



# **Recovery and Reconstruction After Typhoon Yolanda (Haiyan)**

**NDRRMC Philippines**

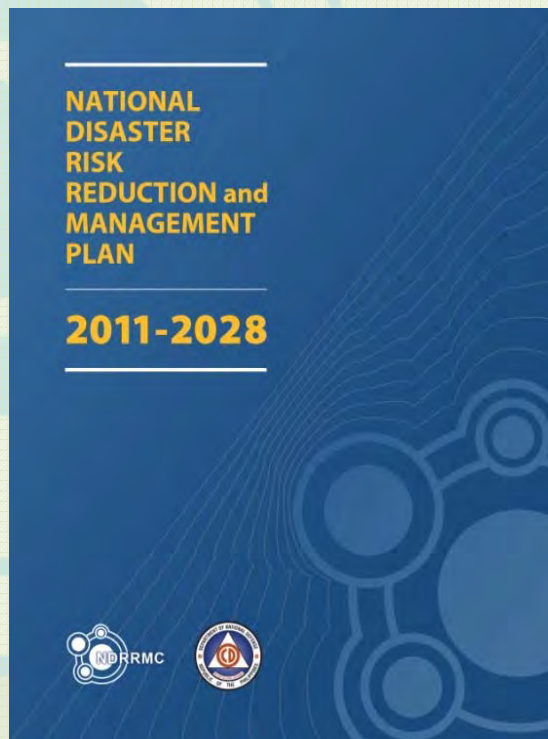


# **Scope of Presentation**

- **The Philippine DRRM System**
- **Typhoon Yolanda Recovery and Rehabilitation**
- **Post-Disaster Needs Assessment (PDNA)**



