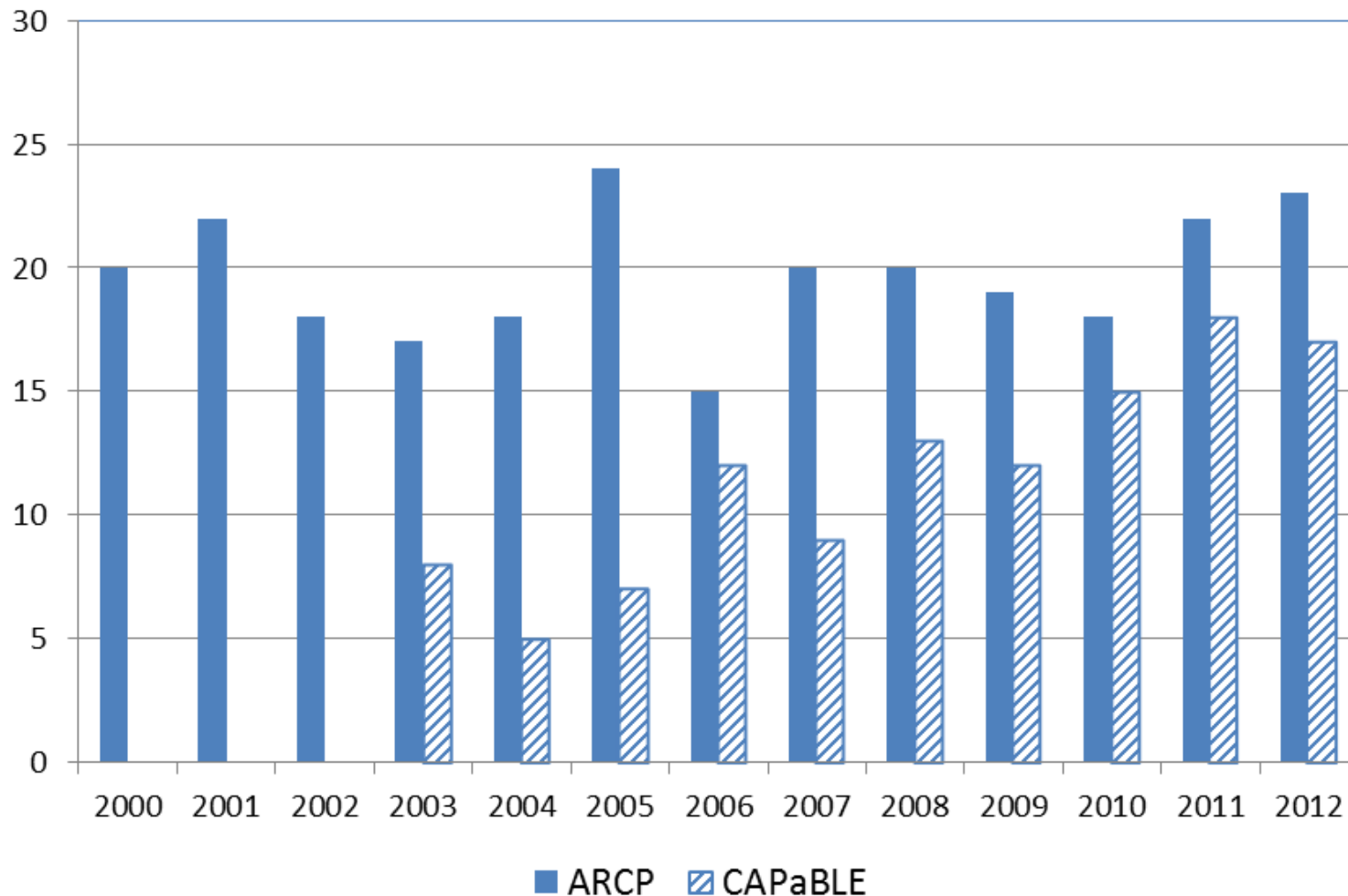


# Them distribution of APN funded activities 2008-2013 (Multiple responses)





# Trend of number of funded projects under APN core programmes





Outreach

**GET INVOLVED**

# APN and the Global Change Community

Sub-national

National

Regional

Global

Education

Science & Research

Policy





Focused Activity

# CLIMATE ADAPTATION, DISASTER RISK REDUCTION, AND LOSS & DAMAGE

# Climate Adaptation Framework

- Developed at a scoping workshop in Kobe, Japan, 2012
- Activities of high priority
  - Development of high-resolution **observational, model and downscaled datasets** that can contribute to filling data gaps
  - Sharing of **needs-oriented data**
  - **Calibration and validation** of regional climate models; and **analysis** of projections and **assessment** of uncertainties
  - Development and utilisation of **impact, vulnerability, risk and economic assessments**
  - Improvement of **communication skills** of scientists and practitioners with stakeholders
  - **Utilisation** of available information including climate data in applications for adaptation
- Partnership Development
  - ADB, ICAS-Ibaraki University, Ministry of Interior of Thailand, UNU, WCRP, ICCCAD, APCSS, CCI-ANU



UNITED NATIONS  
UNIVERSITY





# Activities undertaken

- [Scoping workshop](#) to enhance the action of APN developing country members on adaptation in the Asia-Pacific region, 20-22 August 2012, Kobe Japan
- APN-UNCECAR [Training Course](#) on Climate Change Downscaling Approaches and Applications, 9-20 November 2012, Bangkok, Thailand
- UNEP [3rd Asia Pacific Climate Change Adaptation Forum](#), 18-20 March, Incheon, ROK
  - Presentation at Panels, Booth exhibition
- [Loss and Damage](#)
