

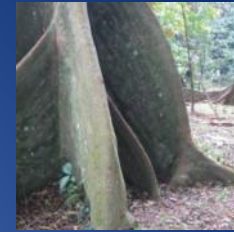
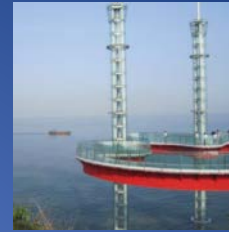


Regional capacity development: new opportunities on adaptation

Dr W. Andrew Matthews
Steering Committee

Asia-Pacific Network for Global Change Research (APN)

38th Session of the Subsidiary Body for Science & Technological Advice (SBSTA) – Research Dialogue
4 June 2013, 15:00-18:00, Plenary II, Hotel Maritim, Bonn



Overview

WHAT IS APN?

APN - an inter-governmental network of 22 countries in the **Asia-Pacific to foster global change research in the region.**

- Established **1996**
- Secretariat in **Kobe**, Japan since 1999
- Financial contribution from four donor countries: **Japan, USA, Republic of Korea and New Zealand**



Ministry for the
Environment
Kawata Mo Te Tino

APN Goals

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



OUTLINE

APN Activities Relevant to the Convention

1. Upcoming Publication: Springer Book: Climate in Asia and the Pacific: Security, Society and Sustainability
2. Selected Research Activity related to Terrestrial Ecosystems: Rapidly Changing Greenhouse Gas Budgets of South and Southeast Asia: A 3-year collaborative research activity. **(SEE PAPER)**
3. New projects under APN's Low Carbon Initiatives Framework for Developing Countries in the Asia-Pacific Region (New)

New Opportunities for Developing Countries

1. APN's Climate Adaptation Framework for Developing Countries in the Asia-Pacific Region
2. APN's Biodiversity & Ecosystem Services Framework: Opportunity Paper
3. Science-Policy Dialogues in the Asia-Pacific Region

New Activities (2013/14)

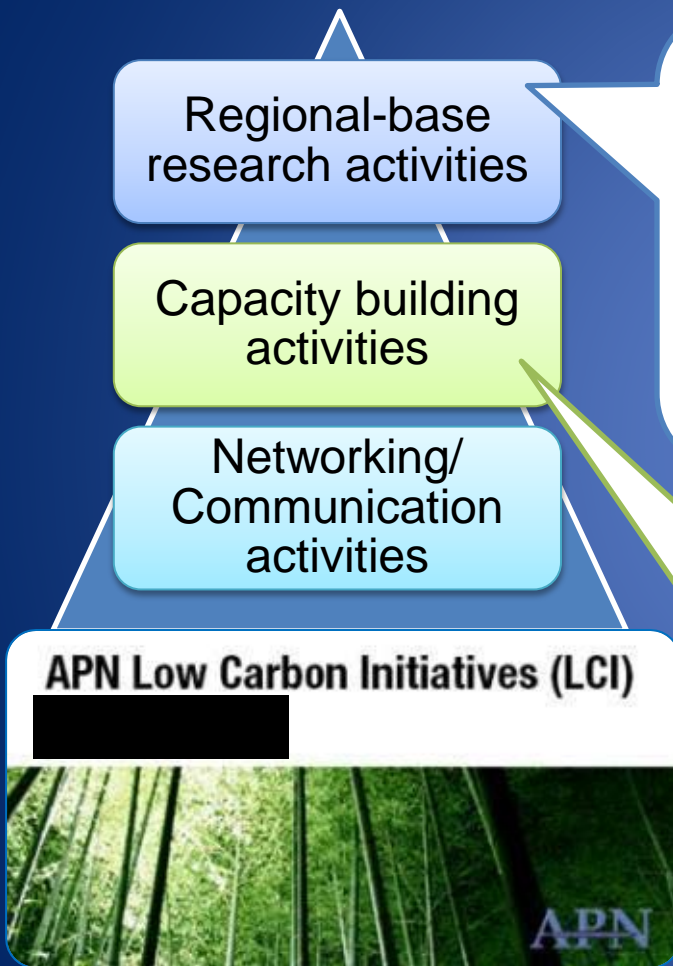
- Focused activities:
 - Low Carbon Initiatives framework
 - Climate Adaptation framework
 - Biodiversity and Ecosystem Services framework
- Promoting science-policy dialogue and strengthening sub-regional cooperation



Low Carbon Initiatives Framework

LOW CARBON INITIATIVES

Low Carbon Initiatives Framework



- Research to develop/deepen components of **integrated assessment models**
- Research on low-carbon development **pathways and scenarios** in a regional scale
- **Cross-cutting research** on low carbon development including studies on traditional knowledge in the region

- Training workshops **to develop capacity of scientists** for formulating low carbon scenarios and pathways
- Dialogue between **researchers and national/local policy makers** in developing member countries
- Development of **educational tool-kits** on legal frameworks relating to lower carbon



Climate Adaptation Framework

CLIMATE ADAPTATION

Climate Adaptation Framework

- Developed at scoping workshop in Kobe, Japan, 2012
- Activities of high priority
 - Development of high-resolution **observational, model and downscaled datasets** 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



NEW ACTIVITIES: ADAPTATION, DISASTER RISK REDUCTION, LOSS AND DAMAGE

1. Financial support from Ministry of the Environment, Japan (MOEJ)
2. Enhancing the understanding of:
 - The risk of **slow onset events**, and approaches to address them;
 - **Non-economic** losses and damage;
 - Impacts on the **most vulnerable** and the possible 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**;
3. Supporting data collection, enhancing coordination, strengthening regional collaboration, capacity-building, strengthening institutional arrangements

Focused activities on adaptation, disaster risk reduction, loss and damage

1. **August 2013:** Communication - a series of expert workshops on Climate Adaptation Framework, Disaster Risk Reduction and Loss & Damage
2. **September 2013**
 - Regional research: Call or proposals
 - Capacity development: Call for proposals
3. New activities selected and begin:
March 2014.

