



APN Activities on Climate Change Adaptation & Overview of CCA-DRR-L+D Special Call for Proposals

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30-31 August 2013

OUTLINE

- **BRIEF INTRODUCTION**
- **10 YEARS OF CLIMATE ADAPTATION**
- **SCIENCE-POLICY DIALOGUES**
- **OPPORTUNITIES: FOCUSSED CALL FOR PROPOSALS**
- **KEY MESSAGES**



Brief Introduction

BRIEF INTRODUCTION



As an Intergovernmental network of 22 countries, the Asia-Pacific Network for Global Change Research recognizes and stresses the importance of climate change impacts in the Asia-Pacific region.

- Climate Change and Variability is 1 of APN's 4 research themes
- 2012 and 2013:
 - Climate Adaptation Framework;
 - Springer Book on Climate in Asia and the Pacific: Security, Society & Sustainability
 - Special Focussed Call on CCA-DRR-L+D.



10 years of Climate Adaptation

10 YEARS OF CLIMATE ADAPTATION

The screenshot shows a web browser window with the URL http://www.apn-gcr.org/resources/items/browse?search=adaptation&collection=2&submit_search=Search. The page title is "APN Projects — Metadata (64 total)". The word "Adaptation" in the search criteria is highlighted in red, and a red arrow points from the circled page title to it, with the text "Adaptation in the title!!" written in red. The page displays a list of projects, including "CBA2013-10NSY-Visco" and "ARCP2007-15-NSY". The browser's address bar shows the URL, and the taskbar at the bottom displays various application icons.

http://www.apn-gcr.org/resources/items/browse?search=adaptation&collection=2&submit_search=Search

CAPaBLE PROGRAMME

...COMPREHENSIVE RESEARCH...the beginning.....

Phase I: ran from April 2003 to March 2006 and focused on Climate Change Adaptation and Mitigation

Phase II: ran from April 2006 to March 2009 and focused on Water and Food Security

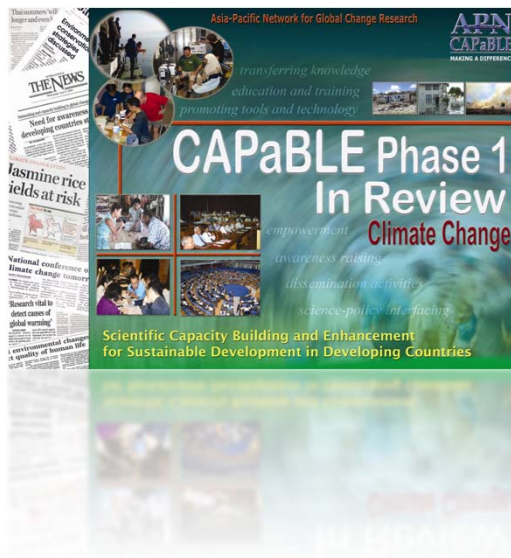
Phase III: from April 2009 to March 2012 and focused on Climate Change Impacts, Adaptation and Vulnerability

Most recent: Pereira (Malaysia) and Prabhakar (Japan)

Strengthening Capacity for Policy Research on Mainstreaming Adaptation to Climate Change in Agriculture and Water Sectors – see our metadata portal for information on this

Scientific Activities – Vulnerability, Impacts & Adaptation – clearly became a focus for APN in 2004

Capacity Development and Research in Climate Change under CAPaBLE Phase I



A review in 2008 highlighted that the CAPaBLE Programme had:

- Trained over 300 scientists
- Raised awareness of over 4000 people
- Published over 50 peer-reviewed papers

“In Review” highlighted CAPaBLE as
Policy relevant, conducting underpinning research,
developing capacity, creating partnerships, raising
awareness, promoting sustainable societies.

