

2014 12 17

The Development of Disaster Management and Role of The University of the Philippines

Carlos Primero D. Gundran, EMDM, FPCEM

EMS and Disaster Management Coordinator

UP-PGH and PCEM





Chapters

- 1. Ruby Towers
- 2. PD 1566
- 3. RA 10121
- 4. Pahinungod and UP Manila
- 5. UP Padayon



Casiguran Earthquake

- August 1, 1968, Friday, 8:19pm
- 7.3 Magnitude
- Casiguran, Quezon
- Deemed the most destructive earthquake in the Philippines before the 1990 Luzon Earthquake and generated a tsunami that reached as far as Japan



Effects In Manila

- 268 dead; 261 injured
- Ruby Tower collapsed like a house of cards
 - 6-story apartment-building
 - 260 died (600-800 tenants)
 - ? 270 badly injured survivors extricated
 - Undisclosed number of Chinese-Filipinos were never found.

Ruby Towers 1968



On the morning of August 11, 2001, the world saw the Ruby Towers in New York City. Some were the last to be destroyed by the towers.



Ruby Towers Collapse

- President Marcos declared a state of National Emergency
- 600-800 occupants still trapped inside
- 6000 volunteers helped try to extricate those trapped beneath the rubble
- Maj Gen Gaudencio Tobias, AFP Vice Chief of Staff, head of the Ruby Towers Rescue Efforts
 - Declared on August 9, 1968 that those not found might have escaped shortly after the collapse.



Ruby Towers and the Philippine Disaster Management

- Government's lack of interest in Disaster Management was somehow reversed
- Administrative Order 151: National Committee on Disaster Operation (NCDO) was put up 1968



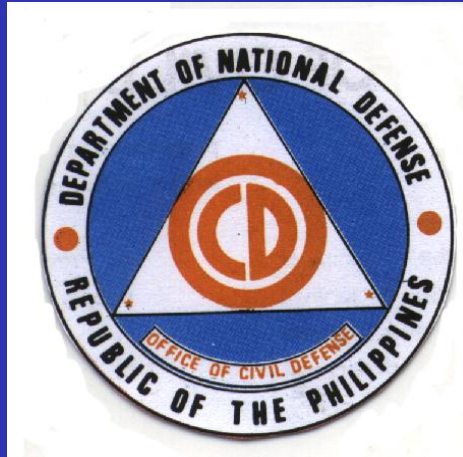
Ruby Towers and the Philippine Disaster Management

- 1970- Came the National Disaster Control Center, the forerunner of NDCC
 - NDCC was the highest policymaking body on disasters in the country
- 1973- Transferred to the newly created Office of Civil Defense
- *Ruby Tower earthquake survivors visit hallowed ground By Jerry E. Esplanada InquirerFirst Posted 06:25:00 10/30/2006*



The Philippine Disaster Management System

LEGAL AUTHORITY



PD 1566 (JUNE 11, 1978)

Strengthening the Philippine Disaster Control Capability and Establishing the National Program on Community Disaster Preparedness

OFFICE OF CIVIL DEFENSE



- The operating arm and secretariat of the National Disaster Coordinating Council.

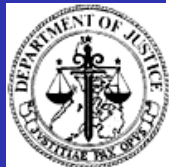


PD 1566, Sec. 1

Declaration of Principles

RESPONSIBILITY FOR LEADERSHIP RESTS ON THE PROVINCIAL GOVERNOR, CITY MAYORS, AND MUNICIPAL MAYORS, (AND BARANGAY CHAIRMAN), EACH ACCORDING TO HIS AREA OF RESPONSIBILITY.

Philippines



THE NDCC MEMBERS

- Secretary, Nat'l Defense - Chairman
- Secretary, Int.& Local Govt- Member
- Secretary, Public Works- Member
- Secretary, Health - Member
- Secretary, Social Welfare- Member
- Secretary, Agriculture- Member
- Secretary, Education- Member
- Secretary, Finance- Member
- Secretary, Labor & Employment-Member
- Secretary, Trade & Industry- Member
- Secretary, Trans. & Comm. - Member
- Secretary, Science & Tech. - Member
- Secretary, Budget- Member
- Secretary, Justice- Member
- Secretary, Natural Resources- Member
- Director, Phil. Info. Agency- Member
- Sec-Gen - Phil Nat'l Red Cross- Member
- Chief of Staff, AFP- Member
- Administrator, Office of Civil Defense - Member and Executive Officer



Problems

- Centered on Response
- Studies in Disaster Management reveals that the same amount of funds spent on response has a greater impact when spent on mitigation and preparedness.