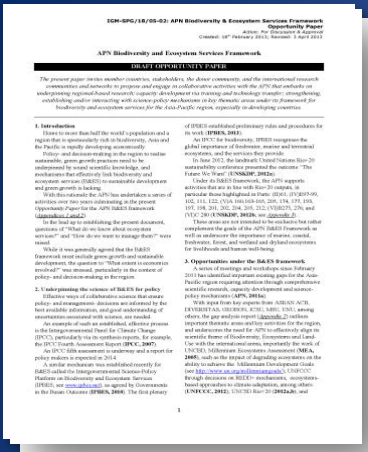




B&ES Framework

BIODIVERSITY AND ECOSYSTEMS SERVICES

B&ES OPPORTUNITY PAPER

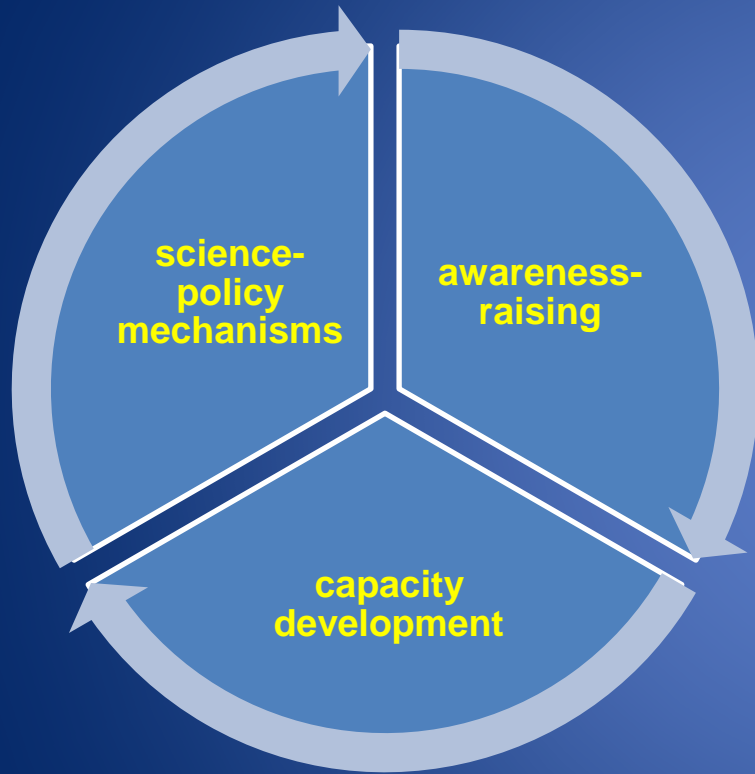


Inviting stakeholders to propose and engage in collaborative activities with the APN in key thematic areas under its framework for biodiversity and ecosystem services

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



EMPHASIS ON SCIENCE-POLICY INTERACTIONS



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



KEY MESSAGES from Science - Policy Dialogue: Bangkok, July 2012

1. The need for **solution-oriented knowledge and information that can lead to action**
2. **Risk management** to deal with uncertainty
3. Importance of **local champions in the policy sector** - linked to building trust
4. **Action-oriented** research – augmenting traditional research
5. **Risk-sharing** through market-based mechanisms should be encouraged
6. **Local knowledge** could be combined with scientific knowledge to shape policies.

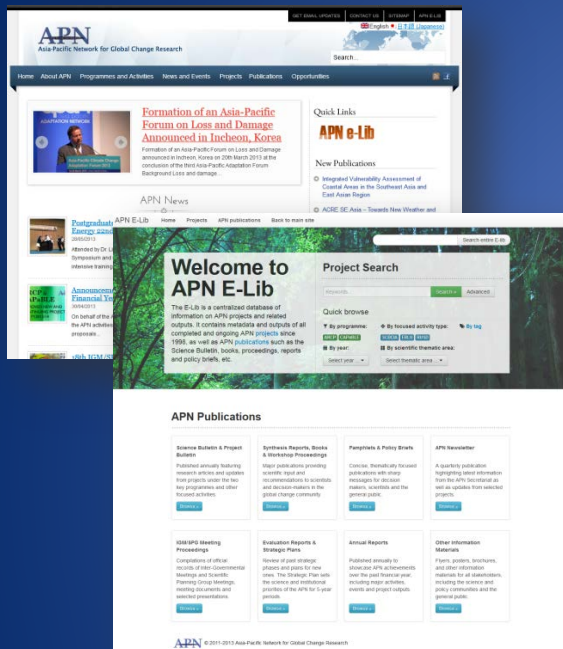


Full report available at
<http://www.start.or.th/apn/science-policy-dialogue-on-challenges-of-global-environmental-change-in-southeast-asia/>

SUSTAINING the **Science-Policy** momentum.....

1. The first Southeast Asia SPD in 2012 was deemed a success. **Sustaining the momentum** is key question.
2. **2014 South Asia SPD** in collaboration with South Asia START regional centre
3. **2015 East Asia SPD** in collaboration with Temperate East Asia START regional centre
4. **2016 Synthesis of 3 Sub-Regional Science-Policy Dialogues**
 - Results brought to a 2016/17 SPD in Kobe, Japan

For more information...



APN Website:

News, announcements and global change community updates

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

APN E-Lib:

Archive of publications, completed/ongoing project metadata and outputs

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



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