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# THE PHILIPPINE DRRM

DISASTER RISK REDUCTION AND MANAGEMENT

# SYSTEM



Photo credit: Google Images



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Office of Civil Defense

## Scope of Presentation

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



# Philippine Disaster Risk Profile

## Pacific Ring of Fire

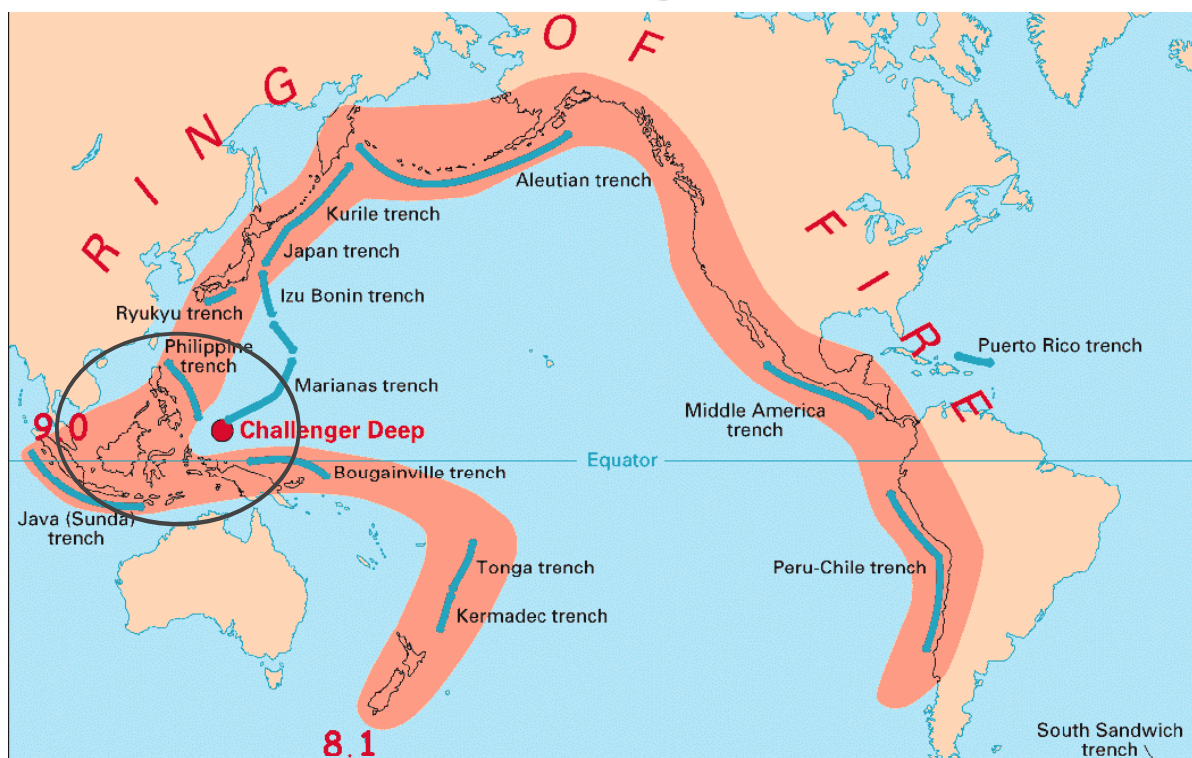
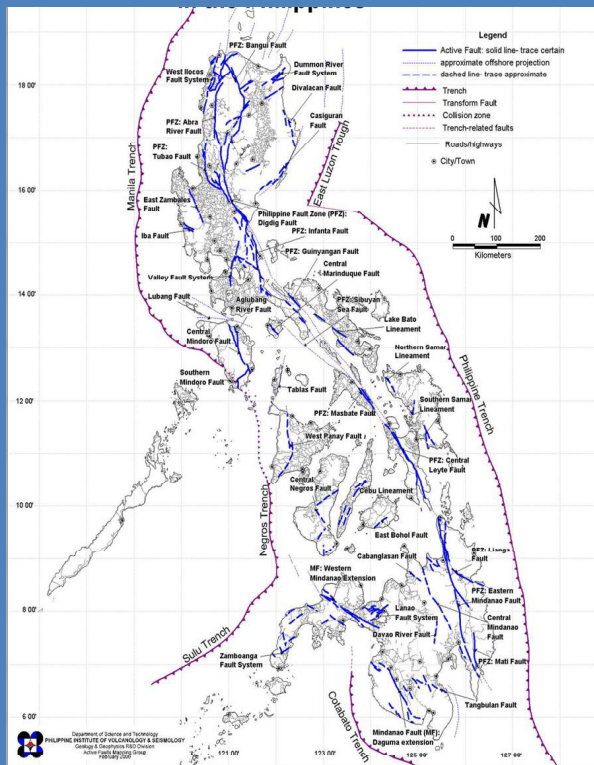


