## Mainstreaming Climate Change Adaptation at the Local Government Unit through Community-engaged scholarship

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### Presentation Outline

- Context
  - Policy Context of CCA and DRRM: International, National and Local Levels
  - Community Engaged Scholarship: The CHE, UPLB experience
  - Case Site
- Experience
  - Phase 1: Capacity Building of the municipal agency focal persons and barangay development councils
  - Phase 2: Creation of Barangay Disaster Risk Reduction Plans
- Learnings and Insights
- Recommendations

### Policy Context of CC and DRRM

- Hyogo Framework for Action
- Philippine Disaster Risk Reduction Management Act of 2010 (RA 10121)
- Climate Change Act of 2009 (RA 9729)
- DILG-MC 2008-69 (Encouraging LCEs and Sanggunians to Implement Climate Change Adaptation and Disaster Risk Reduction Measures);
- DILG-MC 2008-123 (Mobilizing Local Actions to Address the Impacts of Climate Change);
- DILG-MC No. 2008-161 (November 3, 2008) (Trainer's Training on Mobilizing Actions to Address the Impacts of Climate Change);
- DILG-MC No. 2009-21 amending MC No. 2008-123 to include the National Movement of Young Legislators as one of the institutional partners in Mobilizing Local Actions to Address the Impacts of Climate Change; and
- DILG-MC 2009-73 (National Conference on Empowering LGUs to Clean the Air and Address Climate Change Through Partnership)
- Local Government Code of 1991
- Laguna Three-Year Provincial DRRM Plan

### **National Framework Strategy** on Climate Change

#### CLIMATE CHANGE

- Increasing temperatures.
- Charging rainfull patterns.
- See level rise.
- · Extreme weather events

#### CLIMATE PROCESS DRIVERS

- \* Erway
- Iransport
- Land the Change & Forestry
- \* Agriculture
- Worder

#### VISION:

A climate risk-resilient Philippines with healthy, safe, prosperous and self-reliant communities, and thriving and productive ecosystems

### SUSTAINABLE DEVELOPMENT

Goal To build the adoptive capacity of communities and increase the resilience of natural ecosystems to climate change, and optimize ratigation. opportunities fowards supplieruble development.



### IMPACTS AND VULNERABILITY

- Ecosystems (River Busins, Countril & Marine, Biodiversity)
- Food security
- Water resembles.
- Human broubby
- Infrastructure
- Increy
- \* Hamon scolety

#### MITIGATION

- \* Evergy Efficiency & Conservation
- Renewable Energy
- Environmentally Sustainable Transport
- Sustainable infrastructure.
- Matternal REDD+ Strategy
- Weste Management

#### ADAPTATION

- Enhanced Valnerability and Adaptation Assessments.
- Integrated Ecosystem-Based Management.
- Climate-Responsive Agriculture
- Water Governance & Management
- Climate-Responsive Health Sector
- Disaster Risk Reduction & Management

