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Scientific Capacity Building & Enhancement for Sustainable Development in Developing Countries

***Scaling-Up Agroforestry Promotion Towards  
Mitigating Climate Change in Southeast Asia***

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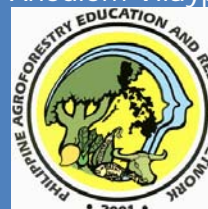
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# ***Scaling-Up Agroforestry Promotion towards Mitigating Climate Change in Southeast Asia***

Project Reference Number: [CBA2009-08NSY-Almoite](#)  
Final Report submitted to APN

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## OVERVIEW OF PROJECT WORK AND OUTCOMES

### Non-technical summary

The project on “Scaling-Up Agroforestry Promotion Towards Mitigating Climate Change in Southeast Asia” was conceived in response to the global climate change that threatens the humanity and the environment. Specifically, the Southeast Asia, which is generally dependent on agriculture, is among the regions that are highly vulnerable to the impacts of climate change.

Climate change is the disturbance in the temperature and rainfall patterns for a certain period of time, caused mainly by the emission of greenhouse gasses in the atmosphere. These greenhouse gasses are emitted in the atmosphere through deforestation, use of chemicals, burning and other human-induced activities. For a long period of time, these gas emissions have accumulated in the atmosphere, and now, the whole world is threatened by the global climate change. Because two important elements of agriculture are rainfall and temperature, the agriculture sector is one of the most vulnerable sectors to climate change. This is evidenced by the altered cropping season, incidence of pests and diseases, rationing water supply, lower farm productivity, and the like.

Many literatures say that agroforestry is one of the strategies for climate change mitigation and adaptation. Agroforestry is a land use management system that combines the production of trees, food crops, and animals on the same piece of land. The multiple benefits from agroforestry such as increased income from diverse sources; increased food production; improved soil fertility and many more, make it a good climate change adaptation strategy.

This project is a regional collaboration of the five country networks of the Southeast Asian Network for Agroforestry Education (SEANAPE), namely: Indonesian Network for Agroforestry Education (INAPE), Lao Network for Agroforestry Education (LaoNAPE), Philippine Agroforestry Education and Research Network (PAFERN), Thailand Network for Agroforestry Education (ThaiNAPE), and the Vietnam Network for Agroforestry Education (VNAPE).

There are five major components of this project. These include the: (1) Consultative-Meeting Workshop of the Project Facilitating Team (PFT); (2) Development of agroforestry information materials; (3) Regional Training-Workshop on Agroforestry and Climate Change; (4) National Agroforestry Roadshows; and, (5) Development of a policy brief on promoting agroforestry as a climate change mitigation and adaptation strategy.

### Objectives

The main objectives of the project were:

1. To provide capability-building programs among the junior agroforestry lecturers in the five participating country networks, about the various aspects of agroforestry and its potentials in mitigating climate change;
2. To develop agroforestry information materials for use in teaching and public awareness programs, and;
3. To create public awareness about the relevance of agroforestry in sustainable upland development.

## **Amount received and number of years supported**

The Grant awarded to this project was:

US\$ 35,000 for 1 Year 2009/2010: June 2009 to June 2010

## **Activities undertaken**

1. Conducted the Consultative Meeting-Workshop of the PFT
2. Developed a brochure on "Recognizing the Potentials of Agroforestry in Climate Change Mitigation and Adaptation"
3. Conducted the Regional Training-Workshop on Scaling-Up Agroforestry Promotion for Climate Change Mitigation and Adaptation
4. Organized National Agroforestry Roadshows in five participating countries
5. Developed a policy brief on promoting agroforestry as a climate change mitigation and adaptation strategy
6. Sharing of project experiences with Malaysian Network for Agroforestry Education (MANAFE) for possible replication of the project

## **Results**

1. Members of the PFT leveled-off on the project mode of operations
2. 12 junior agroforestry lecturers; five SEANAFE Board Members; and two (2) representatives from Malaysian Network for Agroforestry Education (MANAFE) were trained on Agroforestry and Climate Change
3. Produced 1000 copies of the brochure about climate change and agroforestry and were used as information materials during the National Agroforestry Roadshows
4. Multisectoral taskforces were created in each of the five participating countries
5. One policy brief on promoting agroforestry as a climate change mitigation and adaptation strategy, produced and published for dissemination to the policy makers
6. Possible adoption of the National Agroforestry Roadshow in Malaysia

## **Relevance to APN's Science Agenda and objectives**

The project, which made use of capability-building and public awareness programs ultimately aimed to strengthen the policy initiatives about the institutionalization of agroforestry development towards mitigating and adapting to climate change concerns and issues. The policy brief that was developed by the project team would serve as an instrument/vehicle towards strengthening the policies on the institutionalization of agroforestry as a development strategy. The project components such as capability-building and public awareness programs are in line with the APN's CAPABLE Programme of enhancing scientific building in developing countries to improve decision-making related to climate change in particular, and global change in general.

## **Self evaluation**

The project is very timely and relevant considering that climate change is currently being experienced throughout Southeast Asia. While climate change is being experienced, most of the people are still not aware about climate change--- its causes and its negative impacts. Thus, the public awareness activities of the project, particularly the National Agroforestry Roadshow has served as an information campaign about climate change and agroforestry's potentials in mitigating and adapting to climate change. Through this, many have realized that the droughts and erratic rainfalls that are being experienced are brought about by climate change.

While the target activities have been accomplished as planned and as scheduled, the project team, however, realized that one year has been too short for this kind of a regional undertaking, in which

the major means of communication is via electronic communication. More concrete outputs and more venues for distillation of lessons learned from the project implementation could have been generated if the project period is quite longer **than one year**.