# Philippine Disaster Risk Reduction & Management System





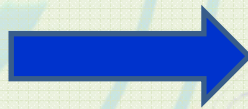
# Philippine DRRM System

## Republic Act 10121

- Strengthens the Philippine Disaster Risk Reduction & Management System



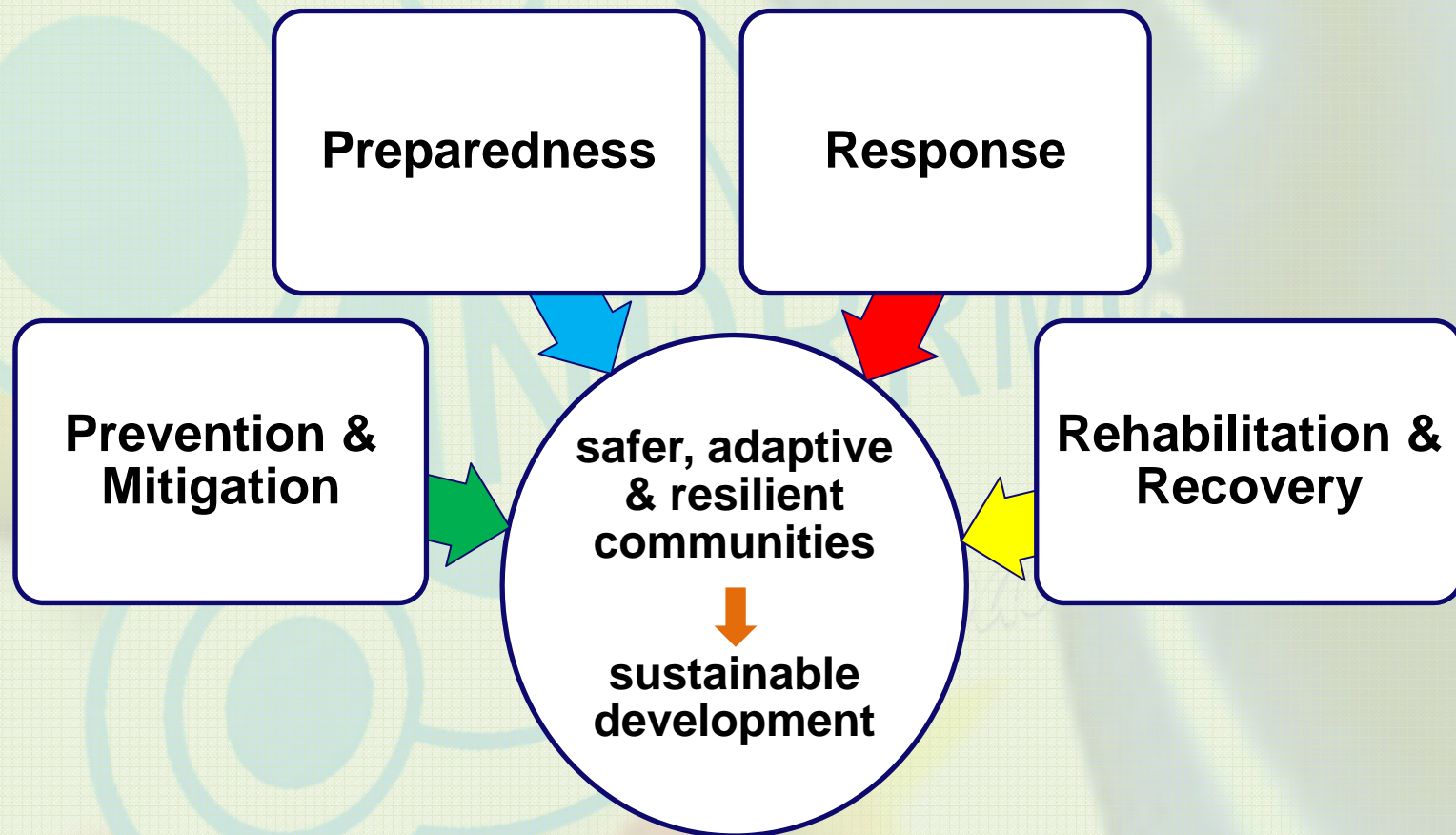
**Disaster Relief  
& Response**



**Disaster Risk  
Reduction**

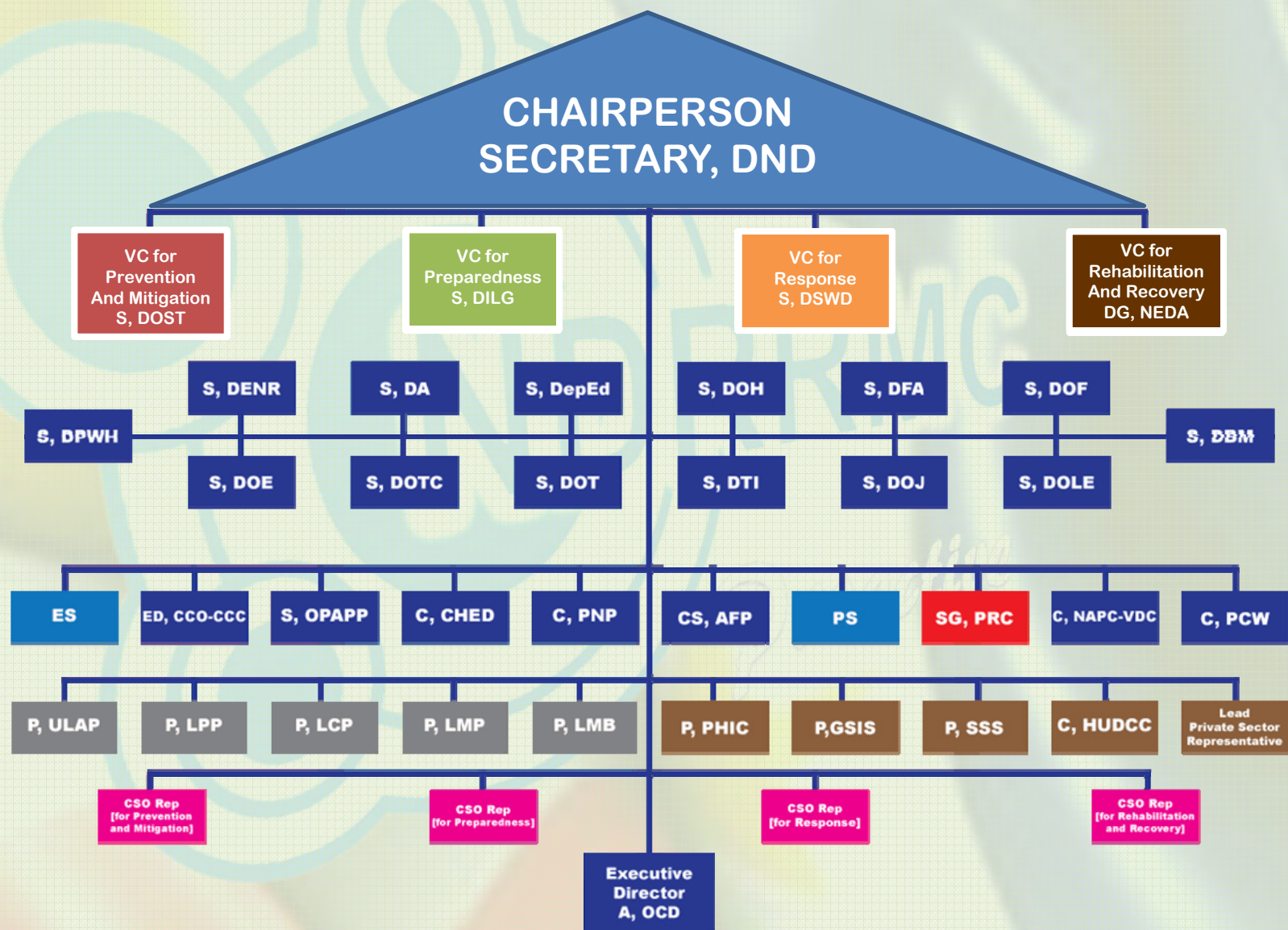


# Four Thematic Areas





# NDRRM Council Members



# DRRM Councils



**National Disaster Risk Reduction & Management Council**

**17 Regional DRRM Councils**

**81 Provincial DRRM Councils**

**143 City DRRM Councils**

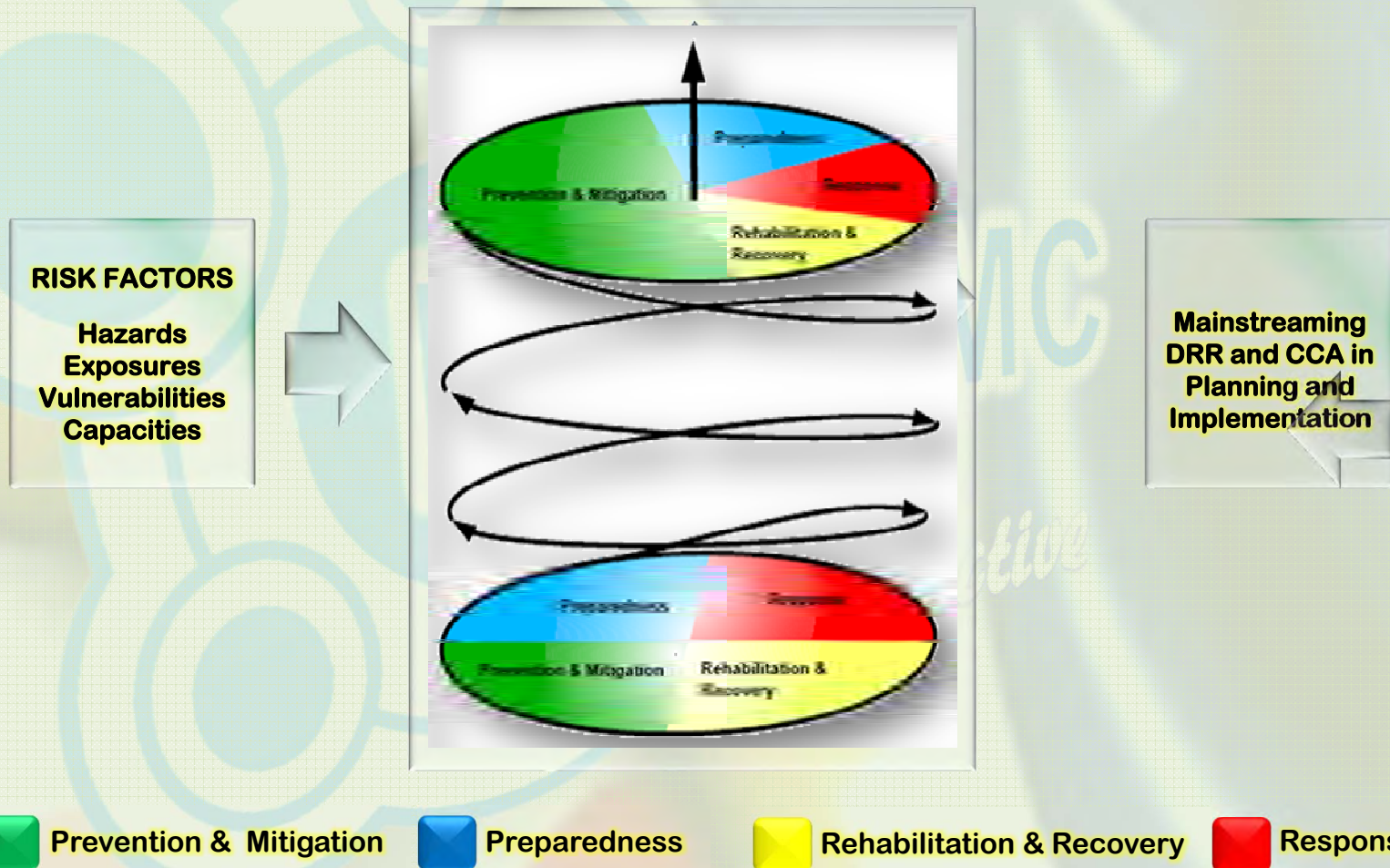
**1, 491 Municipal DRRM Councils**

**42,028 Barangay DRRM Committees**



# NDRRM Framework

Safer, adaptive and resilient Filipino communities toward sustainable development





# The NDRRM Plan, 2011-2028

Provides for:

- identification of hazards, vulnerabilities & risks
- disaster risk reduction & management approaches and strategies
- agency roles, responsibilities & lines of authority
- vertical and horizontal coordination of disaster risk reduction & management

**NATIONAL  
DISASTER  
RISK  
REDUCTION and  
MANAGEMENT  
PLAN**

**2011-2028**





# Disaster Rehabilitation & Recovery

## **Goal:**

to restore and improve the facilities, livelihood, living conditions and organizational capacities of the affected communities, and reduce disaster risks in accordance with the “build back better” principle



# **Typhoon Yolanda**

## **Recovery and Rehabilitation**





# Reconstruction Assistance on Yolanda (RAY)

Strategic Plan to  
guide the recovery &  
reconstruction of  
the economy, lives &  
livelihood





