



APN Activities on Climate Adaptation and an Overview of CA-DRR-L+D Special Call for Proposals

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Asia-Pacific Network for Global Change Research (APN)

Workshop on Climate Adaptation, Disaster Risk Reduction and Loss + Damage
- Linkages, Priorities, Limitations -

OUTLINE

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



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;
 - Climate in Asia and the Pacific: Security, Society & Sustainability
 - Special Focussed Call on CAF-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?s>. The page title is "APN E-Lib" and the main heading is "APN Projects — Metadata (64 total)". A red circle highlights the number "64 total" in the heading. Below the heading is a pagination bar with buttons for "1", "2", "3", "4", "5", "Next »", and "Last". The first search result is titled "Communicating and Operationalizing Site-Specific Climate Change Adaptation Strategies in Selected Vulnerable Upland Communities in Southeast Asia" with the ID "CBA2013-10NSY-Visco". The second result is titled "Assessing the Mitigation and Adaptation Options for Tropical Peatlands to Reduce GHG Emissions and Increase Resilience to Climate Change" with the ID "ARCP2007-15-NSY". A red arrow points from the circled "64 total" to the text "Adaptation in the title!!" on the right side of the page. The browser's taskbar at the bottom shows various application icons and the system clock indicating 9:57 PM on 8/20/2013.

**Adaptation in
the title!!**

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

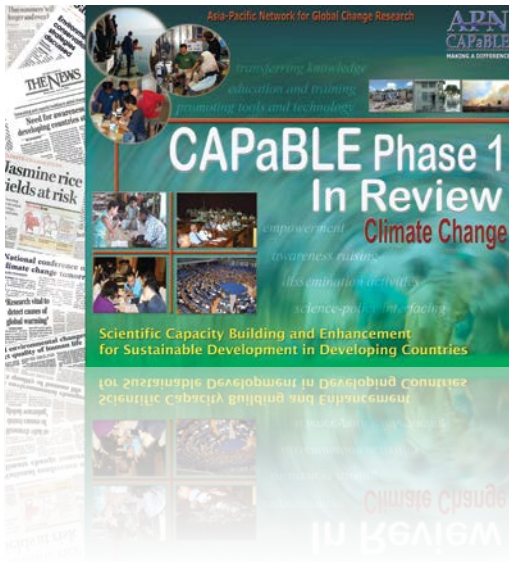
Phase III: from April 2009 to March 2012 and focused on Climate Change Impacts, Adaptation and Vulnerability

Joy Jacqueline Pereira (Asia) at Universiti Kebangsaan Malaysia

Strengthening Capacity for Policy Research on Mainstreaming Adaptation to Climate Change in Agriculture and Water Sectors

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.

Training Institute on Climate and Extreme Events in the Pacific

EWC, NIWA, PACE-SD



Key Synopsis:

The successful Climate and Extreme Events Training Institute in the Pacific in Fiji (2004), Samoa (2005), and Kiribati (2006) respectively, addressed the need to create a regional network of scientists, decision-makers and institutions skilled in the use of climate information and services to support practical decision-making in key sectors such as agriculture, water resource management, public health and safety, tourism and community planning, and resource development within the Pacific Island Countries Region.



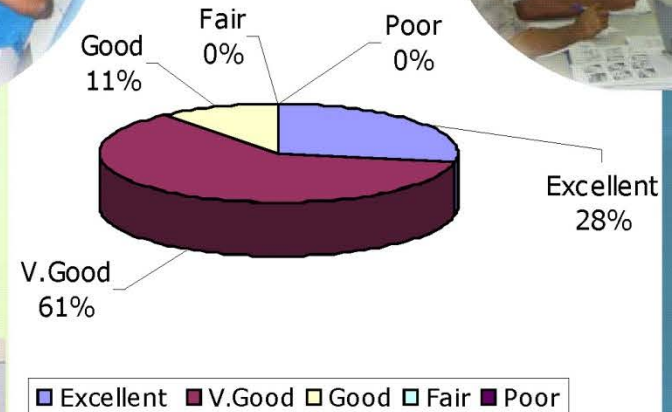
Key Messages:

- Great achievement to be able to successfully train 70 participants in the Pacific Island region.
- Much more work needs to be done in more countries, involving more national level stakeholder involvement

Key Impacts:

- Anecdotal evidence that trained personnel are using their skills in professional activities for mainstreaming climate to support policy formulation.
- Trained personnel able to contribute substantially to:
 - > National local awareness building and climate planning and adaptation activities as part of NAPAs
 - > Regional climate projects such as PACC (Pacific Adaptation to Climate Change)
 - > General sustainable development initiatives

How well the Training Institute Performed?