Climate Change Challenges that we took to UNFCCC/SBSTA28/30 (2008/9)

- Climate change is the foremost concern particularly **vulnerabilities, impacts and adaptation**
- **lack of human & institutional capacity** & limited financial resources are the main challenges in implementing climate research
- **mainstreaming** climate research results into national policy

Sectors Most at Risk

Agriculture, Water (floods, drought, security), Forests, Coastal zones, Mangroves, Maritime resources, etc



mainstreaming adaptation strategies most challenging

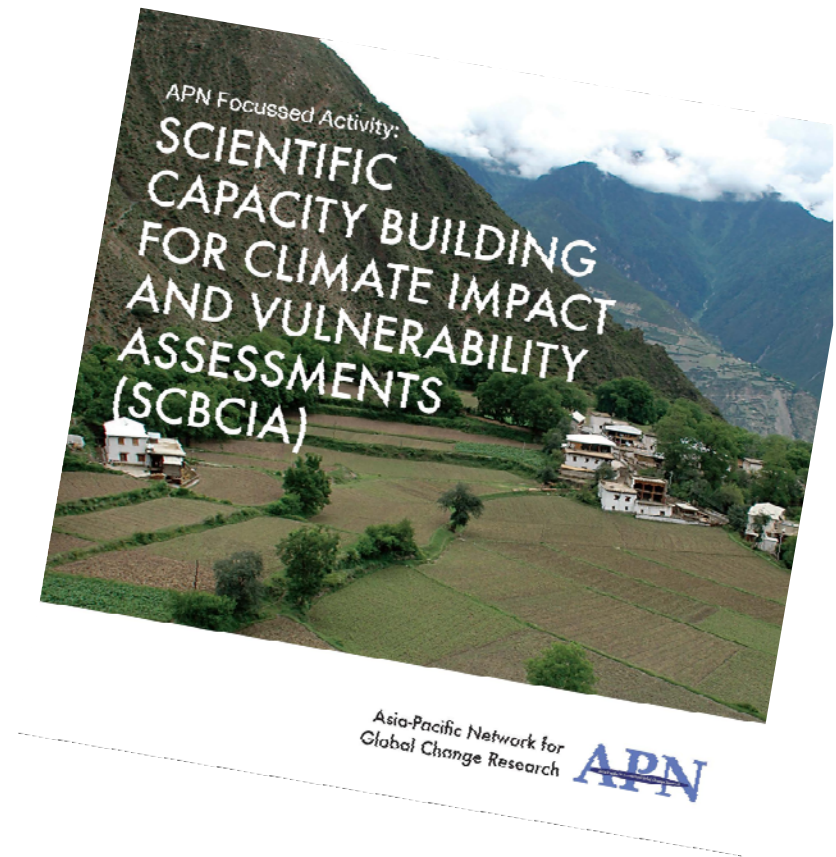


2009: APN's Response

Scientific Capacity Building for Climate Impact and Vulnerability Assessments under the CAPaBLE Programme

Asia-Pacific Network for Global Change Research (APN). (2012). *Focused Activity: Scientific Capacity Building for Climate Impact and Vulnerability Assessments (SCBCIA)*. Retrieved from <http://www.apn-gcr.org/resources/items/show/1831>

- Climate Change Vulnerability Assessment and Urban Development Planning for Asian Coastal Cities
- Climate Change in Eastern Himalayas: Advancing Community-Based Scientific Capacity to Support Climate Change Adaptation
- Building Research Capacity on Assessing Community Livelihood Vulnerability to Climate Change Impacts in Central Viet Nam and the Mekong River Delta
- Capacity Development of the Scientific Community for Assessing the Health Impacts of Climate Change



Asia-Pacific Network for Global Change Research (APN). (2012). *Networking Beyond Rio+20: Climate Adaptation Partnerships for Sustainable Development — A Policy Brief*. Retrieved from <http://www.apn-gcr.org/resources/items/show/1835>



BACKGROUND



The need for climate change adaptation is increasingly being recognized by communities, with an initial focus on assessing vulnerabilities and identifying adaptation options. The complexity of adaptation due to the multidisciplinary nature of the required solutions and the lack of long-term data pose a great challenge, particularly in the Asia-Pacific region. Approaches at the grassroots levels that involve communities and local governments to incorporate climate change adaptation practices into development planning will be needed, and Integrated Assessment Models (IAMs) will need to be customized for local to regional and sectoral levels.

In the lead-up to the Rio+20 conference, the Asia-Pacific Network for Global Change (APN) organized a session at the Climate "Adaptation Futures" Conference held on 29-31 May 2012 at The University of Arizona, USA. The session focused on the importance of partnerships and networking to facilitate the adoption of local, national and regional adaptation strategies. The present policy brief builds on the collective messages that arose from the session, and is published to convey these messages at Rio+20 and beyond.



