Cultivating Cross-Border Knowledge Sharing: Driving sustainable and green technology solutions for enhancing climate resilience

ATTY. MARION IVY D. DECENA DOST, PHILIPPINES











WORLD RISK INDEX 2022

Figure 1: Risk index of the Philippines from 2011 to 2022



World Risk Report 2011-2022. Bündnis Entwicklung Hilft, Ruhr-Universität Bochum – Institute for International Law of Peace and Conflict 2022.

TOP 10 COUNTRIES WITH HIGHEST DISASTER RISK 2022		
RANK	COUNTRY	RISK
1	Philippines	46.82
2	India	42.31
3	Indonesia	41.46
4	Colombia	38.37
5	Mexico	37.55
6	Myanmar	35.49
7	Mozambique	34.37
8	China	28.70
9	Bangladesh	27.90
10	Pakistan	26.75



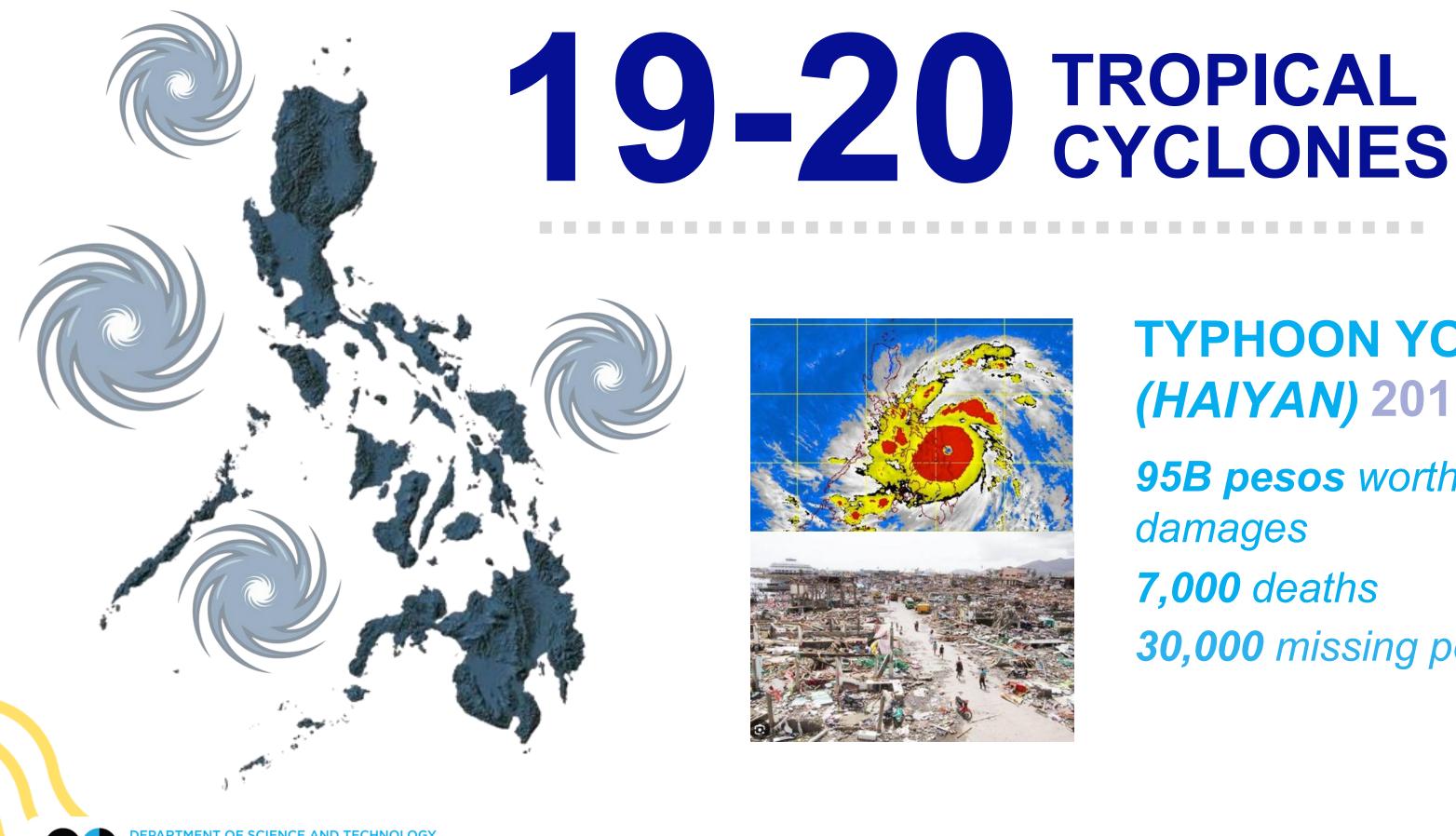


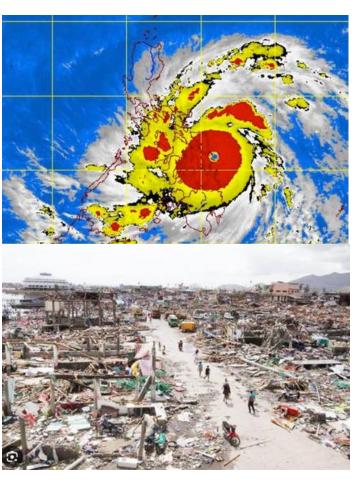












TYPHOON YOLANDA (HAIYAN) 2013

95B pesos worth of damages **7,000** deaths 30,000 missing persons









58%

DISASTER DEATHS
DUE TO
EARTHQUAKES
2000-

Source: United Dan (Dice for Disaster Risk Reducion (CNDRR))

AMONG THE TOP

10

COUNTRIES

MOST AFFECTED BY THE
IMPACTS OF CLIMATE
CHANGE IN 2019

Source: Global Climate Change Report 2022











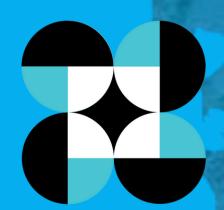


Science to Action: DOST as lead in Prevention and Mitigation

REPUBLIC ACT NO. 10121

Philippine Disaster Risk Reduction and Management Act of 2010

NATIONAL DISASTER RIS REDUCTION MANAGEMENT PLAN



PREVENTION & MITIGATION



OVERALL LEAD



REHABILITATION & RECOVERY





STRATEGIES

- Advocacy and Information, Education and Communication (IEC)
- Competency-based capability building. Contingency Planning Education on DRRM and CCA for all
- Institutionalization of DRRMCs and LDRRMOs
- Mainstreaming of DRR in all plans Research, Technology Development and Knowledge Management
