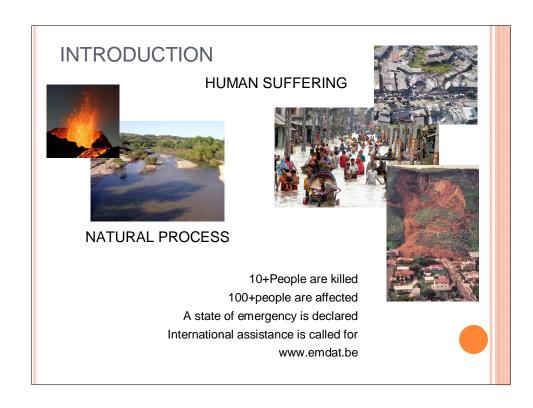


CONTENTS

- **© DEFINATION OF TERMS**
- **¢** REMOTE SENSING SATELLITES
- **USE OF RS IN DIFFERENT PHASES OF DDR**
- **♥** SOME PROBLEMS
- **c** SUMMARY



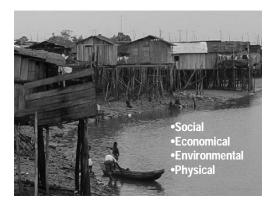
DEFINATION OF TERMS

Term	Definition
Hazard	A potentially damaging physical event, phenomenon or human activity that may cause loss of life or injury, property damage, social and economic disruption or environmental degradation. This event has a probability of occurrence within a specified period of time and within a given area, and has a given intensity.
Disaster	A serious disruption of the functioning of a community or a society causing widespread human, material, economic or environmental losses which exceed the ability of the affected community or society to cope using its own resources.
Elements-at-risk	Population, properties, economic activities, including public services, or any other defined values exposed to hazards in a given area.
Exposure	Degree to which the elements-at-risk are exposed to a particular hazard.
Vulnerability	The conditions determined by physical, social, economic and environmental factors or processes, which increase the susceptibility of a community to the impact of hazards. Can be subdivided in physical, social, economical and environmental vulnerability.
Capacity	The positive managerial capabilities of individuals, households and communities to confront the threat of disasters.
Risk	The probability of harmful consequences, or expected losses resulting from interactions between hazards and vulnerable conditions.

Summary of definitions related to disasters, hazards and vulnerability. Based on UN-ISDR (2004)

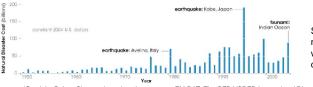






(Wilches-Chaux, 1989) identifies eleven different sub types of vulnerability

helps to determine the impact of a hazard on a population



Since 1950, the cost of natural disasters worldwide has increased dramatically.

(Graph by Robert Simmon, based on data courtesy EM-DAT: The OFDA/CRED International Disaster Database (www.em-dat.net)
Université Catholique de Louvain—Brussels, Belgium)

VULNERABILITY

- ☼ The expected degree of loss experienced by the elements at risk for a given magnitude of hazard (Landslide Hazard and Risk, editors Glade, T. et al, 2006).
- The degree of loss to a given element or set of elements within the area affected by a hazard. It is expressed on a scale of 0 (no loss) to 1 (total loss) (Landslide Risk Management, editors Hungr et al, Balkema, 2005).
- The conditions determined by physical, social, economic, and environmental factors or processes, which increase the susceptibility of a community to the impact of hazard (DRMP, Distt. Sialkot, DDMA, November, 2008).

ROLE OF SPACE TECHNOLOGIES

Navigation : Positioning

← Telecommunications

Earth Observation

Scientific

CONTRIBUTION OF RS AND GIS IN DISASTER MANAGEMENT

Disaster Mitigation

- Catalogues with spatial component
- Hazard assessment
- Elements at risk mapping
- Vulnerability assessment
- Risk assessment
- Spatial Decision Support Systems

Disaster preparedness

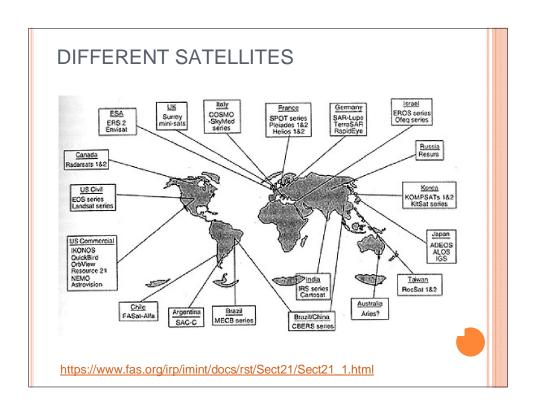
- Disaster plans
- Anomalies in a time series
- Forecasting & Early warning
- Monitoring of an ongoing situation

