



## BUILDING CLIMATE CHANGE RESILIENCE FOOD SYSTEMS: INTEGRATING RESERVOIR AND RICE-FISH SYSTEMS, TAKEO PROVINCE, CAMBODIA

### Prek Leap National College of Agriculture (PNCA)



### PURPOSE OF PROJECT

The project aims to develop a climate resilient food system based on linking terrestrial (rice agronomy) and aquatic (rice field fisheries) through process of adaptive learning and co-management capacity building.

### KEY RESULTS

- The capacities of local institutions and communities to use IWRM and integrated fish farming to adapt to climate change are improved; and
- Target fisher communities apply integrated Water Resources Management (IWRM) and integrated rice-fish farming, reducing their vulnerability to climate change.

### BACKGROUND

Food production in rural Cambodia is a challenge due to multiple factors including the uncertainty of water availability due to climate change. Farmers need to adapt their rice fish farming or rice field fisheries due to increased climate variability, especially periods of prolonged drought in O' Saray, Takeo province. The Krob Trabek Reservoir can only store local water for early rice production. It is expected that an Integrated Water Resource Management (IWRM) framework can help to better adapt the reservoir for multipurpose use. Having a more stable water supply during a prolonged drought period will help focus farmers on learning about the climate change.

This integrated approach combining aspects of social-ecological systems, IWRM and rice-fish and rice field fisheries also provides new learning opportunities for the beneficiaries to monitor and adapt their livelihoods to any new conditions thus increasing overall social and ecological system resilience. The project is expected to have (1) detailed management plan and implementation strategy for Krob Trabek Reservoir based on establishing an indigenous species fishery, (2) PNCA-NACA facilitated



Seminar Series and Training curriculum developed for Climate Resilient Rice-Fish Farming Systems and Communities and Better Management Practices and (3) Publications including peer-reviewed literature on rice-fish aquaculture, rice-field fisheries, IWRM and use of collaborative learning approaches and stakeholder facilitation in building climate resilient rice-based food systems.

PROJECT INFORMATION			
DURATION	15 Months Jan. 2013- Mar 2014	PROJECT PARTNERS	Takeo Provincial Department of Agriculture (PDA); Network of Aquaculture Centers in Asia-Pacific (NACA) (Bangkok); Marine Institute International/Memorial University (Canada)
TOTAL BUDGET	\$168,366	LOCATION	O'Saray Commune, Takeo Province
CCCA-TF CONTRIBUTION	\$149,466	CONTACT	<b>Counterpart Contact:</b> Mr. Khannarith Lam, Deputy Director, PNCA St. National Road No.6, Prek Leap, Russey Keo, Phnom Penh, Cambodia Tel: (855-12) 707 677 Email: <a href="mailto:khannarith@yahoo.com">khannarith@yahoo.com</a> Website: <a href="http://www.pnsa.edu.kh">www.pnsa.edu.kh</a>
CO-FINANCING	\$18,900		
PROJECT DELIVERY	N/A		
PROJECT STATUS	New project		
LEVEL OF INTERVENTION	Sub-national		

#### GENERAL INQUIRIES

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