

# THE PHILIPPINE DRRM

DISASTER RISK REDUCTION AND MANAGEMENT

# SYSTEM



Photo credit:: Google Images



Office of Civil Defense  
National Disaster Risk Reduction and  
Management Council

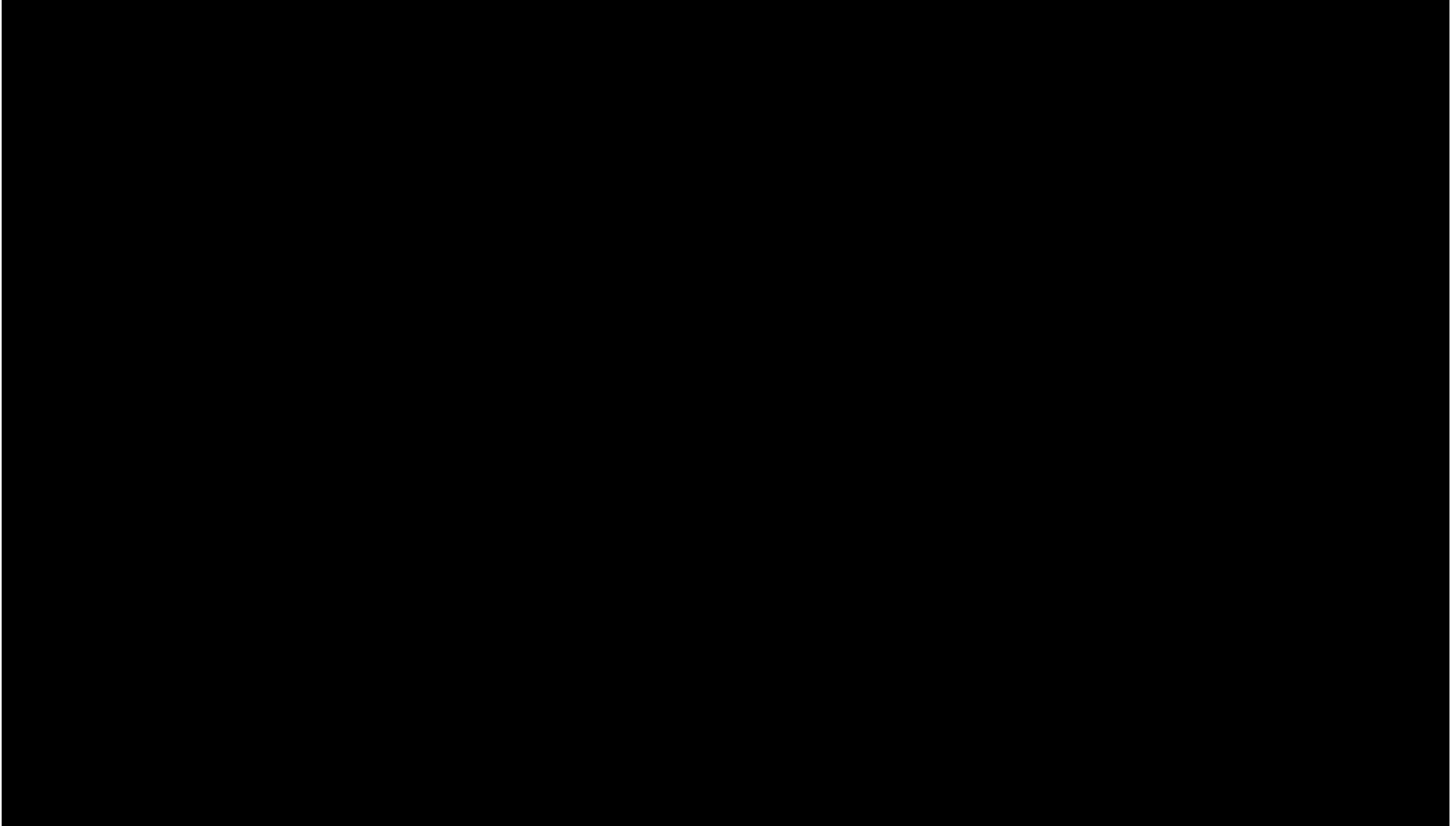
# Scope of Presentation

- 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

# "Faces" of Disasters



Video credit: youtube.com



