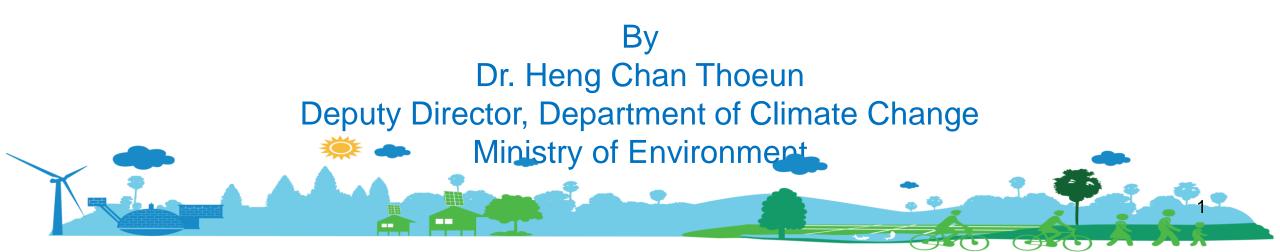


Workshop for Countries of the Asia-Pacific region: Advancing National Adaptation Planning and Implementation of Adaptation Actions in Asia-Pacific 15-16 February 2017, Radisson Blu Plaza Hotel, Bangkok

### Community Based Adaptation Programs in Cambodia



# Outline

- 1. National Strategic Development Plan (NSDP)
- 2. Strategic Objectives of CCCSP
- 3. CCCSP scale up of the implementation of CC response
- 4. Climate Adaptation livelihood Agriculture Community (CALAC)
- 5. Posters for Knowledge Sharing Event: Cambodia's Response to Climate Change

### **1. National Strategic Development Plan (NSDP)**

- NSDP 2014-2018 that is the road map for the implementation of the Rectangular Strategy Phase III in providing a development framework, which will be implemented through the next five-year period.
- Ministry of Environment (MOE) developed approach toward environmental management and mainstreaming into NSDP:
  - 1. Sustainable management of natural resources.

2. Intensifying efforts to reduce the impact of climate change by strengthening the adaptation capacity and resiliency to climate change, by implementing the "Cambodia Climate Change Strategic Plan (CCCSP) 2014-2023", "National Policy on Green Development" and the "National Strategic Plan on Green Development 2013-2030".

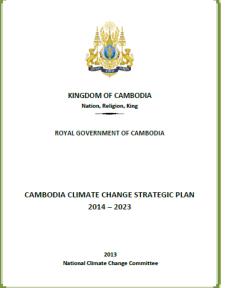
3. Strengthening technical and institutional capacity to promote the mainstreaming of climate change responses into the policies, laws and plans at national and sub-national levels.

4. Introducing measures to control environment and ecosystems



## 2. Strategic Objectives of CCCSP

- 1) Promote climate resilience through improving food, water and energy security
- 2) Reduce vulnerability of sectors, regions, gender and health to CC impacts
- 3) Ensure climate resilience of critical ecosystems (Tonle Sap Lake, Mekong River, coastal ecosystems, highlands etc.), biodiversity, protected areas and cultural heritage sites
- 4) Promote low-carbon planning and technologies to support sustainable development of the country
- 5) Improve capacities, knowledge and awareness for CC responses
- 6) Promote adaptive social protection and participatory approaches in reducing loss and damage
- 7) Strengthen institutions and coordination frameworks for national CC responses
- 8) Strengthen collaboration and active participation in regional and global climate change processes.



#### 3. CCCSP scale up of the implementation of CC response

- There are two programs of Cambodia Climate Change Alliance (CCCA) and Strategic Program for Climate Resilience (SPCR)
- National level: scaling up implementation of the sectoral CCAPs
- Sub-national level: scaling up support to awareness raising and capacity development of provincial and local authorities for CC mainstreaming
- Community Based Adaptation: scaling up adaptation project under program

# 4. Climate Adaptation Livelihood Agriculture Community (CALAC)

- **ORGANISATION:** Provincial Department of Agriculture (PDA)
- **REPORTING PERIOD:** [31 March 2014]
- The Project duration: [01, January 2013 31, March 2014]
  - The project will extend this activity by PDA and local community when project ended.
- Total Approved Budget: US\$ 163,004.40
- Total Expenditure to date: US\$ 163,004.40
- The Project partners: Famer Livelihood Development (FLD)
- **Project location:** Thma Koul, Moung Ruessei, and Koas Krala districts, Battambang province.

#### 4.1 Overall achievements and adaptation outcomes

- Awareness of climate change has been embedded in the community, as some of them are able to articulate basic definition of climate change and its impacts on their daily livelihood activities and how to cope with it.
- Water Management Committees are widely available in the communities to provide related services to the people and are better equipped and recognized by relevant authorities up to the provincial level.

- The existence of AC has raised sharply, a lot more community people reported that all AC members are active in the management and maintenance of the irrigation systems and in fund raising.
- With the new skills trained to them by the project, people reported increased income from their more options of livelihood activities.
- Overall, AC members' awareness of the main hazards of climate such as drought, flood, storm, warming and lightning has increased. They also understood that when climate change happened it could affect their livelihood activities such as vegetable growing and rice production.

#### 4.2 Capacity building activities discuss evidence of changes in capacities

- 1716 farming families have increased their rice short term production from 1 to 2 times per year, improving their living condition by selling their extra product for additional income.
- 262 community members have been aware on impacts of climate change and adaptation and been exposed to demonstrated adaptive agriculture techniques
  - 118 apply CC resilient rice planting techniques
  - 104 apply home gardening skills using the drip systems and plastic pouching,
  - 33 apply commercial gardening using the same skill and drip systems and plastic pouching and
  - 7 able to apply fish culture.

