

2017/SOM1/EPWG/022

Agenda Item: 7.2.3

# Disaster Risk Reduction in New Normal: The Philippine Experience

Purpose: Information Submitted by: Philippines



11<sup>th</sup> Emergency Preparedness Working Group Meeting Nha Trang, Viet Nam 18-19 February 2017



# DISASTER RISK REDUCTION (DRR) in New Normal: THE PHILIPPINE EXPERIENCE

11<sup>th</sup> Emergency Preparedness Working Group Meeting 18 - 19 February 2017 Nha Trang, Viet Nam

#### ALLEN M. FORTES

Officer-in-Charge , Policy Development and Planning Service Office of Civil Defense National Disaster Risk Reduction and Management Council PHILIPPINES

# SCOPE OF PRESENTATION

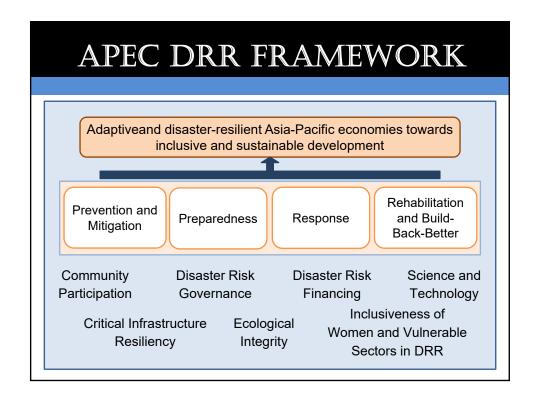
- I. Brief on APEC DRR Framework
- II. DRR in New Normal
- III. Philippine Innovation in "New Normal"
- IV. Conclusion

# APEC DRR FRAMEWORK

An APEC initiative that aims to harmonize all DRR efforts in the Asia-Pacific Region

#### GOAL:

Adaptive and disaster-resilient Asia-Pacific economies towards inclusive and sustainable development





# DRR IN NEW NORMAL

# DRR IN NEW NORMAL Track of Typhoon TAMAN PHAMA 2012: 17 Typhoons 2013: 18 Typhoons 2014: 11 Typhoons 2015: 15 Typhoons 2016: 14 Typhoons