# What is a Disaster?

Serious disruption of the functioning of a community or a society



Human losses

Material losses

Economic losses

Environmental losses

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# Pacific Ring of Fire

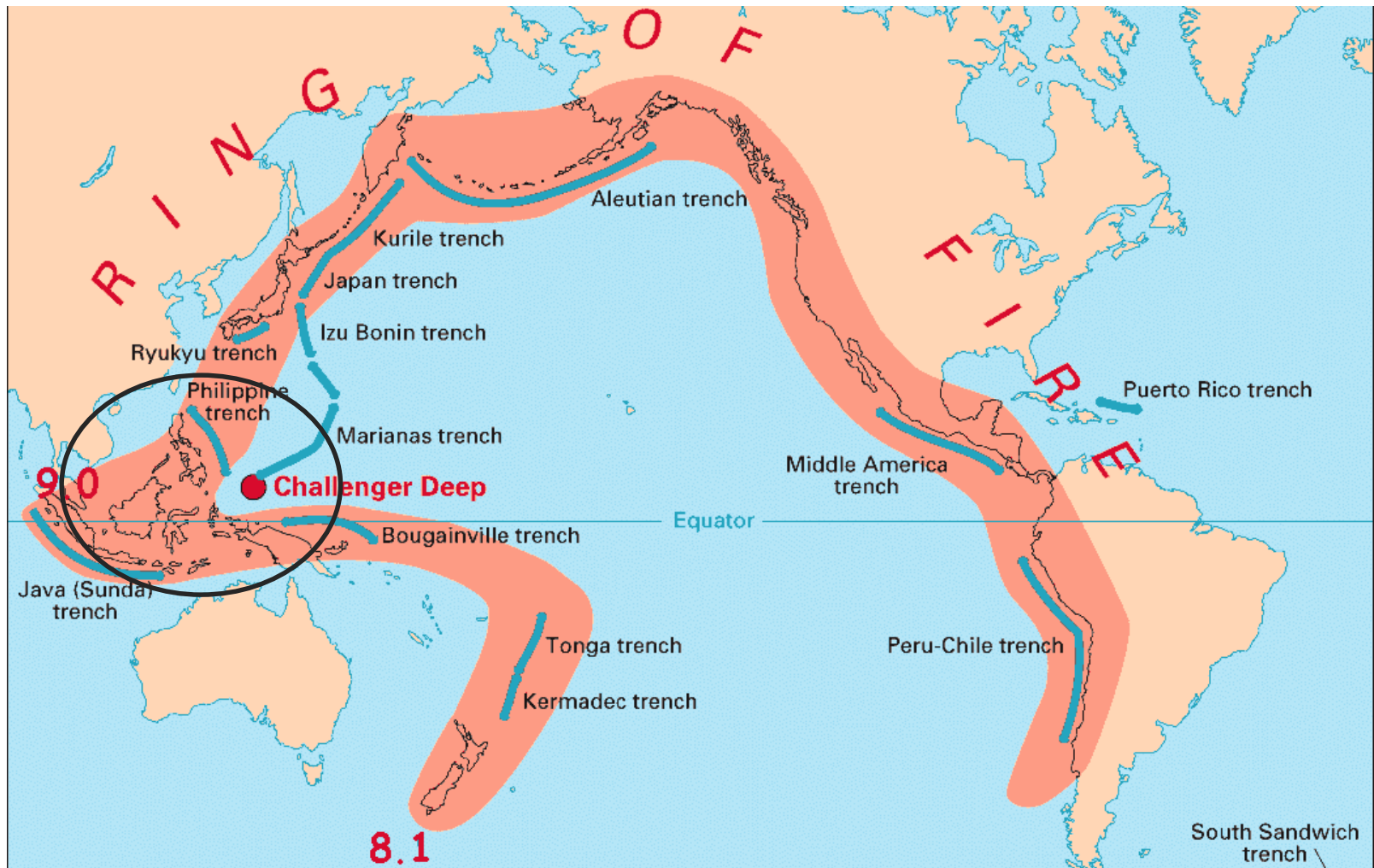
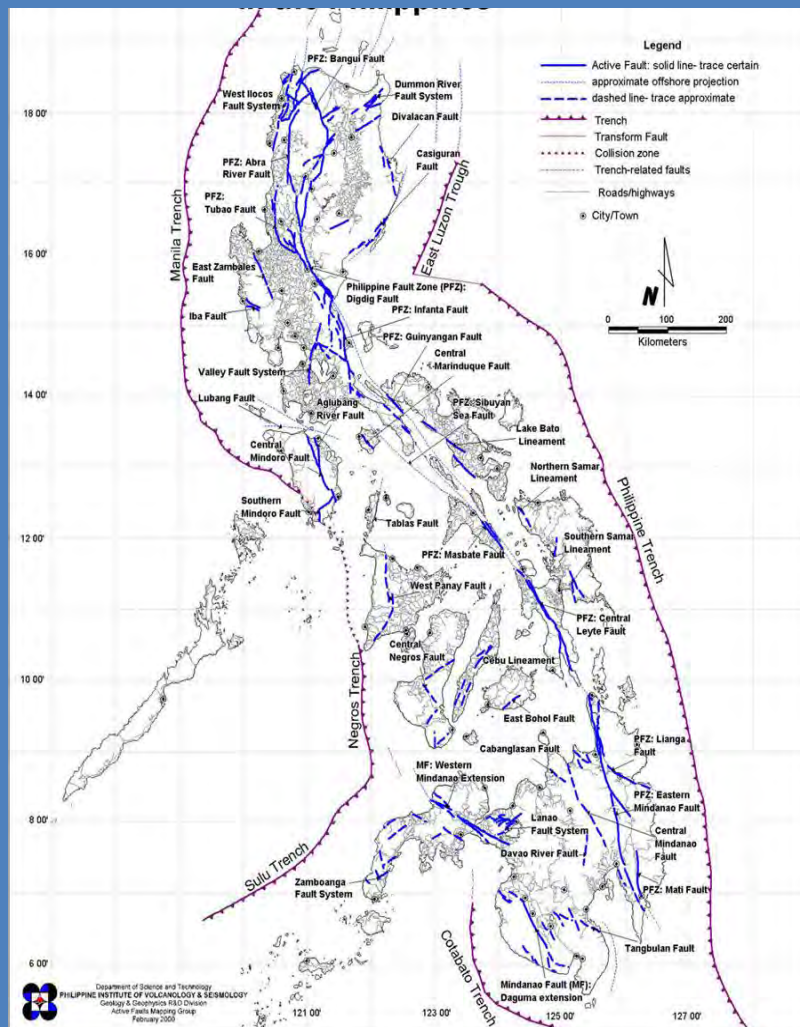


