The Philippine Disaster Management System

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by:

Office of Civil Defense 3-Regional Disaster Coordinating 3 Council (OCD-NDCC)



Scope of Presentation

General Information on the Philippines RP Disaster Profile

State of DRRM in the Philippines Current DRR Initiatives

SNAP

DRRM Act 0f 2010

Climate Change Act of 2009

Challenges/Task

Introduction



The Philippines is an archipelagic nation located in Southeast Asia, comprising 7,107 islands, spanning 1,850 kms from north to south.

- Total land area 299,764 sq. kms.
- Coastlines 36,000 kilometers, the longest coastlines in the world

Bounded by three large bodies of water: on the west and north - by the South China Sea on the east - by the Pacific Ocean on the south - by the Celebes Sea and the coastal waters of Borneo



Topography

Large mountainous terrain, narrow coastal plains and interior valleys and plains make up the country's topography.



Three major island groups: Luzon - largest island group with 141,000 sq. kms. Mindanao - second with 102,000 sq. kms. Visayas - third with 57,000 sq. kms.

- Luzon is the most mountainous with extensive valleys and plains running through its interiors
- Three major mountain ranges in the area: the Sierra Madre, the Central Cordillera and the Caraballo Mountains
- The southern portion of the island has a dominantly volcanic
 topography with ridges and valleys of gentle slope and generally accordant drainage
- Active volcanoes such as Mt Pinatubo, Mayon Volcano and Mt Bulusan are found in this group of islands

Topography

- Visayas Island located in the central Philippines, has a severe dissection of topography due to its exposure to typhoons from Pacific and torrential rains
- characterized by mountains and hills (where peaks reach 900m), river basins, floodplains, plateaus and valleys
- Mindanao has diverse structural elements and different forms of physiographic development including fault block mountains, volcanic peaks, uplifted plateaus, low flat basins, a notable fault zone which also cuts through Luzon and Visayas, fissure low masses, and incised valleys and canyons.
- Major mountain ranges: the Eastern or Pacific Cordillera, the Bukidnon-Davao Range





Climate

- Tropical marine climate (has high temperature and warm air currents flow over its land masses)
- Dominated by two major seasons: wet and dry seasons
- The summer (southwest) monsoon brings heavy rains to most of the archipelago from June to November
- The winter (northeast) monsoon brings cooler and drier air from December to May
- Mean annual temperature is 26.6°C
- 28.3°C during summer months









Climate

- 25.5°C during rainy months
- Rainfall is the most important climatic element in the Philippines.
- Rainfall distribution throughout the country varies from one region to another, depending upon the direction of the moisture-bearing winds and the location of the mountain systems.
- Mean annual rainfall varies from 965 to 4,064 millimeters annually









Mabuhay!

Population – 94.01 million estimated as of July 2009 growth rate 1.96

Filipino – official language

90% of the population areChristians80% are Roman Catholics

The Philippines is a newly industrialized country, with an economy anchored on agriculture but with substantial contributions from manufacturing, mining, remittances from overseas Filipinos, and service industries such as tourism, and business process outsourcing.









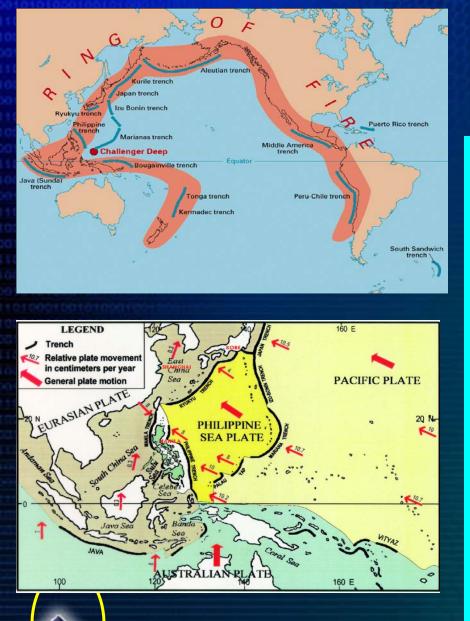
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RP DISASTER PROFILE