Copposity Development

**Eresulerder** Management

IEC and Advocacy Gernder

Research and Development Mainstreaming Technology Transfer

Multi-staleholder Partnerships

**Financing** 

**Websition** 

Policy, Marring and Mainstreaming

CROSS-CUTTING STRATEGIES

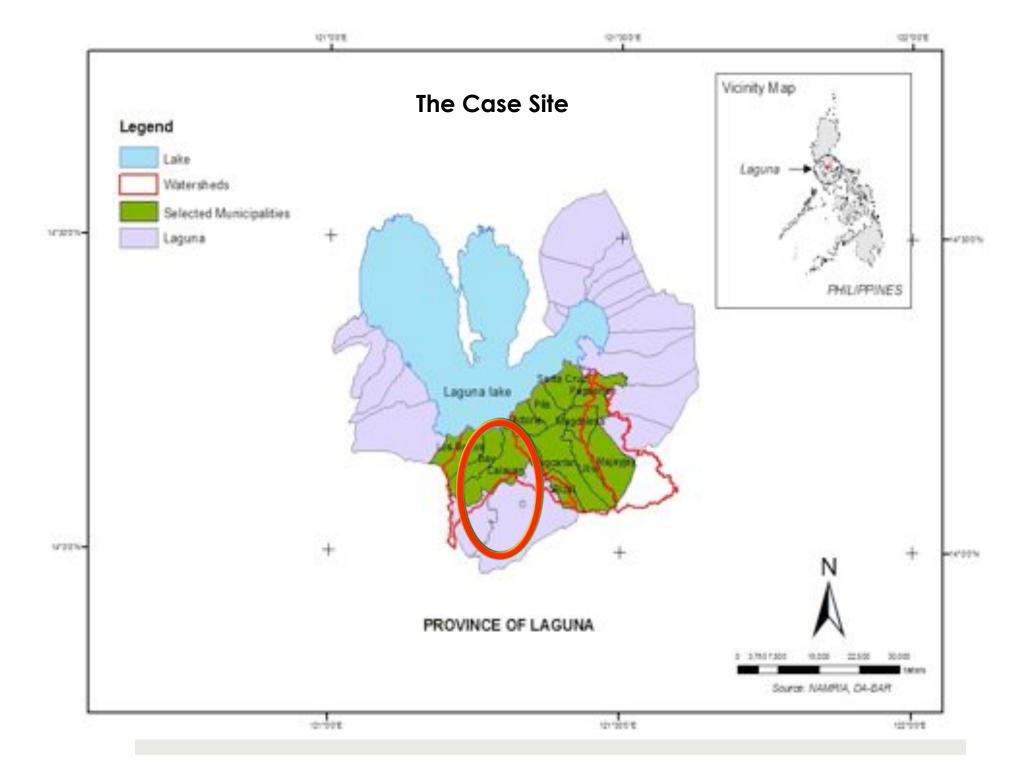
MEANS OF IMPLEMENTATION

## Community Engaged Scholarship

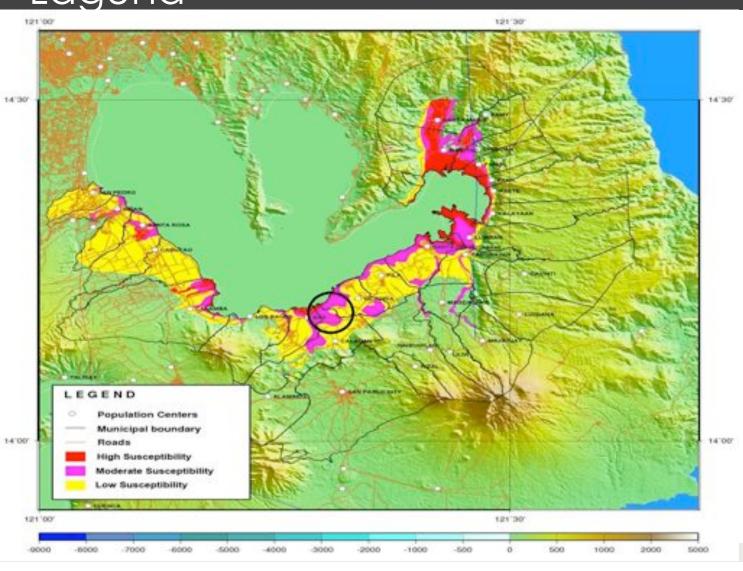
- "Community-engaged scholarship is scholarship that involves the faculty member in a mutually beneficial partnership with the community."- Linking Scholarship and Communities: The Report of the Commission on Community-Engaged Scholarship in the Health Professions
- "The scholarship of engagement means connecting the rich resources of the university to our most pressing social, civic and ethical problems, to our children, to our schools, to our teachers and to our cities..."Ernest Boyer in The Scholarship of Engagement