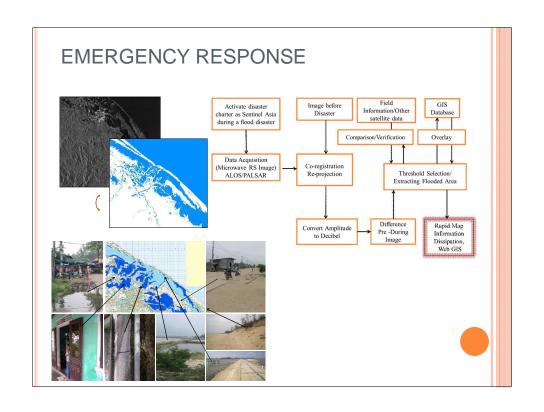
Disaster relief

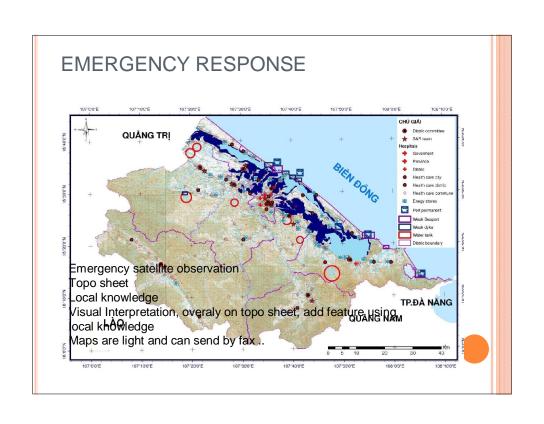
- Mapping extent of disaster
- Damage assessment
- Relief coordination
- Evacuation

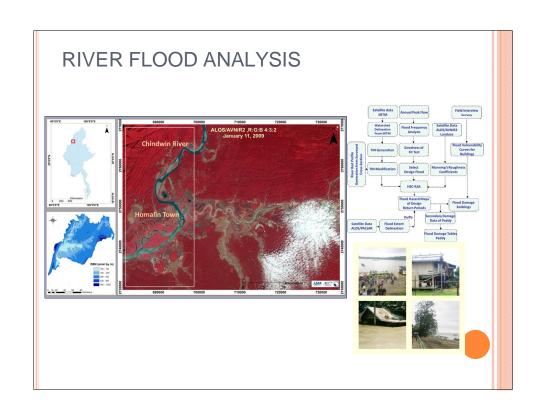
Disaster recovery

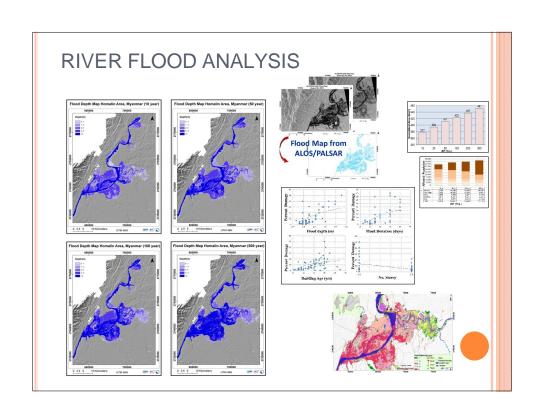
- Post-disaster census
- Identification of reconstruction sites
- Update hazard, vulnerability and risk data bases

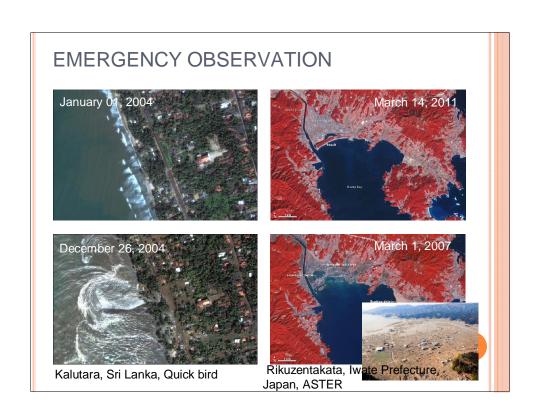














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