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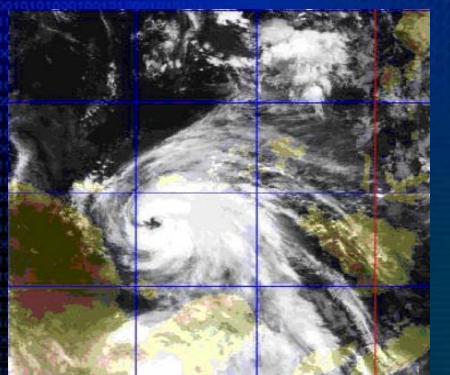


National Disaster Coordinating C

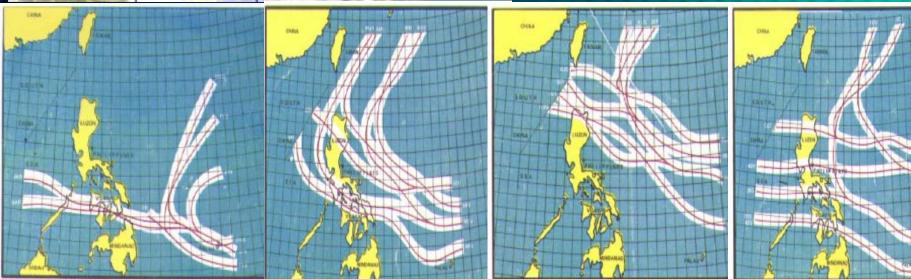
Natural Hazards: A Major Challenge to RP's Development Gains

- Situated along two major tectonic plates of the world – the EURASIAN and PACIFIC Plates
- average of 20 quakes per day
- 100 to 200 earthquakes felt every year
- 90 destructive earthquakes for the past 400 years
- 300 volcanoes, 22 as active
- 36,289 kms. of coastline vulnerable to tsunami

Natural Hazards Setting in the Philippines



- It is located along the typhoon belt on the North Pacific Basin in the Pacific where 75 percent of typhoons originate:
 - average 20 to 30 typhoons per year, 5 to
 7 of which can be destructive
 - eastern seaboard is highly exposed to typhoons with wind speeds of 200 kilometers per hour
 - 25 percent of typhoons of such high wind speeds in the world occur in the Philippine Area of Responsibility



FIRST QUARTER (JAN., FEB., MAR.)

SECOND OLIARTER (APP MAY HINE)

THIRD OLIARTER (ILLIY AUG SEPT.)

FOURTH OUAPTER (OCT NOV DEC)

Natural Hazards: A Major Challenge to RP's Development Gains





• From 1970 2009, annual average direct damage to disasters randocaller om PHP 5 billion to PHP 15 Billion (US \$ 100 Million to US \$ 300 Million), **indicect** and secondary of contents further V-SOUTHERN TAGALOGY

• Cost of direct damage is equivalent, to more than 0.5 % of the national GDP

 Annual average casualties due to natural disasters - 1,002

• Flooding as the toportest wind anal IX - ZAMBOANGA PENINSULA disaster during the tast five actor ARMM - AUTONOMUS RECION IN MUSLIM MINDANA years XIV - Sogcsks Anden







Disaster Impact (Last Quarter Storms of 2009: TS 'Ondoy', TY 'Pepeng' & TY 'Santi')

- Areas Affected: Twelve (12) Regions in Central, Northern and Southern Luzon
- Casualties: Dead – 956 persons Missing – 84 Injured – 736
- Severely Affected Population:
 9.3 M out of the 43.2 M population in affected regions
- Total Estimated Damage & Losses
 P 206 Billion or USD 4.38 Billion (equivalent to about 2.7% of GDP)
 - More than 90% of the damage and losses were suffered by the private sector
 - Biggest damage: Housing P25.5B; Businesses- P22.4B; Transport- P6.5
 - Largest Losses: Business- P88.9B; Agriculture- P47.5B; Housing P8.9B



