



# **Asia-Pacific Network for Global Change Research**

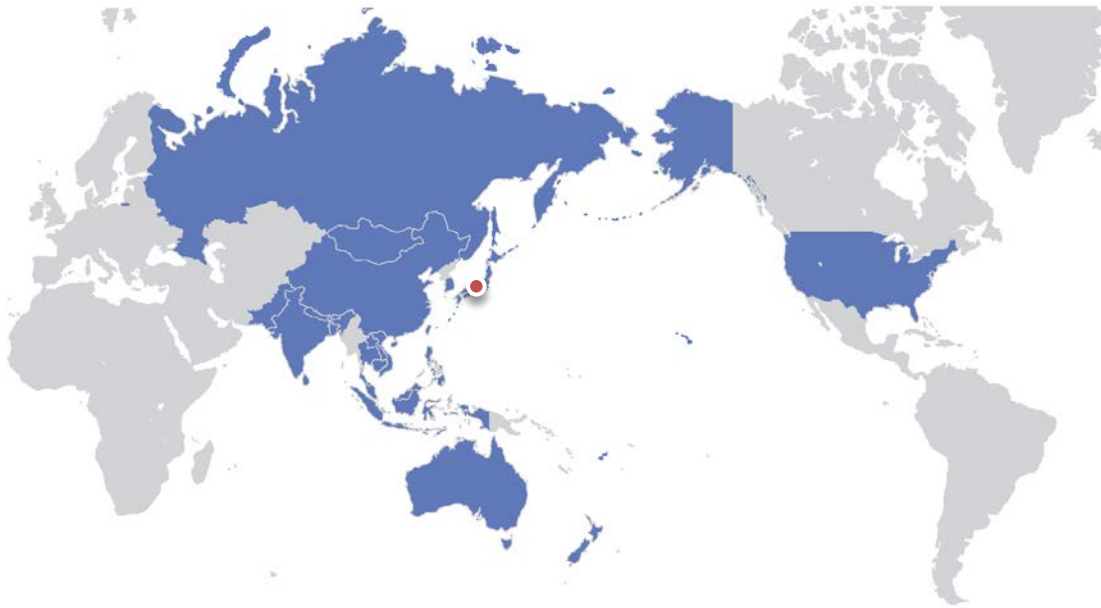
& Highlights of Activities 2013-14



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



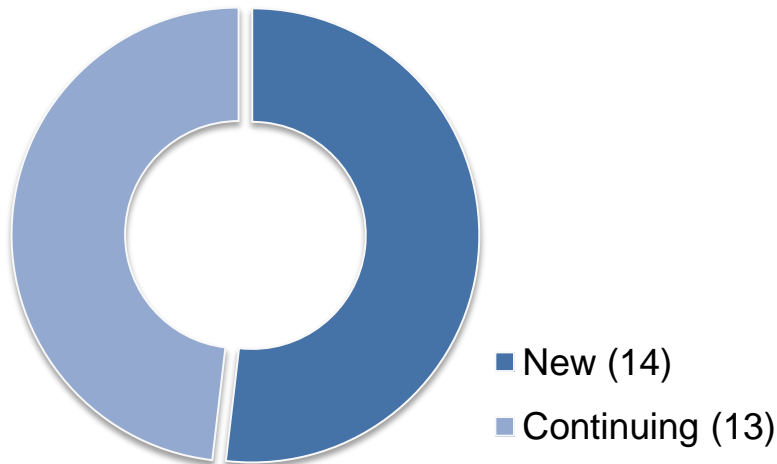
Core Activities

# ARCP AND CAPaBLE



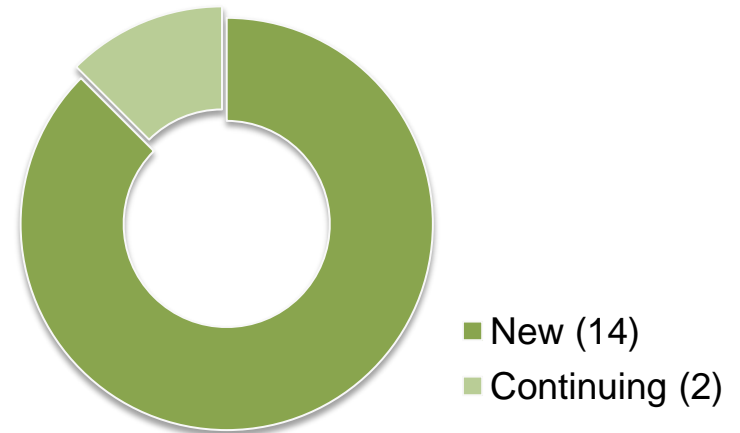
Annual Regional Call for Research Proposals

