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# THE PHILIPPINE DRRM

## DISASTER RISK REDUCTION AND MANAGEMENT SYSTEM

Office of Civil Defense  
National Disaster Risk Reduction and Management Council

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### Scope of Presentation

- I. The Philippine Disaster Risk Profile
- II. Paradigm Shift in the Philippine DRRM System
- III. Four DRRM Thematic Areas
- IV. Challenges



# I. THE PHILIPPINE DISASTER RISK PROFILE

## Disaster

A serious disruption of the functioning of a community or a society involving widespread human, material, economic or environmental losses and impacts, which exceeds the ability of the affected community or society to cope using its own resources.

~ Republic Act 10121



# Why do we have disasters?

## Pacific Ring of Fire

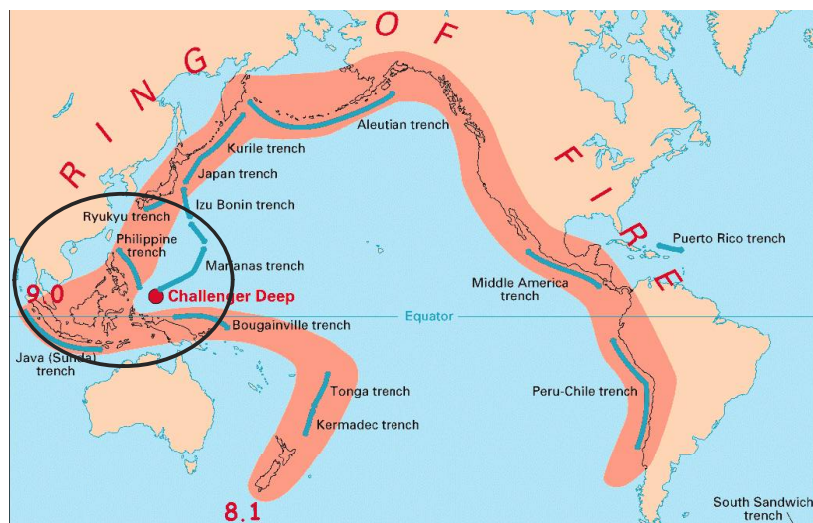


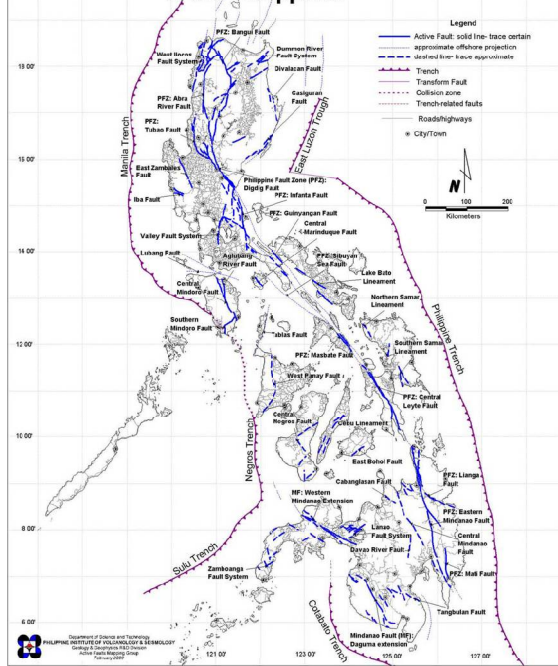
Photo credit: wikipedia.org



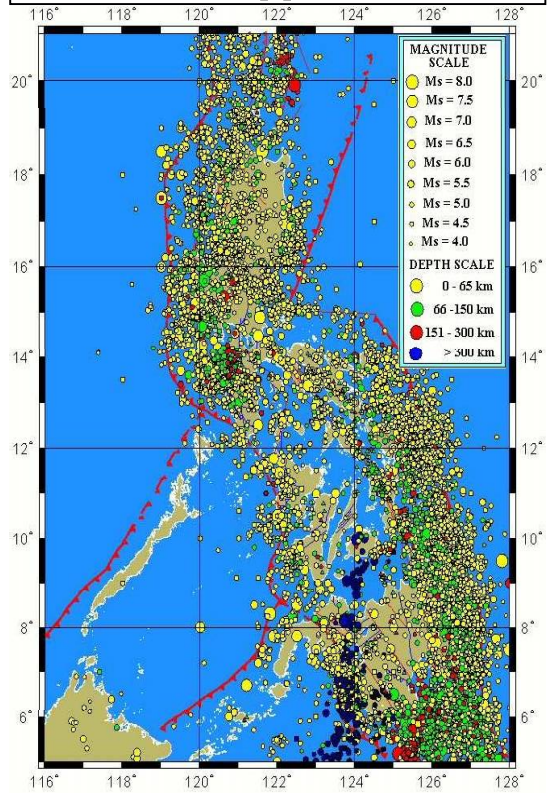
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## Distribution of Active Faults and Trenches in the Philippines



## Seismicity of the Philippines



Reference: DOST PHIVOLCS

# Pacific Typhoon Belt

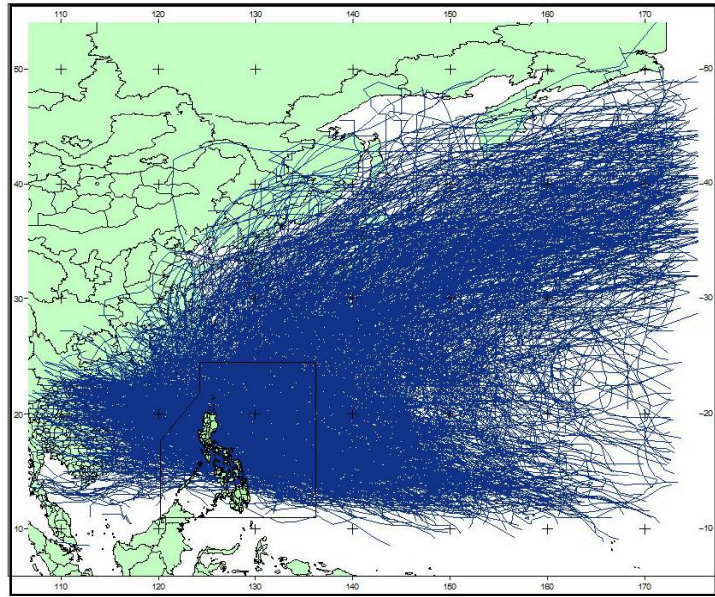