Republic Act 10121

- AN ACT STRENGTHENING THE PHILIPPINE DISASTER RISK REDUCTION AND MANAGEMENT SYSTEM, PROVIDING FOR THE NATIONAL DISASTER RISK REDUCTION AND MANAGEMENT FRAMEWORK AND INSTITUTIONALIZING THE NATIONAL DISASTER RISK REDUCTION AND MANAGEMENT PLAN, **APPROPRIATING FUNDS THEREFOR AND FOR OTHER PURPOSES**
- **Sec 1:** "Philippine Disaster Risk Reduction and Management Act of 2010".
- **Signed July 27, 2009**



RA 10121

Sec 5

- The present National Disaster Coordinating Council or NDCC shall henceforth be known as the National Disaster Risk Reduction and Management Council, hereinafter referred to as *the NDRRMC or the National Council*



RA 10121

Sec 5

- The National Council shall be headed by the Secretary of the Department of National Defense (DND) as Chairperson
 - Secretary of the Department of the Interior and Local Government (DILG) as Vice Chairperson for Disaster Preparedness,
 - the Secretary of the Department of Social Welfare and Development (DSWD) as Vice Chairperson for Disaster Response,
 - the Secretary of the Department of Science and Technology (DOST) as Vice Chairperson for Disaster Prevention and Mitigation,
 - Director General of the National Economic and Development Authority (NEDA) as Vice Chairperson for Disaster Rehabilitation and Recovery.



RA 10121

Sec 12-b

- The LDRRMO shall be under the office of the governor, city or municipal mayor, and the punong barangay in case of the BDRRMC. The LDRRMOs shall be initially organized and composed of a DRRMO **to be assisted by three (3) staff responsible for: (1) administration and training; (2) research and planning; and (3) operations and warning.** The LDRRMOs and the BDRRMCs shall organize, train and directly supervise the local emergency response teams and the ACDVs



RA 10121

- **SEC. 15. *Coordination During Emergencies.*** – The LDRRMCs shall take the lead in preparing for, responding to, and recovering from the effects of any disaster based on the following criteria:
 - (a) The BDC, if a barangay is affected; (
 - b) The city/municipal DRRMCs, If two (2) or more barangays are affected;
 - (c) The provincial DRRMC, if two (2) or more cities/ municipalities are affected; (d) The regional DRRMC, if two (2) or more provinces are affected; and
 - (e) The NDRRMC, if two (2) or more regions are affected.
- The NDRRMC and intermediary LDRRMCs shall' always act as support to LGUs which have the primary responsibility as first disaster responders. Private sector and civil society groups shall work in accordance with the coordination mechanism and policies set by the NDRRMC and concerned LDRRMCs.



RA 10121

Sec 14:

- Integration of DRR Education into the
 - School Curricula,
 - SK Program, and
 - Mandatory Training Program for Public Sector Employees
 - Community Participation



RA 10121

Sec 14:

- The DepED, the CHED, the Technical Education and Skills Development Authority (TESDA), in coordination with the OCD, the National Youth Commission (NYC), the DOST, the DENR, the DILG-BFP, the DOH, the DSWD and other relevant agencies, shall integrate disaster risk reduction and management education in the school curricula of secondary and tertiary level of education, including the National Service Training Program (NSTP), whether private or public, including formal and nonformal, technical/vocational, indigenous learning, and out-of-school youth courses and programs.



RA 10121

Sec 14:

- **Community Participation**
- The NDRRMC, the LDRRMCs, the LDRRMOs, the BDRRMCs and the SK councils shall encourage community, specifically the youth, participation in disaster risk reduction and management activities, such as organizing quick response groups, particularly in identified disaster-prone areas, as well as the inclusion of disaster risk reduction and management programs as part of the SK programs and projects.