  - UNFCCC workshops ; August 2012, Bangkok
  - Launch of Forum on Loss and Damage in Asia, 22 March 2013



Photo: APAN

# APN-UNCECAR Joint Training Course on Climate Change Downscaling Approaches and Applications (CCDAA) 9-2- November 2012, AIT Bangkok)

- More than 50 scientists and practitioners participated in the course. Practitioners: ministries and agencies responsible for environment, natural resources, meteorology, agriculture and forestry, land development and public work.
- Course 1, Training for downscaling methods including GIS application and modeling extreme events (1<sup>st</sup> week)
- Course 2: Parallel Sessions on floods and rice production, and session for developing communication skills between scientists and practitioners

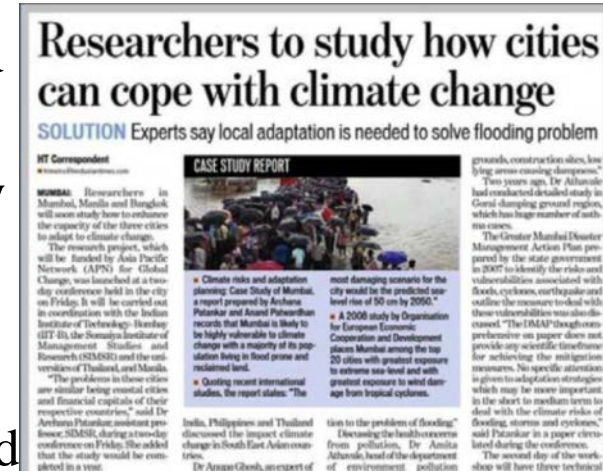


# **Example of recent APN projects related to disaster risk associated with climate change**



# Enhancing Adaptation to Climate Change by Integrating Climate Risk into Long-Term development Plans and Disaster Management, ARCP2010-09NSY-Patankar

- ❑ Project Leader: Dr. Archana M Patankara, India, collaboration with researchers from Thailand and Philippines
- ❑ Undertaking a comparative analysis of secondary data and the immediate to medium-term post-disaster recovery system in the aftermath of extreme events of flooding faced by vulnerable cities in Mumbai (India), Bangkok (Thailand) and Manila (Philippines)



- ❑ Project plans to fill gaps in research and to develop policy implications for long term investment and development plans.
- ❑ Secondary data pertaining to the selected extreme events of flooding and their resultant physical, economic, environmental and social impacts are analysed, then comparative analyses were made.

