

Promoting ABCM in ASEAN10 and the MMDA Experience

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110°E

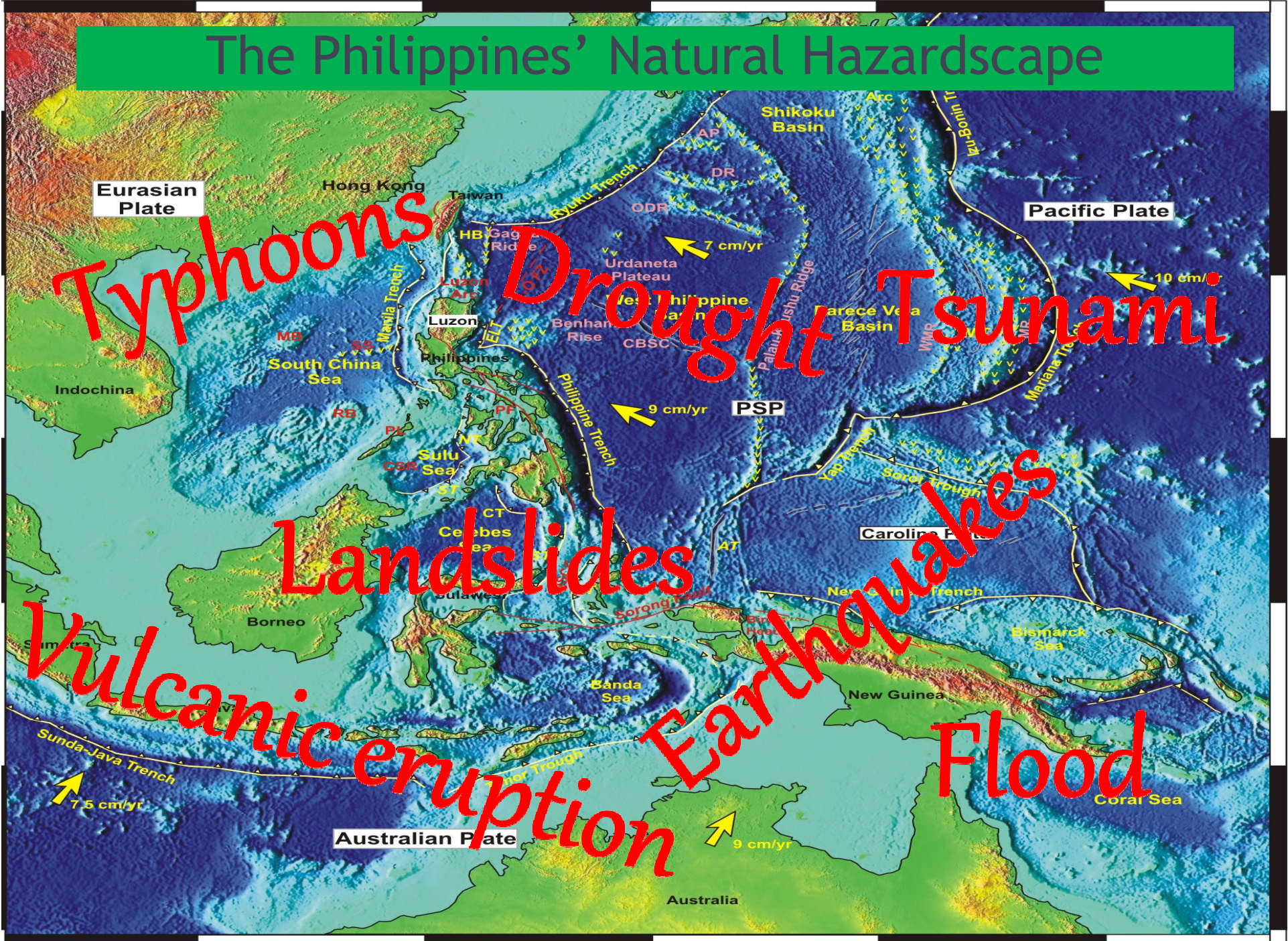
120°E

130°E

140°E

150°E

The Philippines' Natural Hazardscape



Typhoons
Drought
Tsunami

Landslides
Vulcanic eruption
Earthquakes
Flood

EFFECTS OF DISASTERS



LOSS OF LIVES
38,935 deaths
(1970 - 2013)