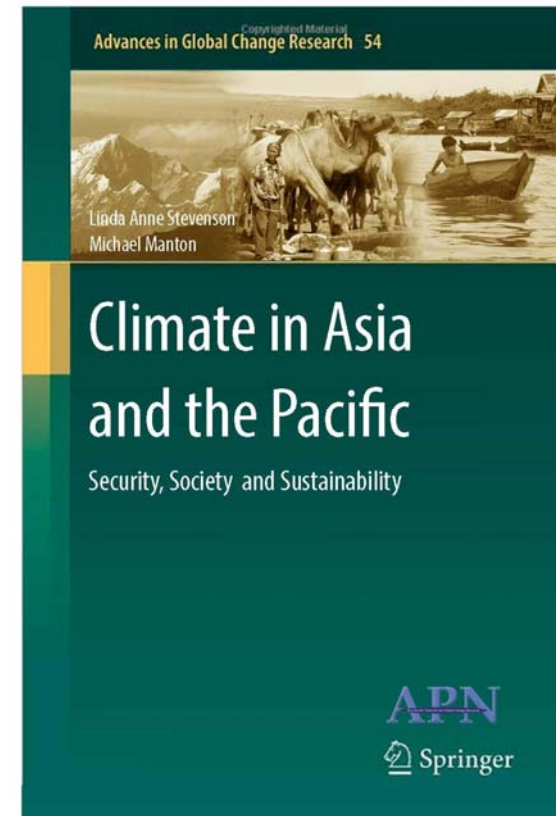
Mimura: Two important dimensions of climate change adaptation, **science-driven approach and society needs-based approach**

Salik: Robust and collective global to regional responses for climate change adaptation will be achieved through **joint research and policy actions by sharing of technology, knowledge and experiences."**

APN Climate Book

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

1. Follow-up of Synthesis Report (synthesizing 56 climate-related projects – 98 peer reviewed papers over 50 training outputs such as toolkits and training packages)
2. Explains the **current status** of climate change and climate variability in the Asia-Pacific region; **future directions** in the area and overarching issues;
3. Chapters: (1) Introduction; (2) Climate change & climate variability; (3) Urbanisation; (4) Security: food, water, energy; (5) Society: governance, remote communities, human health; (6) Sustainability: energy, ecosystems services.
4. Authors: 31 Authors from the GC Community – most engaged in IPCC AR5.
5. Proof is with us and you can pre-order your copies



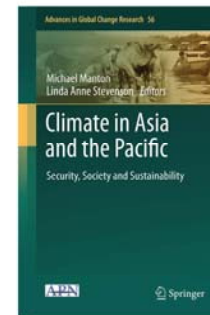
<http://www.springer.com/environment/global+change+-+climate+change/book/978-94-007-7337-0>

Series: Advances in Global Change Research, Vol. 56

- Offers a broad perspective on the impacts of climate change on society in Asia and the Pacific
- Explores a many-layered mix of science, economics, politics and sociological concerns
- Provides a useful resource for scientists, policy makers and practitioners



springer.com



2014, XX, 293 p. 45 illus., 41 illus. in color.

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M. Manton, Monash University, Melbourne, Australia; L.A. Stevenson, Asia-Pacific Network Global Change Res., Kobe, Japan (Eds.)

Climate in Asia and the Pacific

Security, Society and Sustainability

Series: Advances in Global Change Research, Vol. 56

- Offers a broad perspective on the impacts of climate change on society in Asia and the Pacific
- Explores a many-layered mix of science, economics, politics and sociological concerns
- Provides a useful resource for scientists, policy makers and practitioners

Commissioned by the Intergovernmental Meeting (IGM) of the Asia-Pacific Network for Global Change Research (APN), this book offers a detailed survey of the current status of climate change and climate variability in the Asia-Pacific region, a thorough and thoughtful assessment of climate and security and clear recommendations on the best paths of climate research in the future.

The opening chapter addresses current understanding of the interactions between climate, natural ecosystems and human communities across Asia and the Pacific. Chapter 2 outlines variability and change in the region, from the El Niño-Southern Oscillation (ENSO) to glaciers, tropical cyclones and extreme weather events, as well as the latest methods of measuring and collecting data and advanced techniques for creating climate models and projections. The contributors go on to unfold the many layers of this complex scientific puzzle and its political context.

