Supporting Activities related to MRV







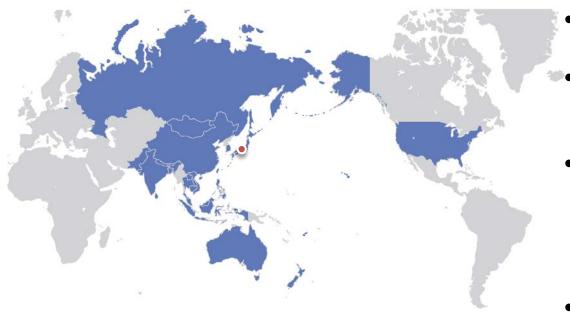


Part 1

APN OVERVIEW



 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









Key Activities

Global change core programmes

Regional research (ARCP)

Capacity building (CAPaBLE)

Focused activity frameworks

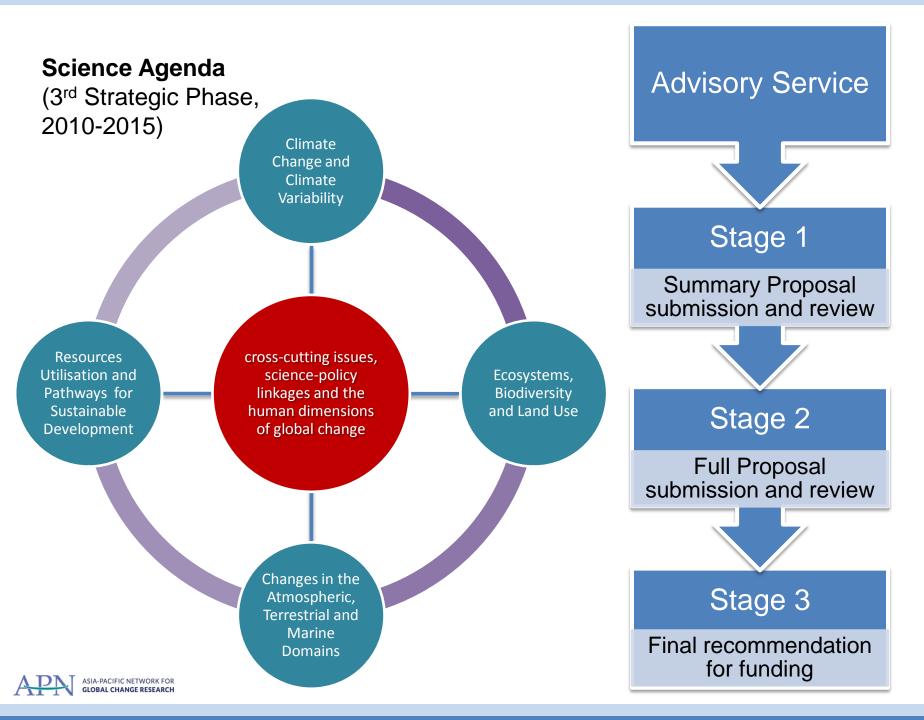
Low Carbon Initiatives

Climate Adaptation

Biodiversity and Ecosystem Services

Science-Policy interface





1999-2004 **First Strategic** Phase

2010-2015 **Third Strategic Phase**

Total 349 Projects

1996



1996-2004 **First Evaluation** 2005-2010 Second **Evaluation**



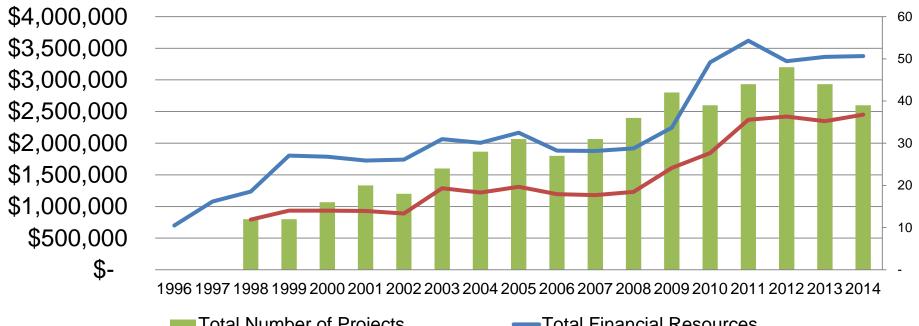
2010-2015 **Third** evaluation



2005-2010 **Second Strategic** Plan

2015-2020 **Fourth Strategic** Plan

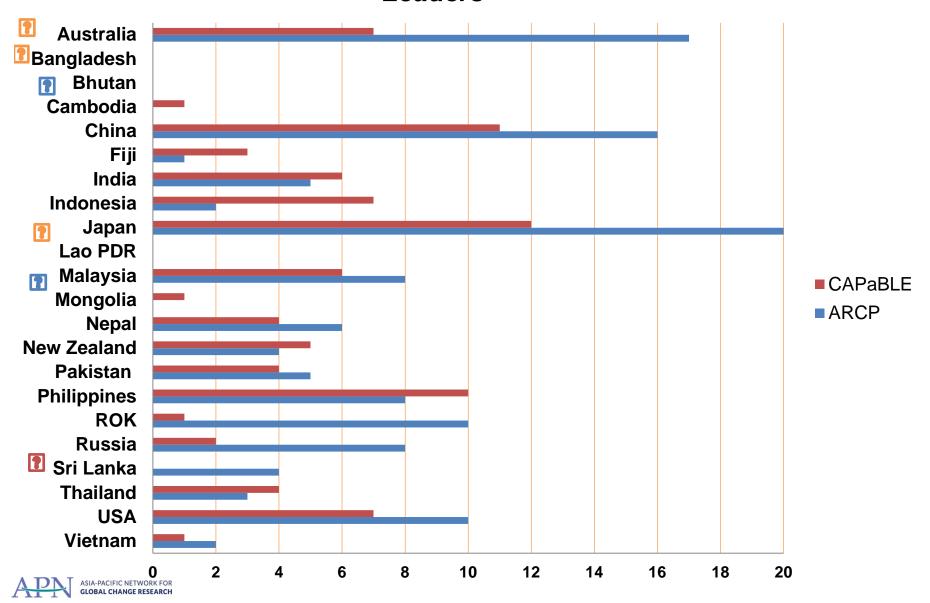
APN Financial Resources Distribution & Number of Projects





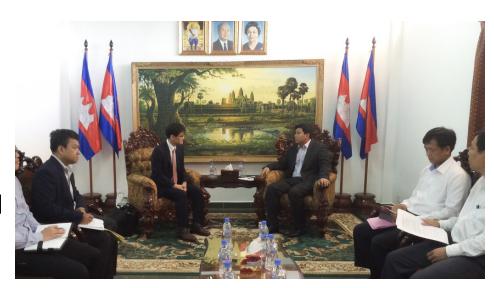
Total Number of Projects —Total Distributed Projects Funds —Total Financial Resources

2008-2013 APN-funded Projects: Country of Project Leaders



Cambodia-APN Co-Finance Partnership

- Cambodia: first country to enter a co-finance partnership with APN
- Provides direct funding support to Cambodian-led projects approved by the APN
- New resources to benefit Cambodia and all APN members
- Makes use of APN's strong review and management process





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



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