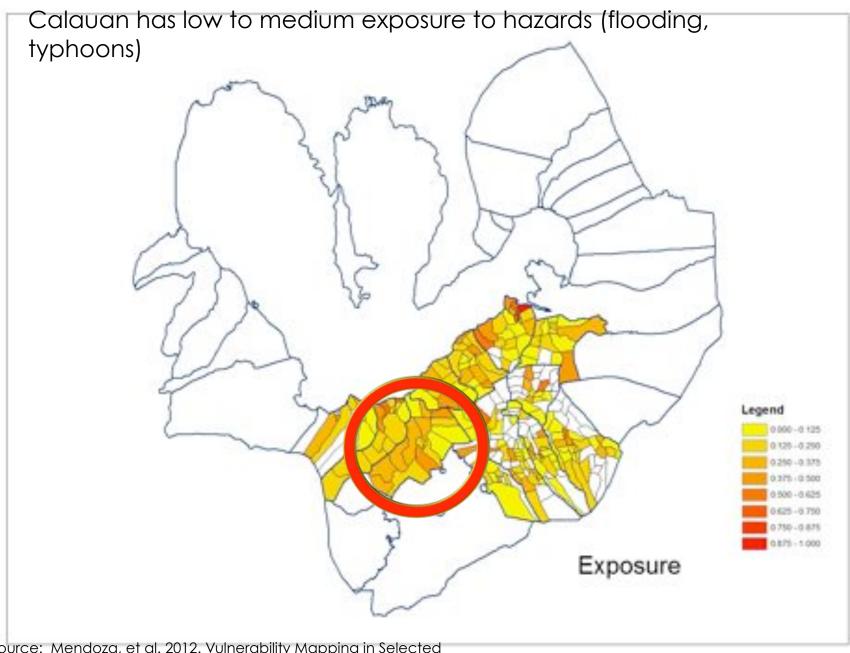


Source: Community-Engaged Partnerships for Health

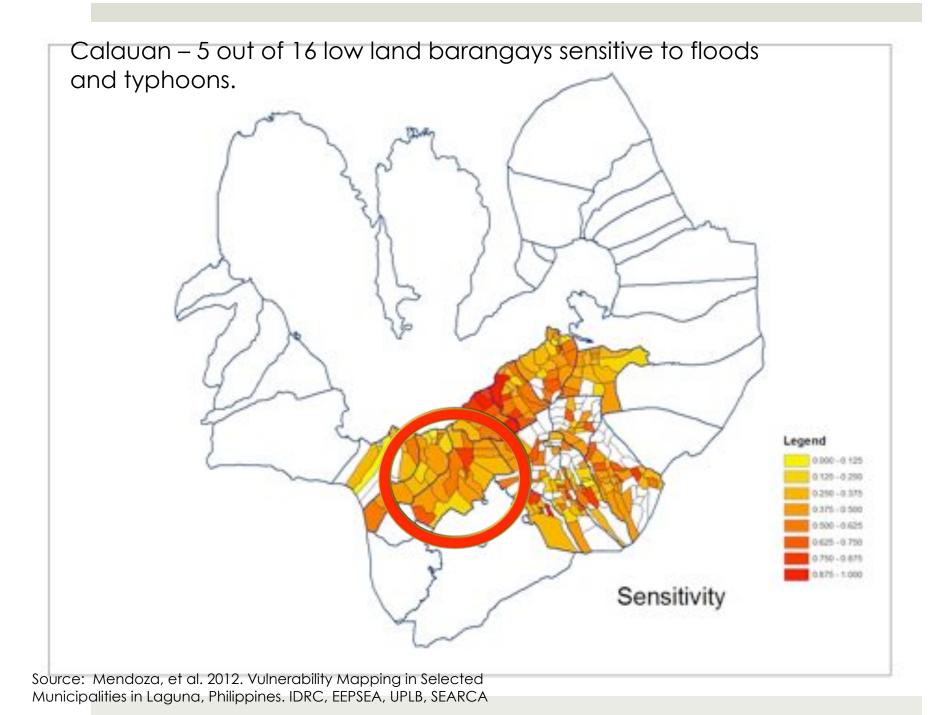


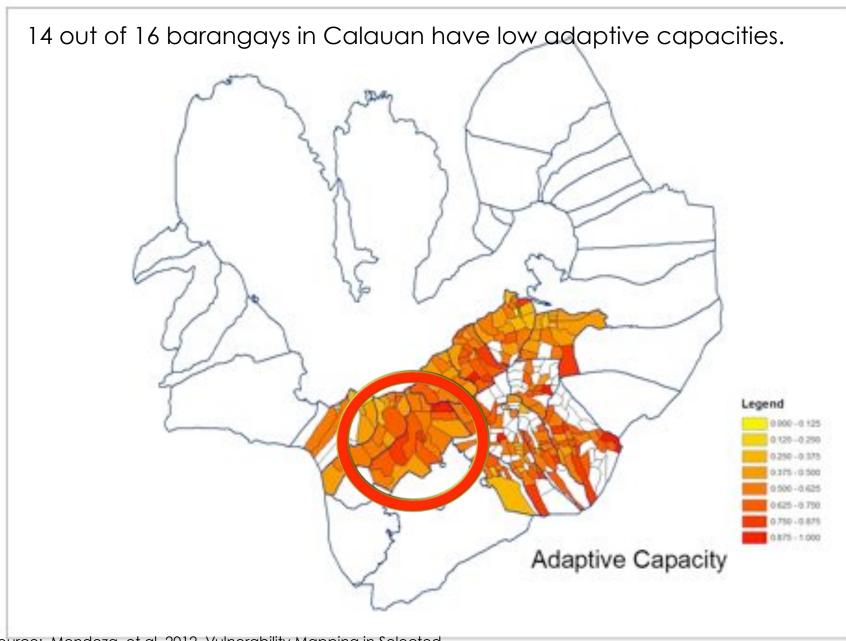
# Hydro-meteorological map of Laguna



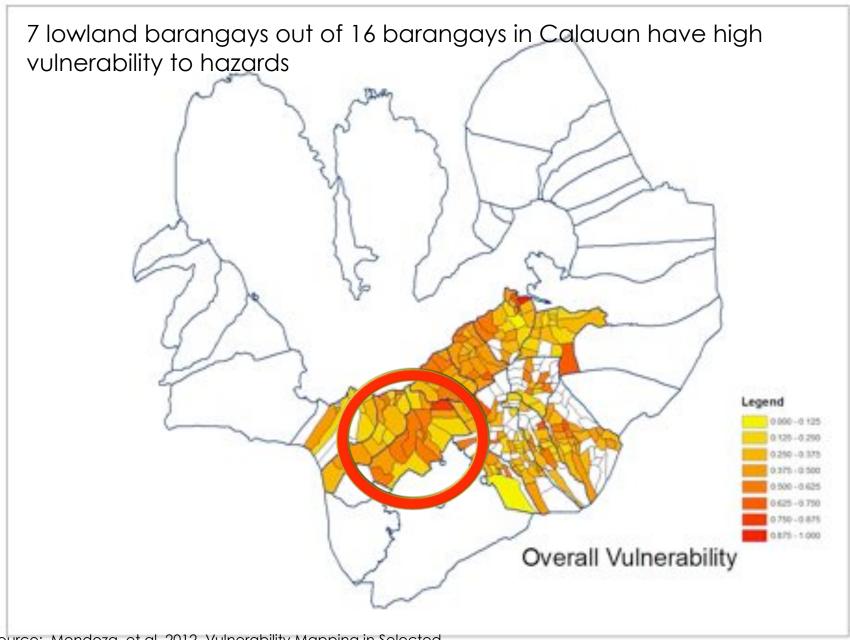


