

MAINSTREAMING THE TRANSDISCIPLINARY APPROACH TO DRRM THROUGH A GENERAL EDUCATION COURSE

Mark Albert H. Zarco, Benito M. Pacheco, Aurora Odette C. Mendoza, Flaudette May V. Datuin, Elenita N. Que, and Leonardo C. Rosete

> University of the Philippines Diliman Quezon City, Philippines 1101



INTRODUCTION

- Disaster Risk Mitigation, Adaptation, and Preparedness Strategies (DRMAPS) is an general education course offered by the University of the Philippines Diliman.
- It is administered by the Institute of Civil Engineering.
- DRMAPS has been offered during the 1st and 2nd semester of each Academic Year since June 2013.
- It can be taken by UPD undergraduate students to fulfill the Science, Technology, and Society GE requirement.
- This presentation explains how the Transdisciplinary Approach to DRRM is mainstreamed through DRMAPS.



INTERDISCIPLINARY, COLLABORATIVE, AND COOPERATIVE

TEACHING TEAM



INSTRUCTIONAL DESIGN

- Instructional design is based on a blendedlearning model based on the flipped classroom.
- Students are organized into multidisciplinary groups.
- In-exercises consist of group activities aimed at developing teamwork and leadership.
- Major requirement of the course involves developing a proposal for risk assessment case study.

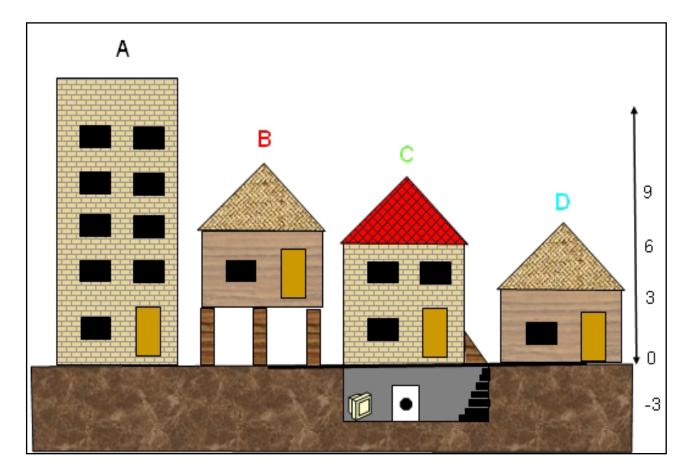


COURSE COVERAGE

- Disaster Risk Management Concepts
- DRRM Perspectives
 - Psycho-social : Quantifying risk perception and acceptance.
 - Socio-Political: Interplay of Politics/Governance, Economics, Social, and Environmental factors.
 - Ecocritical: How the media ecosystem shapes risk perception and acceptance.
- Disaster Risk Assessment
- Disaster Risk Communication
- Disaster Risk Management

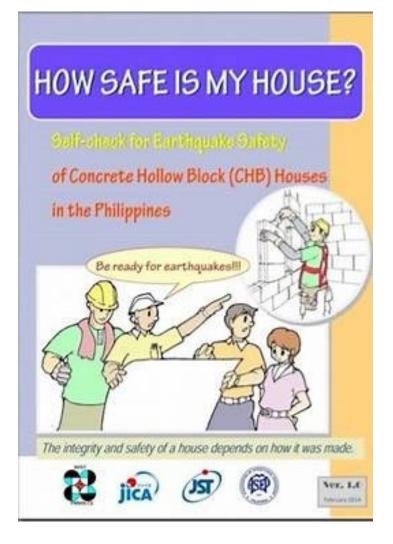


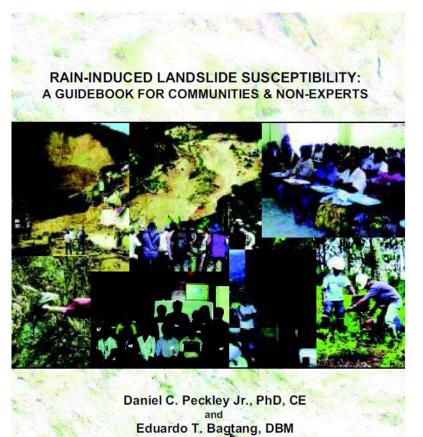
CORRELATING OBJECTIVE AND SUBJECTIVE RISK