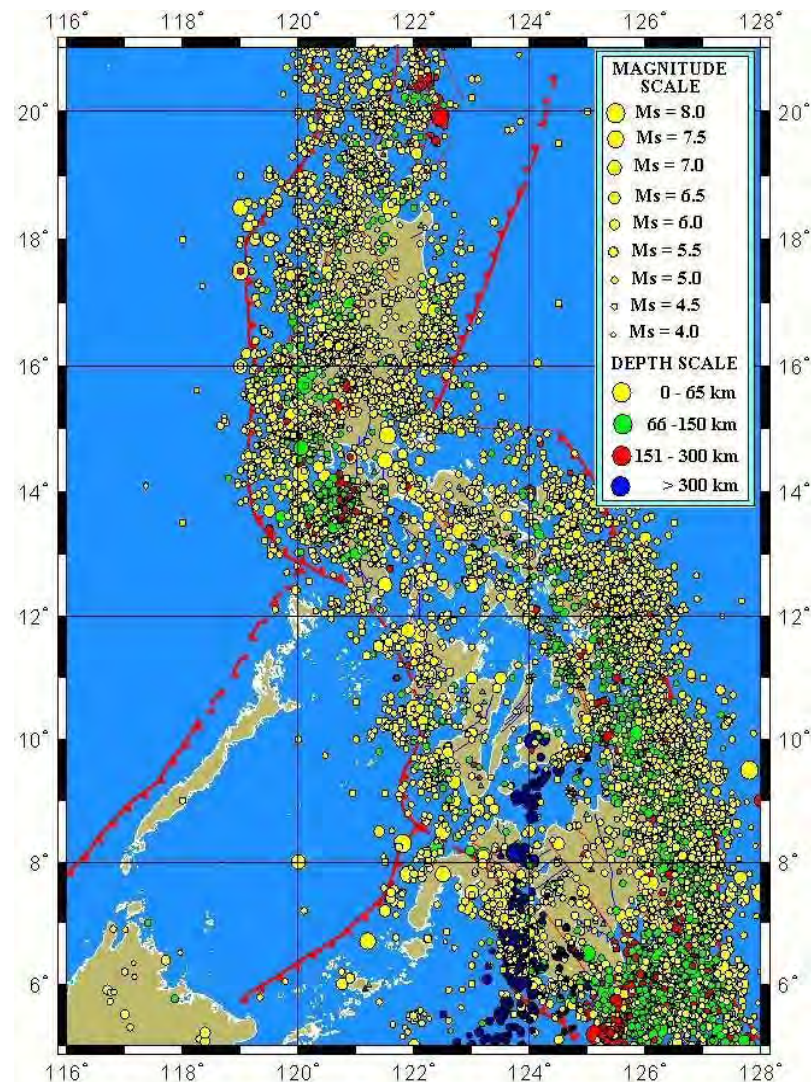
Photo credit: wikipedia.org



# Active Faults and Trenches



# Seismicity