Source: Mendoza, et al. 2012. Vulnerability Mapping in Selected Municipalities in Laguna, Philippines. IDRC, EEPSEA, UPLB, SEARCA





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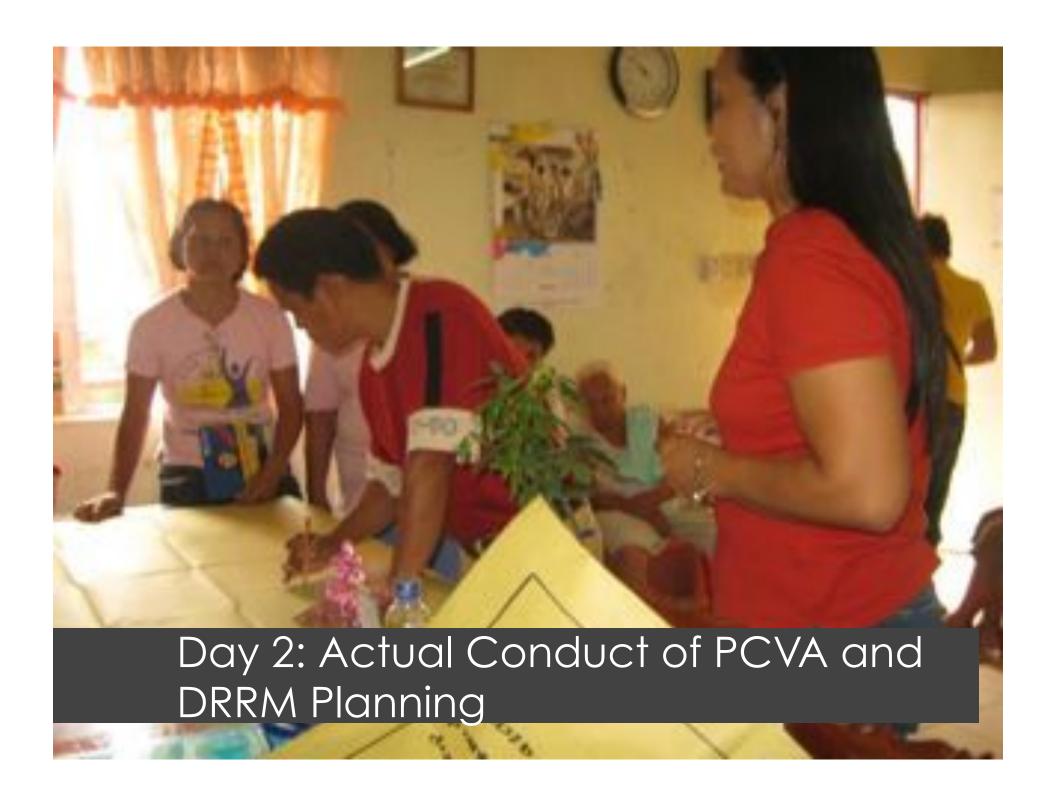
# Phase 1: Capacity Building on PCVA and DRRM Planning