The Hon. Natan Teewe, Minister of Finance and Economic Development, Kiribati: *...The Kiribati training institute will provide local participants with tools to review and evaluate existing practices on climate change, and to develop and formulate informed policies and strategies to achieve changes to existing practices. For this to happen successfully, contributions from every government and non-government sector were required.*

Statements from International Experts:

“This project has established a modus operandi for dealing with climate change and its impact across the Pacific island region that has the potential to be applied widely by both the team in this project and by others in other Pacific Island States of this region in ways that could have very substantial benefits for the region.”

“The project has raised the level of knowledge and understanding of climate change in the Pacific Island Region and possibly more importantly, the level of discussion and collaboration between the individuals at the local level, directly related to climate variability and change”

to meet the

> Agenda 21 sits at the root of sustainable development

Sustainable Development > need

co-

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

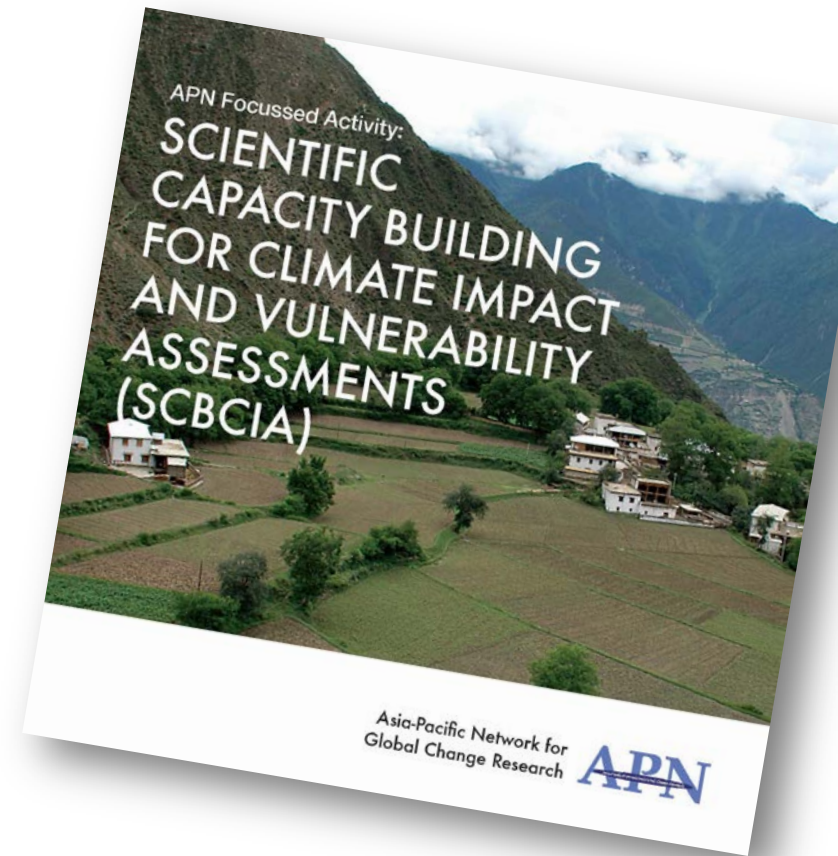


2009: APN's Response

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>



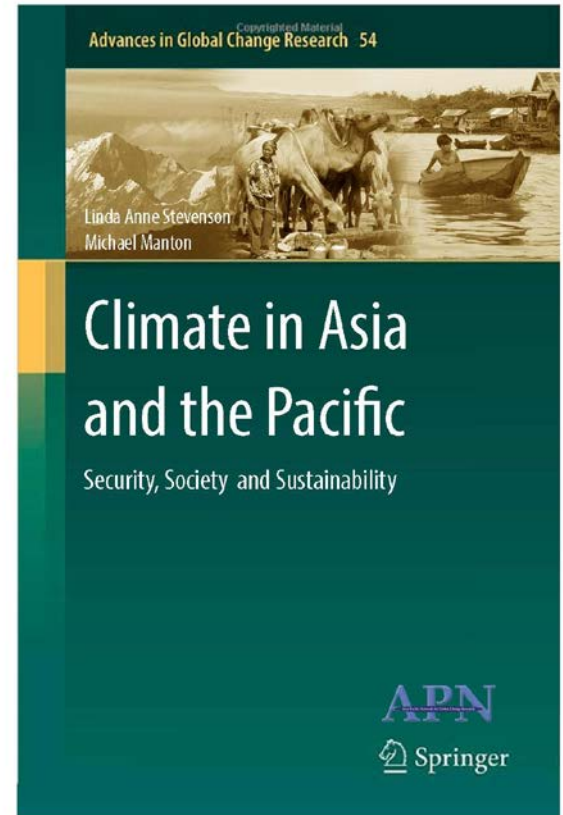
*Mimura: Two important dimensions of climate change adaptation, **science-driven approach and society needs-based approach***