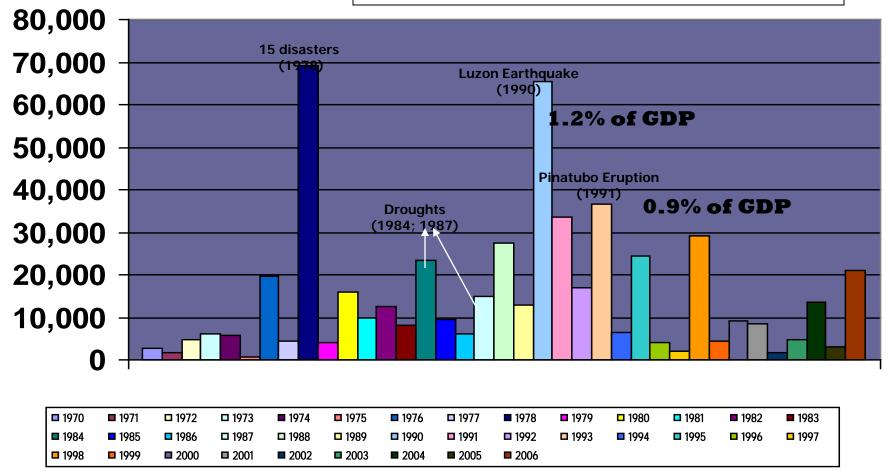




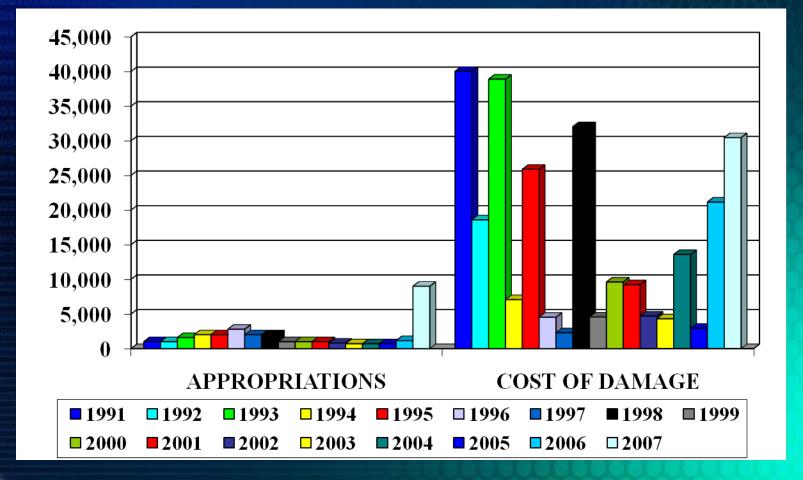
Estimated Damage of Disasters in RP (In M P @ 2000 Prices)

On the average, annual direct damage is P15 B

For typhoons, average of 0.5% of GDP every year



CALAMITY FUND APPROPRIATIONS VS. COST OF DIRECT DAMAGE (1991-2007)*



*January to June 2007. Appropriations include 8 billion CARE fund

Philippines Disaster Risk Reduction and Management Framework

OCD-NDCC





Evolution of Disaster Management Framework

- Traditionally, disasters were viewed as one-off events and responded to by governments and relief agencies
- The social and economic implications and causes of disaster events were not well appreciated
- This view engendered a disaster management framework that was focused on DISASTER RESPONSE



OFFICE OF CIVIL DEFENSE



The OCD serves as the operating arm and secretariat of the NDCC.

... has the primary task of coordinating the activities and functions of various government agencies and instrumentalities, private institutions and civic organizations for the protection and preservation of life and property during <u>emergencies</u>...

- LOI NO.19, S-1972



OFFICE OF CIVIL DEFENSE

Vision

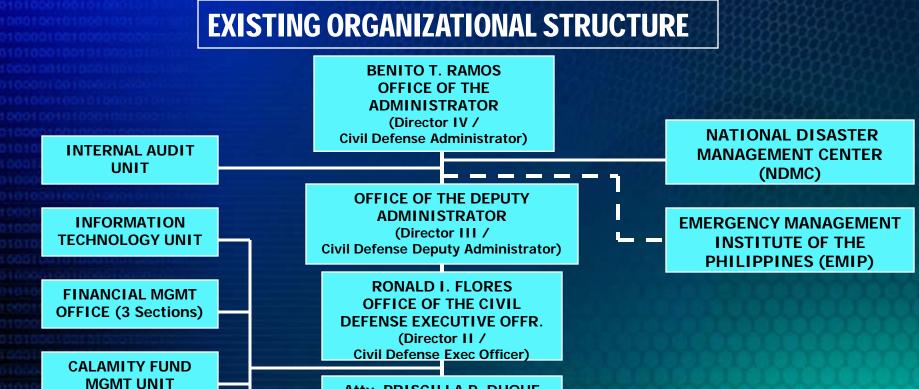
A service-oriented organization

- A prepared nation
- A safe population



Mission

To administer a comprehensive national civil defense and civil assistance program by providing leadership in the continuous development of measures to reduce risk to communities and manage the consequence of disasters.