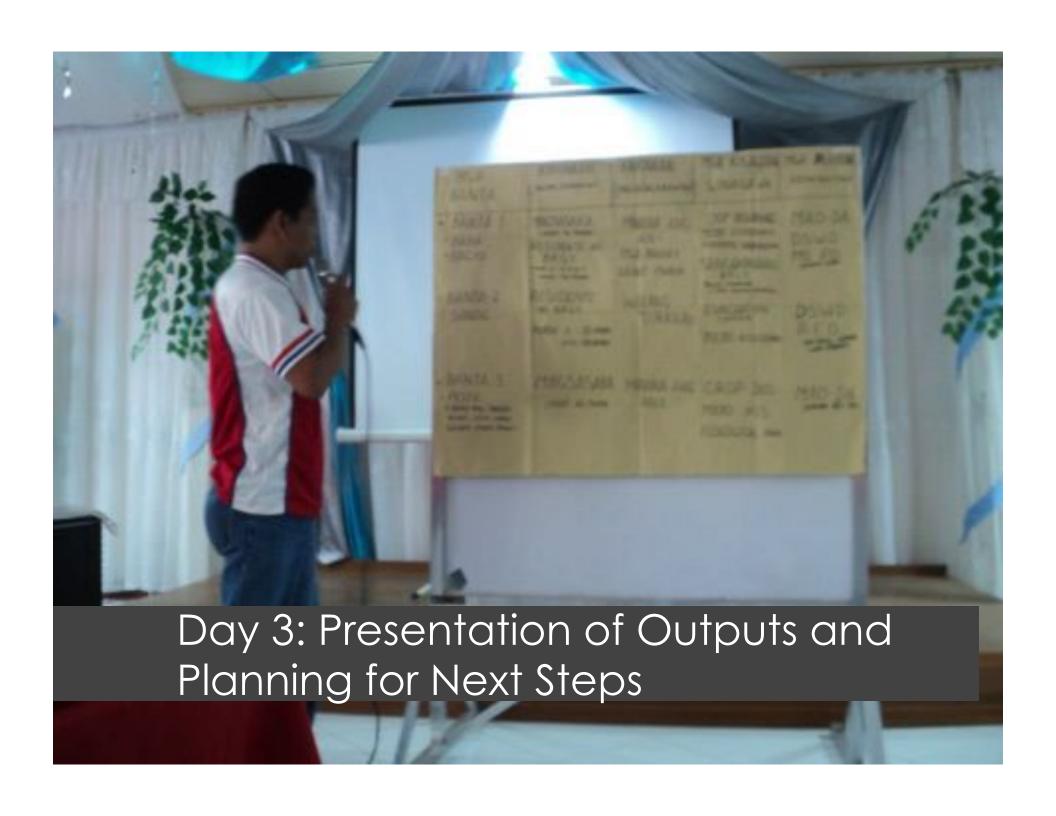
- Organizing Partners; Municipal Government of Calauan, Laguna and Department of Social Development Services, College of Human Ecology, University of the Philippines Los Banos
- 99 participants
- Municipal agency officers and 17 barangay development councils
- May 8-10, 2012; May 23-25, 2012 (Three-day training)
- Calauan, Laguna