# Capacity Development on Integration of Science and Local Knowledge for Climate Change Impacts and Vulnerability Assessments (Reference: CIA2009-02-Pulhin)



- The capacity to conduct vulnerability and adaptation assessments in the Philippines is still limited, particularly with gaps in downscaling simulated scenarios and mainstreaming research findings into decision-making.
- The project trained key stakeholders in Albay on impacts, vulnerability and adaptation assessments using a computer-based modeling system (AlbayClim) and participatory approaches.

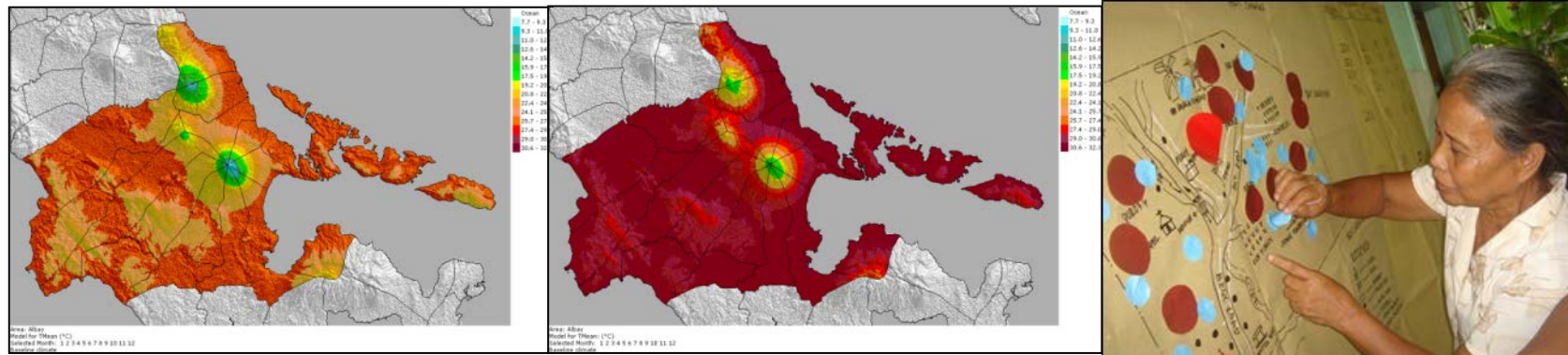


Figure 8. Results of AlbayCLIM baseline (left) and 2100 scenario (right) simulation for mean temperature. (© Project report of CIA2009-02-Pulhin)

# Concept of the Workshop



# INTRODUCTION OF THE WORKSHOP

# *Further work to address the loss and damage”*

UNFCCC/COP18 Decision: 3.(1) (a)-(f). FCCC/CP/2012/8/Add.1

- (a) Enhancing the understanding of
  - (i) The risk of slow onset events, and approaches to address them;
  - (ii) Non-economic losses and damages;
  - (iii) Impacts on most vulnerable and the approaches
  - (iv) Identify and develop appropriate approaches to address slow onset events and extreme weather events, including through risk reduction, risk sharing and risk transfer tools;
  - (v) Approaches to address impacts to be integrated into climate-resilient development processes;
  - (vi) How impacts of climate change are affecting patterns of mitigation, displacement and human mobility;
- (b)-(f) Supporting data collection, Enhancing coordination, Strengthening regional collaboration, Capacity-building, Strengthening institutional arrangements



# New Activities: Adaptation, Disaster Risk Reduction, Loss and Damage

- Earmarked financial support from Ministry of the Environment, Japan (MOEJ) since FY2013
- Enhancing the understanding of:
  - The risk of **slow onset events**, and approaches to address them;
  - **Non-economic** losses and damages;
  - Impacts on **most vulnerable** and the approaches
  - Identify and develop **appropriate approaches** to address slow onset events and extreme weather events, including through risk reduction, risk sharing and risk transfer tools;
  - Approaches to address impacts to be **integrated** into climate-resilient development processes;
  - How impacts of climate change are affecting patterns of **mitigation, displacement and human mobility**;
- Supporting data collection, enhancing coordination, strengthening regional collaboration, capacity-building, strengthening institutional arrangements



