

# APN: Bridging disciplines, linking science and policy for resilience & sustainability

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**Asia-Pacific Network for Global Change Research (APN)**

World Climate Research Programme (WCRP) Joint Scientific Committee 34<sup>th</sup> Session  
27-31 May 2013 , Brasilia, Brazil



# Outline

- Overview of APN; its niche in the GC community
- APN collaboration with WCRP
- New developments:
  - APN Climate Adaptation Framework
  - New publication: APN Climate Book
  - Science-Policy Dialogues
- APN and Future Earth

# What is the niche of APN?

## First: APN as a funding agency

- **Financial resources:** Japan, USA, RoK, New Zealand
- **Funding mechanism:**
  - Annual calls: ARCP, CAPaBLE
  - Special calls: (EBLU, RUSD, LCI ... )
- **Eligibility:**
  - Individuals and institutions in 22 countries in the Asia-Pacific region
  - Secretariats and IPOs of the GEC Programmes
  - Approved countries (Singapore, PICs, Myanmar, Maldives)

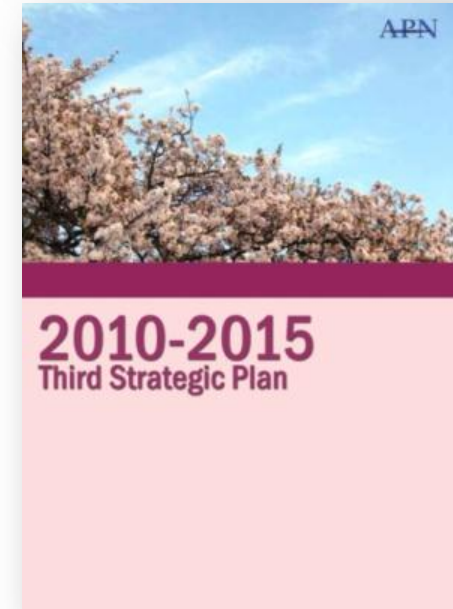
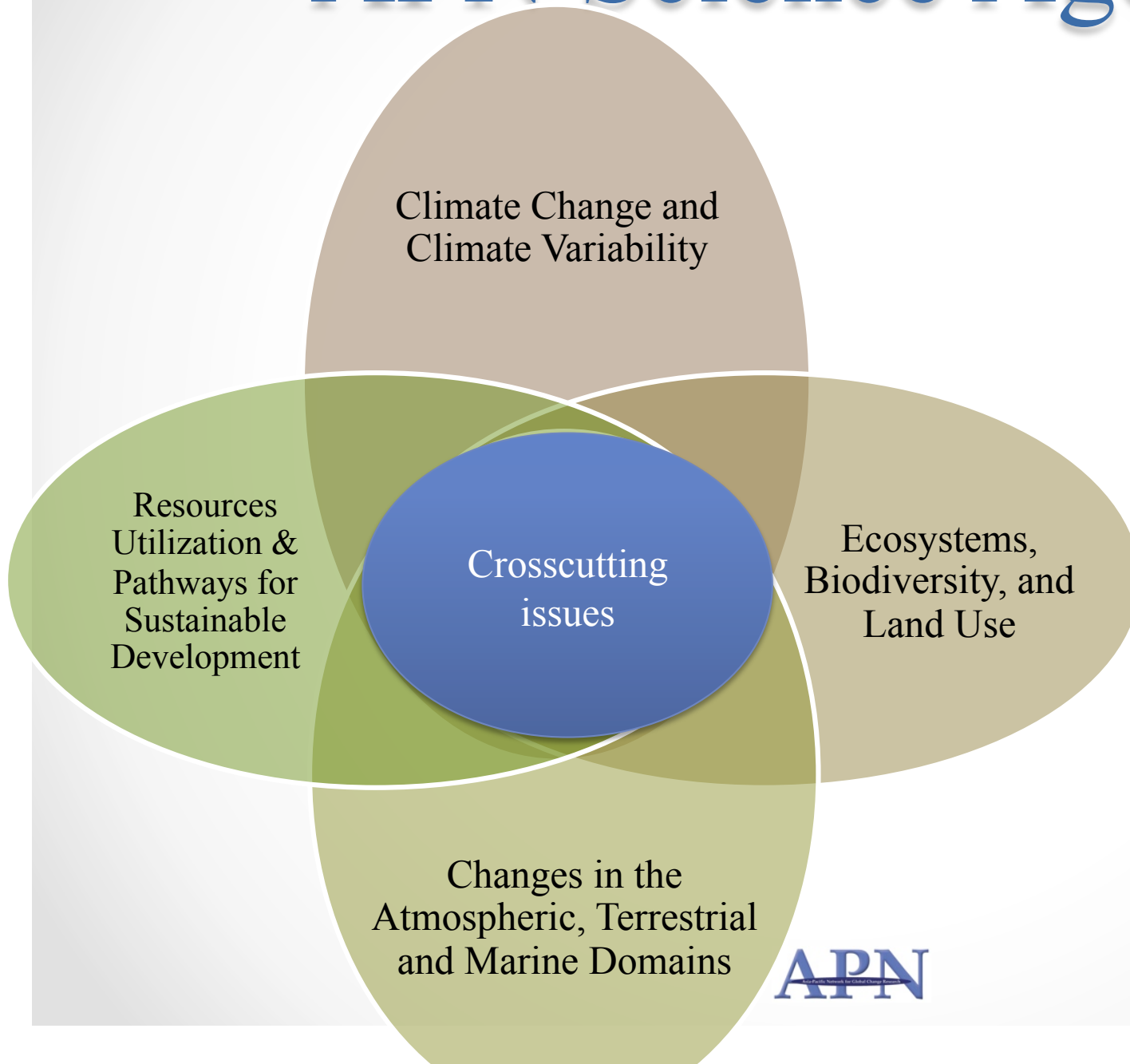