### 2013 ARCP Projects



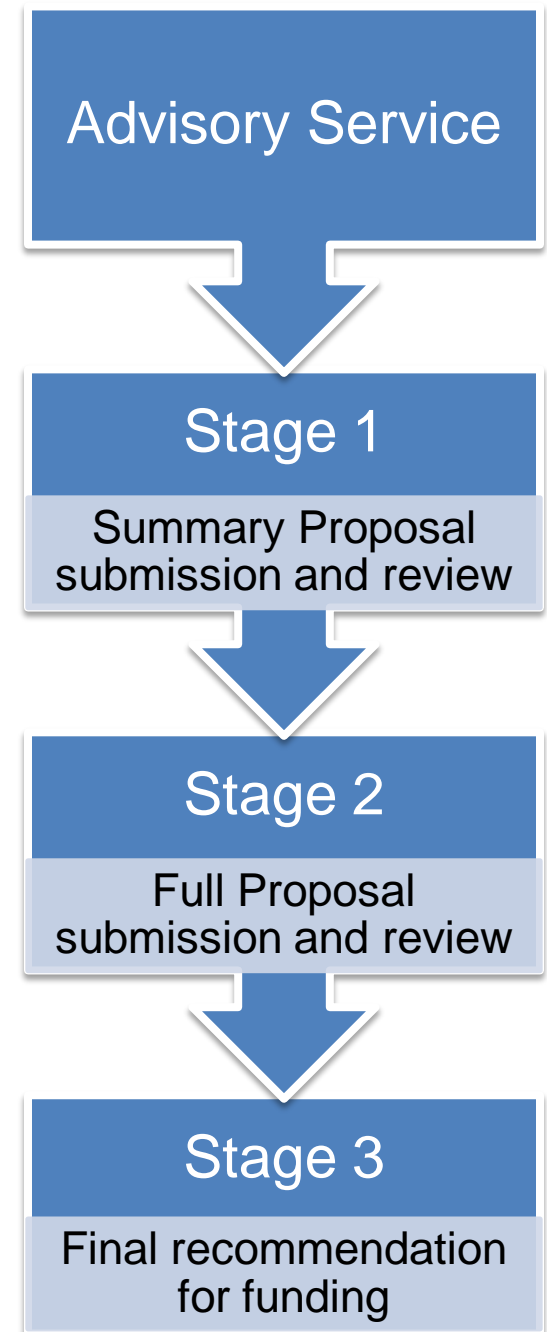
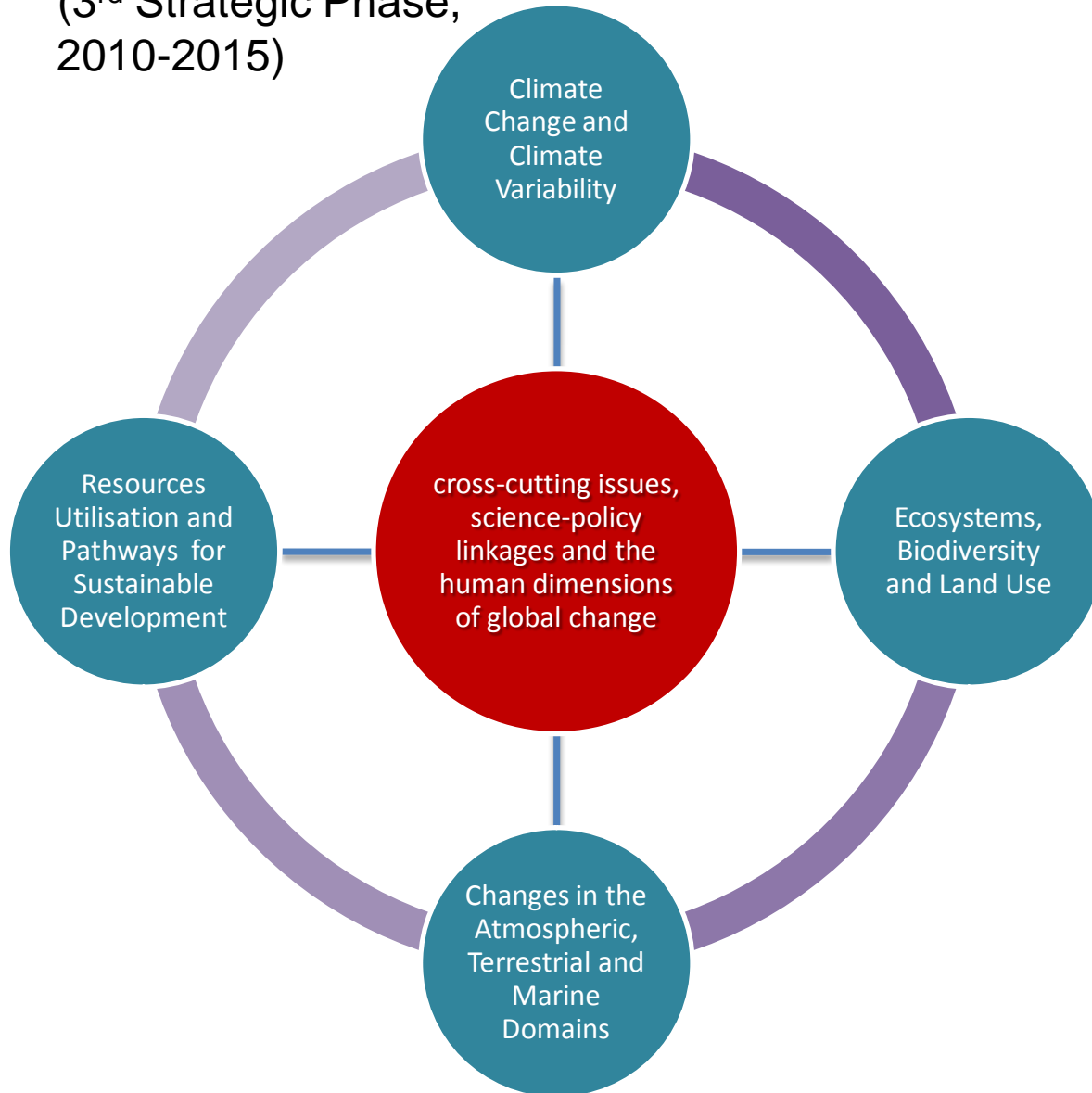
Scientific Capacity Building/Enhancement for Sustainable Development in Developing Countries