Chapter 3 describes urban trends and risks and hazards from consequences of climate change, including rising temperatures and rising sea levels and highlights their effects on transportation, water supply, agriculture, food supply and energy production. Methods for adaptation and mitigation are outlined, and the contributors point out uncertainties, gaps in research and policy needs. Chapter 4 takes a broad perspective on the current and future state of agriculture and fisheries, on issues of water security from the Himalayan-Tibetan plateau to the islands of the Pacific and on energy demands and production capacity with close-up analyses of China, India and Japan. Chapter 5 examines climate and society at many levels, with special attention to remote communities in mountainous and small island settings. Chapter 6 explores sustainability, reporting on efforts to initiate and advance low carbon development, and strategies for adaptation and mitigation in natural ecosystems. The last chapter summarizes the findings presented in the book and offers a picture of future needs for climate research in the region.

As J. Scott Hauger, of the Asia Pacific Center for Security Studies writes in his foreword, this book "represents an opportunity to share knowledge and to collaborate across ...

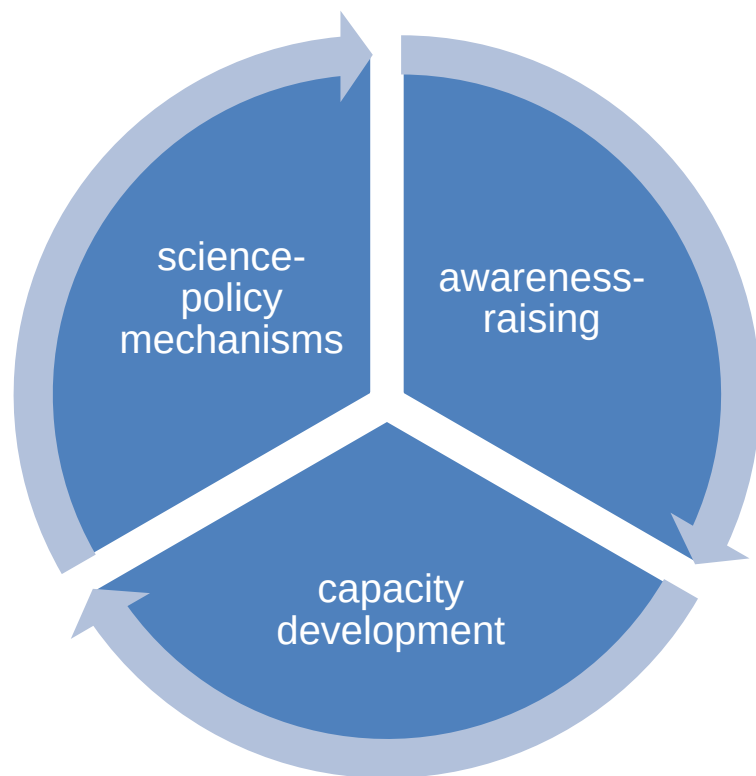
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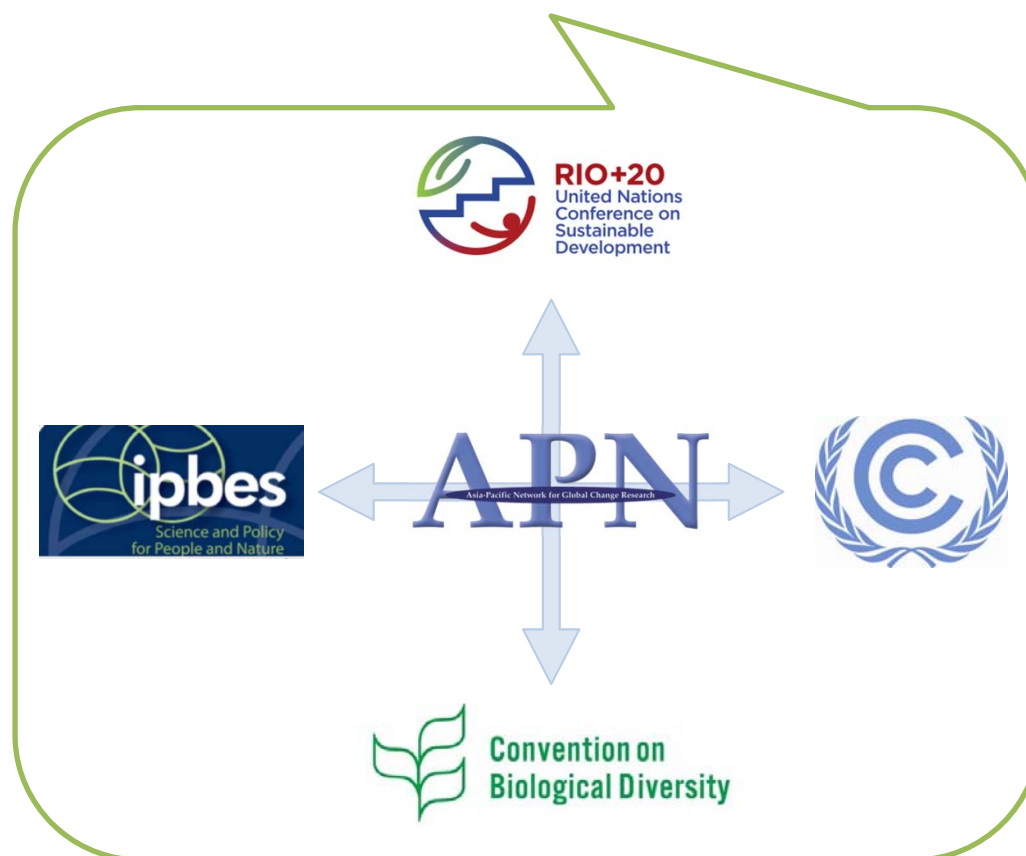
Science-Policy Dialogues