Photo credit: Google Images



# Philippines as Exporter of Typhoons

Tracks of Tropical Cyclones in the Western North Pacific Period from 1948 to 2010.



Reference: Japan Meteorological Agency (n.d.) as cited by Godillano (2014)



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## Climate Change



Photo credit: Google Images



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# Natural Hazards



- ✓ Typhoons
- ✓ Floods
- ✓ Storm Surges
- ✓ Earthquakes
- ✓ Tsunamis
- ✓ Volcanic eruptions
- ✓ Landslides
- ✓ Drought

Photo credit: Google Images



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## Mt Pinatubo eruption, 1991



Photo-credit: theguardian.com

## **Guinsaugon Landslide, 2006**



Photo-credit: nbcnews.com

## **Tropical Storm “Ondoy,” 2009**



Photo-credit: typhoonondoy.org



## 7.2 M Earthquake in Bohol, 2013



Photo-credit: [newsinfo.inquirer.net](http://newsinfo.inquirer.net)

## Typhoon “Yolanda,” 2013



Photo-credit: [rappler.com](http://rappler.com)

# Human – Induced Hazards



- ✓ Fire
- ✓ Maritime accidents
- ✓ Aircraft crash
- ✓ Land accidents
- ✓ Industrial accidents
- ✓ Pollution
- ✓ Civil disturbance
- ✓ Terrorism
- ✓ Armed conflict