LOSS OF ACCESS
USD 1.34 B cost of damage
to roads and bridges
(1970 - 2013)



LOSS OF SERVICES
USD 3.02 B cost of damage
to government facilities
(1970 - 2013)

Based on conversion rate USD 1 = Php 45.0955

The WorldRiskIndex 2014

The 15 most exposed countries worldwide

Country	Exp. (%)	Rank
Vanuatu	63.66	1
Tonga	55.27	2
Philippines	52.46	3
Japan	45.91	4
Costa Rica	42.61	5
Brunei Darussalam	41.10	6
Mauritius	37.35	7
Guatemala	36.30	8
El Salvador	32.60	9
Bangladesh	31.70	10
Chile	30.95	11
Netherlands	30.57	12
Solomon Islands	29.98	13
Fiji	27.71	14
Cambodia	27.65	15

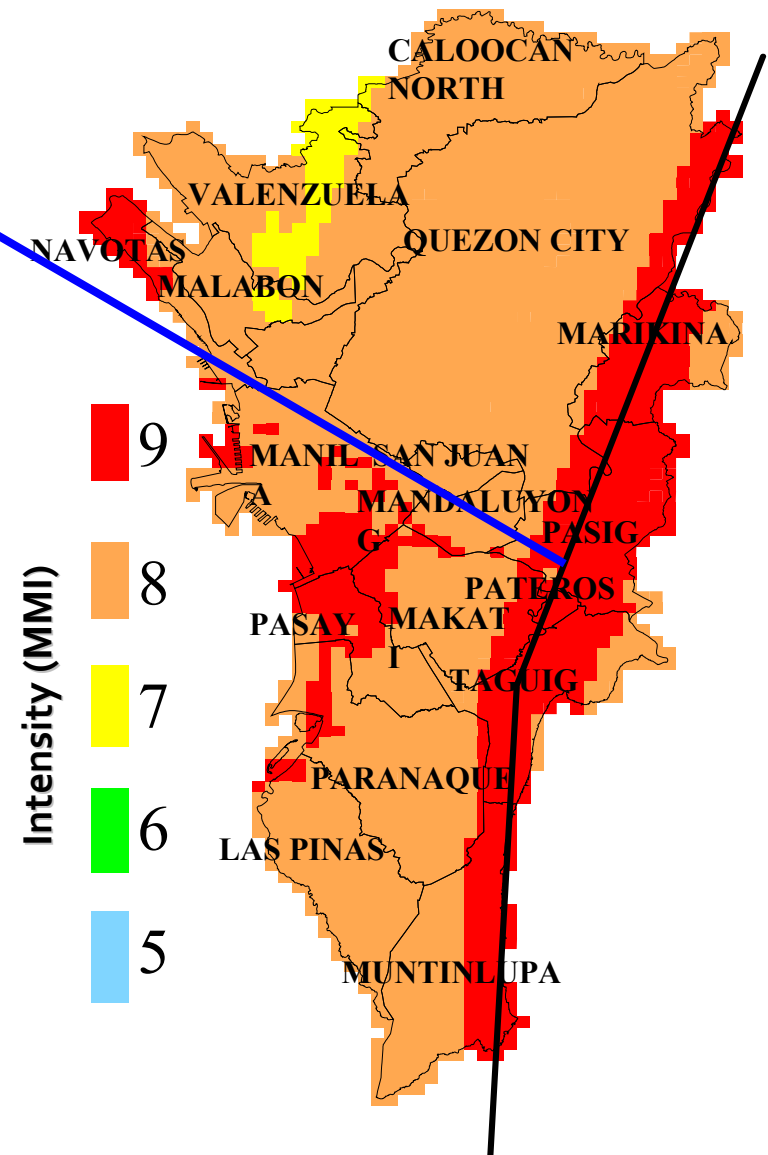
The 15 countries that are most at risk worldwide