Photo credit: wikipedia.org

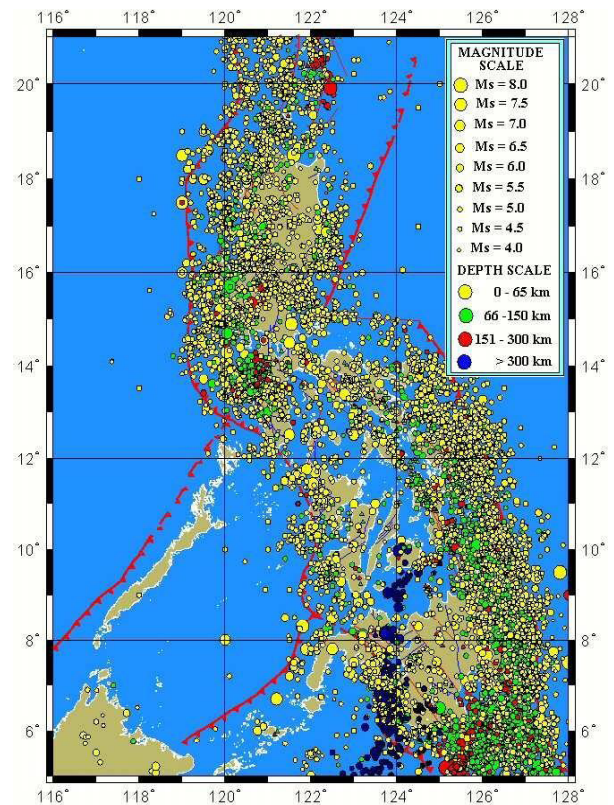


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# Active Faults and Trenches



# Seismicity



Reference: DOST PHIVOLCS

# Pacific Typhoon Belt



Photo credit: Google Images

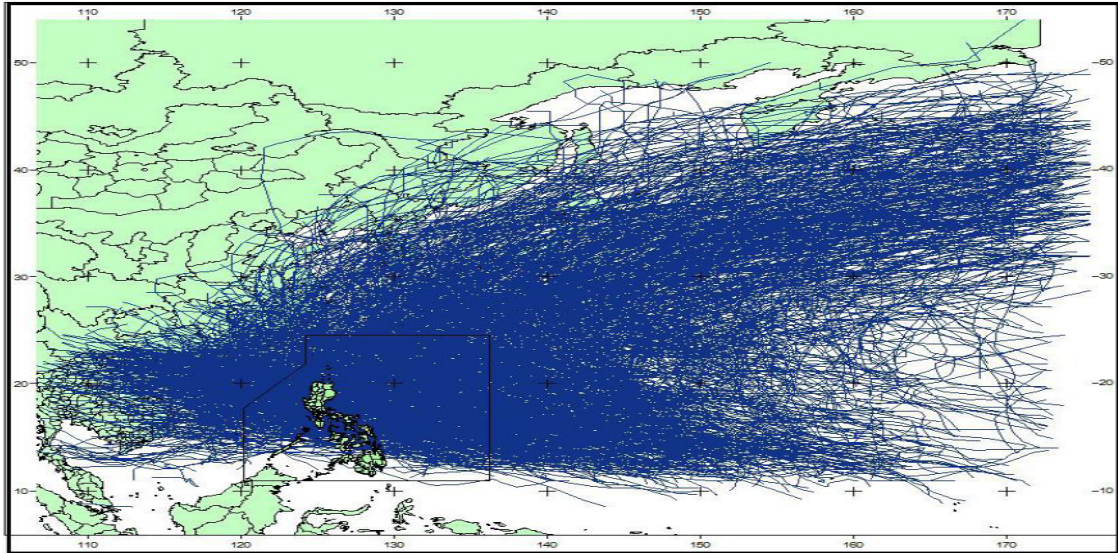


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# Philippines: "Exporter" of Typhoons

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



Reference: Japan Meteorological Agency (n.d.)