### **Potential for further work**

- a. The lessons and experiences in project implementation, particularly in the capability-building programs and National Agroforestry Roadshows could be replicated to the other countries in Southeast Asia such as Cambodia, Myanmar, Malaysia and perhaps in other tropical countries. The project team is very much willing to establish partnership with any development organizations in these countries to promote agroforestry not only as a climate change adaptation strategy, but as a development strategy, in general.
- b. This project has further strengthened the recognition for agroforestry as a strategy for climate change mitigation and adaptation. The policy brief that was drafted by the project team calls for policy initiatives that would lead to the institutionalization of agroforestry in the five participating countries. The project team believes that the project should not just end in the development of the policy brief. The project team would like to continue its work of lobbying with the concerned policy making bodies for the adoption and/or implementation of these policy initiatives, particularly the institutionalization of agroforestry in the development programs of the concerned national government agencies, and local government units.
- c. The project team has already conducted widespread promotion and public awareness programs as regards the potentials of agroforestry for climate change mitigation and adaptation. The project team would like to see whether the farmers or farming communities the mechanisms that were employed by the farmers in coping with the impacts of climate change. Thus, the team deems it necessary to conduct another round of study that would dwell on the agroforestry activities and other climate change adaptation strategies that were employed by the selected farmers or farming communities.

### **Publications**

Philippine Agroforestry Education and Research Network (PAFERN). 2009. Recognizing the Potentials of Agroforestry in Climate Change Mitigation and Adaptation in Southeast Asia. A Brochure produced as an information material for the National Agroforestry Roadshows.

Philippine Agroforestry Education and Research Network (PAFERN). Promoting Agroforestry as a Climate Change Mitigation and Adaptation Strategy in Southeast Asia. A policy brief produced by the APN-funded project for use in lobbying with the policy makers.

## Acknowledgments

The project team would like to acknowledge the following individuals and institutions that helped achieve the project goals and objectives:

- The five country networks (e.g. PAFERN, LaoNAFE, ThaiNAFE, INAFE and VNAFE) including their member-institutions for the active participation to the project, particularly in helping mobilize their respective partner local government organizations for the smooth implementation of the National Agroforestry Roadshows;
- The local development organizations and national government agencies who have unselfishly shared their technical and financial support/assistance towards successful implementation of the National Agroforestry Roadshows;
- The Don Mariano Marcos Memorial State University (DMMMSU) and the University of the Philippines Los Banos-Institute of Agroforestry for providing the necessary administrative and technical backstopping to the overall project implementation, without additional compensation on their technical and administrative support staff
- The invited speakers of plenary and concurrent papers that were delivered during the National Agroforestry Roadshows, Congresses and Workshops. The experiences and expertise that they have shared have created and/or strengthened an awareness and appreciation among the participants about the climate change issues, and the potentials of agroforestry in climate change mitigation and adaptation

### Preface

The Project Report on Scaling-Up Agroforestry Promotion Towards Climate Change Mitigation in Southeast Asia is the major output of the Philippine Agroforestry Education and Research Network (PAFERN) with financial assistance from the Asia-Pacific Network for Global Change Research (APN) under the CaPaBLE Programme. The project is in line with the APN's CAPABLE Programme of enhancing scientific building in developing countries to improve decision-making related to climate change in particular, and global change in general. This project is also supportive to the vision and mission of the Philippine Republic Act 9720 otherwise known as "Climate Change Act" of 2010, and in the various initiatives and development programs in Indonesia, Lao PDR, Thailand and Vietnam that would help reduce the impact of climate change in the humanity and environment.

Consultative and participatory approaches including intensive reviews were undertaken in the implementation of the project. PAFERN started with local, national and regional workshops and project launching to promote awareness and generate support for the project from the national and sub national levels as well as to gather comments and recommendations on the project scope and framework for promoting agroforestry for climate change mitigation. Out of this initiative, a brochure and policy brief were developed to further increase awareness among various stakeholders on the potential role of agroforestry in climate change mitigation and adaptation.

The next step is to institutionalize agroforestry as a sustainable development strategy and advocate its use by more provinces and regions in Southeast Asia. We hope that the use of the project outputs by planners and decision-makers will lead to the effective integration of agroforestry as a key strategy in the national and local development programs.



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## 1.0 Introduction

Climate change is the one of the pressing issues in the world today. The causes and challenging issues of climate change, particularly its negative impacts to the vulnerable countries and communities have become the interest of research and development-oriented groups and organizations.

Climate change is defined by the Intergovernmental Panel for Climate Change (IPCC) as a statistically significant variation that persists for an extended period, typically decades or longer. It includes shifts in the frequency and magnitude of sporadic weather events as well as slow continuous rise in global mean surface temperature. Climate change is also known as the global warming. It is attributed directly or indirectly to human activity that alters the composition of the global atmosphere and which is in addition to natural climate variability observed over a comparable time periods (UNFCCC as cited by Lasco et al, 2004).

The IPCC Report (2001) also highlights that “yields of some crops in tropical agricultural areas would decrease with even minimal increases in temperature because they are near their maximum temperature tolerance. Where there is also a large decrease in rainfall in subtropical and tropical dryland/rainfed systems, crop yields would be even more adversely affected.”

The Southeast Asia is generally dependent on agriculture. This region is also among those that are forecasted to be vulnerable to the impacts of climate change.

In view of this, the Philippine Agroforestry Education and Research Network (PAFERN) spearheaded the development and implementation of the project on “Scaling-Up Agroforestry Promotion Towards Mitigating Climate Change in Southeast Asia”. The project put emphasis on agroforestry because as claimed by many literatures, agroforestry is one of the key strategies towards mitigating and adapting to climate change. Agroforestry is a land use management system that integrates woody perennials and agricultural crops, livestock and/or aquatic resources in the same piece of land for the twin purpose of achieving economic productivity and environmental stability. With this potential, agroforestry has always been integrated as a major production technology in the community-based forest management programs in vulnerable communities. Likewise, several studies have been pointing out the many uses of agroforestry in carbon sequestration, and in restoring the degraded and marginal upland areas.

PAFERN and the other country networks of the Southeast Asian Network for Agroforestry Education (SEANAFE) proposed this capability-building program with the end-goal of scaling-up agroforestry promotion towards climate change mitigation and adaptation. Specifically, the project aimed to: a) provide capability-building programs about the roles of agroforestry in mitigating climate change, among the junior agroforestry lecturers in the five participating universities; b) develop relevant teaching materials about the multifunctional uses of agroforestry in climate change mitigations; and, c) create awareness among the different stakeholders, including the policy-making bodies about the relevance of agroforestry in sustainable development.