Low Carbon Initiatives Framework

Regional-base research activities

Capacity building activities

Networking/ Communication activities

APN Low Carbon Initiatives (LCI)



- 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
 - Dialogues between researchers and national/local policy makers in developing member countries
 - Development of educational tool-kits on law carbon development (possible to shift to joint research activities)

Low Carbon Initiatives Framework

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

Expressions of Interest received

13
Full proposals invited

Approved for funding

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



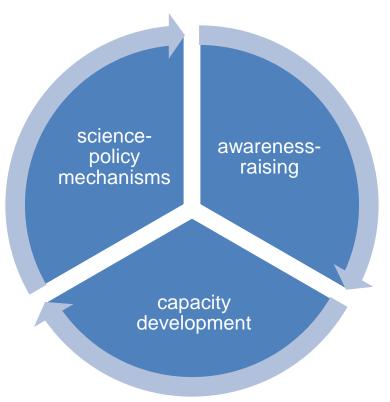
| | Project Reference | Title |
|----------------------|---------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Capacity Building | 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 |
| Regional Research | 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)- Dhakal | 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 |

Biodiversity and Ecosystem Services Framework

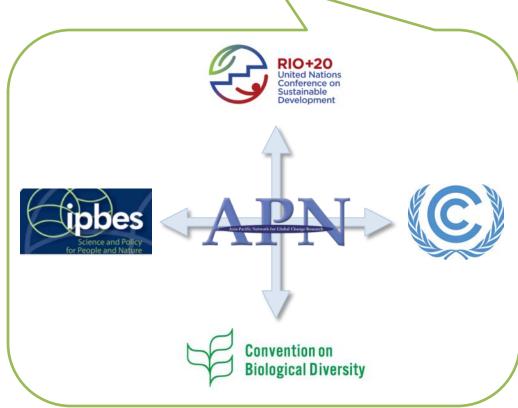
- Inviting stakeholders to propose and engage in collaborative activities with the APN in key thematic areas under its framework for biodiversity and ecosystem services
- ➤ Identification of drivers and pressures for biodiversity change that influence ecosystem services
- Assessment of the impacts of 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.