Photo credit: Google Images



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# Effects of Disasters



- ✓ Human toll: dead, injured and missing
- ✓ Families displaced
- ✓ Lost livelihoods
- ✓ Damages and losses
- ✓ Slows economic development
- ✓ Hampers delivery of services

Photo credit: wikipedia.org



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# WORLD RISK INDEX REPORT 2015

9th in 2009

6th in 2010

3rd in 2011

3rd in 2012

3rd in 2013

2nd in 2014

**3rd in 2015**

## WeltRisikoIndex

Rang	Land	Risiko (%)
1.	Vanuatu	36,72
2.	Tonga	28,45
3.	Philippinen	27,98
4.	Guatemala	20,10
5.	Salomonen	19,29
6.	Bangladesch	19,26
7.	Costa Rica	17,17
8.	Kambodscha	16,82
9.	Papua-Neuguinea	16,82
10.	El Salvador	16,80
11.	Timor-Leste	16,23
12.	Brunei Darussalam	16,15
13.	Mauritius	14,66
14.	Nicaragua	14,63
15.	Guinea-Bissau	13,78

Study by : UN University Institute for Environment and Human Security  
Reference: <http://www.worldriskreport.org/>



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## II. PARADIGM SHIFT IN THE PHILIPPINE DRRM SYSTEM

# Disaster Risk Reduction and Management

the systematic process of using:

- ✓ administrative directives,
- ✓ organizations and operational skills and
- ✓ capacities



coping capacities



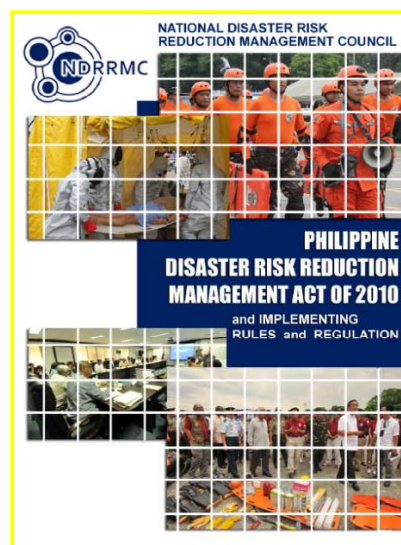
In order to lessen the adverse impacts of hazards and the possibility of disaster.



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## Republic Act 10121 (27 May 2010)



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# Republic Act 10121 (27 May 2010)