# Pacific Typhoon Belt

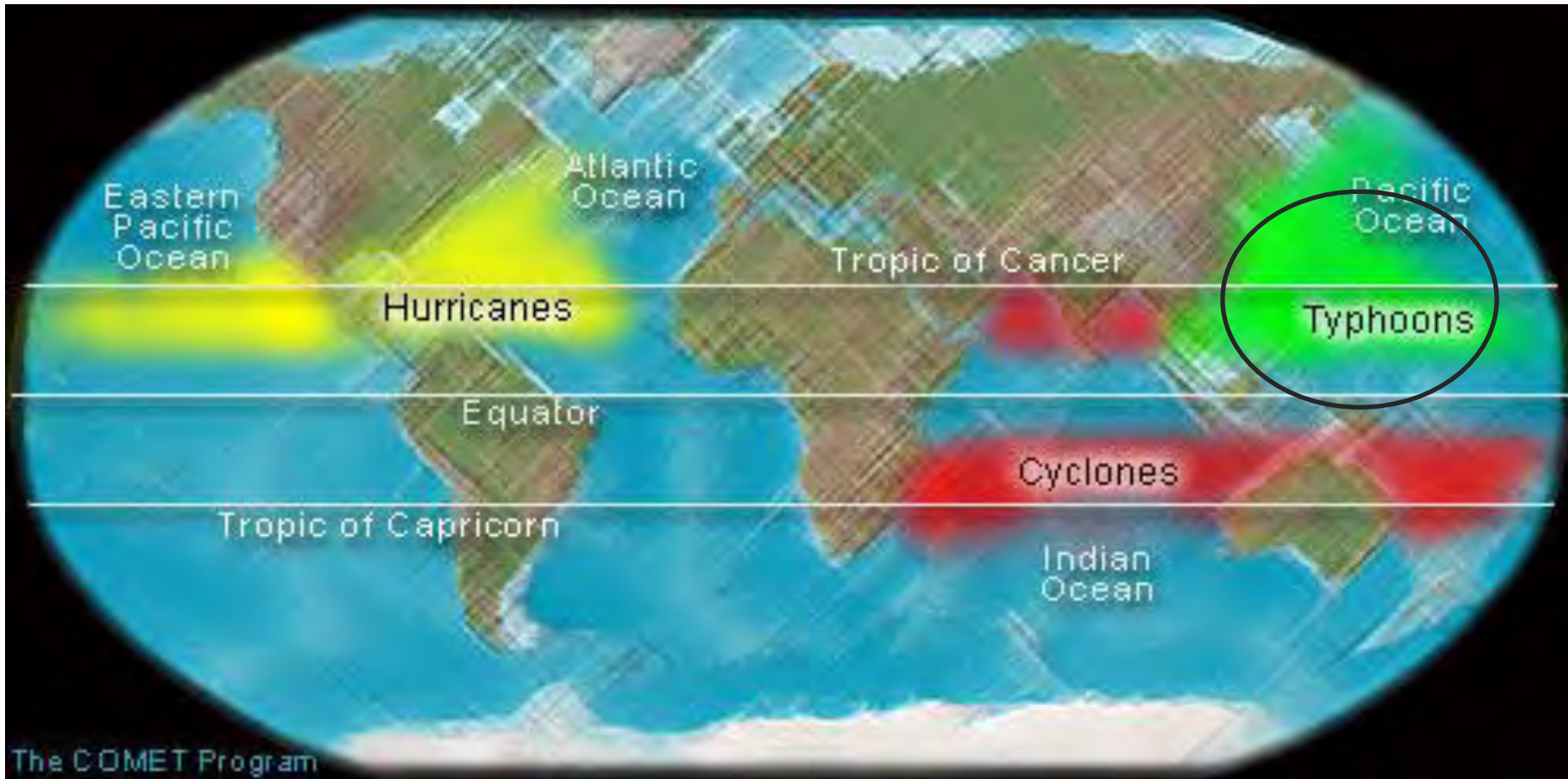
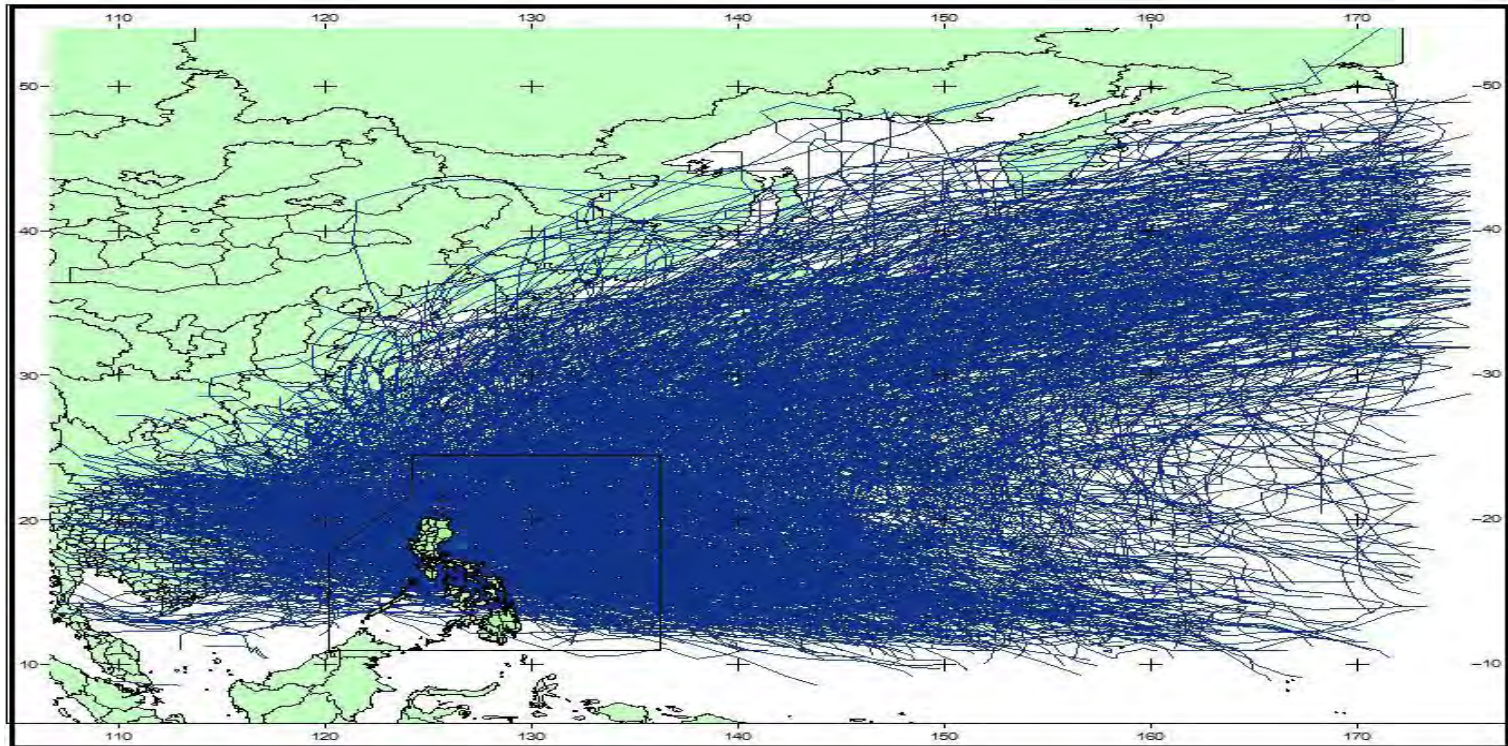