Atty. PRISCILLA P. DUQUE OFFICE OF THE ASSISTANT CIVIL DEFENSE EXEC. OFFR. (Director I / Asst. Civil Defense Exec Offr)

DOLORES C MANIO ADMINISTRATIVE DIV. (4 Sections) (Chief -Administrative Offr

REGIONAL

MONITORING UNIT

Mrs CRISPINA ABAT PLANNING DIV. (3 Sections) (Chief-Planning Offr V) Atty PRISCILLA P. DUQUE TRAINING & INFORMATION DIV. (3 Sections) (Concurrent Chief – ACDEXO) JOSEFINA TIMOTEO OPERATIONS DIV. (3 Sections) (Chief - Civil Defense Officer V)

16 REGIONALCENTERS

The NDCC OPCEN (OPeration CENter)

- Center for coordination of all pre- and post-disaster operational activities
- Central command and control facility
- It does not normally control field assets and leaves tactical decisions to local disaster coordinating councils (DCCs)

Core functions

- Alert and monitoring
- Multi-agency operational coordination
- Response resource mobilization
- Information management, and

Program coordination for operations capability upgrade



PD 1566 JUNE 11, 1978

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

NDCC's LEGAL BASIS



PD No. 1566, Section 1 EGLARATION OF POLICIES

- RESPONSIBILITY FOR <u>LEADERSHIP</u> RESTS ON LOCAL CHIEF EXECUTIVES
- SELF RELIANCE, SELF HELP AND MUTUAL ASSISTANCE

(EACH POLITICAL AND ADMINISTRATIVE SUBDIVISION OF THE COUNTRY SHALL UTILIZE ALL AVAILABLE RESOURCES IN THE AREA BEFORE ASKING FOR ASSISTANCE FROM NEIGHBORING ENTITIES OR HIGHER AUTHORITY.)

- PRIMARY RESPONSIBILITY RESTS ON THE GOVERNMENT AGENCIES IN THE AFFECTED AREAS IN <u>COORDINATION</u> WITH THE PEOPLE THEMSELVES
- ALL GOVERNMENT DEPARTMENTS, BUREAUS, AGENCIES, AND
 INSTRUMENTALITIES TO HAVE <u>DOCUMENTED DM PLANS</u>
- NATIONAL GOVERNMENT EXISTS TO <u>SUPPORT</u> THE LOCAL GOVERNMENTS

Secretary, National Defense - Chairman

N

Nationa

Secretary, Interior & Local Gov't- Member Secretary, Public Works- Member Secretary, Transportation & Communication - Member Secretary, Social Welfare & Development - Member Secretary, Agriculture - Member **Secretary, Education - Member** Secretary, Finance - Member Secretary, Labor & Employment - Member Secretary, Trade & Industry - Member **Secretary, Health - Member** Secretary, Science & Technology - Member Secretary, Budget - Member Secretary, Justice - Member Secretary, Natural Resources – Member Secretary, Foreign Affairs - Member **Director, Phil. Information Agency - Member** Sec-Gen, Phil National Red Cross - Member Chief of Staff, AFP - Member

> Administrator, Office of Civil Defense – Member & Executive Officer

NATIONAL DISASTER COORDINATING COUNCIL

- HIGHEST POLICY MAKING, COORDINATING AND SUPERVISING BODY AT THE NATIONAL LEVEL FOR DISASTER MANAGEMENT IN THE COUNTRY
- ADVISES THE PRESIDENT ON THE STATUS OF NATIONAL DISASTER PREPAREDNESS & MANAGEMENT PLANS
- RECOMMENDS TO THE PRESIDENT THE DECLARATION OF STATE OF CALAMITY AND RELEASE OF NATIONAL CALAMITY FUND AS NEEDED



DCC ORGANIZATIONAL NETWORK



NATIONAL DISASTER COORDINATING COUNCIL

16 REGIONAL DISASTER COORDINATING COUNCILS

80 PROVINCIAL DISASTER COORDINATING COUNCILS

117 CITY DISASTER COORDINATING COUNCILS

1,496 MUNICIPAL DISASTER COORDINATING COUNCILS

41,945 BARANGAY DISASTER COORDINATING COUNCILS

International Frameworks that support and catalyze the strengthening of DRM



UN General Assembly Resolution 42/169 dated 11 Dec 1987

 1990 – International Decade for Natural Disaster Reduction

– Sec 7 "Calls upon Governments to participate … for concerted international action for reduction of natural disasters…hazards, assessing the particular requirements of their respective countries…"



World Conference on Disaster Reduction Kobe, Japan, January 2005

- Hyogo Framework for Action 2005-2015 "Building the Resilience of Nations and Communities to Disasters
 - Priorities for Action
 - 1. Ensure that disaster risk reduction is a national and local priority with strong institutional basis for implementation
 - 2. Identify, assess and monitor disaster risks and enhance early warning
 - 3. Use knowledge, innovation and education to build a culture of safety and resilience at all levels
 - 4. Reduce underlying risk factors
 - 5. Strengthen disaster preparedness for effective response at all levels.