# Participatory Community Vulnerability Assessment (PCVA)

- Tool in assessing the perception and experiences in hazards, the effects of hazards on people and property, capacity and resources, governance structure or policies and laws pertaining and laws pertaining to risk reduction
- Involvement of key stakeholders specifically the marginalized and vulnerable sectors (women, youth, senior citizens, farmers/fisherfolks, etc.)
- Tools: FGD, participatory mapping, vulnerability and capacity matrix, historical timeline





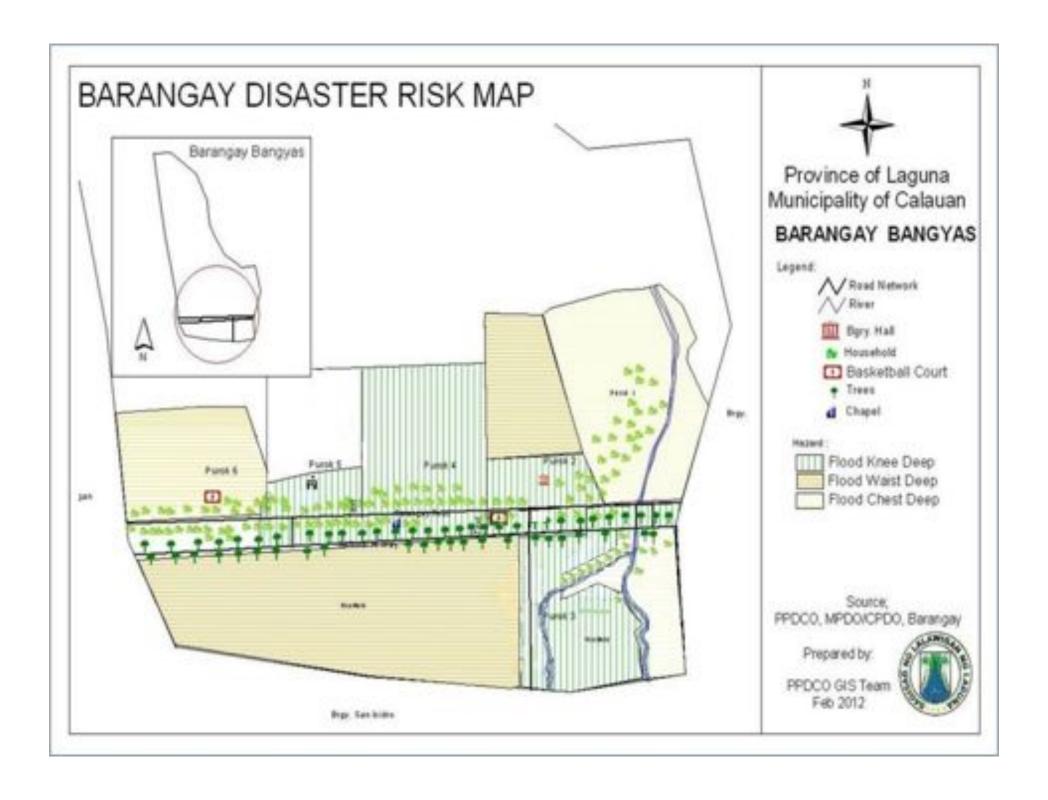


## Phase 2: Barangay Disaster Risk Reduction Plans

- BDRRM Plan for 2013
- □ SDS 31: Community Services and Programs (BS Human Ecology couse)
- Duration: June 2012 October 2012
- Barangay development council (barangay council, sectoral groups) as co-facilitators, participants and main authors
- Students as facilitators, faculty as supervisors
- First LGU in Laguna that complied with the creation of BDRRM plans in all of its barangay

## BDRRM Planning Activities

- SWOT of Barangay Capacities to Climate Change
- Evaluation research on capacities of social services to climate change and disaster risk reduction and management
- Participatory Barangay Disaster Risk Mapping
- Community DRRM Planning



## Sample BDRRM Plan Matrix

## BARANGAY RISK REDUCTION AND MANAGEMENT PLAN 2013 PAMAHALAANG BARANGAY NG HANGGAN, CALAUAN, LAGUNA HAZARO: BAHA (FLOOD).