### By supported from PDA:

- 262 AC members were attended the monthly meeting and understood on climate change adaptation
- 60 AC committees' members were trained on climate change adaptation and able to transfer their knowledge to community members by AC monthly meeting.
- AC members have been able to apply adaptable skills to drought on agriculture activities to sustain their regular income as a result of improved resistant crops growing techniques and increased awareness on adaptation measures.

### 4.3 Assessment of adaptation demonstration activities

Adaptation Demonstration Activity	Number of villages where demonstration sites have been established	Total number of HH beneficiaries	Total number of Households Replicating the activity
Home garden	30	104	20
Commercial garden	30	33	3
Fish culture	7	7	13
SRI (System of Rice Intensification)	30	118	45
Total	97	262	81

### The five most important achievements:

- Four existing water sources have been renovated to adequately supply water for irrigating activities,
- 2) Twelve Agriculture Community (AC) has been formed and functioning, 4 AC in each district.
- 3) Facilitated and setup 104 demonstration home gardens ,applying drip system
- 4) Facilitated and setup 33 demonstration commercial gardens, applying drip system
  5) Thirty eight of PDA staffs have been trained on a series of course in relating to climate change and adaptation and 20 staff attended study tour.



### The five most important lessons learned:

- 1) Cooperation between FLD and PDA has been positive in every stage of project implementation.
- 2) The project engaged local authorities and built-in ownership toward implementation of the project.
- Skill training in promoting agriculture activities and an improved basic infrastructure – small scale irrigation is well balanced for the communities.
- The project team introduced cost and benefit analysis exercise to selected beneficiaries prior their establishment of home and commercial gardens and household fish culture, and gaining beneficiaries.
- 5) Selecting the right farmers, sustainability and reliability of the introduced dripping systems.



### The three most important recommendations:

- 1) Farmers showed hesitation to participate with the project when agricultural techniques were found new to them. This had consequently caused to delay a selection of beneficiaries.
- 2) Different profile of CALAC project beneficiaries from existing AC members have made difficulty to integrate. Practically, previous ACs in the localities has been gone through this practice with financing of World Vision, and other NGOs and PDA.
- 3) Some farmers rely on FLD or CALAC project team to supply their seeds. A development of local suppliers and experts in district level is crucial to encourage a sustainability of both materials and skill.



#### 5. Posters for Knowledge Sharing Event: Cambodia's Response to Climate Change



AGRICULTURE COMMUNITY

Provincial Department of Agriculture, Battambang Province



#### PURPOSE OF PROJECT

The project aims to improve sustainable livelihood options of target farmers by enhancing adaptation and resilience to drought and flood in vulnerable villages in Thma Koul, Moung Russei, and Koas Krala districts, Battambarg province.

#### KEY RESULTS

- Target farmers have increased farming activities, particularly on subsistence and cash crops growing and livestock production through improved small imigation systems with dequate water supply and sustainable management
- farmers have adaptable skills to drought and flood on agriculture activities to sustain their
  regular income as a result of improved resistant crops growing techniques and increased
  awareness on adaptation measures.
- Competent community based mechanism (AC) is in place to develop mitigation and adaptation measures to climate change
- Coping mechanism at provincial level is in place as evidenced by an integration of adaptation to climate change into district, commune, and provincial level planning

#### BACKGROUND

Bettamberg province has been identified by NAPA as the area most prone to droughts and floods. The poverty rate is higher in Thma Koul, Moung Ruessei, and Koash Krala amongst all 14 districts which ranged between 29.3% and 82.5% according to ID Poor 2010. These areas are most prone to floods and droughts. As revealed by the field assessment, existing irrigation systems in some communes in these districts have been deteriorated and most of them are idle. Generally, villagers have limited awareness on climate change adaptation and limited skills on climate realient agriculture activities. This has an impact on livelihoods and rural employment opportunities of farmers who are highly dependent on agriculture activities.

Water user/management committees exist but all have little or no functions because of shortage of water supply in the past recent years, poor leadership and limited capacity and demotivation of villagers to financially contribute. Communities therefore have weak coping mechanisms to address impacts on climate change in this area.

This project is designed to improve sustainable livelihood options of target farmers by enhancing adaptation and resilience to drought and flood in vulnerable villages in Thma Koul, Moung Ruessel, and Koas Krala districts, Battambang province.

	PROJ	ECT INFOR	MATION	
DURATION	15 months Jan. 2013- Mar. 2014	PROJECT PARTNERS	Farmer Uvellhoods Development (FLD)	
TOTAL BUDGET	\$265,716.90	LOCATION	Thma Koul, Moung Russel, and Koas Krala district, Battambang province	
CCCA-TF CONTRIBUTION	\$163,004.40	CONTACT	Counterpart Contact: Mr. Long Phom, Deputy of Agriculture Department, Provincial Hall of Battambang, Cambodia Tel: (855-12) 769 637 Email:	
CON-FINANCING	\$102,7125			
PROJECT DELIVERY	N/A			
PROJECT STATUS	New project			
LEVEL OF INTERVENTION	Sub- national			
			" LLAT	

Photo: CEDAC

#### GENERAL INQUIRIES

Cembodie Climate Change Alliance Trust Fund Secretariet, Ministry of Environment. #43, Preah Sihanouk Blvd, Chamkarmon, Phnom Penh, Cambodia Tel: (855-23) 6 403 833 i Emeil: secretariat/Pcamolimate.org.kh i Website: www.camolimate.org.kh

#### 5. Posters for Knowledge Sharing Event: Cambodia's Response to Climate Change





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# Thank you for your attention!

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