NDCC Paradigm Shift

EMERGENCY MANAGEMENT

DISASTER RISK MANAGEMENT

Proactive

Reactive

Disaster Preparedness and Response Disaster Risk Reduction Disaster Risk Management (DRM)

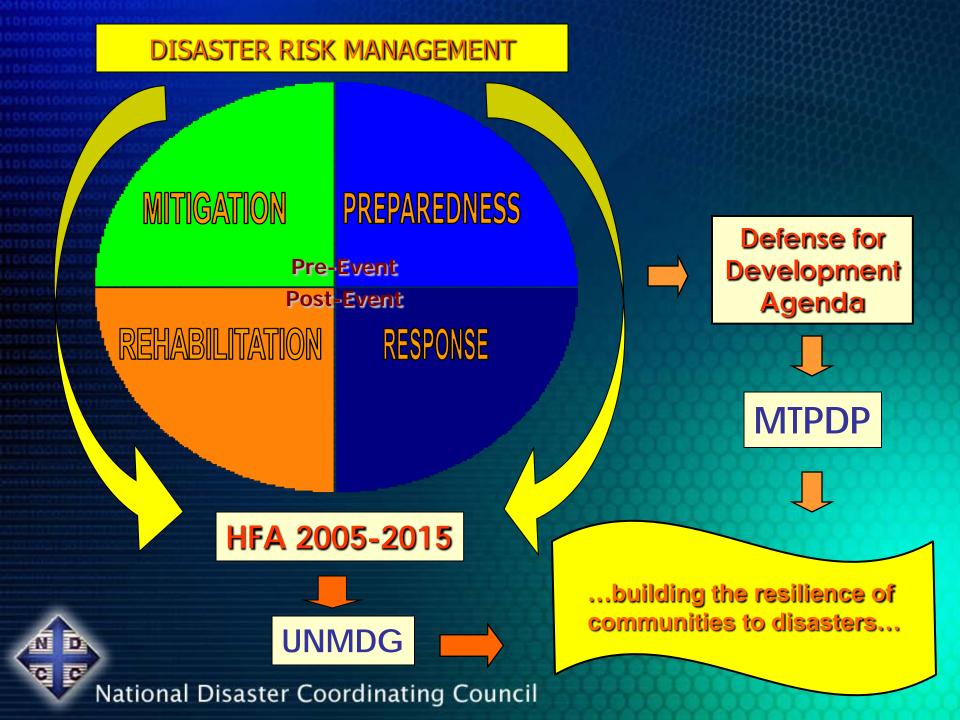
Emergency Specialists Hazard Scientists *Risks Specialists Economic Managers Development Planners*



" DRR, poverty alleviation and sustainable development are inextricably linked" National Disaster Coordinating Council

NDCC COMPREHENSIVE DISASTER MANAGEMENT FRAMEWORK





DISASTER RISK MANAGEMENT

READY Project (UNDP/AusAID/ADB) – 27 Provinces

MITIGATION

- Prioritization of Mapping (GOP) 16 Provinces
- Mainstreaming Disaster Risk Reduction
 - Infrastructure
 - Education Sector
 - Land-use & Physical Planning : NEDA/UNDP/ECHO
 - Local Governance
 - **Climate Change Adaptation**
 - DENR/FASPO/WB (GEF)
 - NEDA/DENR/UNDP/MDG-F
 - Flood Mitigation Master Plan DENR/DPWH

: DPWH/ADPC

e-Event

- : DepEd/ADPC/ECHO
- : DILG/GTZ/ECHO

DISASTER RISK MANAGEMENT

PREPAREDNESS

Pre-Event

- National Disaster and Calamities Plan
- NDCC Four- Point Plan of Action
- Keeping RP Bird-Flu Free: NAIPTF / AIPI Network
- Contingency Planning: LGUs/UNHCR
- National WASAR Training LGUs