Philippines



THE NDRRMC MEMBERS

Secretary, Nat'l Defense - Chairman

Secretary, Int.& Local Govt- Vice chair for Disaster Preparedness

Secretary, Social Welfare- Vice-Chair for Disaster Response

Secretary, Science & Tech. – Vice Chair for Disaster Prevention and Mitigation

Director General, Economic & Development - Vice Chair for Disaster Rehabilitation and Recovery

Commissioner , Anti-Poverty Com- Member

Chair, Com Role of Fil Women- Member

Chair, Housing & Urban Devt- Member

Exec Dir, Climate Change Office- Member

Pres, GSIS- Member

Pres, SSS- Member

Pres, PHILHealth- Member

Pres, Union of Local Authorities- Member

Pres, League of Provinces- Member

Pres, League of Cities- Member

Pres, League of Municipalities- Member

Pres, Liga ng Baranggay- Member

Rep, CSO- 4 members

Private sector- 1 representative member

Administrators, OCD- Member

Secretary, Health - Member

Secretary, Natural Resources- Member

Secretary, Agriculture- Member

Secretary, Education- Member

Secretary, Energy- Member

Secretary, Trade & Industry- Member

Secretary, Trans. & Comm. - Member

Secretary, Budget- Member

Secretary, Public Works- Member

Secretary, Foreign Affairs- Member

Secretary, Justice- Member

Secretary, Labor & Employment- Member

Secretary, Tourism- Member

Secretary, Presidential Adviser on Peace Process- Member

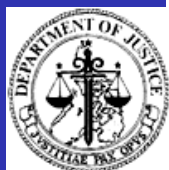
Chair, Higher Education- Member

Chief of Staff, AFP- Member

Chief, PNP- Member

Presidential Secretary- Member

Sec-Gen Red Cross- Member



ALL DCC LEVELS

PRESIDENT

DECISION

SND

EMPLOYMENT

OCD

ASSESSMENT

CONTROL

DAMAGE & NEEDS ASSESSMENT

SEARCH & RESCUE

FIRE SUPPRESSION

EMERGENCY MEDICAL SERVICE

EVACUATION & RELIEF

VOLUNTEER GROUPS & AUXILIARIES

GEOPHYSICAL

PHIVOLCS

HYDRO-METEOROLOGICAL

PAGASA

TERRORISM

AFP

EPIDEMICS

DOH

CIVIL DISTURBANCE

PNP

INFESTATION

DA

SURVEILLANCE

**FEEDBACK/
PLANS**

HAZARDS



Ugnayan ng Pahinungod

“Organization of Offering”



Ugnayan ng Pahinungod

- Volunteer arm of the University of the Philippines.
- Public Service like Medical Missions, Community Outreach and training programs
- Making use of the student and academe
- To help and educate the under-served community in far-flung areas.



Pahinungod Disaster Response Program

- 1994-
- Creation of the Disaster Management Program as part of the community health programs.
 - Based on the 1986 UN survey that the RP is 2nd on countries with most natural disasters.
 - Was created to complement other existing disaster response organizations and the private sector, Ugnayang ng Pahinungod Manila organized a committee to lay down the groundwork for the formation of the Disaster Management Program.

Pahinungod Disaster Response Program

- The Disaster Management Program shall respond to all disaster occurrences in the country
 - at the soonest time possible,
 - in all phases and levels, and
 - in coordination with the national and local government units and non-government organizations of the country.



Pahinungod Disaster Response Program Objectives

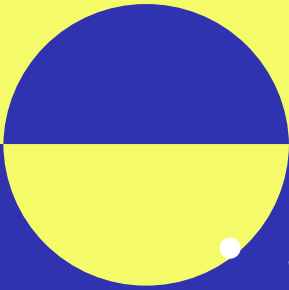
- 1. Organize the efforts of the volunteers of the UP Manila- Ugnayan ng Pahinungod in Preparation to Disasters
- 2. Coordinate with other organizations, both government and non-government agencies, involved in Disaster Management.
- 3. Conduct training of volunteers in all aspects of Disaster Response; and
- 4. Develop a comprehensive disaster management program in cooperation with the whole UP system.