NON-EXPERT RISK ASSESSMENT METHODS

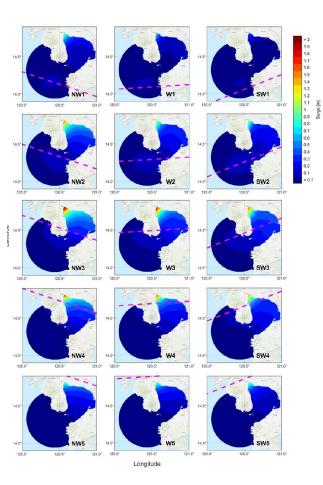






EXPERT ASSESSMENT METHODS

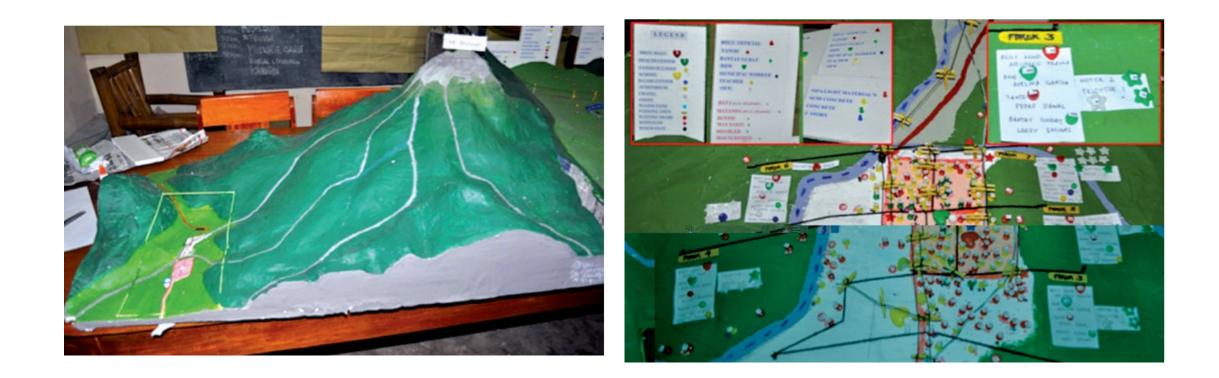




Villaba et al 20222



3-D PARTICIPATORY MAPPING



Cadag & Gilliard, 2015



CASE STUDY PROPOSAL

SUMALI SA AMING PAG-AAR

Ang aming pag-aaral na pinamagatang 'Pagsusuri sa Pananaw ng mga Manininda sa España Boulevard, Sampaloc Manila tungkol sa Panganib na dulot ng Pagbaha' ay naglalayon na:

- Malaman ang pananaw ng mga manininda sa mga impormasyong ibinibigay ng PAGASA.
- Matukoy ang pananaw ng mga manininda sa mga proyekto ng DPWH upang mairesolba ang pagbaha.
- Malaman ang kamalayan ng mga manininda sa mga serbisyong hatid ng LGU bago ang pagbaha.

OBHEKTIBONG PAGSUSURI

Pagsusuri ng kasaysayan at datos ng pagbaha sa España
Pag-aaral ng PAGASA local warning system at paggamit

Upang **maintindihan ang mga pananaw ng mga**

9

SUBHEKTIBONG PAGSUSURI

URVEY

Assessment of the Local Government Response to Land Subsidence and Sea-Level Rise in Sasmuan, Pampanga LAND SUBSIDENCE AND SEA LEVEL RISE

🎸 WFU5C - DA BOMB

Pampanga has been identified as one of the areas in the Philippines that has **shown** evidence of land sinking at an alarming rate, together with the provinces of Bulacan and Metro Manila





vulnerable to sinking

Sasmuan is sinking at two to four centimeters per year.

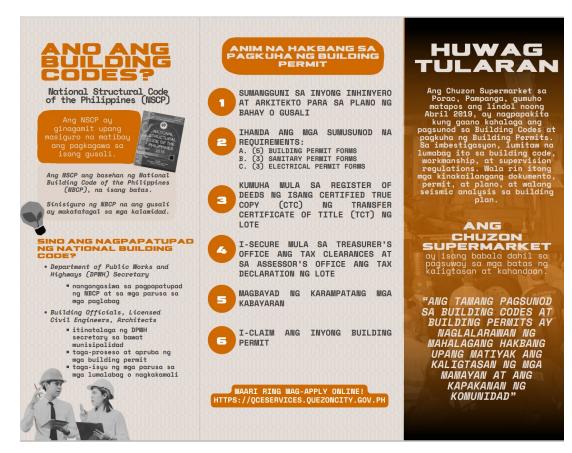


DE SILVA, FRANCESCA MARIE | LEE, JOANNA ANGELA | MARCELO, ANDREA DENISE | MORENO, FRANCINE GAYLE



CASE STUDY PROPOSAL







SUMMARY

- Since first being offered in June 2013, more than 3000 students have taken DRMAPS.
- Many case study proposals have been funded and implemented as undergraduate student research projects.
- Efforts are currently underway to implement similar versions of DRMAPS in other campus of the University of the Philippines System.
- There are plans to implement a MOOC version of the DRMAPS which would allow non-credit students to enroll in DRMAPS.



THANK YOU