National

- PEER Program (CSSR, MFR, HOPE) NSET/USAID
- CBRN Response Capacity Building Canada/USA
- PDRSEA Phase 4 Project– ADPC/UNESCAP/ECHO
- Learning from Good Practices on DRM OXFAM/APSEMO/ECHO
- Strategic Nat'l Action Plan on DRR –UNDP/ISDR/ECHO
- NAPC-VDC Sector Program on DRRM

DISASTER RISK MANAGEMENT

Mobilize Resources

- Local Government Units
- National Government Agencies (UN Cluster Approach)
- NGOs/Private Sector/ Civil Society)
- International (NGOs, Aid Agencies, UN)
- PMO 36, IHAN, ASEAN ADMER (SASOP)
- UN OCHA (UNDAC, Relief Web, CALAMIDAT.ph)

Post-Event RESPONSE



DISASTER RISK MANAGEMENT

Post-Event

- Build disaster resilient infrastructure and communities
- Rebuild houses and restore damaged infrastructure
- Address the immediate need for alternative livelihood
- Strengthen disaster risk reduction measures
- Strengthen institutional capacity
- Provide for business continuity

"BUILD BACK BETTER"

Passage and Implementation of of RA 10121 known as:

• "An Act Strengthening the Philippine **Disaster Risk Reduction (DRR) and Management System Providing for the National Disaster Risk Reduction and Management Framework and** Institutionalizing the National DRR and **Management Plan, Appropriating Funds** Therefor and for Other Purposes" or "Philippine DRR and Management Act of 2010" – passed into Law on May 27, 2010



Major Changes

- NDCC to NDRRMC, LDCC to LDRRMC, BDCC to BDRRM Committee of Brgy. Devt. Council
- Increase of agency- representation/membership from 19 to 38
- Establishment of LDRRMO with DRRMOC at all levels (Regional-Provincial/Municipalities/Cities)
- Establishment of Training Institutes (Nat'l. to Regional)
- OCD to be fully regionalized
- OCD Administrator from Director IV to the rank of Department Undersecretary
- Funding for OCD- PhP 1B as to the effectivity of the Act
- Calamity Fund (CF) is known as National Disaster Risk Reduction and Management Fund (NDRRM Fund)
- Local Calamity Fund (LCF) is known as Local Disaster Risk Reduction and Management Fund (LDRRMF)

NDCC vs NDRRMC

Secretary, National Defense - Chairman

- Secretary, Interior & Local Gov't- Member
- Secretary, Public Works- Member
- Secretary, Transportation & Communication -Member
- Secretary, Social Welfare & Development -Member
- Secretary, Agriculture Member
- Secretary, Education Member
- Secretary, Finance Member
- Secretary, Labor & Employment Member
- Secretary, Trade & Industry Member
- Secretary, Health Member
- Secretary, Science & Technology Member
- Secretary, Budget Member
- Secretary, Justice Member
- Secretary, Natural Resources Member
- Secretary, Foreign Affairs Member
- Director, Phil. Information Agency Member
- Sec-Gen, Phil National Red Cross Member
- Chief of Staff, AFP Member

Administrator, Office of Civil Defense – Member & Executive Officer

Chairperson: Secretary, National Defense

Vice chairpersons: Disaster Preparedness-Secretary, DILG Disaster Response–Secretary, DSWD Disaster Prevention & Mitigation-Secretary, DOST Disaster Rehabilitation & Recovery-DG, NEDA

Members:

- Secretary, DOH
- Secretary, DENR
- Secretary, DA
- Secretary, DepEd
- Secretary, DOE
- Secretary, DOF
- Secretary, DTI
- Secretary, DOTC
- Secretary, DBM
- Secretary, DPWH
- Secretary, DFA
- Secretary, DOJ
- Secretary, DOLE
- Secretary, DOT
- The Exec. Secretary, OP
- Secretary, OPAPP
 Chairman, CHED
- Chairman, CHED
 Chief of Staff AFI
- Chief of Staff, AFP
- Chief, PNP
- The Press Secretary

- Sec-Gen., Phil. Red Cross (PRC)
- Commissioner, NAPC
- Chairperson, NCRFW
- Chairperson, HUDCC
- Exec. Director, CC Office of the CCC
- President, GSIS
- President, PhilHealth
- President, ULAP
- President, LPP
- President, LCP
- President, LMP
- President, LMB
- Four (4) reps from the CSOs
- One (1) rep from the Private Sector