The project is a regional collaboration of selected member-universities of the Southeast Asian Network for Agroforestry Education (SEANAFE). As such, this initiative has enhanced partnership development and collaboration among the SEANAFE member-countries, which may probably be

expanded also in other neighboring countries in Southeast Asia. This project also provided avenues for information exchange and knowledge sharing, which would ultimately promote capacity development in the region.

The project team members perceived the timeliness of this project as the quest for mitigating climate change is the overall aim of the many development organizations in the region. Results of the project could serve as basis for the policy-making bodies of the different government institutions in coming up with a good set of decisions as regards implementation and adoption of public policies towards mitigating climate change, particularly in line with the integration of climate change concepts in the education curricula at all levels, integrating climate change in the policy processes of the environmental and agricultural sectors at the national and local governments level, and integrating agroforestry in various public policies of the forestry, agricultural and environmental sectors.

Overall, this project was geared towards promoting sustainable development, as agroforestry has increasingly been considered and recognized as a system that addresses environmental conservation and stability, and socioeconomic productivity.

Agroforestry is a dynamic, ecologically-based natural resources management system that, through the integration of trees on farms and in their agricultural landscape, diversifies and sustains production for increased social, economic and environmental benefits (Leakey as cited in Feature Essay, 2007: 5 and Tolentino, et al 2009). Agroforestry is a land use management system that deliberately combines the production of woody perennials and agricultural crops and/or livestock for the twin purpose of socioeconomic productivity and ecological stability (UAP, 1992).

The interactions among the different components make agroforestry unique from agriculture and forestry. The resulting biological interactions provide multiple benefits, including diversified income sources, increased biological production, better water quality, and improved habitat for both humans and wildlife (Beetz, 2002). Beetz (2002) also stressed that its multifunctional nature offers a range of the above and below ground opportunities and benefits. It can serve as live fences, woodlots and habitats of wildlife. Further, it can improve soil biota and fertility. The Feature Essay (2007: 8) of Tackling Global Challenges through Agroforestry cites that agroforestry gardens can give rich harvest of fruits, firewood, medicine, animal forage and resins, and offer great potential for adaptation to climate change. The diversity of plants used in it provides multiple harvests at different times of the year, which in turn reduces risk. Increases in soil carbon, when combined with greater drought resilience of adapted agroforestry species make such systems more resilient in the face of climate change and help farm families to more readily adapt.

This project, being a regional collaboration has enhanced the knowledge sharing and information exchange among the five member-countries of SEANAFE. Since SEANAFE is expanding its membership to Malaysia and Cambodia, the outcomes of the proposed project could also be expanded and radiated in these two countries, and perhaps to the other neighboring Southeast Asian countries. At the national level, this initiative could help build the capacities of junior agroforestry lecturers from the participating member-universities about the technical aspects of agroforestry, and about the preparations of relevant teaching-learning materials that would enhance promotion of agroforestry as a technology towards mitigating climate change. Likewise, this project would help create awareness among the different stakeholders in each of the five member-

countries, including the policy-making bodies, local government units, national government agencies, extension workers, academe, students, farmers, and the general public about the multifunctional roles of agroforestry, particularly in climate change mitigation.

Finally, this project could help pave the way for the insitutionalization of multisectoral taskforce in each of the participating countries that would take the lead in sustaining the initiative of enhancing agroforestry promotion. This regional activity is expected to create influence on the policy processes and institutional programs of various sectors in each of the participating countries, particularly in integrating agroforestry development in their institutional agenda.

## 2.0 Methodology

As reflected in Figure 1, this project has an overall aim of addressing the issues and concerns in climate change mitigation and adaptation with agroforestry as a key mitigation and adaptation strategy. Agroforestry is a land use management system that combines the production of trees, shrubs, agricultural crops, and/or livestock or aquatic resources for multiple benefits to include socioeconomic productivity, improved farm productivity, ecological or environmental stability, and food security. This project harnessed the collaboration of the five country networks of SEANAFAE, namely: PAFERN, INAFE, LaoNAFE, ThaiNAFE and VNAFE, to implement the project component activities. These include the capacity-building programs through the Regional Training-Workshop for junioe agroforestry lecturers, information materials development in agroforestry, public awareness programs through the conduct of National Agroforestry Roadshows, and, the development of a policy brief. These component activities are all geared towards institutionalizing agroforestry as a climate change mitigation and adaptation strategy, in particular, and as a development strategy, in general.

The component activities were all undertaken in close coordination with the project team members and staff.