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# Philippines: “Exporter” of Typhoons

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



Reference: Japan Meteorological Agency (n.d.)

# Climate Change



Photo credit: Google Images

Photo credit: Google Images



# 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





# Effects of Disasters



PHP

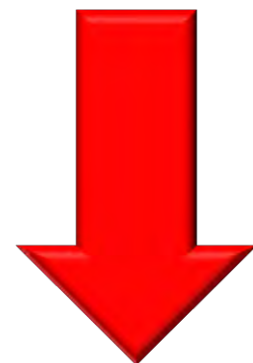


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# WORLD RISK INDEX REPORT 2017

9th in 2009

6th in 2010

3rd in 2011 – 2013

2nd in 2014

3rd in 2015 – 2016

**3rd in 2017**

## The 15 countries with the highest risk worldwide

Country	Risk (%)
Vanuatu	36.45
Tonga	28.57
Philippines	27.69
Guatemala	20.46
Bangladesh	19.57
Solomon Islands	18.77
Costa Rica	17.16
Cambodia	16.92
El Salvador	16.74
Timor-Leste	16.37
Papua New Guinea	16.34
Brunei Darussalam	16.22
Mauritius	15.11
Nicaragua	14.88
Fiji	13.50

Study by : UN University Institute for Environment and Human Security

Reference:

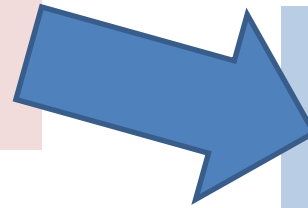
[https://reliefweb.int/sites/reliefweb.int/files/resources/WRR\\_2017\\_E2.pdf](https://reliefweb.int/sites/reliefweb.int/files/resources/WRR_2017_E2.pdf)



# Paradigm Shift in DRRM

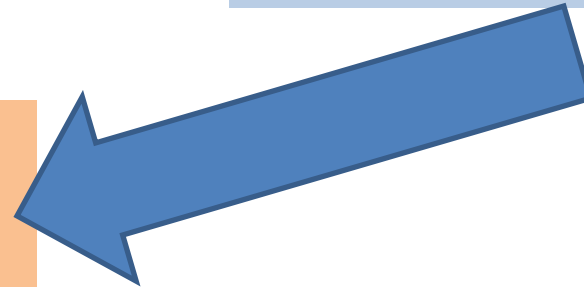
# Disaster Risk Reduction and Management