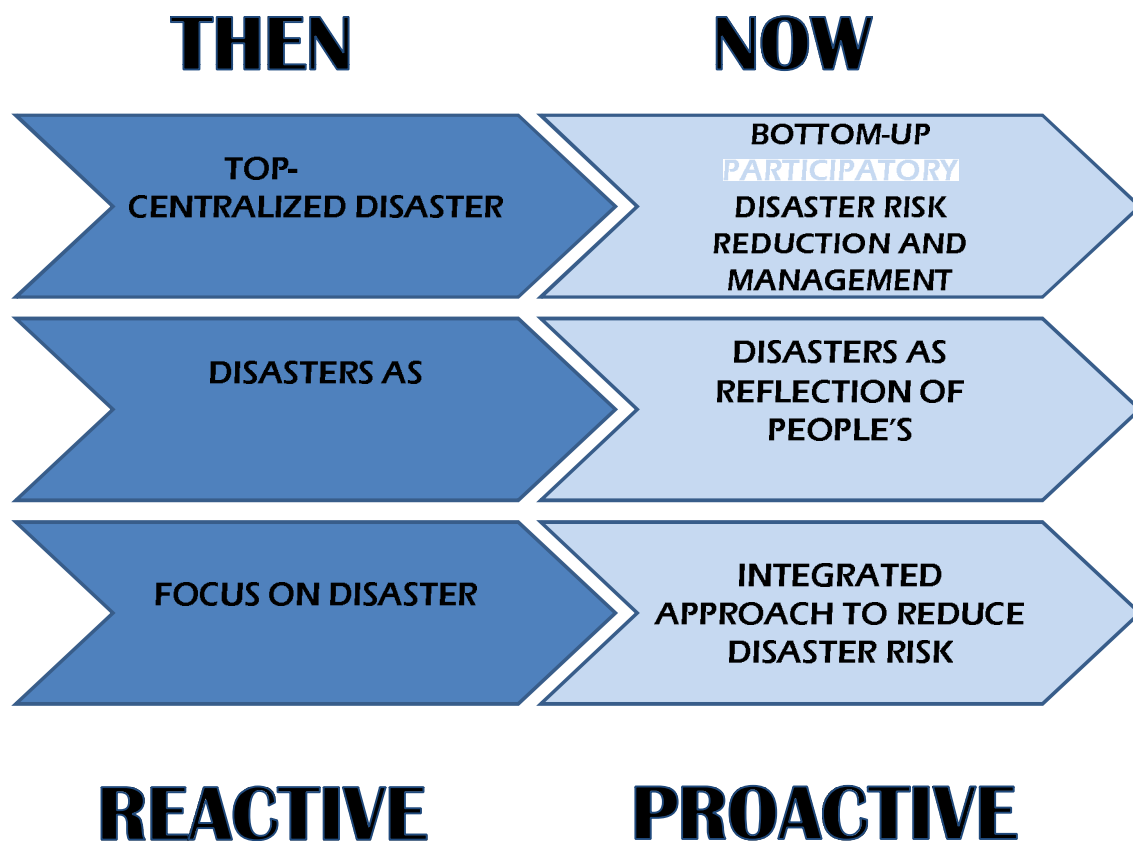
An act:

- Strengthening the Philippine DRRM system,
- Providing for the National DRRM framework and
- Institutionalizing the National DRRM plan,

appropriating funds therefor and  
for other purposes.



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**What is**

# **NDRRMC?**

## **NDCC to NDRRMC**



**COORDINATING**

**NATIONAL DISASTER  
RISK REDUCTION AND  
MANAGEMENT  
COUNCIL**



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## NDCC: 19 Members

**Chairman: Secretary, DND**

**Members:**

Secretary, DILG  
Secretary, DPWH  
Secretary, DOH  
Secretary, DSWD  
Secretary, DA  
Secretary, DepEd  
Secretary, DOF  
Secretary, DOLE  
Secretary, DTI  
Secretary, DOTC  
Secretary, DOST  
Secretary, DBM  
Secretary, DOJ  
Secretary, DENR  
Director, PIA  
Sec-Gen - PNRC  
Chief of Staff, AFP  
A, OCD: Exec Offr/Member

## NDRRMC: 44 Members

**Chairperson: Secretary, DND**

**Vice-Chairpersons:**

Sec, DOST – Prevention & Mitigation  
Sec, DILG –Preparedness  
Sec, DSWD – Disaster Response  
DG, NEDA – Rehab & Recovery  
Exec Dir: OCD Administrator

**Members: 39**

- 14 Depts: DOH, DENR, DA, DepEd, DOE, DOF, DTI, DOTC, DBM, DPWH, DFA, DOJ, DOLE & DOT
- 12 gov't agencies: OES OPAPP, CHED AFP, PNP, OPS, NAPC, PCW, HUDCC, CCC, PHILHEALTH & OCD
- 2 Gov Financial Inst (GSIS & SSS)
- 1 Quasi-government agency ( PRC)
- 5 LGU Leagues
- 4 Civil Society Organizations
- 1 Private Sector Organization

# NDRRMC

Empowered with the following DRRM powers and functions:



- ✓ policy-making
- ✓ coordination
- ✓ integration
- ✓ supervision
- ✓ monitoring
- ✓ evaluation

Reference: Sec 6, RA 10121



# What is OCD?

## Office of Civil Defense



- Executive Arm and Secretariat of the NDRRMC
- Primary mission: administer a comprehensive national civil defense and disaster risk reduction and management program...