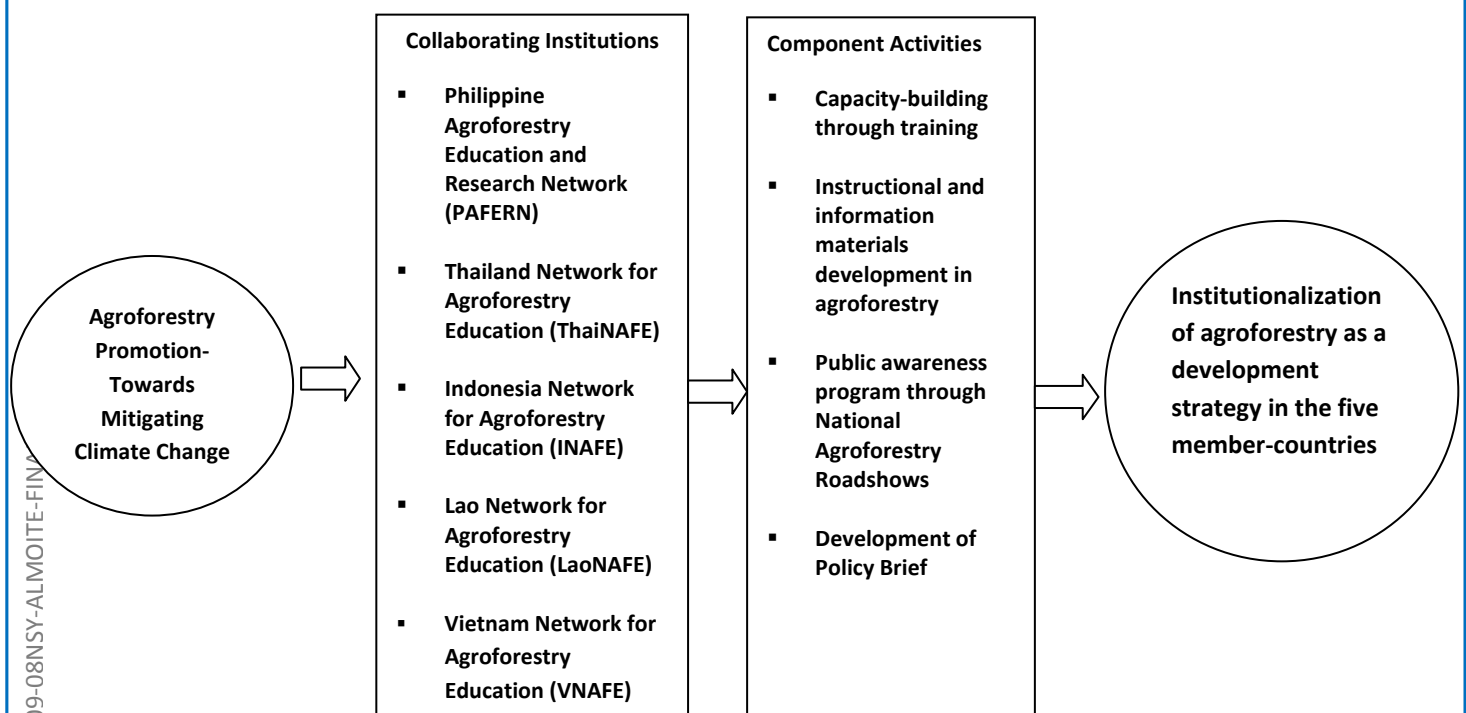


Figure 1. The project implementation framework

Below is the detailed discussion about the processes and methodologies that the project team has employed for the smooth project implementation.

#### **a. Consultative Meeting-Workshop**

The project team members composed of the five country network coordinators as the PFT, and the project staff from the Don Mariano Marcos Memorial State University (DMMMSU) and University of the Philippines Los Banos-Institute of Agroforestry (UPLB-IAF) convened a meeting to level-off about the project implementation, particularly the mode of operation, and the expected deliverables. This meeting also served as a venue to draft the Memorandum of Agreement or Contract between PAFERN and the four other country networks. The MOA was necessary for the transfer of funds to the four country networks in the implementation of the National Agroforestry Roadshows in their respective countries. This meeting officially organized the PFT whose composition is as follows:

- Dr. Orlando P. Almoite (Chancellor, Don Mariano Marcos Memorial State University, Bacnotan, La Union, Philippines) as Project Leader
- Dr. Wilfredo M. Carandang (SEANAFAE Chair, and Professor of the University of the Philippines Los Banos-College of Forestry and Natural Resources) as Project Team Member
- Dr. Lutgarda L. Tolentino (PAFERN Chair, and Director of the University of the Philippines Los Banos-Institute of Agroforestry) as Project Team Member
- Dr. Christine Wulandari (INAFAE Chair, and Lecturer of Faculty of Forestry, Lampung University, Indonesia) as Project Team Member
- Dr. Bao Huy (VNAFAE Chair, and Professor of Faculty of Forestry, Tay Nguyen University, Daklak Province, Vietnam) as Project Team Member
- Dr. Pramoth Kheowvongsri (ThaiNAFAE Chair, and Professor of Faculty of Forestry, Prince of Songkhla University, Songkhla, Thailand) as Project Team Member
- Dr. Latsamy Boupha (LaoNAFAE Chair, and Lecturer) now replaced by Dr. Anoulom Vilayphone (new LaoNAFAE Chair and Lecturer, National University of Lao) as Project Team Member
- Prof. Lilito D. Gavina (Professor, Don Mariano Marcos Memorial State University-Institute of Agroforestry and Watershed Management) as Project Staff
- For. Rowena D. Cabahug (University Researcher, University of the Philippines Los Banos-Institute of Agroforestry) as Project Staff
- Ms. Leila D. Landicho (University Researcher, University of the Philippines Los Banos-Institute of Agroforestry) as Project Staff

This activity was conducted back-to-back with the Special Meeting of the SEANAFAE Board Members on June 6-8, 2009 in Manila, Philippines. The back-to-back meeting did not only save the time of the SEANAFAE Board Members who are also the PFT members of this project, but also the financial resources of this project, as the transportation expenses of the PFT/Board Members were shouldered by SEANAFAE.

#### **b. Development of agroforestry information materials**

A workshop among the Philippine-based project team members was organized to brainstorm and come up with the contents of the agroforestry information materials that would be used for the public awareness activity of this project. The workshop was held in Baguio City, Philippines on August 5-7, 2009. From the many forms of information materials, the project team members decided to produce a non-technical brochure that would highlight climate change and agroforestry.

The project staff compiled literatures about agroforestry and climate change. The project team hired a contractual staff, with background and experience in information materials development, to provide assistance in the production and publication of the brochure.

The draft brochure was initially reviewed by the Philippine-based project team members, and was further subjected to a round of review by the participants of the Regional Training-Workshop on Scaling-Up Agroforestry Promotion Towards Climate Change Mitigation and Adaptation, which was held on October 9-11, 2009 at the University of the Philippines Los Banos, Philippines.

The major decision of the reviewers was to develop a brochure that would be understood by various types of audience including the technicians from research and development institutions, academicians, extension workers, policy makers, local officials and farmers.