Pahinungod Disaster Response Programs

• October 1995

- Disaster Response Center in San Fernando Pampanga.
 - Provision of Direct Medical Services to the Community.
 - Psychosocial Processing of the care givers and community members
 - Education and Training
 - Implementation of sanitation Programs in the Community
 - Assistance in livelihood projects
 - Sorting of Medicines
 - Assistance in Relief operations
- 2000- remaining programs were training in BLS

Re-launching of Disaster Management Program

- 
- July 25, 2011
 - Goals:
 - Educate the local community based on the Community Program on Disaster Preparedness.
 - To create awareness in the local community with regards to coordinating with various agencies/LGU's in times of crisis/need.
 - To enable them to perform risk assessments for the community and make the appropriate recommendations to mitigate these risks.

Re-launching of Disaster Management Program



• Goals:

- To act as observers in specific drills and trainings related to Disaster Management.
- To monitor the degree of learning thru drills, simulations, and exercises.
- To apply the knowledge and skills gained in Disaster Management to their respective community and other community immersion programs.
- To teach and train the local communities on proper Disaster Management.

Typhoon Sendong

December 2011

WARNING:

**This video
is not
for reproduction.**





Padayon Disast Medical

- 1 Trauma surgeon
- 2 Emergency physicians
- 2 Pediatricians
- 2 Psychiatrists
- 1 Family physician
- 1 Dentist
- 1 Emergency Medical Technician
- 1 Nurse
- 2 Information Officers



- 1 Anesthesiologist
- 1 Obstetritian-Gynecologist
- 1 Urologist





Mission Needs

Volunteers

From PGH/ UPM
Pahinungod pool

Airfare/ Airfreight

Metro Pacific
UP System
Cebu Pacific
LBC

Land Transportation

Sen. Koko Pimentel
Cong. Varf Belmonte

Medicines/ medical needs

Cardinal Santos Medical Center
Sen. Koko Pimentel

PGH PDAF

-Sen. F. Drilon

Sen. S. Osmena

Ex-sen. J. Flavier

Food/ Drinks for Volunteers

Alumni

Cong Varf Belmonte

Accommodation

Alumni



PADAYON! UP DISASTER RESPONSE

CHRONOLOGY OF ASSISTANCE

- UP FORMED FOUR (4) TEAMS FOR ILIGAN CITY DISASTER RESPONSE AND OFFERS ASSISTANCE TO MAYOR LAWRENCE CRUZ – DECEMBER 20

- HEALTH (led by Dr. Eric Talens of UP PGH)

To provide immediate medical care in evacuation centers, advise evacuees on proper health care, assess post-traumatic stress disorder, and assess and recommend to LGU improvements in health care management in evacuation centers



PADAYON! UP DISASTER RESPONSE

CHRONOLOGY OF ASSISTANCE

- COMMUNITY HEALTH AND WATER/SANITATION TEAM
(led by Dr. Buenalyn Ramos)

To assess management of evacuation camps, particularly those camps which may be used for long periods of time; water sources, toilets and waste-disposal systems; and recommend to LGU how to improve water and sanitation conditions in evacuation centers.



PADAYON! UP DISASTER RESPONSE

CHRONOLOGY OF ASSISTANCE

- FORENSIC TEAM
- (led by Dr. Racquel Fortun and Dr. Cora de Ungria)

To assist the local government in the identification of cadavers and help usher fast closure for families grieving from their losses; work with NBI in the collection of specimens from unidentified bodies; train local health officers and volunteers on proper protocols in retrieval, handling, and identification of bodies.



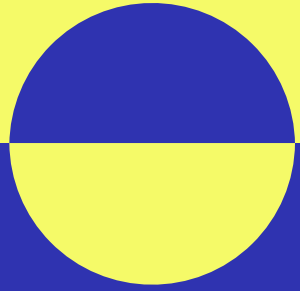
PADAYON! UP DISASTER RESPONSE

CHRONOLOGY OF ASSISTANCE

- GEO-HAZARD TEAM (led by Dr. Mahar Lagmay, UP NIGS)

Gather geo-hazard data from devastated areas;
assess viability of re-settlement of affected areas;
assess viability of proposed permanent relocation area;
and help LGU make decisions on resettlement and
reconstruction.