Country	Risk (%)	Rank
Vanuatu	36.50	1
Philippines	28.25	2
Tonga	28.23	3
Guatemala	20.68	4
Bangladesh	19.37	5
Solomon Islands	19.18	6
Costa Rica	17.33	7
El Salvador	17.12	8
Cambodia	17.12	9
Papua New Guinea	16.74	10
Timor-Leste	16.41	11
Brunei Darussalam	16.23	12
Nicaragua	14.87	13
Mauritius	14.78	14
Guinea-Bissau	13.75	15

METROPOLITAN MANILA

(Magnitude 7.2, West Valley Fault)

- 20th LARGEST METROPOLITAN AREA OF THE WORLD
- WEST VALLEY FAULT (WVF) IS ACTIVE - MAY GENERATE M7.2 EARTHQUAKE (MMEIRS 2004).



SCENARIO

- 7.2 MAGNITUDE EQ ALONG WVF TRIGGERS INTENSITY VIII GROUND-SHAKING
- EXTENT OF DAMAGE OF STRUCTURES IN 17 CITIES AND TOWN (IN SQM):

COMPLETE COLLAPSE	9,642,793
COMPLETE DAMAGE	78,500,501
EXTENSIVE DAMAGE	63,511,360
MODERATE DAMAGE	68,849,303
SLIGHT DAMAGE	40,564,357
- DEATHS & INJURIES IS AROUND 35K AND 115K, RESPECTIVELY (MMEIRS)
- COLLAPSED AND SEVERELY DAMAGED STRUCTURES (MOSTLY OLD RESIDENTIAL) IS AROUND 170K AND CLOSE TO 400K, RESPECTIVELY (MMEIRS)