Reference: Sec 7, RA 10121





# Mission of OCD

To administer a comprehensive national civil defense and disaster risk reduction and management program by providing leadership in the continuous development of strategic and systematic approaches as well as measures to reduce the vulnerabilities and risks to hazards and manage the consequences of disasters.



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Photo credit: [clipartfreefor.com](http://clipartfreefor.com)

# NDRRM Operations Center



- 24/7 facility for monitoring and coordination
- Disseminates situation reports, alerts and communications
- Facilitates effective management of the consequences of disasters



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## DRRM Network

**National Disaster Risk Reduction and Management Council**

**18 Regional Disaster Risk Reduction and Management Councils**

**81 Provincial Disaster Risk Reduction and Management Councils**

**145 City Disaster Risk Reduction and Management Councils**

**1,489 Municipal Disaster Risk Reduction and Management Councils**

**42,029 Barangay Disaster Risk Reduction and Management Committees**

Reference: Philippine Statistics Authority



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# Local DRRM Offices

- To be established in every Province, City and Municipality, and Barangay
- Sets the direction, development, implementation and coordination of DRRM programs in their areas



Reference: Section 12, RA 10121 (2010)  
Photo-Credit: OCD CARAGA



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## Coordination during Emergencies

Barangay DRRM Committee	1 Barangay affected
City/Municipal DRRMC	2 or more Barangays affected
Provincial DRRMC	2 or more Cities/Municipalities affected
Regional DRRMC	2 or more Provinces affected
NDRRMC	2 or more Regions affected

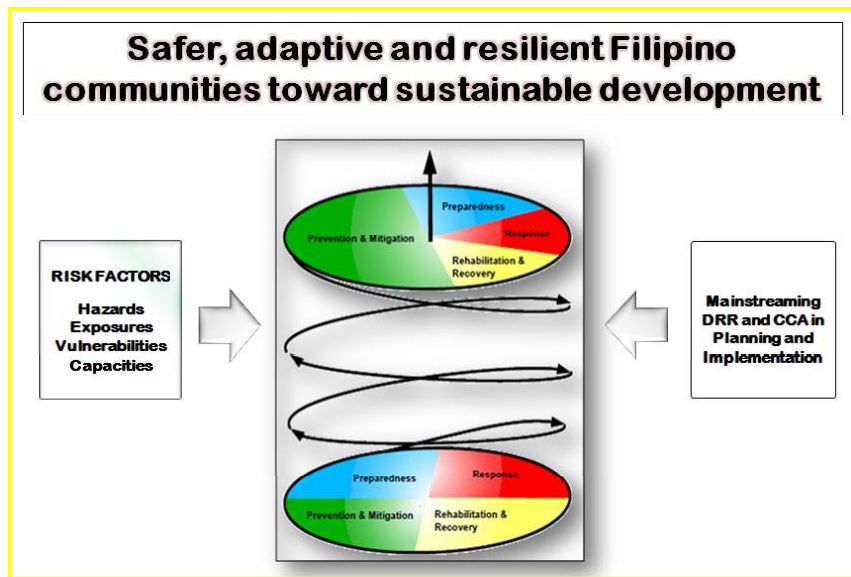
Reference: Section 15, RA 10121



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# NDRRM Framework (16 June 2011)



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# NDRRM Plan (7 February 2012)