In the medium to long term, assist LGU in the
post-disaster reconstruction and planning (with UP
urban planners).



**University of the
Philippines**
Disaster Response



Disaster

Rebuilding/area development
“Bracing”/ disaster preparation
Mgt debriefng/ Recovery

Pre-Disaster

Post-Disaster

Risk identification
Disaster preparedness
Disaster response
training

Victim/ caregiver
debriefing
Rehabilitation
Livelihood reorientation

Disaster

Rescue/triage
Disaster mitigation
Evacuation
Acute medical/surgical care



Current University capabilities

Wealth of Expertise (training; service; research)

Engineering – rescue; transportation development;
power generation; robotics; shelter technology

Home Economics – livelihood training; housing/ settlement;
food technology; family/ community
management

Geology/ Geography

Health Sciences = Disaster medicine; emergency medicine; PGH; NIH;
Telehealth

**Faculty/ student/ employee/
alumni manpower**



Viabile UP Disaster Response

Coordinate relief

- in coordination with government

Post disaster management

Evacuation center management/ assistance

Medical/ surgical/ dental care

Victim/ care giver debriefing

Livelihood programs

Risk identification

Disaster preparedness/ Disaster response training

Rehabilitation (medical/ socio-economic)

“Bracing”/ Disaster preparation and Recovery



Peculiarities of “Sendong Disaster”

Geographical distance

- travel for care-givers/rescuers/responders
- cargo (relief, supplies for team)

Contacts

- Franciscans
- alumni
- government (LGU and DOH)

Accommodation and food

Problems in estimation

- no identified evacuation center (counts)
- no problem assessment
- Team safety
- Coordination incomplete

Ugnayan ng Pahinungod Manila

Disaster response and relief operations

Community empowerment

Risk-identification

Disaster preparedness courses

Basic practical Forensic Med Review
for local MD's/ health workers

Non-UP pool of volunteers



College of Public Health
UP Manila pool of volunteers

UP Manila

Unit Limitations

No built-in alert system and communication

No built-in intel gathering system

No clear policies as to:

which disasters to respond to

extent of response

timing of response

No direct NDRRMC connection

No direct DOH connection

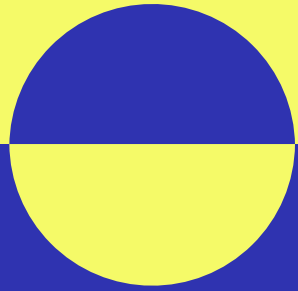
No contingency funds

2% fee on donations

Current PDAF policies

foundation fund policies





UP Manila

Unit Potential

More effective disaster response

Unified and comprehensive community empowerment

- Local MD training

- BHW training

- LGU-directed courses:

 - risk identification and assessment

 - disaster management and mitigation

 - setting up and management of evacuation centers

Capacity-building for UP staff and employees

- ATLS; Disaster management certificate courses

Assist national response (NDRRMC, DOH, AFP, NBI)



tential



UP Manila

As part of UP System DR

Prospective programs

Unified and comprehensive community empowerment

- Local MD training

- BHW training

- LGU-directed courses:

 - risk identification and assessment

 - disaster management and mitigation

 - setting up and management of evacuation centers

Capacity-building for UP staff and employees

- ATLS; Disaster management certificate courses

System-wide drills

UP Manila

As part of UP System DR Adapting current programs for a multi-disciplinary UP System DR

Clear and unified system policies re DR

Alert system and communication

Intelligence gathering and dissemination

Identification of focus areas for prioritization:

- disaster-prone areas

- high risk communities

Better technology for:

- water sanitation

- evacuation site evaluation

- safety evaluation of disaster sites

- housing technology, shelter management

- home economics and food technology

Livelihood programs

Advocacy/ Incentive system for continued support

**METRO
PACIFIC**
IS A DIVISION OF LIVINGSTONE-OTIS



CARDINAL SANTOS
MEDICAL CENTER
INTEGRATED CARE. EXPERIENCE. RESULTS.