*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)
2. Explaining 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
5. Proof is with us and you can pre-order your copies at



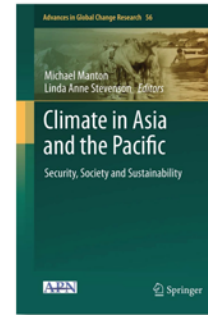
<http://www.springer.com/environment/global+change+-+climate+change/book/978-94-007-7337-0>

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

springer.com



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

 Printed book

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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
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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 ...

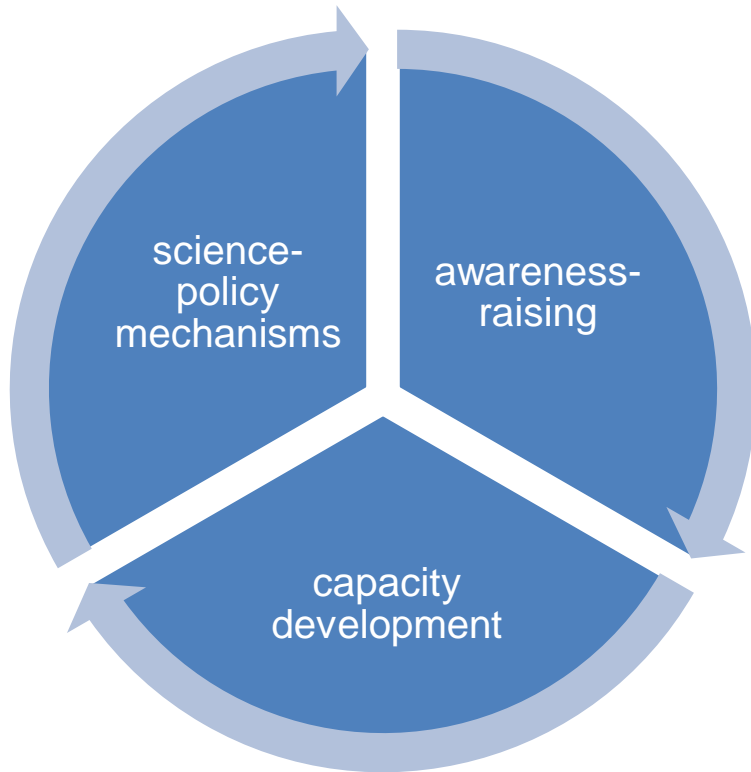
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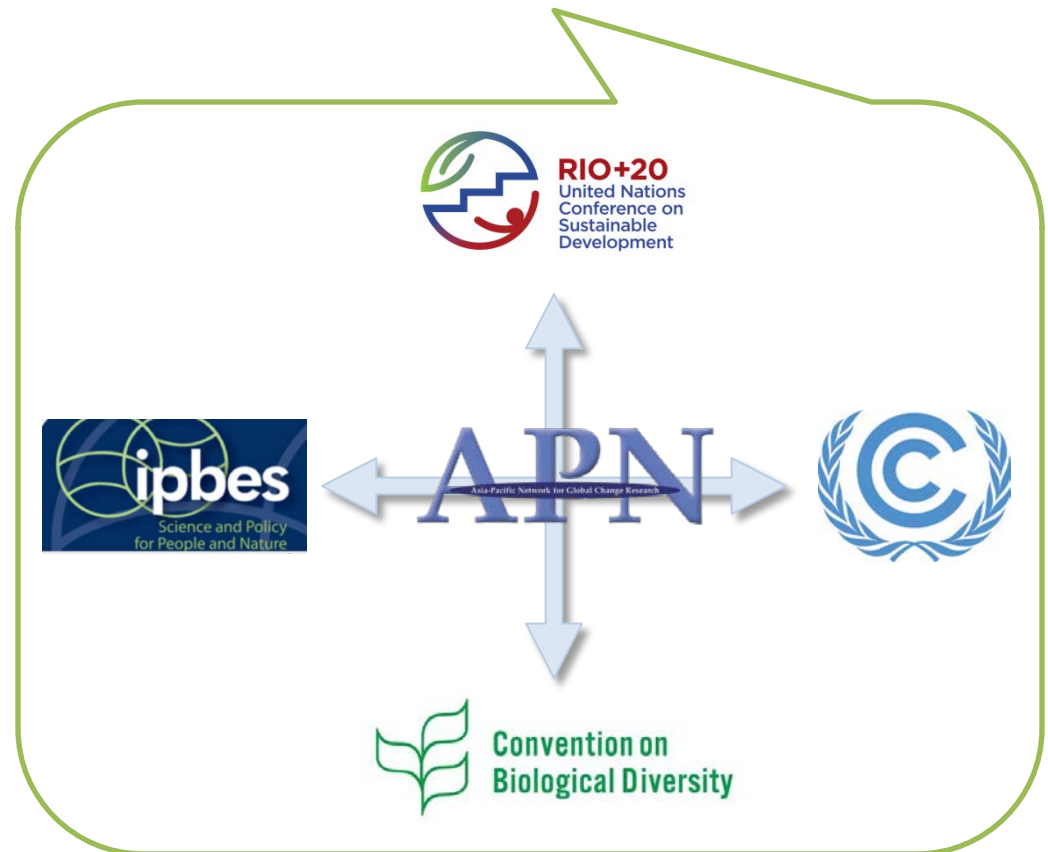
Science-Policy Dialogues