Use directives, skills and capacities

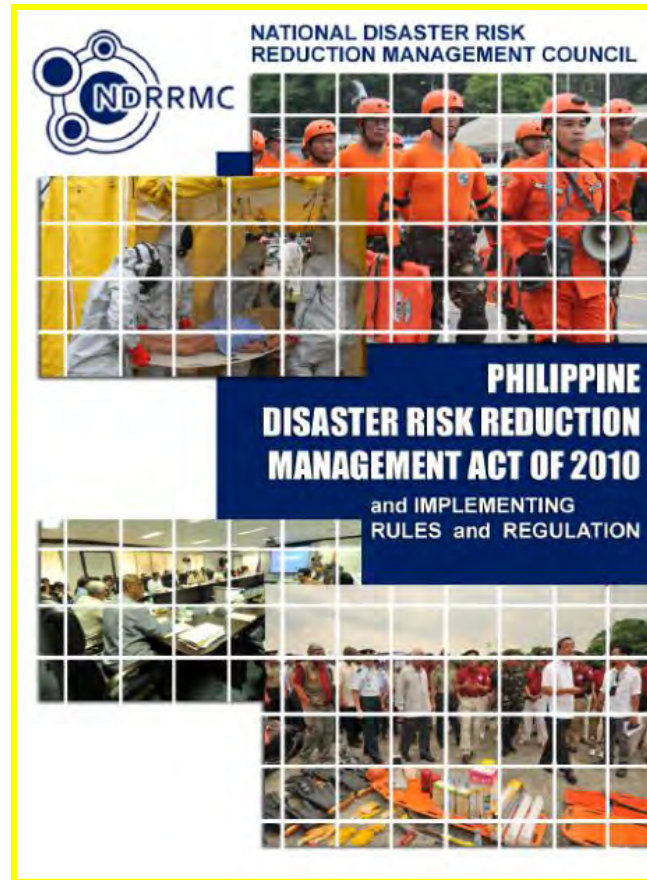


Implement strategies and policies

Lessen impacts and possibility of disaster



# 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.



# NDRRMC Composition

## Chairperson:

Secretary, DND

## Vice-Chairpersons:

Sec, DOST – Prevention & Mitigation

Sec, DILG – Preparedness

Sec, DSWD – Disaster Response

DG, NEDA – Rehab & Recovery

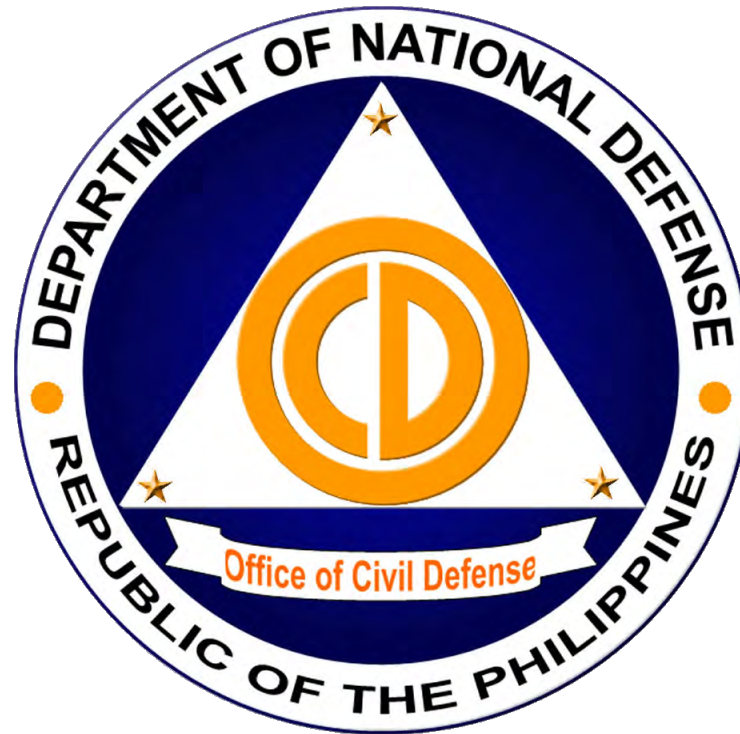
## Executive Director:

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



# 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



# 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



# Local DRRM Office

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



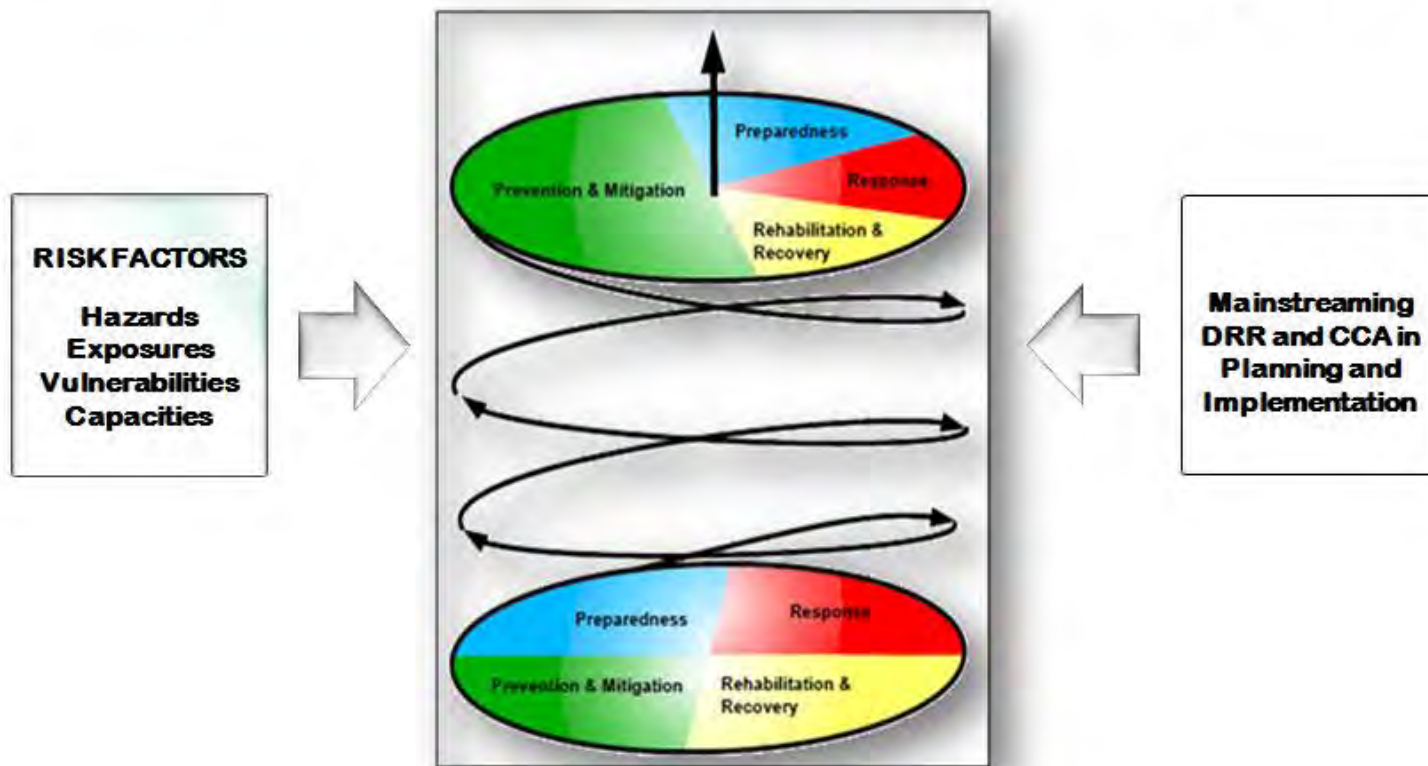
Photo credit:: Dinagat Islands, Pasig City