# Objective of Workshop

- **Identify and explore thematic areas** of high priority for sub-regional levels of Southeast Asia, South Asia, Temperate East Asia and Oceania.
- **Explore both economic and non-economic of Loss and Damage**, particularly areas where gaps have been identified.
- **Provide common understanding of the terminology** of Disaster Risk Reduction and Loss and Damage due to climate change impacts.
- **Empower APN developing member countries to address Loss and Damage** and conduct research and capacity development activities associated with Loss and Damage. This will allow the APN members to be involved in conducting activities and reviewing related proposals under the APN's focused activities.<sup>23</sup>

# Expected outputs

- **Increased awareness and empowerment** of APN members on issues of Loss and Damage and how they can be effectively linked to Disaster Risk Reduction and management and Climate adaptation.
- **Selected high-priority themes** for the APN Focused Calls for Activities
- **Peer-reviewed paper and/or policy brief** on Loss and Damage in Asia and the Pacific and for dissemination at COP19/SBSTA39 and other related events.
- **Gap analysis report** (linking CA with DRR and L+D) that is policy-relevant



# Key Questions (1/2)

1. What is the scientific understanding on adaptation, DRR and loss and damage? Is more needed? Are there sufficient science-policy linkages?
2. What are slow onset impacts of climate change and how can the wider stakeholder community tackle the issue?
3. What are the limitations and barriers to effective Loss and Damage reduction at local, national and sub-regional levels?
4. What challenges and opportunities lie ahead in governing adaptation from the view point of risk management?
5. What adaptation and loss and damage-related lessons can we learn from extreme events?
6. What are the limiting factors to minimizing L+D in the region and how can these factors be addressed by stakeholder, particularly from a scientific perspective?

# Key Questions (2/2)

7. How can we effectively link adaptation, DRR and L+D? What are the limitations to such approaches?
8. What kind of networking is needed to effectively cross existing barriers between adaptation, L+D and DRR communities?
9. What are the “thematic” areas of focus that could be addressed by APN and its stakeholder community, i.e. where work is needed most from a scientific perspective and from a science-policy perspective? What would be the key deliverables?
  - a. What are the technical, institutional and capacity measures needed to deal with adaptation and loss and damage? These should include economic and non-economic
  - b. What are the key factors for Urban areas, including megacities; Remote communities, including mountain and Pacific communities?
10. How can APN disseminate the key outputs of this workshop? What can we do to sustain the momentum?

# Agenda

## DAY1

9:00-9:15

1. Opening Session

9:30-12:30

2. An Introduction to Loss and Damage

12:30-13:30

Lunch

13:30-15:15

3. Disaster Risk Reduction

15:30-18:00

Field visit to Disaster Reduction Museum in Kobe

## DAY2

9:00-10:30

4. Climate Adaptation Policies & Governance: Priority &

Limitations

11:00-12:30

5. Breakout Session: Group Task1

12:30-13:30

Lunch

13:30-15:00

Group Task1 Continue

15:30-17:00

Group Task2: Presentations

18:00-20:00

Dinner Hosted by APN

## DAY3

9:00-12:30

6. Results & discussion of Breakout Sessions

12:30-13:30

Lunch

13:30-15:00

7. APN's Focused Calls for Proposals

15:30-17:00

Workshop Outputs and Closing

# Breakout Session Members

South Asia	Southeast Asia	Temperate East Asia	Pacific
Ms. Kashmala KAKAKHEL	Dr. Erna Sri ADININGSIH	Prof. Wenjie DONG	Mr. David HEBBLETHWAITE
Mr. S. H. KARIYAWASAM	Prof. Kanayathu KOSHY	Prof. Nobuo MIMURA	Dr. W. Andrew MATTHEWS
Dr. Archana PATANKAR	Dr. Veasna KUM	Dr. Soojeong MYEONG	Mr. Timothy WILCOX
Mr. Harjeet SINGH	Prof. Joy Jacqueline PEREIRA	Dr. Jane E. ROVINS	Dr. Luis M. TUPAS
Dr. Daisuke SANO	Prof. Juan M. PULHIN	Ms. Yuko HOSHINO	Dr. Kees van der GEEST
Mr. Rahman HAMID	Ms. Erin Louise ROBERTS	Ms. Anna HASEMANN	Ms. Diane McFADZIEN (via Skype if possible)

Facilitators (green)

**Thank you!**