

BUILDING E-RESILIENCE

THE ROLE OF ICTS IN DRM IN THE
PHILIPPINES

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OUTLINE

- Legal and policy Context
 - Evolution of Philippine Disaster Framework
- Assessment of ICT Readiness
- Local Trends and Applications of ICT Systems in use for DRM
 - Disaster Prevention & Mitigation
 - Disaster Preparedness
 - Disaster Response
 - Disaster Recovery
- Lessons and Recommendations

LEGAL AND POLICY CONTEXT

- Risk Reduction and Management as a Legal Duty
 - The state has committed to “provide maximum care, assistance, and services to individuals and families affected by disaster, implement emergency rehabilitation projects to lessen the impact of disaster and facilitate the resumption of normal social and economic activities.” Sec. 2 RA 10121
- Legal context of DRM in the Philippines
 - Philippine Disaster Act of 2010 (RA 10121)
 - Climate Change Act of 2009
 - People’s Survival Fund Act
 - Risk Reduction and Preparedness Equipment Protection Act

EVOLUTION OF THE PHILIPPINE DISASTER FRAMEWORK

| PERIOD/Law | FOCUS/Contribution |
|--------------------------------------|--|
| Commonwealth | Preparedness for war/National defense |
| Civil Defense Act | Preparedness for natural calamities |
| PD 1566 | An integrative approach towards disaster policy formulation; seen still as a concern of National Defense |
| Climate Change Act 2009 & PDRRM 2010 | adopts UN definition for disasters & in turn, disaster risk reduction |

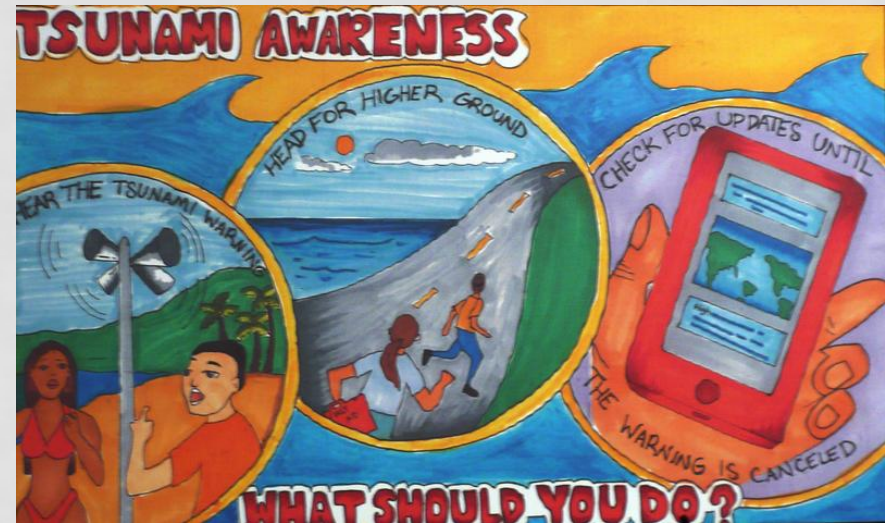
ADOPTION OF U.N. DEFINITION FOR DISASTER

- “a serious disruption of the functioning of a community or a society involving widespread human, material, economic or environmental losses and impacts which exceed the ability of the affected community or society to cope using its own resources” (Sec. 3g of CC Act)

This definition expands the notion of what disaster countries should prepare for. No longer limited to WAR or NATURAL CALAMITIES

DEFINITION OF DISASTER RISK REDUCTION

- “the concept and practice of reducing disaster risks through systematic efforts to analyze and manage the causal factors of disasters, including through reduced exposures to hazards, lessened vulnerability of people and property, wise management of land and the environment, and improved preparedness for adverse events.”



DRM LAWS & ICTS

| Policy | Provides for | ICTs involved |
|--|--|---|
| RA 10121 (Philippine Disaster Act of 2010) | multi-stakeholder participation in the development, updating, and sharing of a DRRM Information System | <ul style="list-style-type: none"> - Database or information system - GIS -based national risk maps |
| | a national early warning and emergency alert system to provide accurate and timely advice | <ul style="list-style-type: none"> - digital & analog broadcast, cable, satellite TV & radio, and wireless and landline communications |
| RA 9729 (Climate Change Act of 2009) | R & D, database development, and information dissemination | <ul style="list-style-type: none"> - database, new risk assessment technology - communication infrastructure |
| | Research, development, and promotion of technology | <ul style="list-style-type: none"> - tools and technology relevant to climate change |
| RA 10174 (People' Survival Fund Act) | financing the development of forecasting and early warning systems | <ul style="list-style-type: none"> - forecasting and early warning ICT |
| RA 10344 (Risk Reduction and Preparedness Equipment Protection Act) | Punishes the theft, destruction, tampering, or illegal selling (fencing) of equipment used in risk reduction and prevention (e.g. aRQ) | <ul style="list-style-type: none"> - government equipment and technology used in disaster reduction and management (e.g. tsunami warning and monitoring system). |

BASED ON DRM LAWS : THE FUNCTIONS OF ICT

- ICTs as critical infra for Data Repository
 - Use information for other services
 - Data storage; Back-up System
- ICTs as Infra for communication
 - Delivery of information
 - Means for education
 - Warning the population
- ICTs as an enabling mechanism for Information

预览已结束，完整报告链接和二维码如下：

https://www.yunbaogao.cn/report/index/report?reportId=5_4343