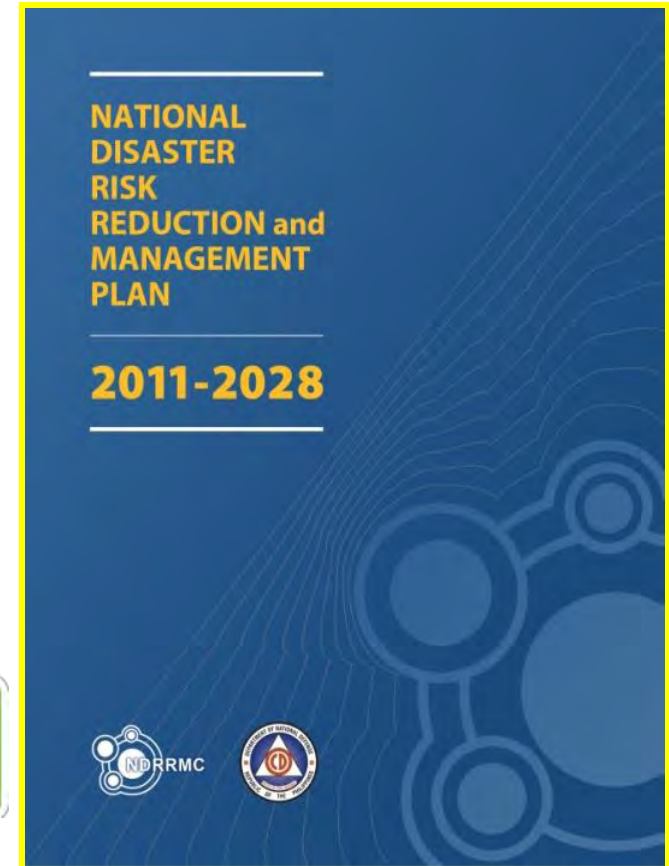


# NDRRM Framework

**Safer, adaptive and resilient Filipino communities toward sustainable development**



# NDRRM Plan



# Four DRRM Thematic Areas

## **Disaster Prevention and Mitigation**

Avoid hazards and mitigate their potential impacts

## **Disaster Preparedness**

Establish and strengthen capacities

Safer, adaptive and disaster resilient Filipino communities towards sustainable development

## **Disaster Response**

Provide life preservation and basic subsistence needs

## **Disaster Rehabilitation and Recovery**

Restore and improve facilities and living conditions and capacities

# Disaster Prevention and Mitigation

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

Vice Chairperson:

# DOST

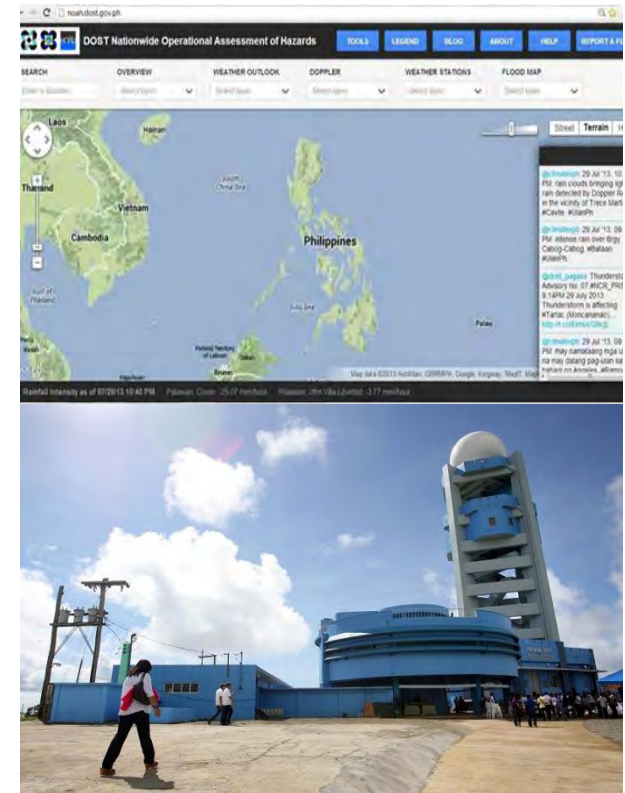


Photo credit:: Google Images



# Disaster Preparedness



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



Vice Chairperson:

**DILG**



Photo credit:: Google Images



# Disaster Response



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

Vice Chairperson:

DSWD



Photo credit:: Google Images



# Disaster Rehabilitation and Recovery

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

Vice Chairperson:

# NEDA



Photo credit:: Google Images





# Challenges

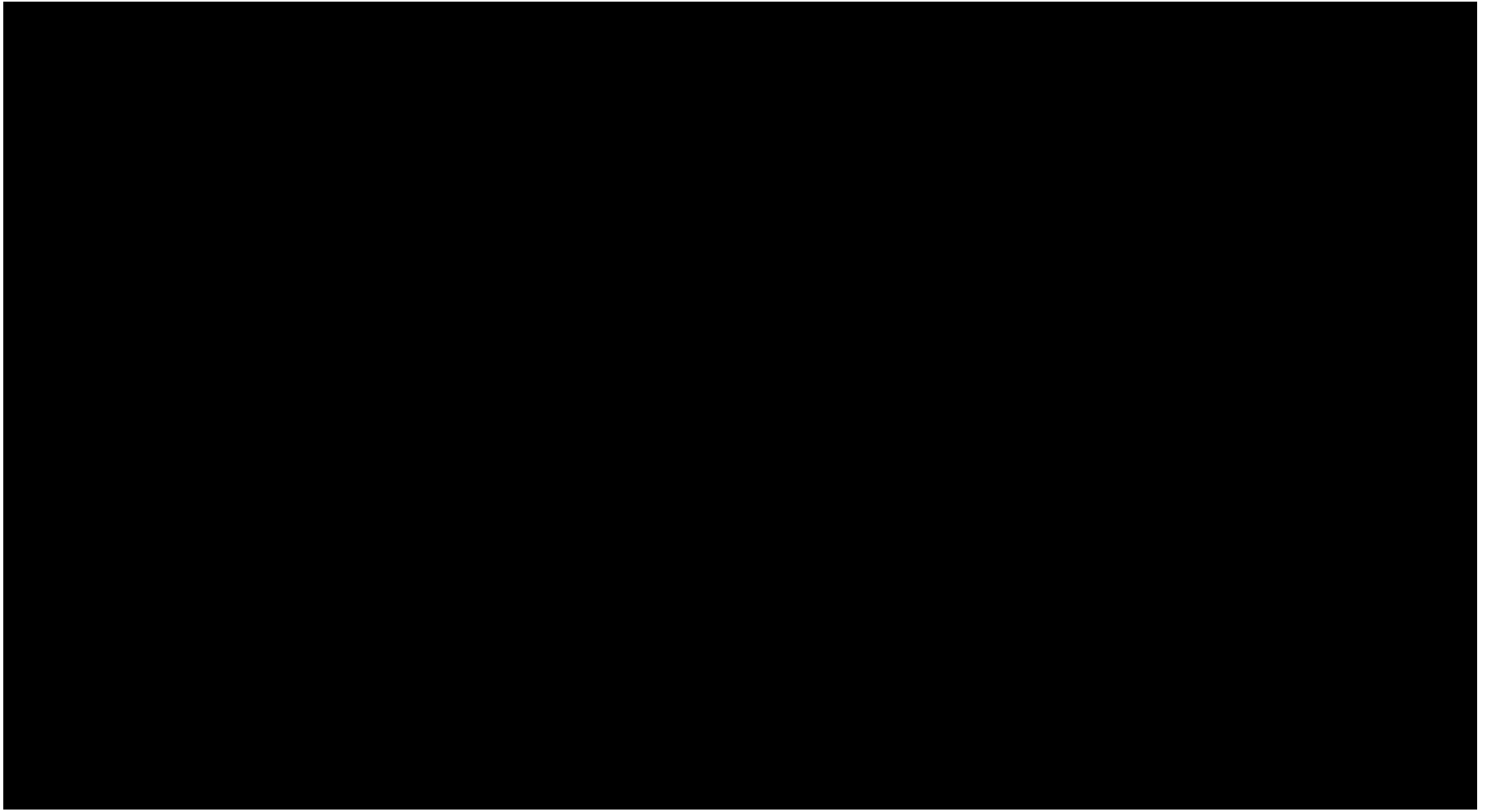
# Challenges



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

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# Learning Insight



Video credit: youtube.com