# What is the niche of APN?

## Second: APN is more than a funding agency

- A network of 22 member countries with representation from **policy and science** communities;
- Linking scientists across disciplines, creating science-policy interfaces;
- Capacity-building for young/early career scientists
- Strategic Goals to 2015:
  - Goal1 : supporting regional cooperation in global change research
  - Goal2: strengthening interactions among scientists and policy makers
  - Goal3: Improving scientific and technical capabilities
  - Goal4: Cooperating with other global change networks and organizations

# APN Science Agenda



# APN and WCRP

**...in past 12 months to next 3 years and beyond....**

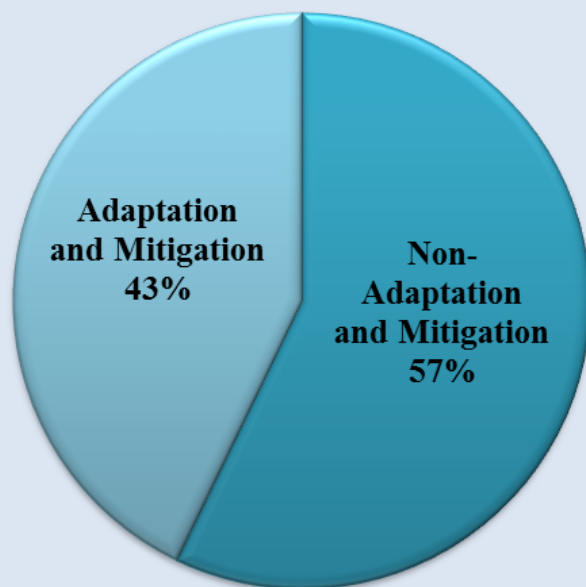


- **Human Link:** Professor Goswami is (was?) JSC Member & APN SPG Member has strong links with IITM, Pune.
- August 2012: WCRP key to developing our **Climate Adaptation Framework**.
- January 2013: WCRP involvement in our book on **Climate in AP: Security Society and Sustainability**.
- April 2013: WCRP participated in our Inter-governmental Meeting – particularly highlighted links with APN, Future Earth with the **Global Framework on Climate Services....**
- November 2013: **CORDEX** – Brussels Conference supporting **early career scientists...**
- **CORDEX** – headed by Mike Manton – developing CORDEX at sub-regional levels in Asia – **South Asia; Southeast Asia and East Asia**

# Initiation of Climate Adaptation Framework

## Adaptation & Mitigation

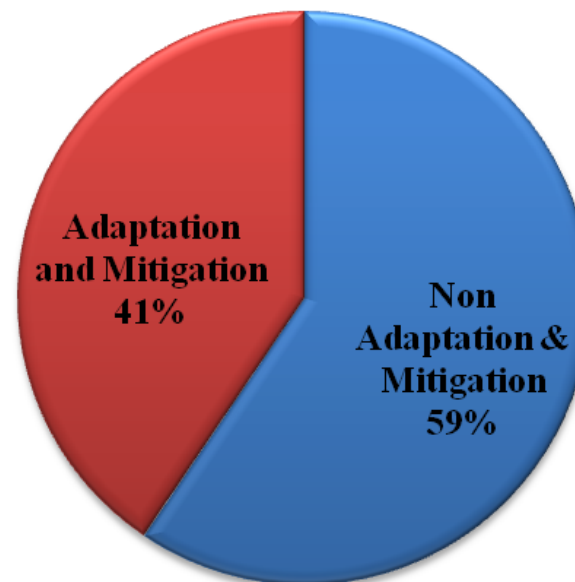
**CAPaBLE Projects 2011-2013**



Capacity Building  
Activities

**Regional Research  
Activities**

**ARCP Projects 2011-2013**



# Climate Adaptation Framework (CAF)

- **Background:**

- Scoping Workshop to Enhance the Climate Adaptation Actions of APN Developing Countries (August 2012)
- Recommended that APN establish a multi-year strategic programme focusing on climate adaptation from FY2013