# Reconstruction Assistance on Yolanda (RAY)

- Initial recovery & rehab efforts
- PDNA results will finalize Rehab Plan





# Economic Indicators for Typhoon Yolanda-Affected Regions, 2012

Region	GRDP/GDP (PhP Billion) at 2012 Current Prices	Share to GDP (percent)	Sector Share to National Output		
			Agriculture	Industry	Services
IV-B – MIMAROPA	180.20	1.70	3.60	2.00	1.20
V – Bicol	216.90	2.10	4.20	1.50	1.90
VI – Western Visayas	421.70	4.00	8.70	2.30	3.90
VII – Central Visayas	666.20	6.30	4.00	7.20	6.30
VIII – Eastern Visayas	228.20	2.20	4.00	2.70	1.50
XIII – CARAGA	122.50	1.20	2.30	1.20	1.00
Total of 6 regions	1,835.70	17.40	26.80	16.70	15.80
Philippines	10,564.90	100.00	100.00	100.00	100.00
Total (US\$ Billion)	237.68				



# Preliminary Damage and Loss Assessment

Sector	Damage and Loss (PhP Million)				
	Damage		Loss		Total
	Public	Private	Public	Private	
<b>Infrastructure Sectors</b>	16,024.30	4,285.00	7,108.40	6,565.40	33,983.00
Electricity	5,329.30	1,500.00	4,575.20	4,126.40	15,530.90
Roads, bridges, flood control and public	4,255.20	-	322.90	-	4,578.10
Transport	6,010.80	216.00	24.30	-	6,251.10
Water and sanitation	429.00	2,569.00	2,186.00	2,439.00	7,623.00
<b>Economic Sectors</b>	3,743.50	67,560.00	87.00	106,716.60	178,107.10
Agriculture	3,743.50	27,560.00	87.00	30,716.60	62,107.10
Industry, Services	-	40,000.00	-	76,000.00	116,000.00
<b>Social Sectors</b>	23,175.30	305,472.10	3,442.30	22,628.80	354,718.50
Education	17,953.50	3,726.20	1,303.90	916.30	23,899.90
Health	1,170.80	1,959.90	1,932.40	510.50	5,573.60
Housing	4,051.00	299,786.00	206.00	21,202.00	325,245.00
<b>Cross-sectoral</b>	4,000.00	-	300.00	-	4,300.00
Local Government	4,000.00	-	300.00	-	4,300.00
<b>Total (PhP Million)</b>	<b>46,943.00</b>	<b>377,317.10</b>	<b>10,937.10</b>	<b>135,910.80</b>	<b>571,108.50</b>
<b>Total (US\$ Million)</b>	<b>1,063.60</b>	<b>8,549.20</b>	<b>247.80</b>	<b>3,079.40</b>	<b>12,940.00</b>

*Note: Data from some sectors are incomplete due to ongoing field assessments. These are indicated in the sectoral sub-sections..*



# Estimated Recovery and Reconstruction Needs

Sector	Needs (PhP Million)		
	Recovery	Reconstruction	Total
<b>Infrastructure Sectors</b>	3,654.90	24,670.90	28,325.80
Electricity	1,740.30	8,195.20	9,935.50
Roads, bridges, flood control and public buildings	64.60	5,106.20	5,170.80
Transport	-	7,472.10	7,472.10
Water and sanitation	1,850.00	3,897.40	5,747.40
<b>Economic Sectors</b>	38,201.80	51,278.40	89,480.20
Agriculture	15,401.80	3,278.40	18,680.20
Industry, Services	22,800.00	48,000.00	70,800.00
<b>Social Sectors</b>	-	220,388.90	220,388.90
Education	-	30,351.60	30,351.60
Health	-	6,887.40	6,887.40
Housing	-	183,149.90	183,149.90
<b>Cross-sectoral</b>	18,700.00	4,000.00	22,700.00
Local Government	300.00	4,000.00	4,300.00
Social Protection	18,400.00	-	18,400.00
<b>Total (PhP Million)</b>	<b>60,556.70</b>	<b>300,338.20</b>	<b>360,894.90</b>
<b>Total (US\$ Million)</b>	<b>1,372.10</b>	<b>6,805.00</b>	<b>8,177.10</b>