SCIENCE-POLICY DIALOGUES

EMPHASIS ON SCIENCE-POLICY INTERACTIONS

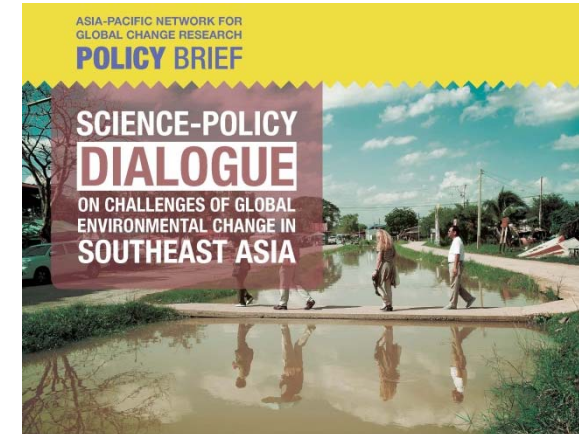


Science-Policy is emphasised: Links with IPBES, UNFCCC; UNCBD; Rio+20 etc.



KEY MESSAGES

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...moving away from traditional research
5. **Risk-sharing** through market-based mechanisms should be encouraged
6. **Local knowledge** could be combined with scientific knowledge to shape policies.



BACKGROUND



In light of the UNFCCC COP17 in Durban (December 2011), Planet under Pressure Conference in London (March 2012) and the Rio+20 Conference in Rio de Janeiro (June 2012), the APN-START Science-Policy Dialogue (SPD) on Challenges of Global Environmental Change in Southeast Asia aimed to promote informed decision-making on actions to reduce global environmental change vulnerability and promote climate adaptation strategies.

The SPD, held in Bangkok, Thailand, 19–21 July 2012, was attended by 98 scientists and mid-level policy makers from Southeast Asia, including invited experts on

global change science, senior policy makers in the region, and observers from Temperate East Asia and South Asia.

Hosted by the Southeast Asia START Regional Center with support from APN and START (through a grant from USGCRP), the three-day dialogue confirmed the need for fostering stronger partnerships between the scientific and policy communities, and the need to incorporate others from the private sector to help shape adaptation strategies. Such sustained partnerships would benefit from a range of science-based policy options for both short- and long-terms.

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

SUSTAINING THE 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
3. **2015 East Asia SPD** in collaboration with Temperate East Asia
4. **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).