A P

Administrator, Office of Civil Defense – Member & Executive Director

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National Calamity Fund (NCF) and Local Calamity Fund (LCF)

- Under GAA, both Funds are being used to support disaster risk management and risk reduction activities;
- NCF is being used for DRR for mitigation, prevention and preparedness activities. It is also utilize for relief, recovery, reconstruction and other work or services in connection with natural or human-induced calamities which may occur during the budget year or those that occurred in the past 2 years from the budget year. For 2010, allocated CF is Php 2B (30% is allocated as QRF);
- LCF is the local government units allocated 5% fund from their annual revenue. The LCF is primarily use also for DRM-related activities specifically for post-disaster activities.



EO 888*: Adopting the Strategic National Action Plan (SNAP) on DRR 2009-2019 & Institutionalizing DRR

No.	Program/Project	Agency of Primary Responsibility
1	Governance and Peace/Disaster Risk	OCD
	Management (DRM) Act	
2	Multi-stakeholder Dialogues on Disaster	OCD
	Risk Reduction (DRR)	
3	Institutionalization of Disaster	DILG
	Management Office (DMO)	
4	Enhancing Capacity Development for Local	DILG
	Disaster Coordinating Councils (LDCCs)	
5	Mainstreaming DRR into the Peace Process	DND-AFP and OPPAP
6	Mainstreaming DRR in Various Government	NEDA
	Plans and Programs	
7	Public-Private Partnership (PPP)	OCD
8	Resource Mobilization	DBM
9	Information and Database Generation	DENR-NAMRIA

National Disaster Coordinating Council

*Signed on June 7, 2010

Strategic National Action Plan (SNAP)

No.	Program/Project	Agency of Primary Responsibility
10	Knowledge Management	DOST
11	Supporting DRR: Mainstreaming through Sectoral Approach	OCD
12	Preparedness for Effective Disaster Response	OCD
13	Information, Education and Communication (IEC) Campaign	PIA
14	Institutional and Technical Capacity Building	OCD
15	Education and Research	DepEd, CHED, DOST
16	Forecasting and Early Warning	DOST
17	Risk Evaluation	DILG
18	Development of Tools for Assessment and Monitoring of DRR Measures	NEDA

National Disaster Coordinating Council

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Challenges

 Disasters remain a major challenge to achieve a disaster-resilient and safer community by 2015

- Natural hazards abound: typhoon, flood, landslide, drought, volcanic eruption earthquake, tsunami, etc.
- Climate change remains a potential risk to the country
- Poverty, a vulnerability condition, prevails
- Fast growing population, increasing population densities, urbanization, environmental degradation and pollution increase disaster risks

Tasks at Hand

- Drafting of the IRR of RA 10121 (ongoing)
- Implementation of the Strategic National Action Plan (SNAP) in view of the approval of Executive Order 888
- Observance of National Disaster Consciousness Month (July) highlighted by the "Gawad KALASAG"
- Preparations for the onset of the rainy season
- Continuing implementation of current programs and projects



Conduct of Training & Seminars





CLARK FIELD, PAMPANGA - JUNE 27-JULY 3,210

PNP TRAINING

National Disaster Consciousness Month July 1, 2010 – kick-off Ceremo







National Disaster Consciousness Month First Aid and Basic Life Support Olympics



PO CITY CUNVEN





National Disaster Consciousness Month First Aid and Basic Life Support Olympics



PO CITY CUNVER











Organizational Performance Indicator Framework

Societal Goal	NATIONAL SECURITY TO UPHOLD SOVEREIGNTY AND TERRITORIAL INTEGRITY, SUPPORT SOCIO-ECONOMIC DEVELOPMENT AND POLITICAL STABILITY				
Sectoral Goal	ral PEACEFUL, SECURE AND STABLE INTERNAL AND EXTERNAL ENVIRONMENT				
Organizational Outcome	Partnership in the Asia-Pacific Region	Lives Protected and Property Preserved in time of war and other national emergencies			
Major Final Output	Disaster	Risk Reduction Man	agement		
Programs/ Activities/ Projects	Risk Identification and Hazards Vulnerability Assessment	Civil Protection and Preparedness	Coordination of Disaster Response Operations and Rehabilitation Initiatives		

Maraming Salamat

Thank you