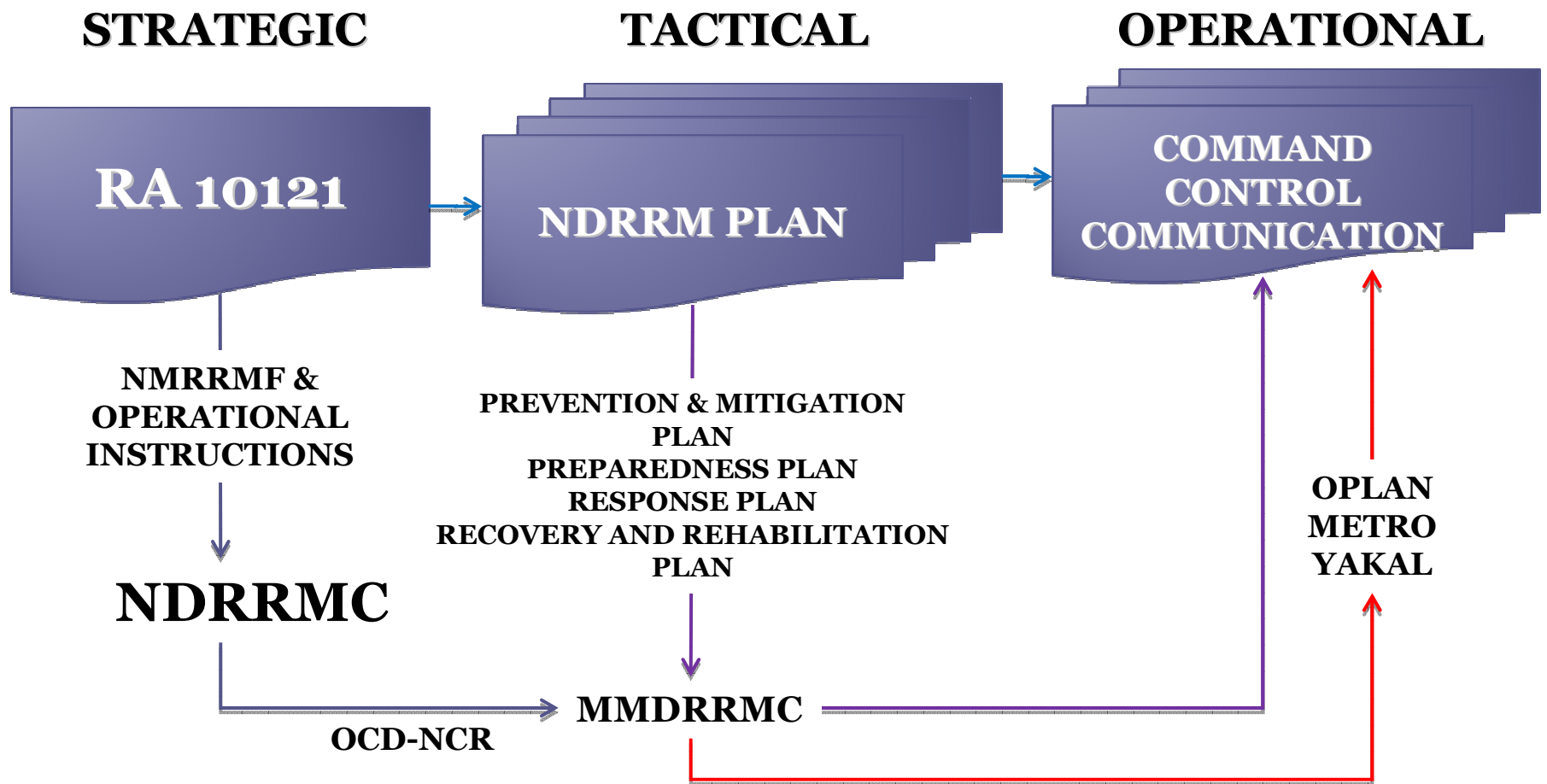


Why ABCM?

- ABCM provides the opportunity for all stakeholders within the area to cooperate and establish the protocol for interoperability
- ABCM clarifies the measures and roles of companies, national/regional government agencies, and infrastructure and service providers in solving the issues through examination process
- ABCM hastens Recovery Time and facilitates a more enabling business environment