Focussed Call For Proposals

OPPORTUNITY:
FOCUSSED CALL FOR PROPOSALS
CCA-DRR-L+D:
LINKAGES, PRIORITIES, LIMITATION

Ongoing Activities (2013-2014): Focused Activities on Climate Adaptation, Disaster Risk Reduction, And Loss & Damage

- Interactive Session at the APN's 18th IGM
- Two main activities on disaster risk reduction, loss and damage associated with climate change impacts in Asia and the Pacific for knowledge sharing and partnership development (the first last week in Kobe); the second in collaboration with APAN and the L+D Forum (ICCCAD and other engaged institutions)
- **A special call for proposals for regional research and capacity building activities related to loss and damage. (deadline: 22nd September 2013). www.apn-gcr.org**

Open call for focused activities on adaptation, disaster risk reduction, loss and damage

US\$680,000 (Donor: MOEJ)

1. **Launch Date: 30/31 August 2013 (Bangkok)**
 - Regional research: Call or proposals (US\$450,000)
 - Capacity development: Call for proposals (US\$230,000)
2. New activities selected and expected to start: **December 2013 & March 2014.**

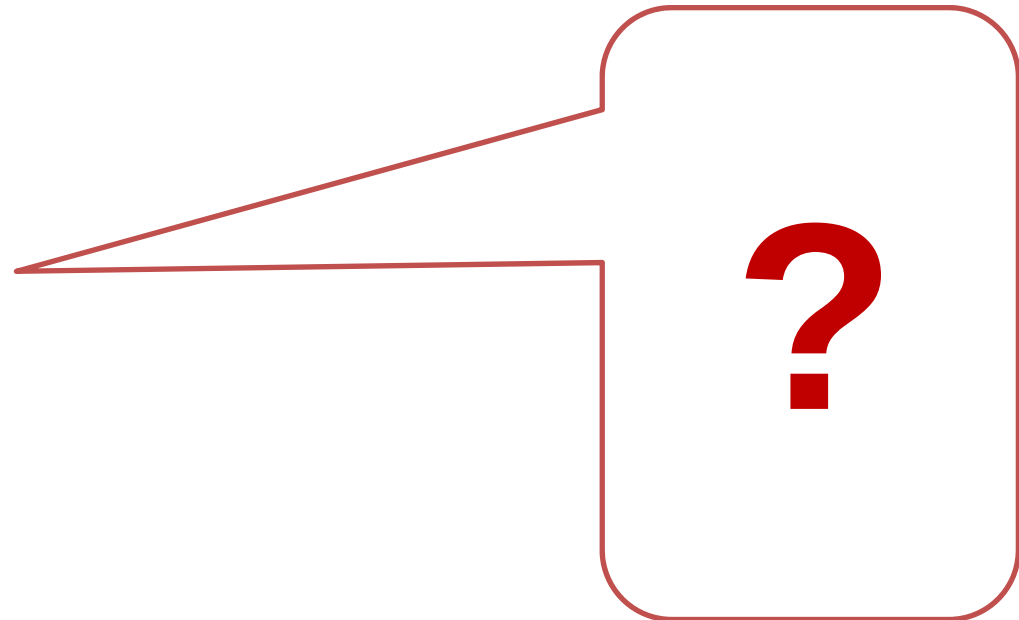
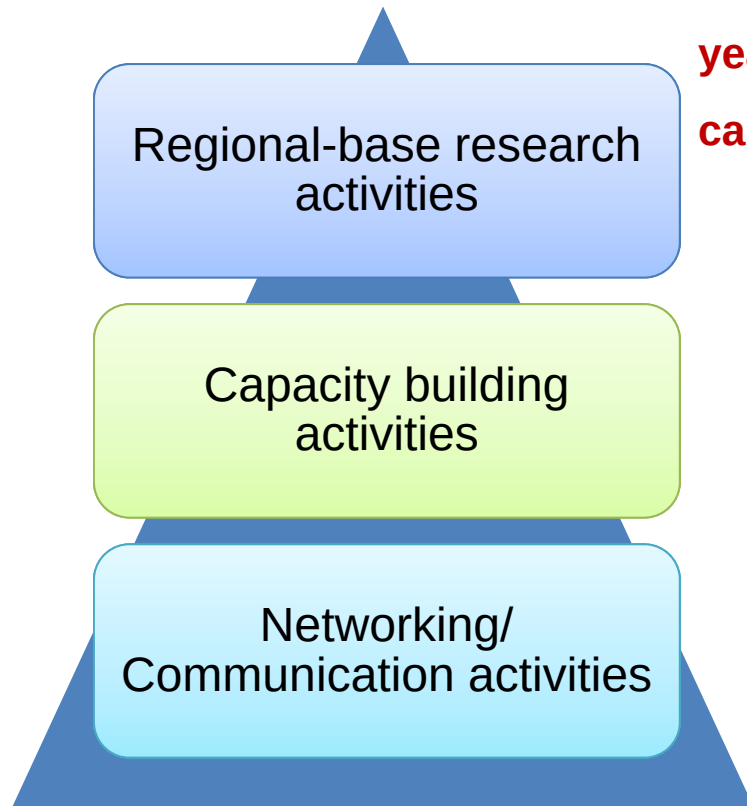
(depends on level of interest, which determines the length of the review and selection process)



Priority themes were determined by you

With funding from the Ministry of the Environment, Japan (MOEJ), a call for focused activities is being launched today and tomorrow, during the present APAN Forum on Loss and Damage.