ASIA-PACIFIC NETWORK FOR GLOBAL CHANGE RESEARCH

APN and the Global Change Community

Regional **Sub-national National** Global **UNITED NATIONS** WAIKATO 5 1 M S R **APCC** Unitec 茨城大学 **IHDP** LoCARNet CSIRO LCS-R Net ADAPTATION NETWORK BADAN INFORMASI **SPREP** Convention on **Biological Diversity**



Part 2

SUPPORTING ACTIVITIES ON MRV



EBLU2010-04NMY(C)-Skole

 MRV system for REDD+: Scaling up from project level to a national level REDD+ MRV systems for Laos and Viet Nam

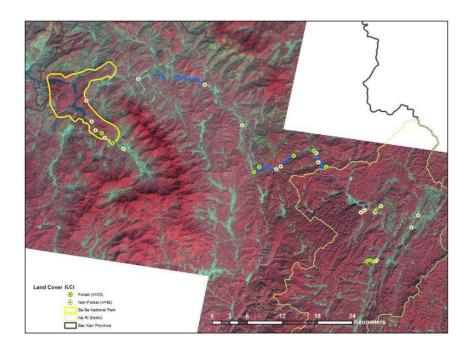
Project leader: Dr. David L. Skole, Michigan State University, USA

http://www.apn-gcr.org/resources/items/show/1708#.U8kABkDzmM8

- training and capacity building in basic concepts of REDD, REDD+ and MRV systems,
- development and testing of scalable MRV methods based on current IPCC guidelines using remote sensing satellite data and geospatial technologies,
- 3) technology transfer of national level MRV systems for REDD+.



EBLU2010-04NMY(C)-Skole



- Pilot study sites: Laos / Viet Nam
- Data collection:
 - Field level data for validation with remote sensing data
 - Standard forest plot inventory methods
- Forest carbon mapping
 - Developed a method for analyzing medium resolution
- Training and capacity building
 - Scientists
 - Government agency personnel
 - University staff and students



EBLU2010-04NMY(C)-Skole



On-line forest carbon MRV/M&E system

The MRV system is designed as a project management system, more in the line of an enterprise application. Data are stored in a relational database which has redundant back-up and the application has bi-monthly system snap-shots for restore capabilities. Website: http://mrv.carbon2markets.org



LCI2012-01NSY(C)-Maeda

Capacity Building for Implementing a "Measurable, Verifiable and Reportable (MRV)" Model in a Mid-Sized Thai Municipality



Mr. Toshido Maeda, IGES (Kitakyushu), Japan http://www.apn-gcr.org/resources/items/show/1913#.U8kFJkDz mM8



LCI2012-01NSY(C)-Maeda

- build the capacity of a selected midsized Thai municipality to develop and implement an MRV framework.
- enable accounting for actual GHG emission reduction to be achieved by a local municipality,
- help devise effective low-carbon city policies and promote the framework's linkages with national initiatives and upcoming carbon market mechanisms.





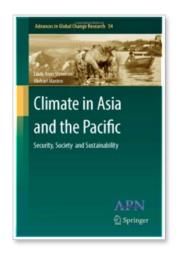


Related projects

- Developing an MRV system for REDD+: Scaling up from project level to a national level REDD+ MRV systems for Laos and Viet Nam (<u>EBLU2011-02CMY(C)-Skole</u>)
- Strengthening Community Voices in REDD+ Policy (<u>LCI2012-02NSY(C)-Guerrero</u>)
- Project Scoping and Training Workshop for REDD in Indonesia, Cambodia, and Lao PDR (<u>CBA2009-03NSY-Bishry</u>)
- Capacity Building for Implementing a "Measurable, Verifiable and Reportable (MRV)" Model in a Mid-Sized Thai Municipality (<u>LCI2012-01NSY(C)-Maeda</u>)
- Critical analysis of effectiveness of REDD+ for forest communities and shifting cultivation based on lessons learnt from conservation efforts in Laos and Thailand (<u>EBLU2010-02NMY(R)-Takeuchi</u>)
- Integrated Prediction of Dipterocarp Species Distribution in Borneo for Supporting Sustainable Use and Conservation Policy Adaptation (<u>ARCP2010-02CMY</u>)
- Evaluation of Trade-offs between conservation and development- Case of land use change in Malaysia and Indonesia (<u>EBLU2010-01NSY(R)-Suneetha</u>)
- Carbon Governance in Asia: Bridging Scales and Disciplines (<u>CBA2010-04NSY-Dhakal</u>)
- Sediment Dynamics and Downstream Linkages in Tropical Streams as Affected by Projected Land-Cover/Land-Use and Climatic Change (<u>ARCP2008-01CMY</u>)



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



APN Science Bulletin Science Wellish Science Wellish Science Wellish Science Wellish



Science Bulletin



Policy Briefs

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For more information...



APN Website:

News, announcements and global change community updates

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



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Thank you!

