



*Asian Conference on Disaster Reduction 2015,  
15 March 2015, Sendai, Japan*

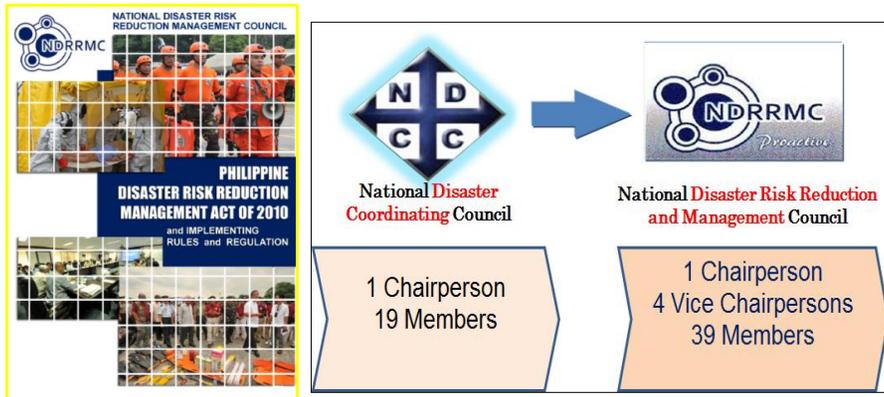


**UNDERSECRETARY ALEXANDER P. PAMA**  
**Executive Director, National Disaster Risk Reduction and Management Council  
and Administrator, Office of Civil Defense**



## Our Institutional Arrangements and Policy Framework

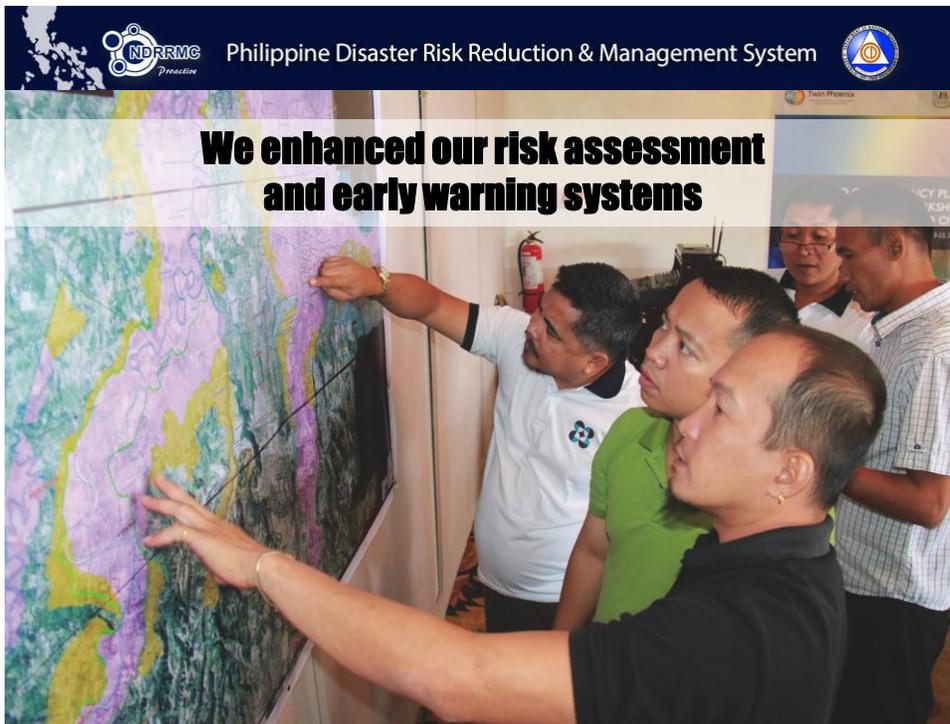
### Republic Act 10121



**NDRRM Framework**



**NDRRM Plan**



### DRRM Initiatives:

- Project NOAH or Nationwide Operational Assessment of Hazards
- Acquisition of high resolution datasets using LiDAR and IFSAR technologies
- Multi-hazards mapping
- Risk Assessments
- Comprehensive Land Use Plans



Photo-Credits: [www.dostprojectnoah.com](http://www.dostprojectnoah.com), [www.globalnation.inquirer.net](http://www.globalnation.inquirer.net)

**We promoted the culture of safety & resilience**





**We reduced underlying risk factors**



Risk resiliency and climate change adaptation and mitigation are priority areas in the Philippine Development Plan for 2011 – 2016