New activities will be funded by the end of the year that focus on regional research and capacity development.



New Activities: CCA-DRR-L+D for regional research

Research Theme 1: Integrated Modeling that reduces vulnerability and improves resilience to Loss & Damage by looking at a combination of:

- Climate vulnerability, impacts and adaptation; Economics; and Social and human dimension

Research Theme 2: Regional Downscaling

- Downscaling knowledge for adaptation, risk and loss & damage that could be transferred to the local level (including remote communities, districts, cities, etc.)
- Scientific community needs to downscale more to aid impact assessment at the local level
- Gap analysis (including best practices) in knowledge and understanding of loss and damage at the local level

Research Theme 3: Multi/trans disciplinary research and assessment of:

- Impacts of extreme weather events and slow onset events at regional, sub-regional and local levels (what are the gaps; what is the status quo?)
- Reducing loss by revisiting current aspects of Disaster Risk Management strategies across local, national and regional scales (including transboundary)
- Non-economic losses due to climate - extreme and slow onset events
- Integrating the risks identified through CCA-DRR-L+D into regional planning: What is the present scientific understanding in these areas? Is more needed? Are there sufficient science-policy linkages?
- Methodology, terminology and other concepts that link climate change adaptation, loss and damage, and disaster risk reduction (for example, developing methodologies for quantifying non-economic losses)

New Activities: CCA-DRR-L+D for capacity development

Capacity Building (including dissemination, awareness-raising)

1. Enhancing capacity for assessment

- of L+D and planning and implementation for DRR and CCA, both by government authorities and civil society that would also document successful practices of local, experiential and indigenous knowledge

2. Training, awareness-raising; strengthening partnerships in L+D, CCA and DRR for:

- local communities and local governments to enable bottom-up planning and mechanisms
- Increasing the knowledge-base of L+D, CCA, DRR and how it might impact future generations
- Strengthening linkages, effective coordination and building synergies across neighbouring countries to enhance cross-learning, especially at the sub-national/district level

3. Addressing gaps in multi/trans-disciplinary approaches

- Developing toolkits, mapping different institutions that are engaged in DRM that can help address loss and damage
- Entry points for science-policy interfaces at regional, national and local levels

4. Retaining knowledge, maintaining data, sustaining disaster loss databases

- What is going on, where are the gaps, training initiatives on resilience
- Decision-support tools and training opportunities. Local language would be used at the local level and translations would be available
- Addressing the problems of existing data: insufficiency, inaccessibility and/or inconsistency

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 & COMMUNICATING:** the most important factor across the region is the human factor: sharing information, data, transferring knowledge, experiences and best practices...

For more information...



Funding available:
US\$450,000 for regional-based research
US\$230,000 for capacity development

Important steps:

1. Link to the website: <http://www.apn-gcr.org/?p=6391>
2. Download the Focussed Call and Expression of Interest Template
3. Read the guidelines, especially the basic eligibility criteria and the focused themes of interest under research and capacity development
4. Complete the EOI drawing on the guidelines available, including the FAQ and Financial regulations
5. Submit your EOI in word format and in the template provided to LandD2013@apn-gcr.org with a carbon copy to jastevenson@apn-gcr.org
6. Deadline for submission is 24:00 (midnight) Japan Standard Time (JST) on 22nd September 2013.

What happens after EOI Submission?

If your EOI is successful, you will be contacted and invited to submit a full proposal that will be reviewed by APN's Scientific Planning Group and other relevant experts. You will have an opportunity to respond to questions and comments from reviewers after which a re-review will be undertaken. Successful proponents will be notified between mid-November 2013 and January 2014, depending on the number of EOIs we receive.



APN Call for Focussed Proposals

Expressions of interest will be accepted at the following address: LandD2013@apn-gcr.org by 24:00, Japan Standard Time 22nd September 2013.

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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