Geo-Science Application and Technology for DRM

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Utilizing remote sensing, GIS technology, and other advanced tools for disaster risk assessment



Disaster Risk Assessment and Monitoring

Bringing sciences, society, and institution together for disaster risk reduction

- Developing advanced methodologies and tools for risk modeling
- · Conducting hazard, vulnerability and risk assessments
- Profiling disaster risk for disaster management planning
- Assessing damages and economic losses from disasters, and estimating future loss given disaster scenarios.
- Promoting the use of risk assessment for risk mitigation and risk transfer
- · Building capacities and promoting knowledge transfer

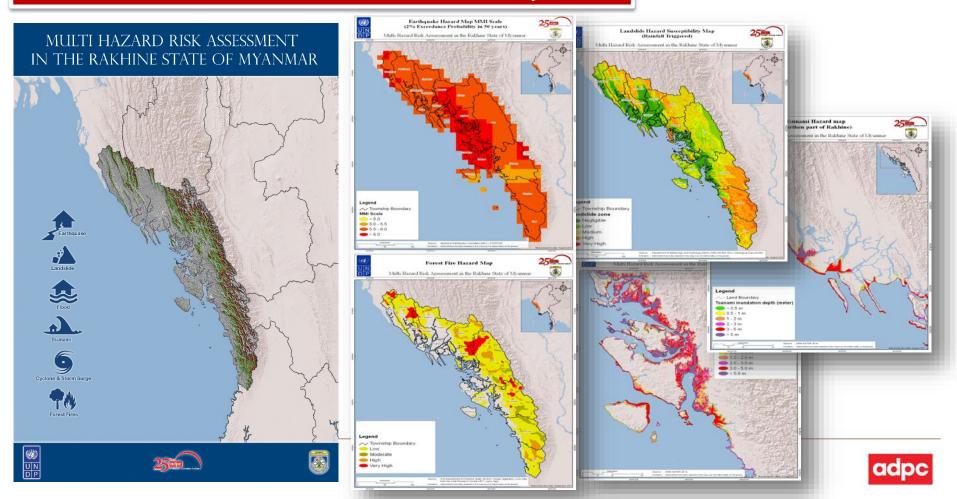
We can conduct risk assessments for a variety of hazards including: earthquakes, floods, storm surge, droughts, epidemics, and landslides.

Our risk assessments have been used for contingency planning, disaster mitigation planning, vulnerability reduction planning, and developmental planning.





Multi-Hazard Risk Assessment in Rakhine State - Myanmar





Satellite Image

Building footprint Digitization



Satellite Image

Building footprint Digitization





Building footprint Digitization

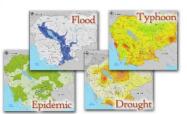




BASIC COMPONENTS OF RISK ASSESSMENT



Natural physical phenomenon which can lead to a loss of life or damage to objects, buildings and the environment.



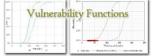


People, property, systems, or other elements present in hazard zones that are thereby subject to potential losses.





The level of possible loss or injury or damage to humans, objects, buildings and the environment which can result from the nature hazard.





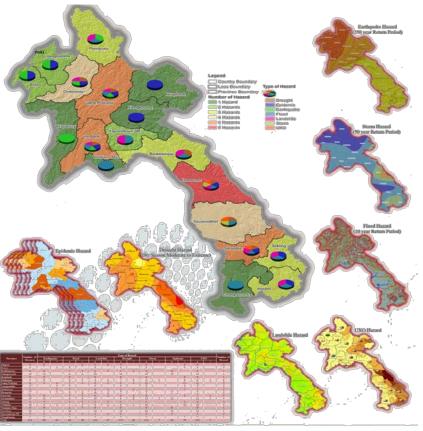
The probability of harmful consequences, or expected losses (deaths, injuries, property, livelihoods, economic activity disturb or environment damage) resulting from interactions between hazards and vulnerability.





