Disaster management

What is vulnerability?

Vulnerability may be defined as "The extent to which a community, structure, services or geographic area is likely to be damaged or disrupted by the impact of particular hazard, on account of their nature, construction and proximity to hazardous terrains or a disaster prone area."

- •Poor design and construction of buildings,
- •Inadequate protection of assets,
- •Lack of public information and awareness,
- limited official recognition of risks and preparedness measures, and
- •disregard for wise environmental management.

Vulnerabilities can be categorized into physical and social, economic, environment vulnerability.

Physical Vulnerability: It includes damaged or destroyed by natural hazard such as earthquakes or floods. It is based on the physical condition of people and elements at risk, such as buildings, infrastructure etc.; and their proximity, location and nature of the hazard. It also relates to the technical capability of building and structures to resist the forces acting upon them during a hazard event.

Economic vulnerability: the potential impacts of hazards on economic assets and processes (i.e. business interruption, secondary effects such as increased poverty and job loss) Vulnerability of different economic sectors,

Social vulnerability: the potential impacts of events on groups such as the poor, single parent households, pregnant or lactating women, the handicapped, children, and elderly; consider public awareness of risk, ability of groups to self-cope with catastrophes, and status of institutional structures designed to help them cope.

Environmental vulnerability: the potential impacts of events on the environment. Natural resource depletion and resource degradation are key aspects of environmental vulnerability.

Example: Wetlands, such as the Caroni Swamp, are sensitive to increasing salinity from sea water, and pollution from stormwater runoff containing agricultural chemicals, eroded soils, etc.

Capacity: A combination of all strength and resources available within a community or organization that can reduce the level of risk, or the effect of a disaster".

Capacity may include physical, institutional, social or economic means as well as skilled personal or collective attributes such as leadership and management. Capacity may also be described as capability" (UN-ISDR, 2004)

Some examples of capacity are:

- Permanent houses;
- Ownership of land;
- Adequate food and income sources;
- Family and community support in times of crisis;
- Local knowledge
- Good leadership & management.



DISASTER MANAGEMENT CYCLE

Mitigation:

Preventing future emergencies or minimizing their effects

- 1. Includes any activities that prevent an emergency, reduce the chance of an emergency happening, or reduce the damaging effects of unavoidable emergencies.
- 2. Buying flood and fire insurance for your home is a mitigation activity.
- 3. Mitigation activities take place before and after emergencies.

Preparedness:

Preparing to handle an emergency

- 1. Includes plans or preparations made to save lives and to help response and rescue operations.
- 2. Evacuation plans and stocking food and water are both examples of preparedness.
- 3. Preparedness activities take place before an emergency occurs.

Response:

Responding safely to an emergency

- 1. Includes actions taken to save lives and prevent further property damage in an emergency situation. Response is putting your preparedness plans into action.
- 2. Seeking shelter from a tornado or turning off gas valves in an earthquake are both response activities.
- 3. Response activities take place during an emergency.

Recovery:

Recovering from an emergency

- 1. Includes actions taken to return to a normal or an even safer situation following an emergency.
- 2. Recovery includes getting financial assistance to help pay for the repairs.
- 3. Recovery activities take place after an emergency.

