

Potential Application of GIS & Remote Sensing

Environmental Emergency Management

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Factors contributing to recent disasters

- Growing vulnerability as a result of demographic & land use changes
- Increasing erosion of earth defenses (e.g. deforestation)
- Weak or non-existent of early warning & response systems

- Weak or absent environmental legislation or institutions for disaster management
- Rapid industrialization & increased use of chemicals without corresponding capacity to prevent, prepare for & respond to emergencies
- Conflicts & poverty

Awareness & preparedness at local level

- APELL help, prevent & prepare people to respond appropriately to accidents & emergencies
- A modular & flexible methodological tool
- Helps decision makers & technical personnel increase community awareness & prepare plans for unexpected events

- APELL applied to any risk situation
(e.g. industrial & natural)
- Initiated by any party
- Applied in developed & developing countries & in remote
or urban areas

Capacity building addressing environmental factors contributing to impacts of flood

- Developing an environmental early warning system
- Developing strategic action plan, focusing on environmental factors
- Establishment of protected areas
- Restoration, management & multiple use of wetland

- Surveying successful existing local technologies & experiences on management of watershed & mountain ecosystems
- Demonstration, awareness & capacity building on renewable energy technologies
- Application of renewable energy technologies to develop human settlements
- Production of vulnerability & risk assessment maps to develop project proposals on mitigating effects of floods
- Awareness raising programmes in environmental emergency management