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## Climate Change



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# Effects of Disasters



Photo credit: Google Images



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## Natural



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

## Human-Induced

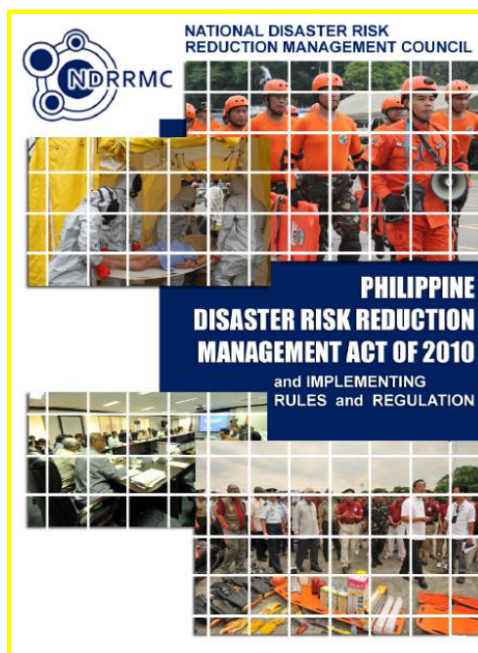


- ✓ Fires
- ✓ Accidents
- ✓ Aircraft crash
- ✓ Pollution
- ✓ Civil disturbance
- ✓ Terrorist attacks
- ✓ Explosions
- ✓ Armed conflict



# Paradigm Shift in DRRM

## Legal Basis: Republic Act 10121



# Then: **REACTIVE**

Top-down, centralized



Disasters as function of physical hazards



Focus on response



Bottom-up, participatory



Disasters as reflection of vulnerability



Integrated approach



# Now: **PROACTIVE**

## National Disaster Risk Reduction and Management Council



Highest organized and authorized body in DRRM in the Philippines.



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# NDRRMC Composition

## Chairperson:

Secretary, DND

## Vice-Chairpersons:

Sec, DOST – Prevention & Mitigation

Sec, DILG – Preparedness

Sec, DSWD – Disaster Response

DG, NEDA – Rehab & Recovery

## Executive Director:

OCD Administrator

## Members:

- 15 depts: DOH, DENR, DA, DepEd, DOE, DOF, DTI, DOT, DBM, DPWH, DFA, DOJ, DOLE, DOTr & DICT
- 12 gov't agencies: OES, OPAPP, CHED, AFP, PNP, OPS, NAPC, PCW, HUDCC, CCC, & PHILHEALTH
- 2 gov't financial institutions: GSIS & SSS
- 1 quasi-government agency: PRC
- 5 LGU Leagues
- 4 Civil Society Organizations
- 1 Private Sector Organization