SCHEMA OF ABCM

Metro Manila, PHILIPPINES

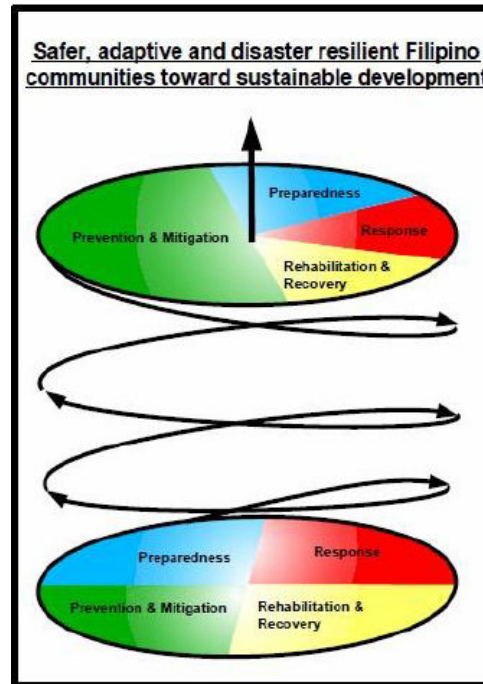


STRATEGIC LEVEL

RA 10121

**OPERATIONAL
INSTRUCTIONS**

NDRRMC

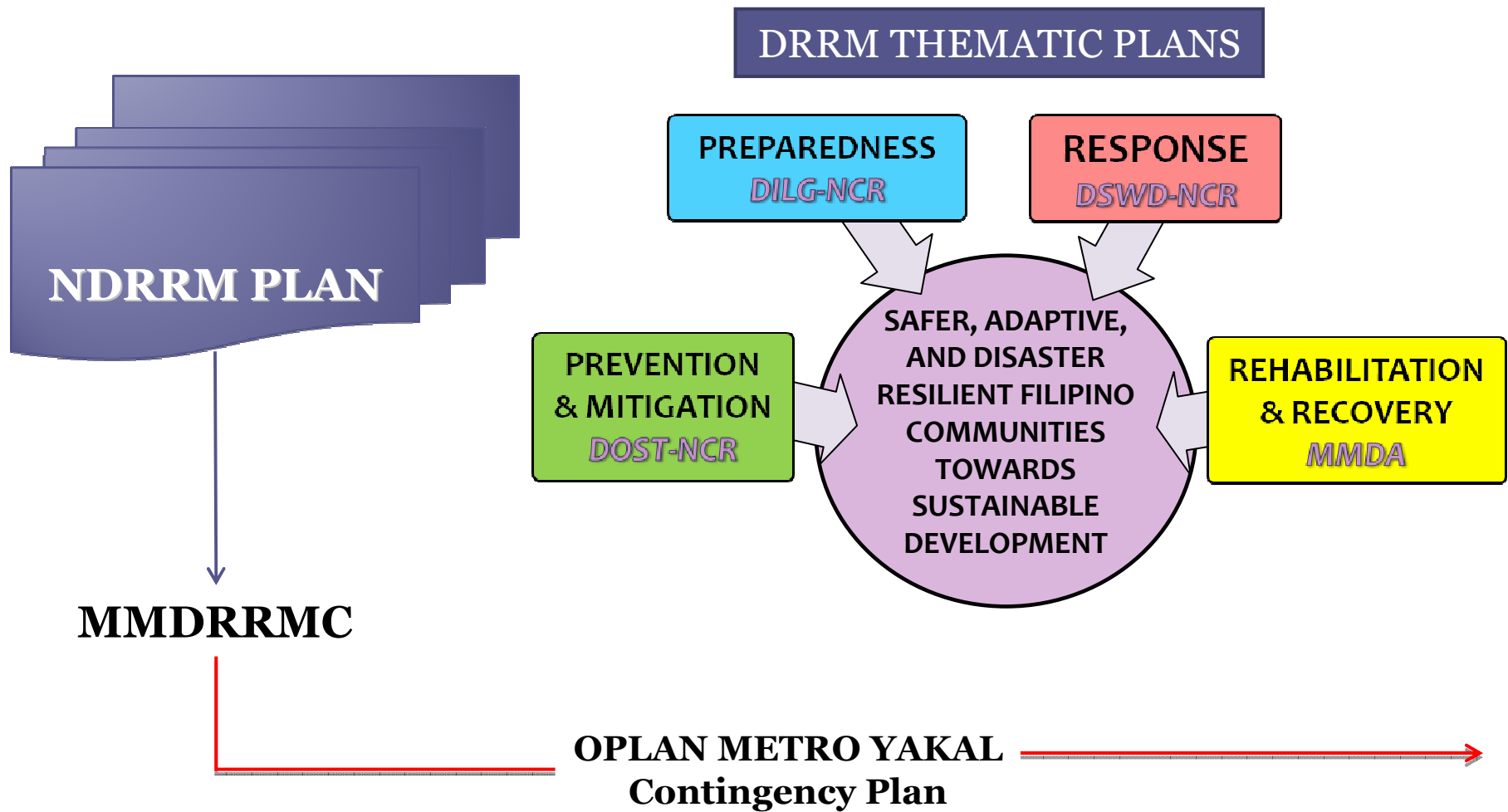


NDRRM FRAMEWORK

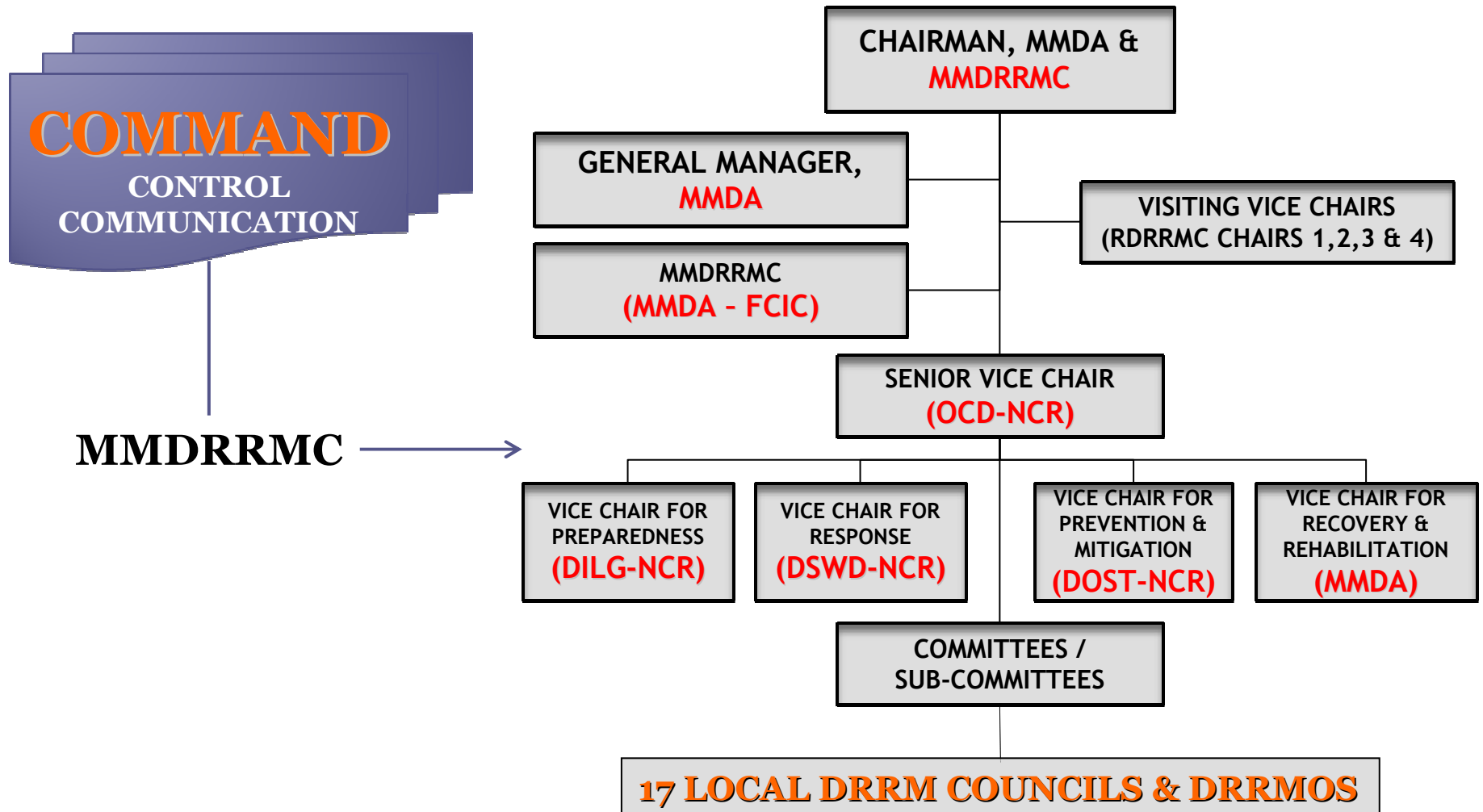
MMDRRMC

- **Institutional Mechanisms**
- **Operational Mechanism**
- **Mobilization of Disaster Volunteers**
- **Training & Education**
- **Funding**
- **Prohibited Acts**
- **Penal provisions**

TACTICAL LEVEL



OPERATIONAL LEVEL



OPERATIONAL LEVEL



MMDRRMC →

OPLAN METRO YAKAL

- **UNIFIED INCIDENT COMMAND SYSTEM**
- **FOUR STAGING AREAS**
- **SIMULATION & DRILLS**

OPERATIONAL LEVEL



ONGOING PROGRAMS

- **LOCAL DRRM PLANNING**
- **EARLY WARNING SYSTEM**
- **DISASTER SIMULATION**
- **CAPABILITY BUILDING**
- **CAPACITY ASSESSMENT**
- **RESEARCH & TRAINING**

Important Lessons in the Practice of ABCM

- Related agencies have come together in the setting up of appropriate risk assessment and warning system through the GMMA Ready Project
- Hazards and possible impacts are effectively communicated in regular inter-agency conferences
- Water, power, transport, communication companies have prepared their company BCPs
- Area simulation of hazards and effects have become possible for appropriate preparedness and response
- Provided the avenue for review of comprehensive land use plan (CLUPs) of the cities and municipality
- All stakeholders have recognized the importance of conducting training for search and rescue groups and medical responders

WAY FORWARD

- Sunset Review of RA 10121 in 2015
- Approval of the proposed Amendments after review of RA 10121 as one of the priority for the opening of the 17h Philippine Congress
- Approval of the Amended Metro Manila Contingency Plan a.k.a. “Oplan Metro Yakal”
- Metro-wide series of Drills based on 3Ps (PLAN, PREPARE, PRACTICE)



Thank you!