The brochure highlighted climate change – its description, effects and impacts to the environment. This material also emphasized the potentials of agroforestry in mitigating and adapting to climate change. The brochure, in English version was reproduced and used in the public awareness programs including the National Agroforestry Roadshows. Please see attached copy of the brochure for reference.

#### **c. Regional Training-Workshop on Scaling-Up Agroforestry Promotion for Climate Change Mitigation and Adaptation**

A two-day training workshop was organized on October 9-11, 2009 at the University of the Philippines Los Banos, Philippines. Ten (10) faculty members representing the INAFE, LaoNAFE, PAFERN, ThaiNAFE) and VNAFE, including the six SEANAFAE Board Members comprised the training participants. In addition, the two representatives from the newest SEANAFAE country network, Malaysian Network for Agroforestry Education (MANAFE) were also invited as participants. Their transportation expenses were shouldered by SEANAFAE.

Among the topics that were discussed include: Recent Climate Change Research (delivered by Dr. Rex Victor O. Cruz, Dean of the UPLB-College of Forestry and Natural Resources); Multifunctionality of Agroforestry (delivered by Dr. Lutgarda L. Tolentino, Director of the UPLB-Institute of Agroforestry) and, Carbon Sequestration Potentials of Agroforestry Models in Vietnam (delivered by Dr. Bao Huy, Chair of the VNAFE).

This regional training-workshop served as a venue to review the draft brochure, and develop plans for the conduct of the National Agroforestry Roadshows in the five participating countries. The training participants also served as members of the multisectoral taskforces that would lead in organizing the Agroforestry Roadshows in their respective countries.

#### **d. National Agroforestry Roadshows**

The National Agroforestry Roadshows also known as caravan or motorcade served as the public awareness component of this regional project. These were organized as information campaign about the potentials of agroforestry in mitigating and adapting to climate change. The Roadshows were conducted in the most strategic location/areas in each of the five country networks.

- ***In the Philippines***, the National Agroforestry Roadshow was conducted on November 20, 2009 back-to-back with the 4<sup>th</sup> National Agroforestry Congress. The 4<sup>th</sup> National Agroforestry Congress, with the theme “ *agroforestry promotion for climate change mitigation and*

*adaptation: building lessons from the field*”, was convened to promote sharing of experiences of various stakeholders in agroforestry technology development, promotion and adoption; intensify agroforestry promotion; and highlight the experiences of agroforestry practitioners in agroforestry farm development. The Agroforestry Congress was highlighted by plenary paper presentation, concurrent paper presentation, poster presentation, Agroforestry Roadshow, and the signing of the declaration of support for agroforestry promotion. The plenary papers include the following topics: (1) Recent developments in climate change research; (2) Recognizing the multifunctionality of agroforestry: lessons from the field; (3) Agroforestry innovations in response to climate change; (4) Investing in the environment through the Ancestral Domain of the Higaonon tribe to meet the global challenge of climate change; and (5) Restoring the environment, securing the future through agroforestry: experiences of the DBP-Forest Program.

PAFERN and the Misamis Oriental State College of Agriculture and Technology tapped the financial support of other local institutions in the form of sponsorship, in order to carry out the activity more effectively.

Representatives from the different sectors such as the non-government organizations, academic institutions, research organizations, national government agencies, people’s organizations, international organizations, and local government units participated in the National Agroforestry Roadshow. The participants had the motorcade for one and a half hours from the venue of the 4<sup>th</sup> National Agroforestry Congress in Cagayan de Oro City, Misamis Oriental to the nearby communities and campus of the Misamis Oriental State College of Agriculture and Technology (MOSCAT) in Claveria, Misamis Oriental.

The organizers have mobilized the support of the local government units in Misamis Oriental, particularly in providing their service vehicles as transport of the participants during the motorcade. During the motorcade/caravan, the Agroforestry Jingles/songs that were produced by the founding director of the UPLB-Institute of Agroforestry, Dr. Romulo A. del Castillo, were being played to attract the attention of the public towards such a very relevant activity along the way. Information materials were distributed by the participants to the school children, people along the streets, farmers, teachers and government employees. In addition, other agroforestry supportive organizations in the province such as the ICRAF, DA, DENR-ERDS, and some private institutions equally shared their resources towards the success of the Roadshow.

Since some of the Congress/Roadshow participants are still unaware about how an agroforestry farm looks like, part of the motorcade is a visit to an Agroforestry Farm that is being managed by the practitioner and research from the World Agroforestry Centre. The Agroforestry Roadshow was culminated with a Farmers’ forum which provided an opportunity for the selected farmers to present their experiences in agroforestry farm development.

The 160 participants also signed a “Declaration of Support for Agroforestry as a Climate Change Mitigation and Adaptation Strategy in the Philippines”. This Congress declaration would serve as a policy instrument of the Philippine Agroforestry Education and Research Network in lobbying and in making representation with the policy-making bodies, including the local government units, for the institutionalization of agroforestry as a development strategy in the Philippines.

- **In Indonesia**, the National Agroforestry Roadshow was conducted through a “talkshow”, a seminar and a field trip. The talkshow which was held on the first day took place at the Rectorat Building University of Mataram, Indonesia. This activity was participated by 200 participants representing the government agencies, university staff, research agencies, environmental agencies, non-government organizations, private sectors, local people groups and students. Five

presentations about climate change and agroforestry were made. The topics include: (1) Biodiversity, Agroforestry and Climate Change; (2) Agroforestry Development for Climate Change Adaptation in Lombok Island; (3) The Landscape Problem and Mining; (4) Adaptation and Mitigation of Climate Change Through Agroforestry; (5) The Regional Policy for Agroforestry Development.

The talkshow was followed by a National Agroforestry Seminar which was highlighted by 30 papers and four poster presentation.