# Climate Adaptation Framework (CAF)

- Development of high-resolution observational, model and downscaled data sets that can contribute to **filling data gaps**;
- Sharing of **needs-oriented** data;
- Calibration and validation of **RCMs**; and analysis of projections and assessment of uncertainties;
- Development and utilization of impact, vulnerability, risk and economic **assessments**;
- Improvement of **communication skills** of scientists and practitioners with stakeholders, including local government, community, private sector and civil society, for encouraging **policy makers** to formulate and implement adaptation plans based on the latest scientific knowledge;
- Utilization of available information including **climate data** in applications for adaptation;

# Proposed New Activities: Focused activities on adaptation, disaster risk reduction, loss and damage (CAF-DRR-L&D)

**US\$780,000**

- I. **August 2013:** Communication - a series of expert workshops on CAF-DRR-L&D
- II. **September 2013**
  - Regional research: Call or proposals
  - Capacity development: Call for proposals
- III. New activities selected and begin: **March 2014.**

# CAF-DRR-L&D Thematic Criteria

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

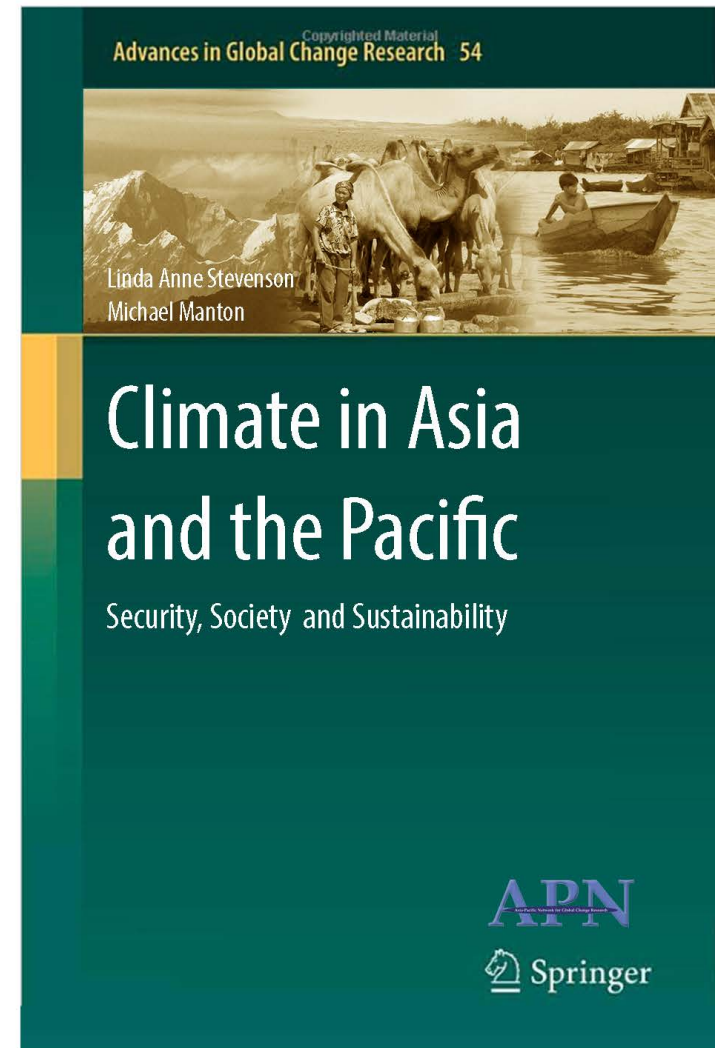
## **(a) Enhancing the understanding of**

- i. The **risk of slow onset events**, and approaches to address them;
- ii. Non-economic losses and damages;
- iii. **Impacts** on most vulnerable
- 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

# APN Climate Book

- *Climate in Asia and the Pacific: Security, Society and Sustainability*
- Follow-up of Synthesis Report (synthesizing 56 climate-related projects)
- Explaining the **current status** of climate change and climate variability in the Asia-Pacific region; **future directions** in the area and overarching issues; **CORDEX** is highlighted...
- Manuscript submitted; expected to be published by mid-2013