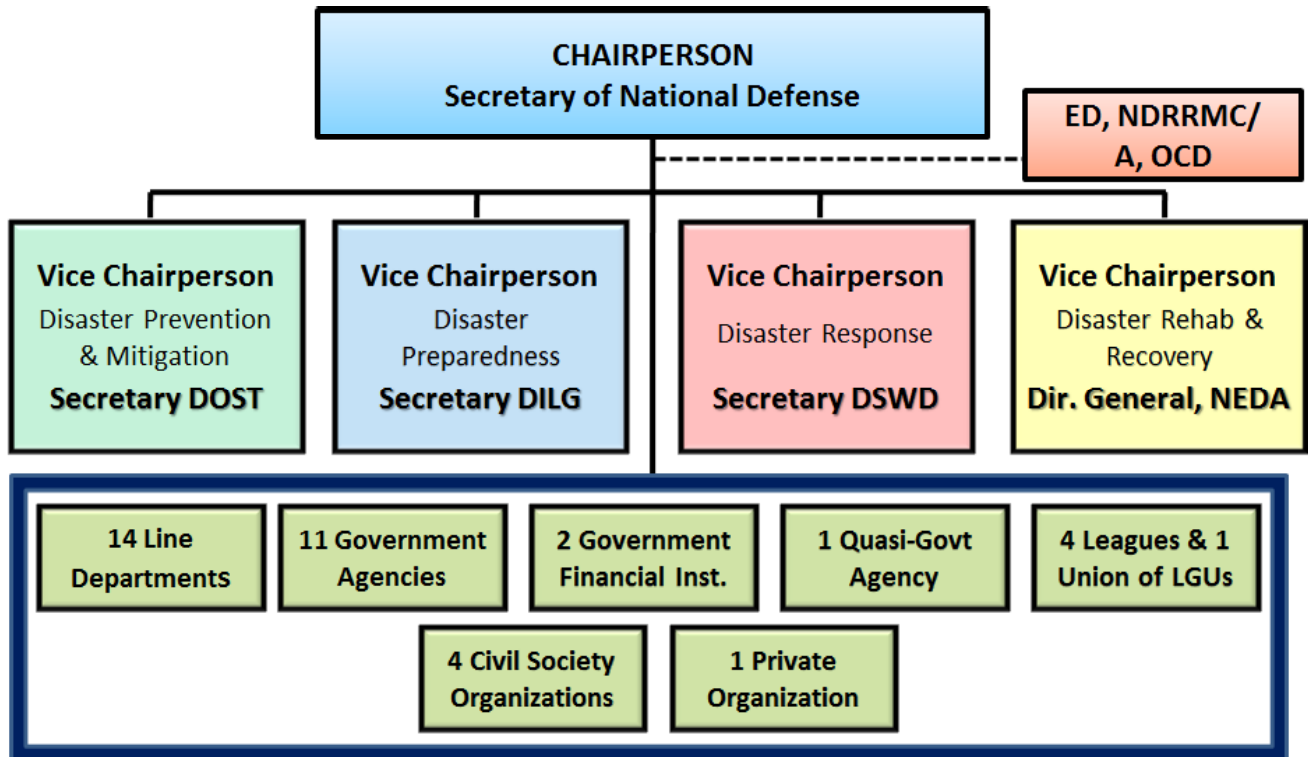
## Office of Civil Defense



Executive Arm and Secretariat of the  
NDRRMC



# NDRRMC Organization Structure



## 24/7 Operations Center

Facility for situation monitoring and coordination during emergencies



# DRRM Network

1	<b>NATIONAL</b> DRRM COUNCIL
17	<b>REGIONAL</b> DRRM COUNCILS
81	<b>PROVINCIAL</b> DRRM COUNCILS
145	<b>CITY</b> DRRM COUNCILS
1,489	<b>MUNICIPAL</b> DRRM COUNCILS
42,029	<b>BARANGAY</b> DRRM COMITTEES



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## Coordination during Emergencies

Barangay Development Council	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