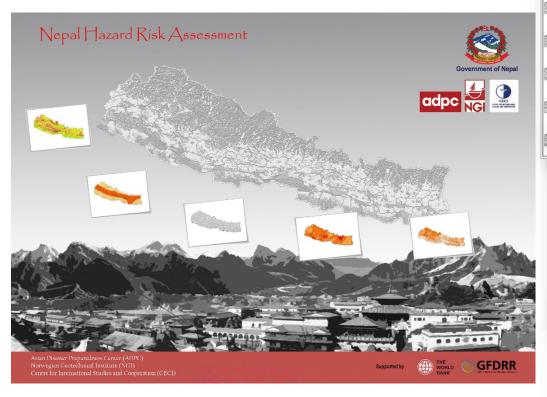
National Risk Profile of Lao PDR (national scale)

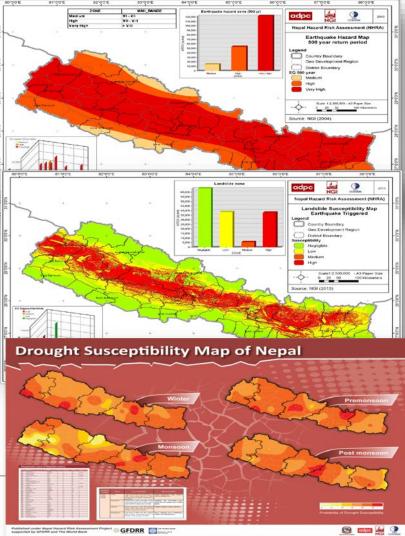






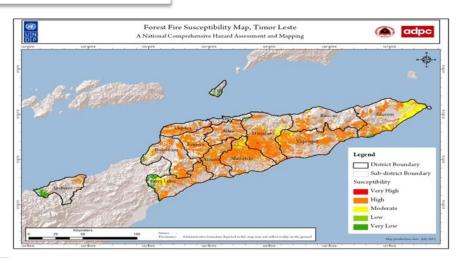
Nepal Hazard Risk Assessment (national scale)

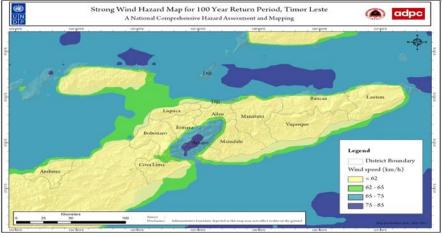


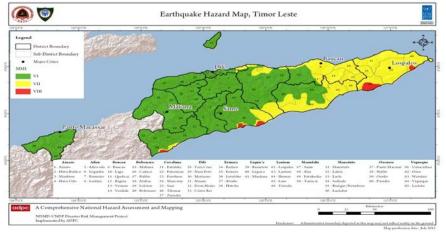


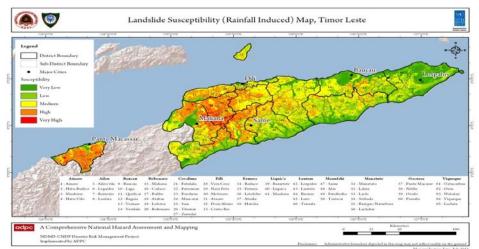
National Risk Profile of Timor Leste(national scale)

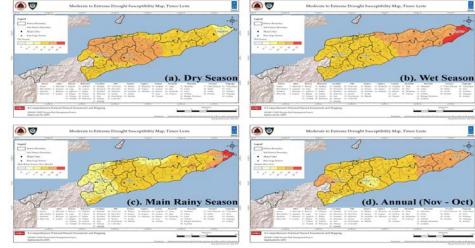






























Comprehensive Disaster Management Programme (CDMP) Ministry of Food and Disaster Management Government of the People's Republic of Bangladesh





Report C



Fragility Study Reinforced Concrete Building in Dhaka, Chittagong ar Sylhet City Corporation Area