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.



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 ON L+D-DRR-CA : LINKAGES, PRIORITIES, LIMITATION

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

- Interactive Session at the APN's 18th IGM
- Two workshops 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 here right now)
- **A special call for proposals for regional research and capacity building activities related to loss and damage. (September 2013)**

New Activities: Adaptation, Disaster Risk Reduction, Loss And Damage

1. 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**;
2. Supporting data collection, enhancing coordination, strengthening regional collaboration, capacity-building, strengthening institutional arrangements

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

US\$680,000 (Donor: MOEJ)

- 1. Launch Date: 31st August 2013 (Bangkok)**
 - Regional research: Call or proposals
 - Capacity development: Call for proposals
- 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 will be determined by you and might include:

With funding from the Ministry of the Environment, Japan (MOEJ), a call for focused activities will be formally launched at the end of August 2013, during APAN's Forum on Loss and Damage, and new activities will be funded by the end of the year that focus on regional research and capacity development.

Regional-base research activities

Capacity building activities

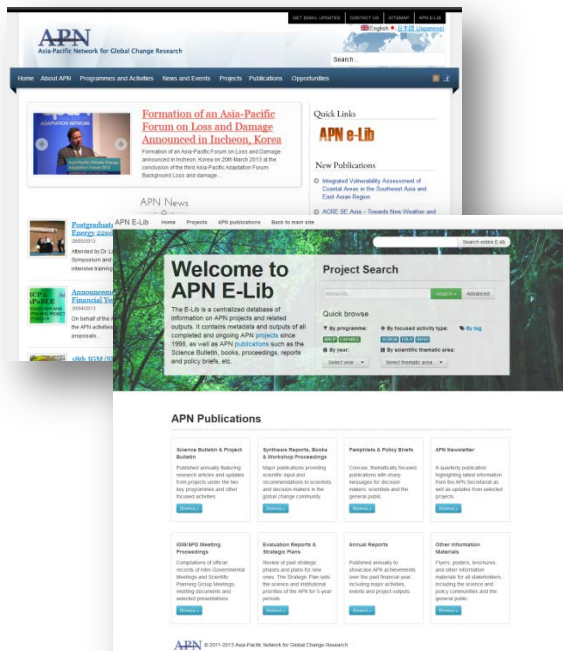
Networking/
Communication activities

- Assessment of the impacts of climate change and adaptation limits – what is Loss and Damage? What are linkages with disaster management and disaster reduction?
- Gap analysis on regional needs and status quo in the Asia-Pacific region.
- Approaches to address loss and damage associated with adverse impacts of climate change
- What kind of underpinning scientific and policy-relevant planning and methodology is needed in response to Loss & Damage?

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...

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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