## We strengthened disaster preparedness at all levels



### DRRM Initiatives:



Evacuation drills, earthquake drills and simulation exercises



Training and equipping for emergency response units and volunteers

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



## COMPARATIVE ANALYSIS of recent TYPHOONS in the Philippines

**Typhoon "Yolanda"  
(Haiyan)**



**Typhoon "Glenda"  
(Ramasun)**



**Typhoon "Ruby"  
(Hagupit)**



Characteristics	TYPHOON YOLANDA ("HAIYAN")	TYPHOON GLENDA ("RAMASUN")	TYPHOON RUBY ("HAGUPIT")
Maximum winds	235 kph	150 kph	215 kph
Gustiness	275 kph	180 kph	250 kph
Duration	4days 06-09 November 2013	5days 13-17 July 2014	7days 04-10 December 2014



### CASUALTIES

## Summary of Effects

#### TY YOLANDA

**6,300**  
people dead

**23,869**  
injured

**1,061**  
Missing

**AFFECTED  
POPULATION** **3,424,593**  
families

**16,078,181**  
persons

#### TY GLENDA

**106**  
people dead

**1,250**  
injured

**5**  
Missing

**1,024,251**  
families

**4,653,716**  
persons

#### TY RUBY

**18**  
people dead

**916**  
injured

**NONE**  
Missing

**944,249**  
families

**4,149,485**  
persons



**DAMAGED HOUSES**

## Summary of Effects

	<b>TY YOLANDA</b>	<b>TY GLENDIA</b>	<b>TY RUBY</b>
	<b>1,084,312</b>	<b>633,680</b>	<b>290,670</b>
	<b>489,163</b> totally	<b>112,067</b> totally	<b>42,466</b> totally
	<b>595,149</b> partially	<b>521,613</b> partially	<b>248,204</b> partially



### AFFECTED REGIONS

**9**  
Regions  
(Regions IV-A, IV-B, V, VI, VII, VIII, X, XI, & CARAGA)

**7**  
Regions  
(Regions I, III, IV-A, IV-B, V, VIII, & NCR)

**9**  
Regions  
(Regions III, IV-A, IV-B, V, VI, VII, VIII, & NCR)

## How did we do it?

**GOVERNMENT**

+

**PEOPLE**

**Structures  
Resources  
System**

**Cooperation  
Support**

## Pre-Emptive Evacuation

### TY RUBY

146,875 families or  
716,639 persons

### TY GLENDA

50,191 families or  
254,447 persons

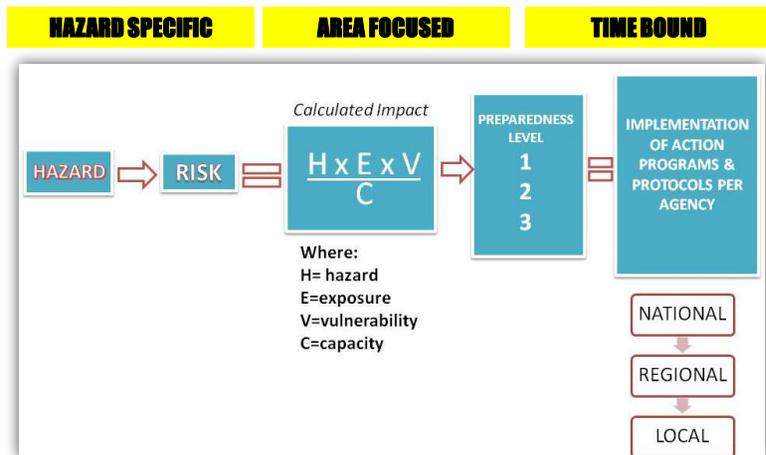
### TY YOLANDA

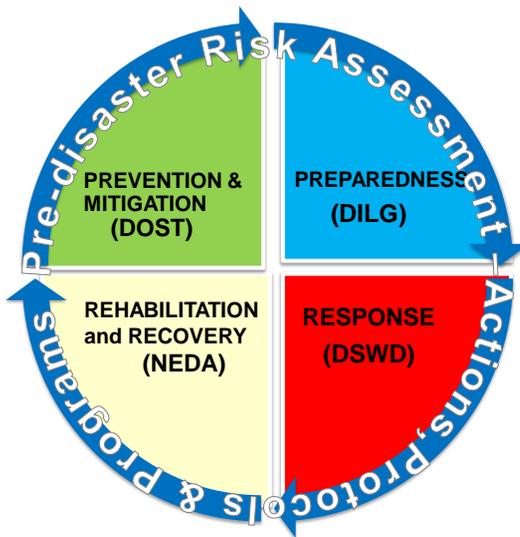


photo credit: GMA Network

## Pre-disaster Risk Assessment – Action Protocols & Programs (PDRA-APP)

*is a tool and a process that is*





- ❑ Goes across the 4 thematic areas
- ❑ Strengthens coordination mechanisms among responsible agencies & local government units
- ❑ Aligned with HFA and post-2015 priority areas