# APN Climate Book

**Chapter 1: Introduction**, Michael Manton

**Chapter 2: Climate Variability and Change**, Michael James Salinger, Madan Lall Shrestha, John L. McGregor, Ailikun, Wenjie Dong, Shuyu Wang

**Chapter 3: Climate and Urbanization**, Richard Cooper, Louis Lebel, Peter Marcotullio

**Chapter 4: Climate and Security**, Tony Falkland, James Hansen, Lance Heath, Kejun Jiang, Yasuko Kameyama, Michio Kishi, Holger Meinke, Katherine Morton, Elena Nikitina, Michael James Salinger, P.R. Shukla, Ian White

**Chapter 5: Climate and Society**, Jariya Boonjawat, John Campbell, Kristie Ebi, Kanayathu Koshy, Hina Lotia, Linda Stevenson, Ruben Zondervan

**Chapter 6: Climate and Sustainability**, Kejun Jiang, Yasuko Kameyama, Rodel Lasco, Linda Peñalba, Juan Pulhin, P.R. Shukla, Suneetha Subramanian

**Chapter 7: Future Directions for Climate Research in Asia and the Pacific**, Michael Manton and Linda Anne Stevenson

# Science-Policy Dialogues (SPD)

- APN engaged in its **first SEA Science-Policy Dialogue (SPD)** with START in July 2012
  - Scientists, policy makers, practitioners, media
  - climate change vulnerability and impacts; disaster risks; and strategies for adaptation



# Some Key Messages from the SPD

- The need for **solution-oriented knowledge and information that can lead to action**
- **Risk management** to deal with uncertainty
- Importance of **local champions in the policy sector**..linked to building trust
- **Action-oriented** research...moving away from traditional research
- **Risk-sharing** through market-based mechanisms should be encouraged
- **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/>

A policy brief has been published based on the workshop report.

# Science-Policy Dialogues

- The first Southeast Asia SPD in 2012 was deemed a success. **Sustaining the momentum** is key question.
- **2014 South Asia SPD** in collaboration with South Asia START regional
- **2015 East Asia SPD** in collaboration with Temperate East Asia
- **2016 Synthesis of 3 Sub-Regional Science-Policy Dialogues**
  - Results brought to a 2016/17 SPD in Kobe as a potential Hyogo-based activity (this idea needs further consideration and development).



# Future Earth and the APN

- Why is APN closely following the development of Future Earth
  - Focus is Global Environmental Research
  - Encompasses all existing (and former) GC programmes
  - Multi/Trans/Interdisciplinary in nature with strong focus on regional-based research (in a global context), policy-science interactions and capacity development
- APN actively contributed to the first workshop through
  - Co-funding; Organizing committee; Selection of participants
  - Co-chairing sessions, participating in breakout sessions and panel members.
- APN and Future Earth:
  - APN remains interested in the development of Future Earth in the region and is collaborating with ICSU-ROAP to ensure synergy and assist its development in the Asia-Pacific region.

## Successfully addressing regional-level climate issues in the Asia-Pacific region requires some basics

- **Understanding:** regional and cultural diversities that exist in the region; traditional knowledge is powerful (west-knows-best practices are too common one size does not fit all)...
- **Educating:** providing better opportunities for young (early career) scientists through training; engaging youth especially in social networking...
- **Creating:** opportunities for informal dialogues with stakeholders at sub-regional levels (addressing common issues, builds trust sense of ownership and less intimidating)...
- **Engaging:** in activities that involve all stakeholders and engaging in and listening to those who are most at risk...
- **Sharing and communicating:** the most important factor across the region is the human factor: sharing information, data, transferring knowledge, experiences and best practices...

# Imminent Opportunity



**2013 Annual Calls for Proposals  
will be launched in mid-June**

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# Thank you



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# APN and MAIRS

- **Dryland Development Paradigm (DDP)** Application for the Most Vulnerable to Climate and Land Use Change of Pastoral Systems in the Southern Khangai Mountains of Mongolia (DDPPaS) [CBA2009-12NMY-Togtohyn]
- Building Asian Climate Change Scenarios by **Multi-Regional Climate Models Ensemble** [ARCP2011-01CMY-Wang]
- Intercomparison of Landsurface Process Modelling at Asian Drylands [ARCP2011-03CMY-Asanuma]
- Development of an **Integrated Climate Change Impact Assessment Tool for Urban Policy-Makers** (UrbanCLIM) [ARCP2011-08FP-Li]
- Capacity Building to Study and Address **Climate Change-Induced Extremes in Northern Asia**. [CBA2012-16NSY-Gordov]
- Supporting the **MAIRS Open Science Conference** in March 2014