# Economic Impact

- May reduce the economic growth rate by 0.3 percent in 2013 and by another 0.3 percent in 2014
- Creates pressure on fiscal policy:
  1. The national government has to provide additional funding and reallocate manpower to support emergency relief efforts
  2. The recovery and reconstruction is expected to impact on the fiscal deficit in the next two or three years
- 1.9% increase in poverty incidence - ADB

# Partnering with the Private Sector

- Options for greater private sector involvement :
  - expansion of public-private partnership arrangements for major investment programs
  - streamlining processes to accelerate the issuance of licenses to operate new businesses, especially those that help re-establish critical supply chains
  - facilitating bulk purchase arrangements from the private sector for goods
  - fostering business-community links through adopt-a-town partnerships

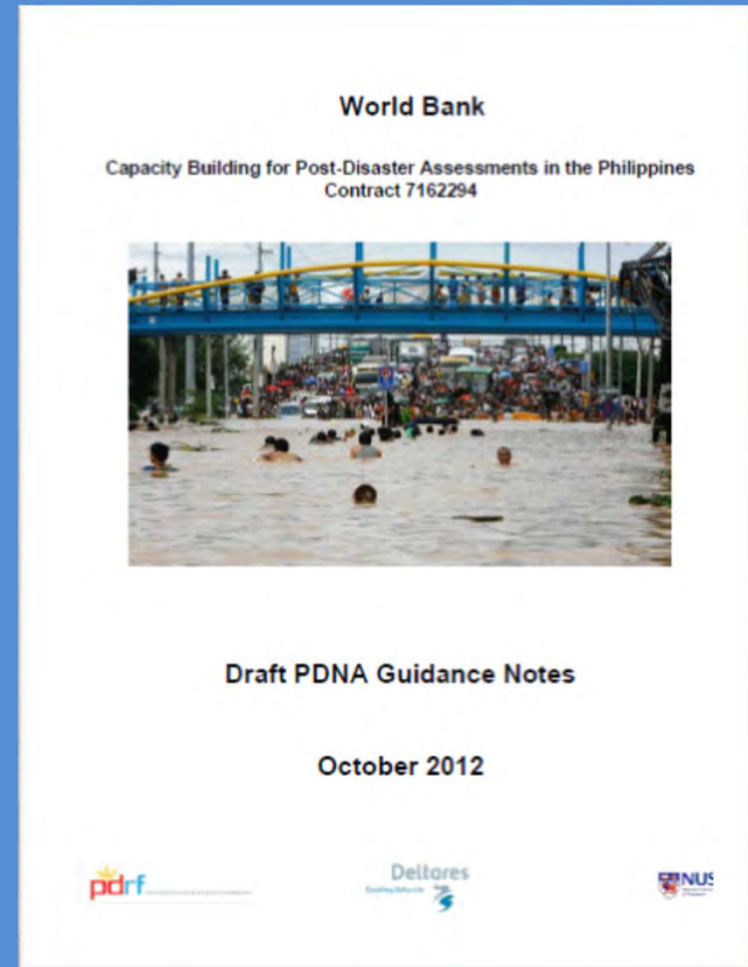


# Post-Disaster Needs Assessment (PDNA)



# PDNA

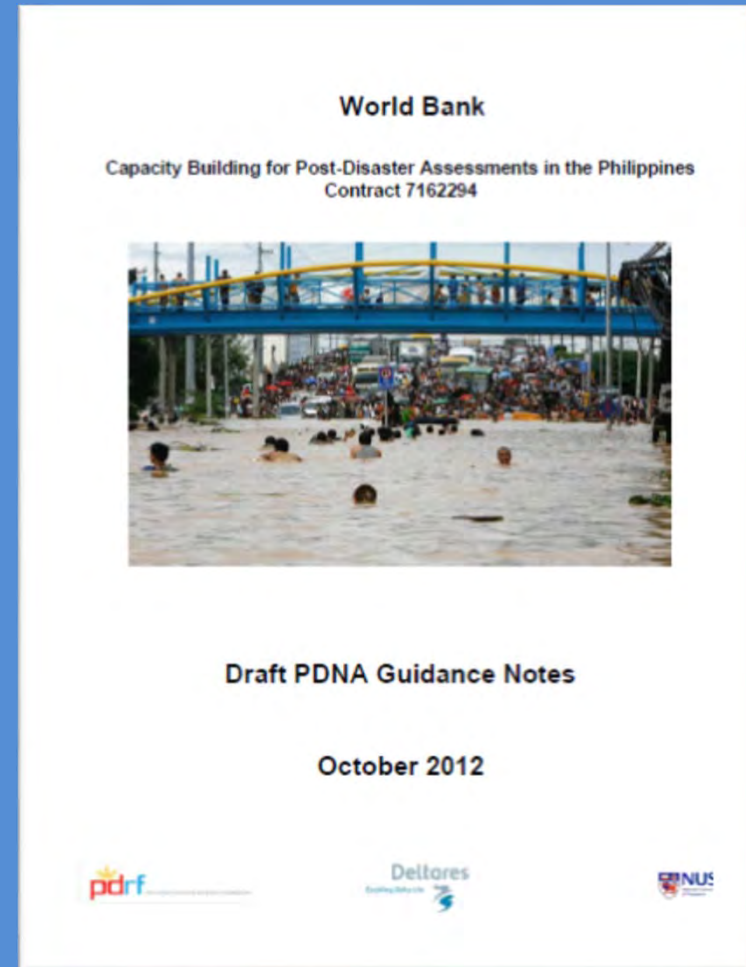
- PDNA is a multi-sectoral & multi-disciplinary structured approach for assessing disaster impacts & prioritizing recovery & reconstruction needs
- Covers Damage & Loss Assessment (DaLA) & Human Recovery Needs Assessment (HRNA) which includes a recovery & reconstruction framework





# PDNA

- Developed by the United Nations Economic Commission for Latin America and the Caribbean (UN-ECLAC, 2003)
- Further refined, expanded, operationalized and documented in the Guidelines for Damage, Loss & Needs Assessment (GFDRR, 2010)



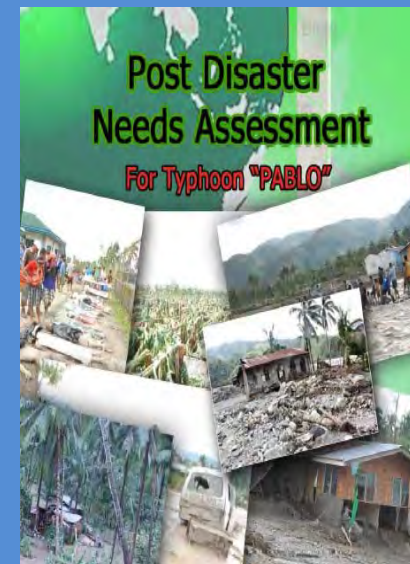
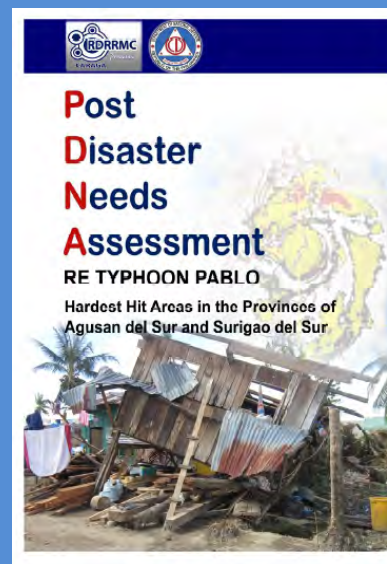
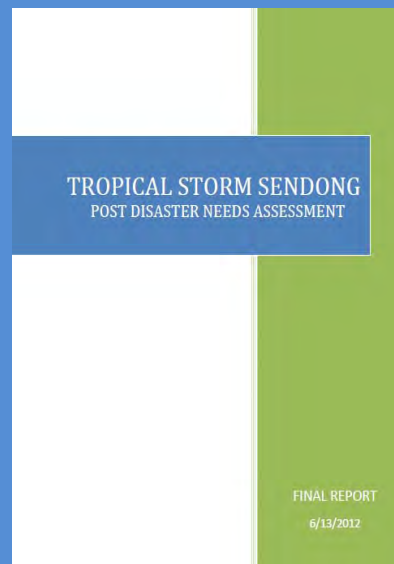
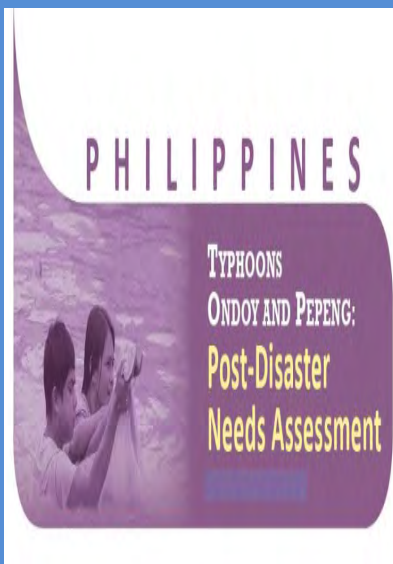
# Group Organization for TY Yolanda PDNA