### 2013 CAPaBLE Projects



# Science Agenda

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



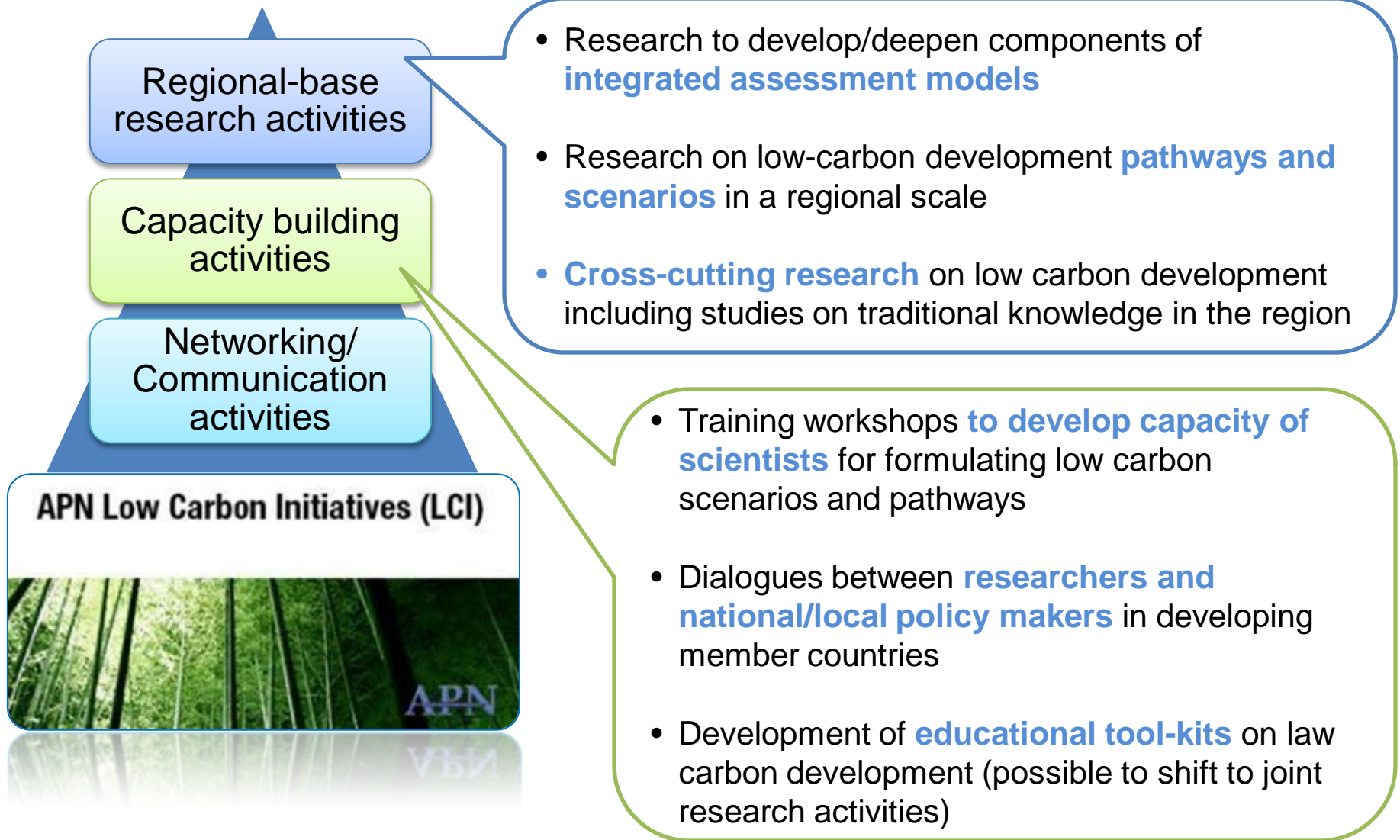




Focused Activity

# LOW CARBON INITIATIVES

# Low Carbon Initiatives Framework



# Low Carbon Initiatives Framework

- **Call for Expressions of Interest for a Focussed Activity on Low Carbon Initiatives (LCI)** launched on 9 July 2012.



- Under the LCI Framework as a networking and communications activity, APN is also collaborating with the **International Research Network for Low Carbon Society (LCS-RNet)** in promoting research networks in the region.



	Project Reference	Title
<b>Capacity Building</b>	LCI2012-01NSY(C)-Maeda	Capacity Building for Implementing a “Measurable, Verifiable and Reportable (MRV)” Model in a Mid-Sized Thai Municipality
	LCI2012-02NSY(C)-Guerrero	Strengthening Community Voices In REDD+ Policy
<b>Regional Research</b>	LCI2012-01NMY(R)-Lakshmi(Nagrath)	Identification of Policy and Institutional Gaps, Drivers and Strategies to Scale-up Low Carbon and Energy Efficient Technology Application in the Construction and Infrastructure Sectors in South Asia
	LCI2012-02NMY(R)-Dhakai	Understanding and Quantifying the Water-Energy-Carbon Nexus for Low Carbon Development in Asian Cities
	LCI2012-03NMY(R)-Lopez	Assessment of Carbon Sequestration through Vermitechnology in Organic Farming
	LCI2012-04NMY(R)-Macandog	Integrated Sustainability Assessment of Bio Energy Potentials in Asia: an Application of a Hybrid Approach on Trade-offs and Pathway
	LCI2012-05NMY(R)-Jupesta	Low Carbon Urban Infrastructure Investment: Cases of China, Indonesia, and Japan



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



# 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

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

- Earmarked financial support from Ministry of the Environment, Japan (MOEJ), aiming at Contribution to NFCCC/COP19
- 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