A field trip to Sesaot Village, Lombok Barat District was also organized by INAFE. Two buses and two cars were used to transport the field trip participants from the Faculty of Agriculture to the Sesaot Village. Among the sites that were included in the visit are: (1) *Forum Ranget*, an organization of local people aiming to conserve Ranget fountain. Ranget fountain is one of the most important fountains in Lombok Island that supplies water to thousands of households. Agroforestry systems, particularly the homegardens, are being implemented in most of the areas that surround the fountain. The participants had an opportunity to observe the different agroforestry systems that are being practiced in the area; (2) Forum Kawasan Petani Sesaot, an organization of local people that manages the community forest within the Sesaot Village; (3) Aik Nyet Area, which showcases different agroforestry systems; (4) Banyumulek, a pottery village centre in Lombok Island.

- The National Agroforestry Roadshow *in Lao PDR* is composed of two parts. The first part was a workshop, which aimed to discuss and present the potentials of agroforestry in climate change mitigation and adaptation. Three papers were presented in the workshop. These include: (1) The Roles of Agroforestry in Climate Change Mitigation and Its Potentials for Carbon Credit; (2) National Framework on Agroforestry Research and Extension; and, (3) Communities' Perception and Understanding About Agroforestry in Relation to Climate Change Mitigation and Adaptation. The workshop was participated by the 32 individuals, and eight institutions representing LaoNAFE.

Information materials were also given to the workshop and roadshow participants.

- *In Vietnam*, the National Agroforestry Roadshow was implemented by VVNAFE during the "Agriculture Spring Fair 2010" that was organized by the Ministry of Agriculture and Rural Development (MARD) on February 5-11, 2009 at the Vietnam Trade Promotion Center for Agriculture in Hanoi, Vietnam. VNAFE distributed different forms of information materials about agroforestry during the roadshow. These include 12 posters on agroforestry, 3000 leaflets, VACB project publications, brochure on "Recognizing the Potentials of Agroforestry in Climate Change Mitigation and Adaptation" and an agroforestry calendar shared by PAFERN, and Agroforestry Today journal. In addition, various agroforestry products were displayed. These include tea trees and tea products, persimmon, passion fruit trees, "Kiem Hong Hoang" a ground orchid, and *Parashrea stellata*, among others.

The staff members of the NOMAFSI were assigned in the whole duration of the Agriculture Fair to present the importance of agroforestry in climate change mitigation and adaptation, among the trade visitors and participants comprised of farmers, teachers, researchers, traders, students and many others, including foreigners who are connected with the different organizations in Vietnam.



- ***In Thailand***, the National Agroforestry Roadshow was conducted during the Agriculture Fair in December 2009. Among the highlights of the Agroforestry Roadshow include paper presentation, poster presentation, and the display of agroforestry products. The National Agroforestry Roadshow was conducted by the ThaiNAFE through the leadership of Dr. Pramoth Kheowvongsri.

**e. Development of a Policy Brief on promoting agroforestry as a climate change mitigation and adaptation strategy**

The Philippine-based project team initiated the development of a policy brief on promoting agroforestry as a climate change mitigation and adaptation strategy. The policy brief was based on the results of the National Agroforestry Roadshow, and the current state of agroforestry development and promotion in the five participating countries of this project. The policy brief is divided into five sections.

Section 1 discusses the issues on climate change, including its impacts to the agriculture sector, particularly the upland farmers. Section 2 discusses the basic concepts and principles of agroforestry, a land use management system that has been pointed out by many literatures as a key strategy for climate change mitigation and adaptation. This section also highlights the multifunctionality of the different agroforestry models that exist in the region.

Section 3 dwells on the experiences of the project team in scaling-up agroforestry promotion for climate change mitigation and adaptation through this APN-funded project. Lastly, Section 4 outlines the indicative policy options for institutionalizing agroforestry as a climate change mitigation and adaptation strategy. The indicative policy options were solicited from each of the country network coordinator or each PFT member, considering that policy making is unique in each of the five participating countries.

**f. Exploring for the expansion of the project concept to the other SEANAFE member-countries**

Recognizing the relevance of the APN-funded project in “Scaling Up Agroforestry Promotion in Southeast Asia”, the project team deemed it necessary and immediate to expand the project concept to Malaysia, through the Malaysian Network for Agroforestry Education (MANAFE), the recent and newest country network of SEANAFE. Thus, the project team conducted one of its meetings in Malaysia on March 26-29, 2010 to share the experiences of the team in project implementation, particularly the conduct of the National Agroforestry Roadshow. Agroforestry promotion is very much wanting in Malaysia, considering that most of its upland areas are also now being cultivated to agricultural crops.

The smooth implementation of the aforementioned project activities was made because of the close coordination of the PFT members and the project staff. Major activities of the SEANAFE also served as venues for the PFT members to consult with one another and discuss about the component activities of the APN-funded project, and monitor and assess the state of project implementation in each country, particularly the National Agroforestry Roadshow. This mechanism facilitated the timely implementation of project activities in each of the five country networks.

### 3.0 Results & Discussion

The capability-building program that was organized by the project team was indeed a timely and appropriate activity. This is because most of the junior teaching staff engaged in the offering of agroforestry education programs in their respective countries are either graduates of agriculture or forestry, and none of them has specialized in agroforestry. Thus, a general limitation on, in terms of the technical and integrative aspects of agroforestry

The training-workshop has enhanced the understanding and knowledge of the lecturers and teaching staff about the multiple benefits of agroforestry as indicated in the post-training evaluation. Agroforestry does not only address the basic needs of the upland farmers or upland farming community. The participants have realized that the benefits of agroforestry go beyond ensuring food security for each household, and rehabilitating the degraded upland areas. Through the lecturers and presentation of research papers on the contributions of agroforestry in carbon sequestration, the participants have realized the potentials of different agroforestry systems in climate change mitigation and adaptation.

The conduct of the National Agroforestry Roadshows has been an effective public awareness campaign on various climate change issues and the roles of agroforestry in addressing the impacts of climate change. The five National Agroforestry Roadshows were all well-attended by representatives from different sectors including the national government agencies, local government units, non-government organizations, students, farmers and farming communities, research institutions, international organizations, private organizations, and academic institutions. The research and field experiences that were shared by the experts in climate change and agroforestry have helped the public to become aware about the negative impacts of climate change and how agroforestry could help the humanity, particularly the farmers to cope with this global concern. In Laos, for instance, the participants have expressed their interest to organize similar activity to be able to share the potentials of agroforestry as a strategy in climate change mitigation and adaptation in different areas of Lao PDR. The organizers have also observed the interest of the participants because climate change is currently being experienced in the country as evidenced by the declining water level of the Mekong River brought about by long drought.