- National DRRM Plan
  - Thematic Area of Rehabilitation; Outcome 20 – the Office of Civil Defense (OCD) to lead the conduct of the PDNA
- Teams from the N/RDRRMC Member-Agencies to cover affected provinces.
- Participation of Local Government Units
- One of 10 modules, Human Recovery Needs Assessment, in orientation/workshop facilitated by UNDP



# PDNA

- 5<sup>th</sup> conduct of PDNA for the Philippines
- Previously PDNAs were for Typhoons Ondoy (Ketsana), Pepeng (Parma), and Pablo (Bopha) and Tropical Storm Sendong (Washi), as well as the Zamboanga Crisis



# PDNA

- Philippine Government currently undertaking the PDNA for Typhoon Yolanda
- Indigenized in the Philippine setting to adapt to peculiar needs
- Five broad sectors:
  1. Infrastructure
  2. Livelihood
  3. Social
  4. Resettlement
  5. Cross-Sectoral
- Will be the basis for Philippine Recovery & Rehabilitation Plan



# Typhoon Yolanda PDNA

## Sectors and their Components

### INFRASTRUCTURE

- Roads
- Bridges
- Irrigation Facilities
- Health Infrastructure
- Education Infrastructure
- Government Infrastructure
- Tourism Infrastructure
- Flood Control / Sea Wall / Slope Protection
- Mining Infrastructure
- Power Infrastructure
- Water Infrastructure
- Telecommunication Infrastructure

### LIVELIHOOD

- Agriculture
- Environment
- Mining
- Tourism and Culture
- Industry, trade and services

### SOCIAL

- Education
- Health
- Shelter

### RESETTLEMENT

- Housing Construction
- Land Acquisition
- Land Development

### CROSS-SECTORAL

- Government
- Macroeconomics Assessment
- Social Impact Assessment
- Environment



# Timeline

Date	Activities
02 December 2013	Coordinating Meeting with concerned national government agencies including DPWH, DSWD, DOH, DA, NEDA, DepEd, DTI, DOF and DBM
08-10 January 2014	Coordinating Meeting and Workshop of all agencies and stakeholders in Cebu City
11 Jan-Feb 28, 2014	PDNA Teams fieldwork in all affected areas
1 <sup>st</sup> week of March 2014	Final Writeshop
2 <sup>nd</sup> -3 <sup>rd</sup> wk of March 2014	PDNA Presentation to NDRRMC-TMG/Principals





**Maraming Salamat Po!**