LINGKOD KAPATID

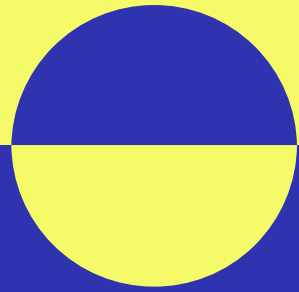
A Cardinal Santos Medical Center and UP-PGH MEDICAL MISSION
Iligan City and Cagayan De Oro



- **1st UP PADAYON PUBLIC SERVICE OFFICE CONFERENCE-WORKSHOP ON ORGANIZING A UP SYSTEM DISASTER RESPONSE FORMATION**
- **CONFERENCE THEME:** INSTITUTIONALIZING A UP SYSTEM DISASTER RESPONSE FORMATION
- **DATE:** NOVEMBER 19, 2012, 8am-5pm
- **PARTICIPANTS:**
- CHE, CSWCD, NIGS, NISMED, SURP, UP PGH/PUBLIC HEALTH, UPB, UPLB, UPM,(if possible, UP CEBU, UPV, UP MINDA)
- **OFFICE IN CHARGE:** UP PADAYON PUBLIC SERVICE OFFICE

OBJECTIVES

1. To translate lessons of the UP Padayon disaster response to Iligan into an **action plan** for a UP System Disaster Response formation;
2. To bring together units of the University with particular capacities for disaster response, determine roles and tasks of each particular unit in a System DR formation, project possible DR programs for target publics
3. To recommend capacity-building measures for a System DR formation; pinpoint particular concerns or areas where capacity-building could be had, determine capacity-building programs for the System DR formation



U.P. Padayon!

Preliminary Disaster Response Team Report

Iligan City
27-29 December 2011

U.P. Padayon!

Disaster Response in Iligan



Prepared by
U.P. Padayon Disaster Response Team
U.P. Office of the Vice President for Public Affairs
U.P. System Information Office



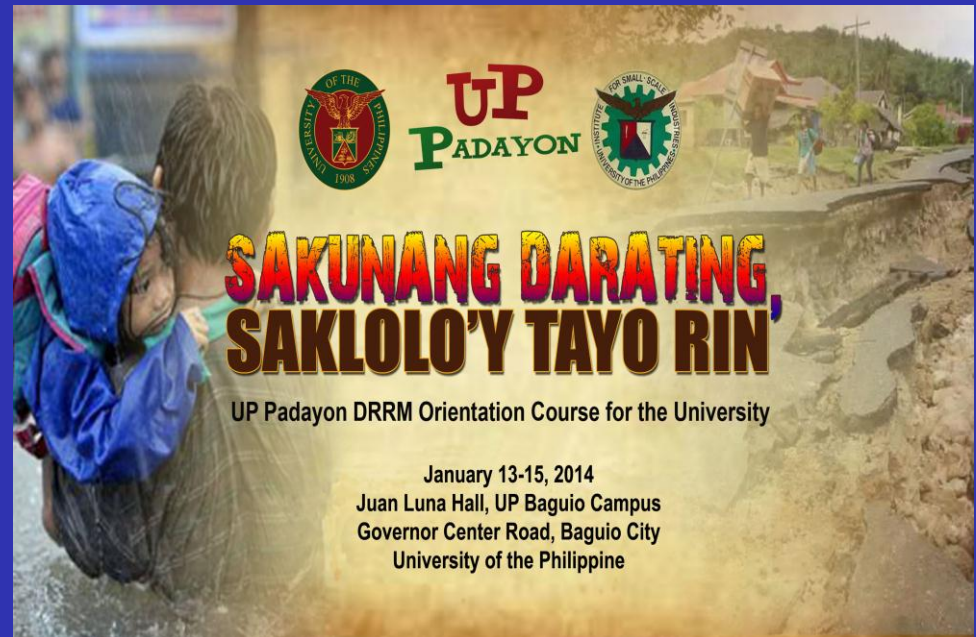


Disaster Responses

- 1. Sendong Iligan- December 2011
- 2. Davao- 2012
- 3. Bohol Earthquake- October 2013
- 4. Haiyan/Yolanda- December 2013

UP Padayon DRRM Orientation Course for the University

- UP Diliman
- August 13-15, 2013
- UP Baguio
- January 13-15, 2014





carlosprimerogundran@yahoo.com

THANK YOU