Submitted By

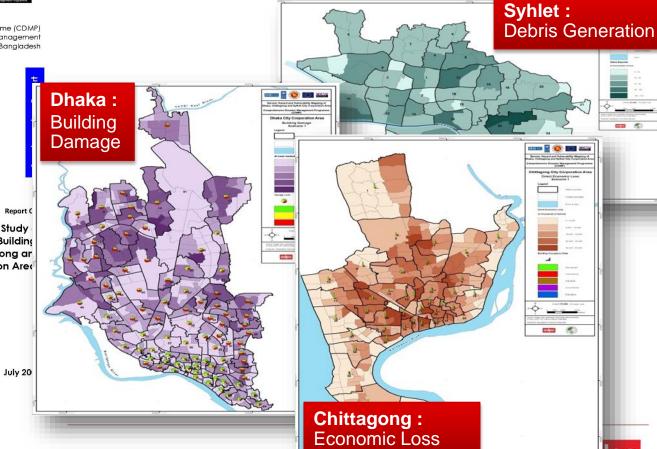


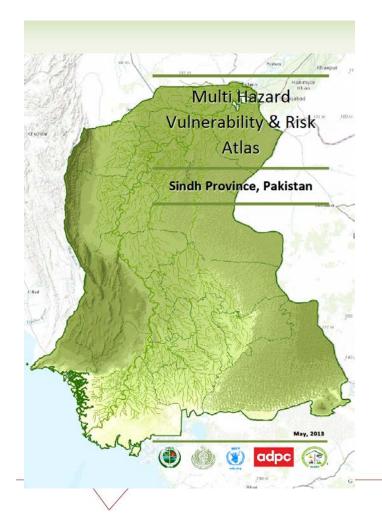


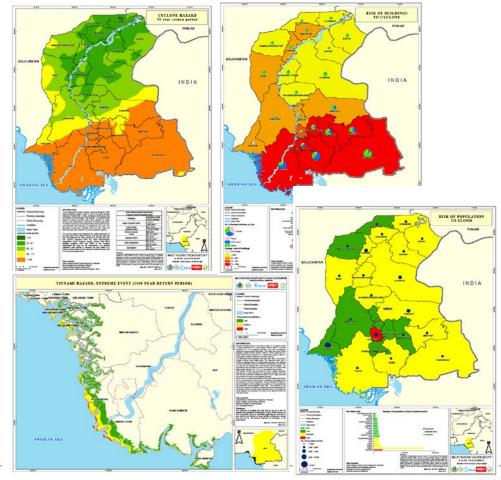






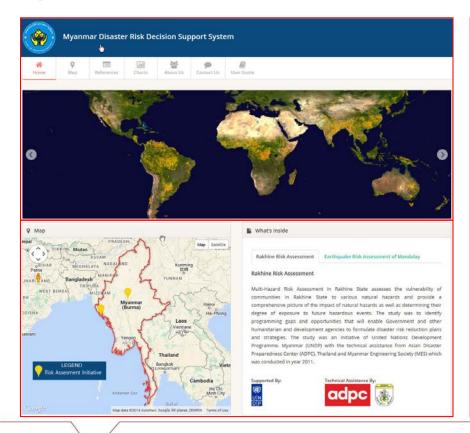


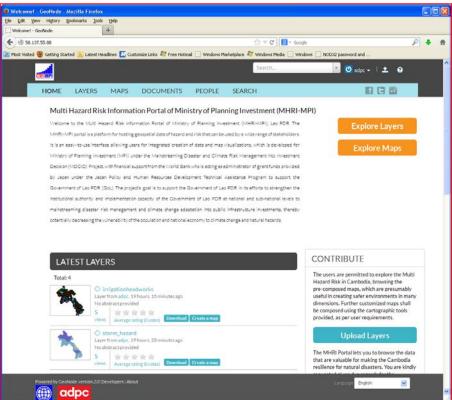






Spatial Information and Data Portals for DRM

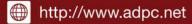






THANK YOU FOR YOUR ATTENTION,







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Group: Asian Disaster Preparedness Center (@ADPCnet