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# Local DRRM Office

In charge of DRRM in every Province, City and Municipality, and Barangay



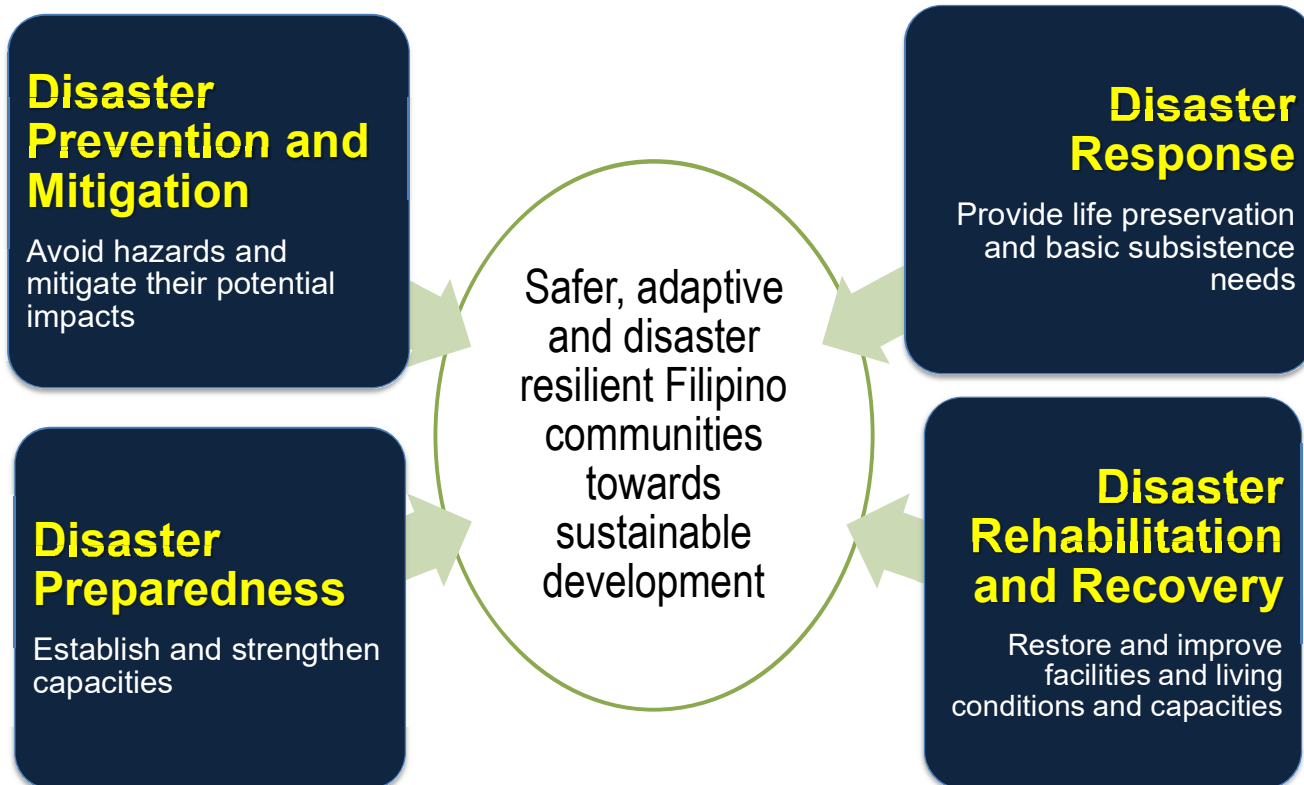
Photo credit:: Dinagat Islands, Pasig City



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## Four DRRM Thematic Areas





# Disaster Prevention and Mitigation

- Early warning systems
- Forecasting and monitoring
- Hazard and risk mappings
- Structural and non-structural interventions

Vice Chairperson:  
**DOST**

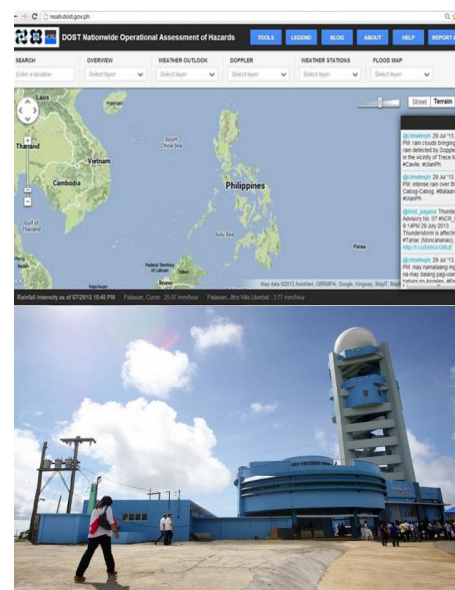


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# Disaster Preparedness



- Planning
- Prepositioning and stockpiling
- Organizing responders
- Training, drills and exercises

Vice Chairperson:

**DILG**



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# Disaster Response



- Damage assessment
- Evacuation
- Issuance of advisories
- Search, rescue and retrieval
- Relief distribution
- Management of evacuation centers

Vice Chairperson:

**DSWD**



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# Disaster Rehabilitation and Recovery

- Post-disaster needs assessment
- Review of policies and plans
- Resettlement
- Provision of new sources of livelihood

Vice Chairperson:

**NEDA**



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## Challenges

# Challenges



- ✓ “Buy-in” of stakeholders
- ✓ DRRM as a way of life
- ✓ Prioritization of DRRM
- ✓ Continuous innovation in DRRM

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**Thank you!**  
**Salamat po!**  
**Arigatou Gozaimasu!**