**STEP 1:**  
**PDRA Core Group**  
*is convened once a possibility of a weather anomaly is spotted in the Pacific*

**STEP 2:**  
**Conduct of Risk Assessments**  
*by scientific and technical government agencies*



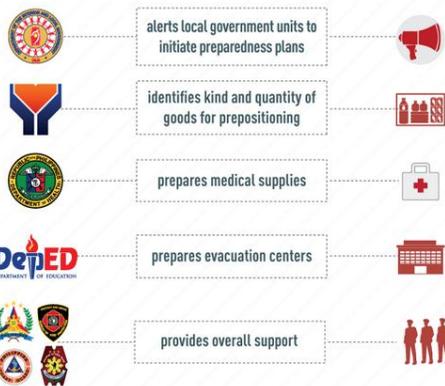
*PAGASA-DOST and DOST-NOAH present their findings and make recommendations*

**Project NOAH or Nationwide Operational Assessment of Hazards**

is a responsive disaster management program that makes use of advanced scientific research and cutting-edge technology to reduce risks in vulnerable communities. Its main objective is to prevent and mitigate disasters



*The MGB, NAMRIA, and PHIVOLCS will give input if necessary*



**STEP 3:**  
**Actions**  
*PDRA as basis for actions and implementation*



*If the storm makes landfall, everything is in place.*



## Utilizing social media to support the Response Cluster for information exchange and quick coordination

**TYPHOON RUBY RESPONSE CLUSTER  
CONTACT INFO**

 **Ruby Response Cluster**

 **@rubyresponse**  
**#rubyresponse**

 **911-1230; 911-1292; 911-1183**  
**911-1178; 911-1173**

 **0928-258-8676; 0928-258-8691**

 **rubyresponsecluster@gmail.com**



## Commendation from the Local and International Community

UN lauds Philippines handling of Typhoon Hagupit (Ruby)



Alexander Faña (left), Executive Director of the Philippines' National Disaster Risk Reduction and Management Council, receives a briefing from a local meteorologist on the expected movement of Typhoon Hagupit. (Photo: Realy Montenegro)

### UNDP Chief Helen Clark lauds Philippine Government for excellent handling of Typhoon Hagupit

15 Dec 2014

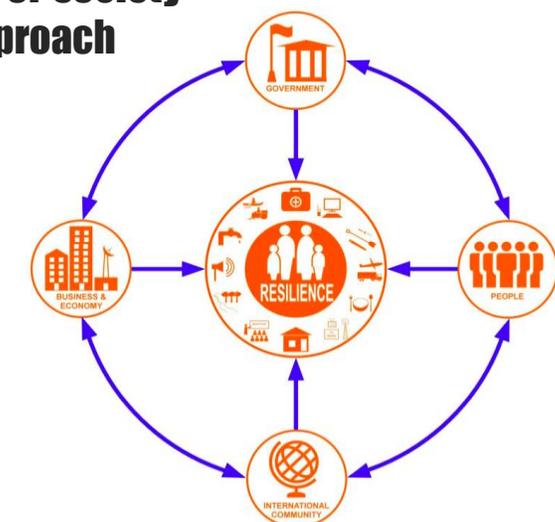
..this extraordinary achievement is a clear reflection of the careful planning and strengthened institutional capacity of the relevant authorities..."

- *UNDP Administrator Ms Helen Clark*

"UNISDR believes that the Philippines government has done an excellent job of putting into action the lessons learned from Typhoon Haiyan. All arms of government, including PAGASA and the National Disaster Risk Reduction and Management Council, and municipalities like Tacloban have pulled together to save lives and minimize the damage being inflicted by this disaster event."  
- *UNISDR Chief Margareta Wahlström*



## Whole-of-society Approach



## Way Forward

- **Improving the DRRM System (Thematic Areas)**
- **Livelihood and Business Continuity**
- **Development of Financing and Enterprise Options**
- **Development of Risk Financing Scheme**
- **Dynamic Partnership with Foreign Governments and Financial Institutions**



**THANK YOU!**