4 Priority Areas with 4 Long Term Goals

14 Objectives

24 Outcomes

56 Outputs

93 Activities

NATIONAL  
DISASTER  
RISK  
REDUCTION and  
MANAGEMENT  
PLAN

2011-2028

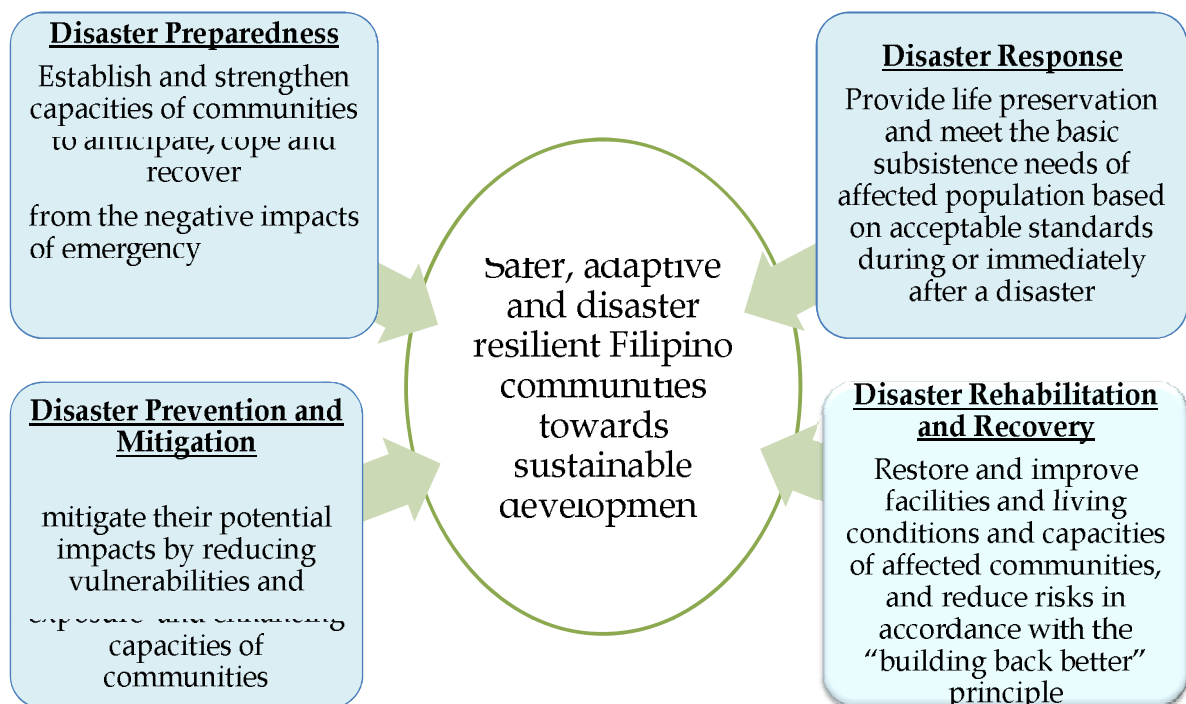


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# III. FOUR DRRM THEMATIC AREAS

## FOUR DRRM THEMATIC AREAS



# IV. CHALLENGES

## Challenges



- ✓ Cooperation and buy-in of our stakeholders
- ✓ Correct the notion that DRRM is only a government concern
- ✓ Consider DRRM as a way of life
- ✓ National and local officials to prioritize DRRM
- ✓ Continuous development, review and improvement of existing DRRM policies, plans and programs in view of the “new normal”

Photo credit: Google Images

# My Research

**Title:** Disaster Response and Preparedness Mechanisms A Comparative Study of On-Scene Disaster Response of Japan and Philippines

**Target Objectives:** At the end of my study research, I will be able to:

1. To identify the institutional/organizations factors that influence Japan's high resiliency and capacity to natural disasters;
2. To learn about the good practices and innovations in disaster risk reduction and management in the different institutions/organizations in Japan as lessons from the past disasters; and
3. To determine the enhancing preparedness strategies, approaches and tools necessary to promote resiliency and enhance response capacity of the Philippines in terms of institutional mechanisms, systems and processes especially in Caraga Region as the area of concern of the researcher



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# THANK YOU!