Meanwhile, the organizers of the National Agroforestry Roadshow in Indonesia recognized the need to implement similar activity in the future to highlight the many potentials of agroforestry in promoting sustainable natural resources management in the country. The government agencies represented in the INAFE-organized National Agroforestry Roadshow have also appreciated the implementation of the said activity, which is in line with the government's program on community forestry. The community forestry program employs agroforestry as its main production technology as stipulated in the Ministry of Forestry Regulation Number 37, Year 2007.

In the Philippines, the 155 delegates of the 4<sup>th</sup> National Agroforestry Congress and the National Agroforestry Roadshow have indicated their willingness and support for the promotion of agroforestry as a development strategy in the country at all levels and in all concerned sectors. This support is evidenced by the signing of the "Congress Declaration of Support for the Promotion of Agroforestry for Climate Change Mitigation and Adaptation in the Philippines". The Congress Declaration has been given to the member-institutions of PAFERN as an instrument/document in their lobbying with the policy-making bodies at the local level. The local government units and the public schools in Misamis Oriental where the Agroforestry Roadshow was organized, has also signified their support to help promote agroforestry among their constituents.

The brochure that was produced by the project team has also been adopted as an instructional material for the following courses that are being offered at the Don Mariano Marcos

Memorial State University (DMMMSU), La Union, Philippines: Introduction to Agroforestry, Introduction to Forestry, Environmental Education, Extension and Communication in Agroforestry, and Sustainable Development Concepts. As an extension material, 100 brochures were also distributed to farmers and other stakeholders during the Farmers' Forum on Climate Change as one of the highlights in the celebration of DMMMSU's 29<sup>th</sup> Foundation Anniversary on Jan. 15, 2010.

In Vietnam, the National Agroforestry Roadshow was attended by 200 participants from various sectors. VNAFE, the main organizer of the roadshow believed that the participants have expressed their appreciation about the different agroforestry models in Vietnam and in Southeast Asia, and have also recognized the need to implement these models in larger scales, perhaps on a landscape approach.

The sharing of project experiences with MANAFE was indeed a good start of the project team in line with its plan of expanding or replicating the project concept to the other Southeast Asian countries. The MANAFE representatives welcomed the idea of public awareness programs such as National Agroforestry Roadshows as one way of strengthening the advocacy for agroforestry as a climate change mitigation and adaptation strategy. This development would be considered by MANAFE in its future meetings/deliberations.

Finally, the policy brief that was drafted by the project team serves as its instrument in lobbying with the concerned policy-making bodies as regards the institutionalization of agroforestry as a development strategy.

#### 4.0 Conclusions

- a. ***The capability-building component of the project has enhanced the technical knowledge of the junior lecturers in the area of agroforestry.*** As discussed earlier, most of the teaching staff in agroforestry are either graduates of agriculture or forestry, and only a few have specialized in agroforestry. The training participants were all graduates of agriculture, forestry and environmental science programs. Yet, they are engaged in the implementation of agroforestry education programs in their respective universities. The Regional Training-Workshop on Agroforestry and Climate Change has enhanced their technical knowledge in agroforestry, and this has initially been applied in the successful conceptualization, organization and conduct of their respective national agroforestry roadshows.
- b. ***The public awareness component of the project, particularly the National Agroforestry Roadshows have proven to be an effective mechanism to promote the initiatives that have been undertaken by the practitioners and various sectors in agroforestry development and promotion in Southeast Asia.*** The National Agroforestry Roadshows that were conducted in the five participating countries enabled the researchers and development workers to share their field and research experiences in agroforestry technology development and promotion. There were about 20 papers that highlighted the roles of agroforestry in climate change mitigation and adaptation, as a result of the research activities. The agroforestry sites/areas that were included in the field visit component of the Agroforestry Roadshows have likewise shown that agroforestry is already being practiced on-the-ground.
- c. ***The public awareness program through the National Agroforestry Roadshow is an effective information drive about climate change and its impacts to the environment, and also provided an opportunity to enable the non-agroforestry practitioners to become aware and appreciate the many potentials of agroforestry in climate change mitigation and adaptation.*** Most of the

participants of the National Agroforestry Roadshows and Agroforestry Seminar are non-agroforesters but are engaged in agroforestry development and promotion. These awareness programs have enhanced their understanding about the technical and social aspects of agroforestry, which may help them in their advocacy programs in agroforestry.

- d. ***The existing partnership of the project team members (as SEANAFE members) facilitated the smooth implementation of this APN-funded project, and at the same time, this APN-funded project has further strengthened their existing regional collaboration.*** There were major activities of SEANAFE that were held back-to-back with this APN-funded project. Thus, SEANAFE has provided a number of counterpart funding in the implementation of APN-funded project. SEANAFE has shouldered the transportation expenses of the project team members and other training-workshop participants, during the Consultative Meeting-Workshop in June 2009 and the Regional Training-Workshop in October 2009, respectively. Meanwhile, the APN-funded project has fostered closer collaboration among the SEANAFE country networks. Now that SEANAFE has been transformed into an international non-government organization, this learning experience has contributed to the track record of the regional network in the implementation of projects that deal with the technical aspects of agroforestry and climate change.
- e. ***This project has enhanced the knowledge sharing and exchange of technical expertise among the participating country networks/SEANAFE member countries.*** The lessons and experiences in project implementation, particularly in the capability-building programs and National Agroforestry Roadshows could be replicated to the other countries in Southeast Asia such as Cambodia, Myanmar, Malaysia and perhaps in other tropical countries. The project team is very much willing to engage partnership with any development organizations in these countries to promote agroforestry not only as a climate change adaptation strategy, but as a development strategy, in general.
- f. ***This project has further strengthened recognition for agroforestry to be among the strategies for climate change mitigation and adaptation.*** The policy brief that was drafted by the project team calls for policy initiatives that would lead to the institutionalization of agroforestry in the five participating countries. The project team believes that the project should not just end in the development of the policy brief. The project team would like to continue its work of lobbying with the concerned policy making bodies for the adoption of these policy initiatives, particularly the institutionalization of agroforestry in the development programs of the concerned national government agencies, and local government units.
- g. ***Overall, the outputs and outcome of the project implementation, suggest the need to institutionalize agroforestry not only as a climate change mitigation and adaptation mechanism, but as a development strategy in Southeast Asia.*** The current state of the uplands and natural resources management, coupled with global climate change, calls for the integration of agroforestry as a key strategy/technology in development-oriented programs. Thus, concerned agroforestry advocates need to lobby with the concerned national government agencies, policy-making bodies at the national and local levels for the institutionalization of agroforestry in their respective areas.

