URP-302: Urban Hazard and Risk Management

Topic 1: Basic Understanding of Hazard and Disaster Management

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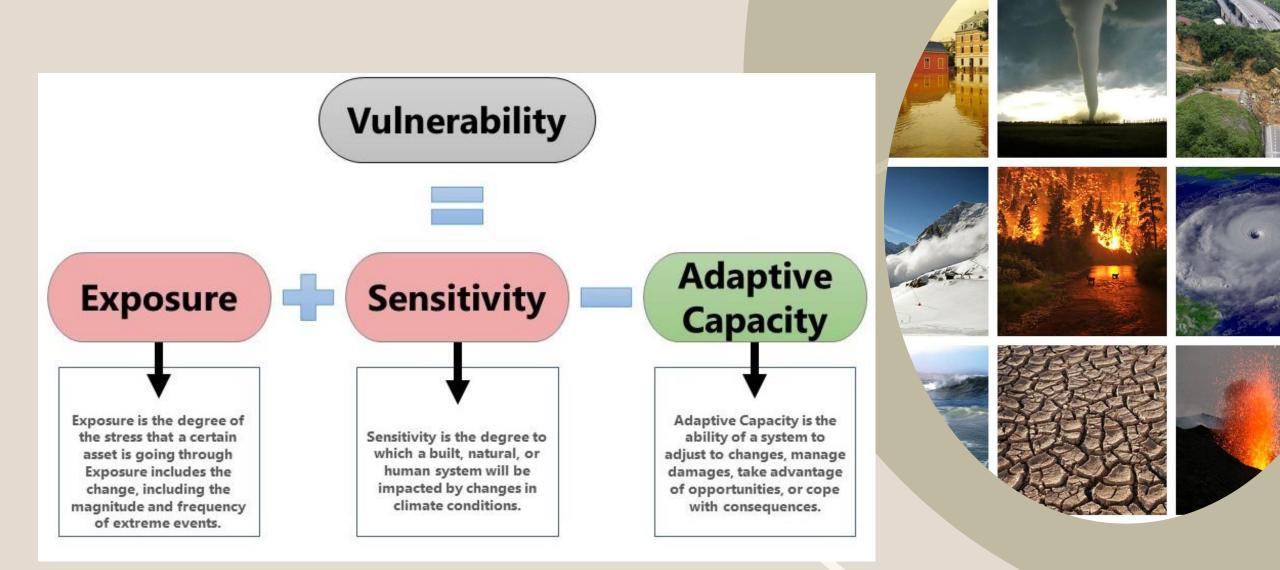
Hazard Vs. Disaster

Natural hazards and natural disasters are related but are not the same.

- A natural hazard is the **threat of an event** that will likely have a negative impact.
- A natural disaster is **the negative impact that** happens after the natural hazard has actually occurred. A disaster significantly harms a community.
- Disaster= Hazard + Vulnerability

**Vulnerability is a function of Exposure, Sensitivity, and Adaptive capacity.





Hazard Vs. Disaster

| Hazard | Disaster |
|--|---|
| Hazard is an event that has potential for causing injury/ loss of life or damage to property/ environment | A disaster is an event that occurs suddenly (in most cases) and disrupts the normal course of life in affected area. |
| Hazards can lead to disaster | A disaster is the result of a hazard |
| Hazards (usually) comes with warnings | Ignoring warning can lead to disaster |
| Hazards maybe inevitable | Disasters can be prevented |
| In a less populated area, a severe hazard might not turn into a disaster. | In an overpopulated area, very minor hazard might lead to a serious disaster. |

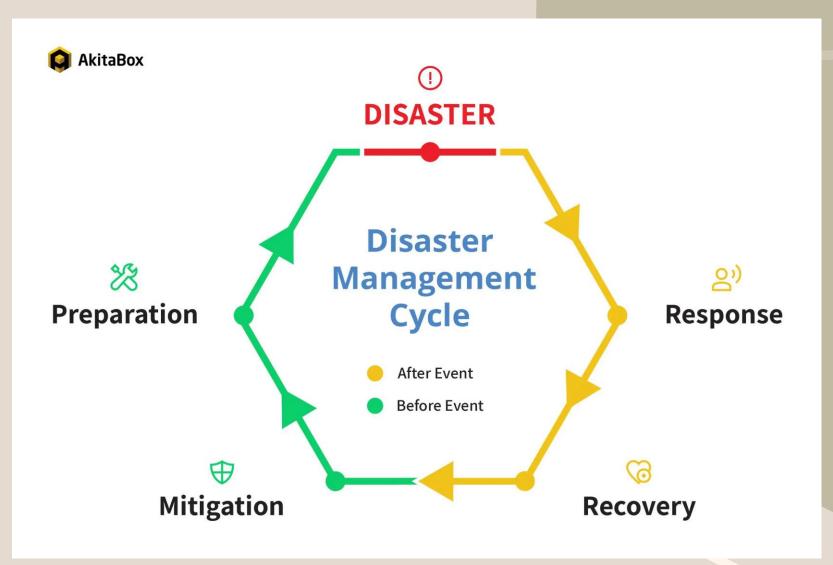


Disaster Management

- Disaster Management can be defined as the effective organization, direction, and utilization of available "counter disaster resources"
- There must be pre-disaster mitigation measures to avoid or reduce the impacts of disasters. This is also known as "Risk Management"



Disaster Management Cycle



Disaster Management Cycle

- **Prevention:** Measures taken to avert a disaster from occurring
- **Mitigation:** To prevent future emergencies and take steps to minimize their effect. Ex: building codes and zoning, Vulnerability analysis, Public education.
- **Preparedness:** To take action ahead of time to be ready for an emergency. Ex: Emergency training, Warning systems
- **Response:** To protect people and property in the wake of an emergency, disaster, or crisis. This includes the efforts to minimize the disaster created by a hazard. Ex: Search and rescue, Relief distribution.
- **Recovery:** Returning the community to a normal situation. Ex: Rebuilding the houses, Medical aid, etc.

Thank you