- · Monitoring, evaluation and learning
- Networking and partnership building between and among stakeholders, media and tiers of government







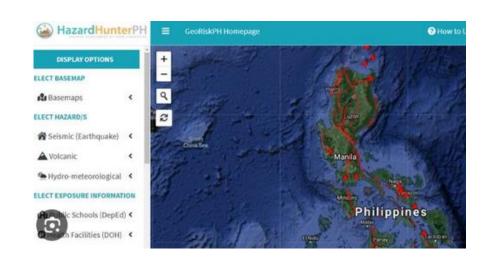












HazardHunterPH



GeoAnalyticsPH



FaultFinde r











HANDA PILIPINAS: INNOVATIONS IN DISASTER RISK REDUCTION AND MANAGEMENT EXPOSITION









Disaster Risk Reduction and Management (DRRM) **Expositions conducted** in 3 major islands of the Philippines

98+

DRRM-related technologies showcased

green technologies

4894

total attendance (General Public, Local Government Unit, Private and Government Org., and Acadame)

24

DDRM-related forums/activities conducted

















Automatic Trash Rake



PROTex (Protective, Reengineered Occupational Technical Textiles)



Vigormin / Ecofriendly Septic System



Abaca Fiber-Reinforced Composites for Transport Applications



Do-It-Yourself Bamboo Shelter



UpEDS Upgraded Emergency Disinfection System





















Recommendations to promote **Green Technologies** for strengthening **climate resilience** of countries in Asia-Pacific



1. Increase the availability of financing for green technology initiatives



2. Facilitate capacity building and technology transfer through training and knowledge sharing



3. Encourage the development of innovative green technologies and policy initiatives



4.Establish mechanisms to monitor and evaluate green technology initiatives



5. Promote publicprivate partnerships that facilitate the adoption and diffusion of green technologies.



6. Strengthen international collaboration and dialogue on green technology initiatives in the Asia-Pacific region