## 5.0 Future Directions

- a. The lessons and experiences in project implementation, particularly in the capability-building programs and National Agroforestry Roadshows could be replicated to the other countries in Southeast Asia such as Cambodia, Myanmar, Malaysia and perhaps in other tropical countries.

The project team is very much willing to engage partnership with any development organizations in these countries to promote agroforestry not only as a climate change adaptation strategy, but as a development strategy, in general.

- b. This project has further strengthened recognition for agroforestry to be among the strategies y for climate change mitigation and adaptation. The policy brief that was drafted by the project team calls for policy initiatives that would lead to the institutionalization of agroforestry in the five participating countries. The project team believes that the project should not just end in the development of the policy brief. The project team would like to continue its work of lobbying with the concerned policy making bodies for the adoption of these policy initiatives, particularly the integration of the climate change and agroforestry concepts in the elementary and secondary education programs, and the institutionalization of agroforestry in the development programs of the concerned national government agencies, and local government units
- c. The project team has already conducted widespread promotion and public awareness programs as regards the potentials of agroforestry for climate change mitigation and adaptation. The project team would like to see the mechanisms that were employed by the farmers in coping with the impacts of climate change. Thus, the team deems it necessary to conduct another round of study that would dwell on the agroforestry activities and other climate change adaptation strategies that were employed by the selected farmers or farming communities, and how these practices could be improved to help ensure food security, improve farm production, improve soil condition, enhance ecological stability, and ensure a healthy environment/community.

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## Appendix A.

### 1. Consultative Meeting-Workshop of the Project Team

June 9-10, 2009

City Gardens Hotel, Makati City

Philippines

Agenda:

- a. Level-off about the overall project implementation, mode of project operation, roles of the project team members and the deliverables
- b. Refine the project work and financial plan
- c. Decide on the composition of a multisectoral taskforces in the five member-countries

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## 2. Workshop on Agroforestry Information Materials Development

August 5-7, 2009

Baguio City, Philippines

Agenda:

- a) To review the existing agroforestry information materials
- b) To brainstorm about the form of agroforestry information material that would be produced for use in the public awareness programs
- c) To develop an outline of contents of the agroforestry information material

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### 3. Regional Training-Workshop on Scaling-Up Agroforestry Promotion for Climate Change Mitigation and Adaptation in Southeast Asia

October 9-11, 2009, SEARCA Residence Hotel, University of the Philippines Los Banos College, Laguna PHILIPPINES

Objectives:

- To train two faculty members each of the five collaborating countries on the recent developments in climate change and the role of agroforestry in climate change mitigation and adaptation
- To review the draft brochure on "Recognizing the Potentials of Agroforestry in Climate Change Mitigation and Adaptation"
- To develop an action plan for the implementation of the National Agroforestry Roadshows

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#### 4. 4<sup>th</sup> National Agroforestry Congress and 1<sup>st</sup> Philippine Agroforestry Roadshow

November 18-20, 2009

Cagayan de Oro City, Philippines

Objectives:

- a. To highlight the experiences of various stakeholders in agroforestry technology development, promotion and adoption
- b. To intensify agroforestry promotion to the public through the agroforestry roadshow
- c. To organize farmers' forum that will highlight the farmers' experiences in agroforestry technology adoption

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## 5. National Agroforestry Roadshow

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Roadshow dan Seminar Nasional Agroforestri II

“Peran Agroforestry dalam Adaptasi dan Mitigasi Perubahan Iklim”

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## 6. Project Team Meeting

University Malaysia Sabah  
Kota Kinabalu, Sabah  
Malaysia  
March 23-25, 2010

### Agenda:

- To share the lessons and experiences of the project implementation with the MANAFE representatives for possible replication in their country;
- To distill lessons in the implementation of the National Agroforestry Roadshows in the five participating countries;
- To develop the content outline of the policy brief; and,
- To discuss the remaining project activities.

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## Appendix B.

### Funding sources outside the APN

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Southeast Asian Network for Agroforestry Education (SEANAPE)	Financial support in the implementation of the 5 <sup>th</sup> National Agroforestry Congress and National Agroforestry Roadshow in the Philippines
Development Bank of the Philippines	Co-sponsorship in the implementation of the National Agroforestry Congress and National Agroforestry Roadshow
World Agroforestry Centre (ICRAF-Philippines)	Co-sponsorship in the implementation of the National Agroforestry Congress and the National Agroforestry Roadshow
GLOBE Telecom, Philippines	Sponsorship support in the implementation of the National Agroforestry Roadshow

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## Glossary of Terms

PAFERN	Philippine Agroforestry Education and Research Network
INAFE	Indonesia Network for Agroforestry Education
LaoNAFE	Lao Network for Agroforestry Education
ThaiNAFE	Thailand Network for Agroforestry Education
VNAFE	Vietnam Network for Agroforestry Education
SEANAFE	Southeast Asian Network for Agroforestry Education
APN	Asia-Pacific Network for Global Change Research
MANAFE	Malaysian Network for Agroforestry Education
UPLB	University of the Philippines Los Banos
IAF	Institute of Agroforestry
DMMMSU	Don Mariano Marcos Memorial State University