# DRR IN NEW NORMAL

## SUPER TYPHOON YOLANDA (HAIYAN)



**TOTAL DAMAGES:** USD 2,050,158,363.08

**DEAD**: 6,386

**INJURED**: 28,792 **MISSING**: 1,075

# DRR IN NEW NORMAL

## SUPER TYPHOON LAWIN (HAIMA)



**TOTAL DAMAGES:** USD 325,195,233.51

**DEAD**: 23

INJURED: 120 MISSING: 0

# DRR IN NEW NORMAL

# **BOHOL 7.2 EARTHQUAKE**



**TOTAL DAMAGES:** USD 45,246,281.82

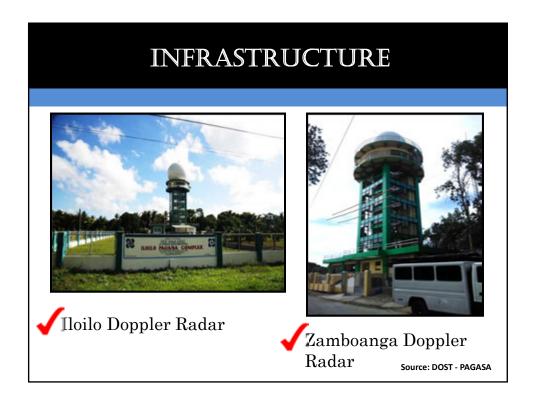
**DEAD**: 227

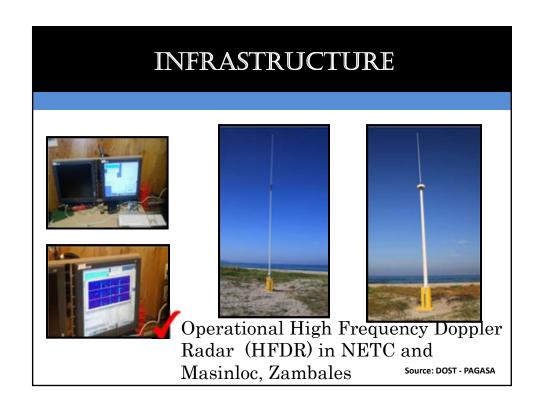
**INJURED**: 976

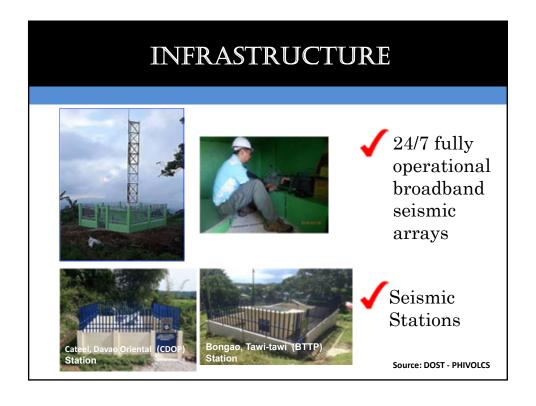
MISSING: 8

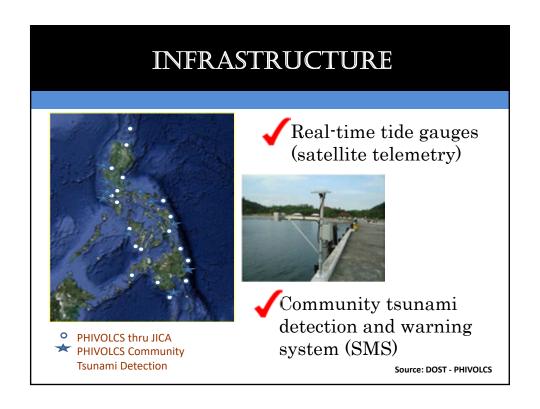


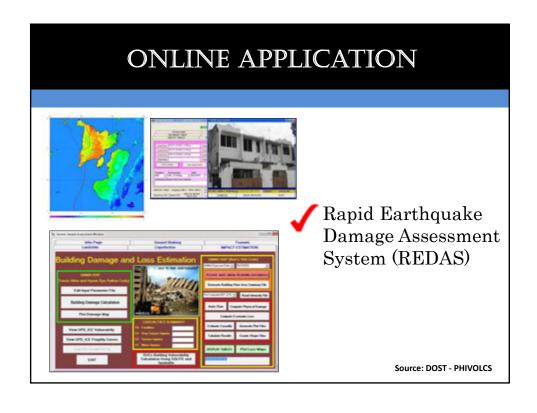
# PHILIPPINE INNOVATION IN "NEW NORMAL"

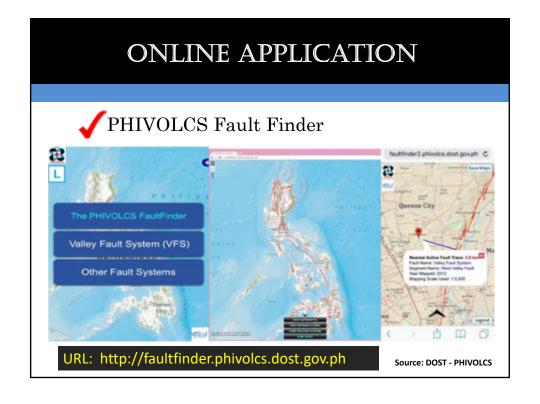


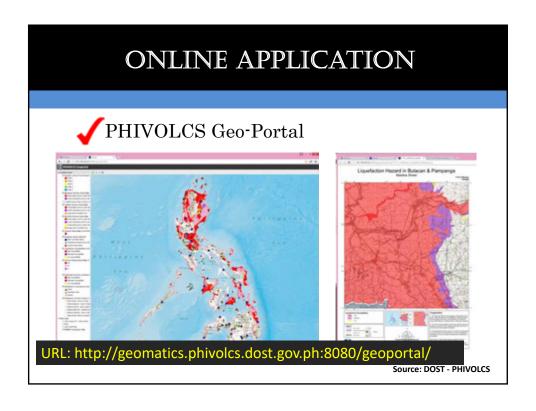














# **CONSTRUCTION**

Typhoon Resilient Housing Unit



## **CONSTRUCTION**

# Integrated Water Resources Management Program •Construct/rehabilitate Flood Mitigation Structures

- along Major River Basins and Principal Rivers
- Construct water impounding projects to optimize water resources
- Construct Water Supply/Septage & Sewerage/Rain Collectors
- Upgrade/improve drainage capacity
- Complete and update the flood control and drainage master plans and feasibility studies of Major River Basins and Principal Rivers.
- Pursue accreditation of flood control engineers through capacity building and transfer of technology

## **CONSTRUCTION**



# Disaster Risk Reduction and Climate Change Adaptation Program

- Rehabilitate, retrofit and strengthen existing bridges
- Provide safe access to highly vulnerable areas
- Improve national roads vulnerable to flooding, landslide and slope failure
- Build evacuation centers incorporating requirements prescribed by NDRRMC
- Upgrade quality standards based on Design Guidelines, Criteria & Standards (DGCS) 2015 which incorporates resilient design to address climate impacts to all infrastructures.

## **CONCLUSION**

- •Use of Science and Technology in DRR/CCAM is necessary to make our communities resilient to disasters
- •Online based DRR tools make our decision-making more transparent and efficient

# **THANK YOU!**