PROGRAM/PROYEKTO/GAWAIN	SCHEDULE	INAASAHANG RESULTA	TAGA- PANGASWA	KALANGANG PONDO	EVALUATION
MITIGATION - DRAINAGE/RIVER CLEAN-UP	May, 2013 August, 2013	MAGING MABILIS ANG DALDY NG TUBIG SA PANAHON NG TAG-ULAN	SANGGUNIANG BARANGAY	P200.00-kada tao (P4,000)	INSPEKSION NG MGA KANAL AT DALUYAN NG TUBIG
PREPAREDNESS - PAGKAKARDON NG EVACUATION/RELOCATION AREA	June September, 2013	MALIKAS ANG NAAAPEKTUHAN NG BAHA LALO NA SA PURDK 2 AT PUROK 3	SANGGUNIANG BARANGAY	P250.00-kada tao P3-5,000- Bangka (P17,500.00)	PAGRONDA SA BUONG BARANGAY
RESPONSE - RELIEF OPERATIONS	June September, 2013	PAGBIBIGAY NG REUEF GOODS AT KALANGANG GAMOT SA MGA NAAPEKTUHAN	SANGSUNIANG BARANGAY DSWD DOH	P1075.00- kada pamilya (5 myembru) P550.00- kagamitang pangluto (P925,250.00)	SURIN KUNG NAKAKUHA NG KARAMPATANG REUEF GOODS AT MEDISINA BAWAT PAMILYA
RECOVERY/REHABILITATION - DOCUMENTATION - PAGSASAKFOS NG MGA - UUGAR NA NAAPEKTUHAN	June September, 2013	MAKAPAG-INSPEKSYON SA BUONS BARANGAY	SANGGUNIANG BARANGAY	P320.00-kada tao (P6,400.00)	INSPEKSION NG BUONG BARANGAY LAUD NA NG MGA LUGAR NA NAAPEKTUHAN

# Presentation of Draft BDRRM Plans to the BDC and sectoral groups



## Learnings and Insights

- LGUs particularly the barangays are the frontliners in CCA and DRRM it is thus important to build their capacities on these
- Maximize the strengths and resources of each institution (academe –i.e. research, knowledge management, technical know-how; government – policy, hands-on experience, mandate)
- Political Leadership is an important ingredient in mainstreaming CCA and DRRM in local development (plans and programs)
- Use of participatory methods in assessment serves as a venue to hear and listen to the inputs and recommendations of various stakeholders (particularly the marginalized sector) in CCA and DRRM

### Recommendations

- Continuous capacitation of local development councils and key stakeholders on CCA and DRRM specifically on:
  - Knowledge management
  - Resource mobilization
  - Monitoring and evaluation
  - Integration of BDRRM in Local development plans
  - Strengthening local CCA Adaptation policies and programs
- Research and feedbacking on impacts of community-engaged scholarship to both institutions
- Further strengthening of partnership between the community and academe in CCA and DRRM projects through institutionalization of partnership, curriculum development or improvement

### References

- IFRC and Red Crescent Climate Center. CCA Strategies for Local Impact: Key Messages for UNFCCC negotiations. May 2009
- Community-Engaged Partnerships for Health Promoting Health Equity and social justice. http://depts.washington.edu/uph/scholarship.html
- Mendoza, MET; Amparo, JMS; Visco, ES. Mainstreaming and Redefining Collective Action and Community-engaged Scholarship. 3<sup>rd</sup> Asia Pacific Regional Conference on Community Development, UP Diliman, Quezon City, Philippines. October 22-24, 2012
- Mendoza, MET; Ballaran, Jr, V.G.; Arias, J.K.B. Building Capacity to Adapt to Climate Change in Southeast Asia (powerpoint)
- Mendoza, MET; Ballaran, Jr. V.G.; Arias, J.K.B. Responding to the Vulnerability to Flooding: Towards the Transdisciplinarity of Climate Change Adaptation. Paper Presented during the Human Ecology Alternative Learning Sessions (HEALS) Forum, ICOPED, CEM, UPLB, March 4, 2013
- Department of Social Development Services, College of Human Ecology, UPLB. Training Module for the Training of Trainors. Training Workshop on Participatory Capacity Vulnerability Assessment (PCVA) for Disaster Risk Reducation and Management (DRRM Planning), May 23-25, 2012, Calauan, Laguna, Philippines

Maraming Salamat po. Thank you. Kamsahamnida.