Focused Activity

# **BIODIVERSITY AND ECOSYSTEMS SERVICES FRAMEWORK**

# B&ES Opportunity Paper

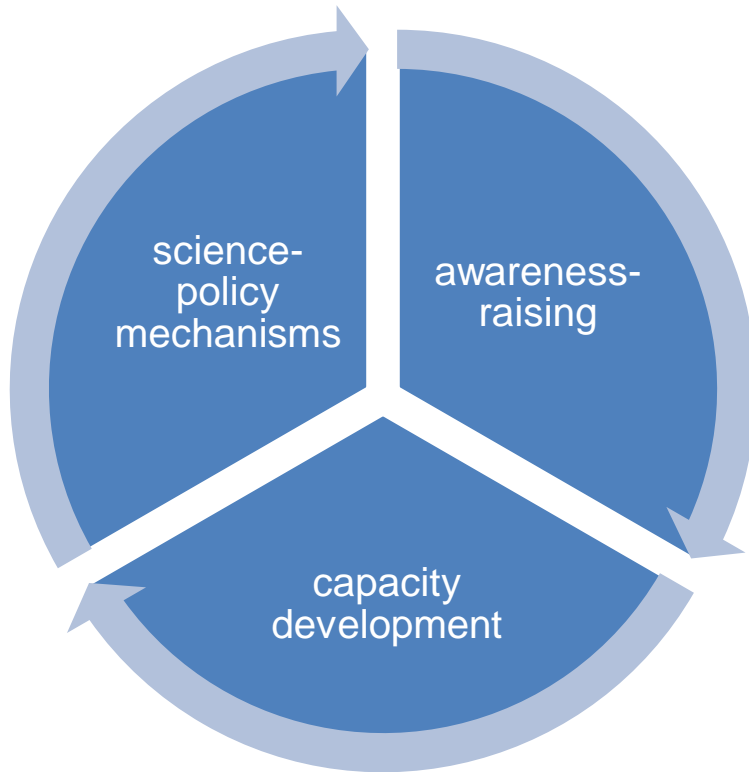


- **Inviting stakeholders to propose and engage** in collaborative activities with the APN in key thematic areas under its framework for biodiversity and ecosystem services

- Identification of **drivers and pressures** for biodiversity change that influence ecosystem services
- Assessment of the **impacts** of biodiversity loss and **vulnerability** to the shrinking of ecosystem services
- Prediction of changes in biodiversity and ecosystem services through **model-based scenarios**
- **Adaptation, response and mitigation** of the depletion of biodiversity and ecosystem Services



# Emphasis on Science-Policy Interaction



Science-Policy is emphasised:  
Links with IPBES, UNFCCC;  
UNCBD; Rio+20 etc.





# COLLABORATION WITH HYOGO PREFECTURAL GOVERNMENT

# Joint Activities (2012/13)

Scoping workshop to enhance the action of APN developing country members on adaptation in the Asia-Pacific region

- **Outcome: Formulation of APN Adaptation Framework**

APN, DIVERSITAS, Hyogo, IHDP and UNU-ISP two-year project, “Building Resilience with Common Capital”

- **Outcome: A policy paper which provides guidance for enhancing community resilience through the establishment and/or “New Commons” landscapes**

APN-IGES-Hyogo Symposium on Low Carbon Society in Asia through Dissemination of Renewable Energy Technology

- **Provided the latest information on renewable energy technologies that are introduced in Japan and Asian developing countries to the public, and to exchange views among participants on gaps, lessons**





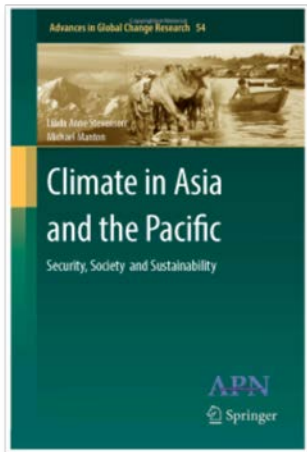
Outreach

**GET INVOLVED**





# Recent/Upcoming Publications



## Climate in Asia and the Pacific: Security, Society and Sustainability

- 31 authors from the global change community;
- To be published in mid 2013;
- Main chapters:
  - Climate change & climate variability;
  - Urbanisation;
  - Security: food, water, energy;
  - Society: governance, remote communities, human health;
  - Sustainability: energy, ecosystems services.



## Synthesis and evaluation



## Science Bulletin



## Policy Briefs



## APN E-Lib:

Archive of publications, completed/ongoing project metadata and outputs

[www.apn-gcr.org/resources](http://www.apn-gcr.org/resources)

# For more information...



## APN Website:

News, announcements and global change community updates

<http://www.apn-gcr.org/>



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**Thank you!**