

# Terminology & Representation

## *Hazards, Disaster & Risk*



### Representation #1

**Definitions** from The United Nations Office for Disaster Risk Reduction UNISDR  
<http://www.unisdr.org/we/inform/terminology>

- **Natural Hazard:** Natural process or phenomenon that may cause loss of life, injury or other health impacts, property damage, loss of livelihoods and services, social and economic disruption, or environmental damage.
- **Hazard:** A dangerous phenomenon, substance, human activity or condition that may cause loss of life, injury or other health impacts, property damage, loss of livelihoods and services, social and economic disruption, or environmental damage.
- **Disaster:** A serious disruption of the functioning of a community or a society involving widespread human, material, economic or environmental losses and impacts, which exceeds the ability of the affected community or society to cope using its own resources.
- **Risk of Disaster:** The potential disaster losses, in lives, health status, livelihoods, assets and services, which could occur to a particular community or a society over some specified future time period.



### Representation #2

FEMA Emergency Management Institute Course: Comparative Emergency Management  
<https://search.usa.gov/search?affiliate=netc&query=calculate+risk&op=Search>

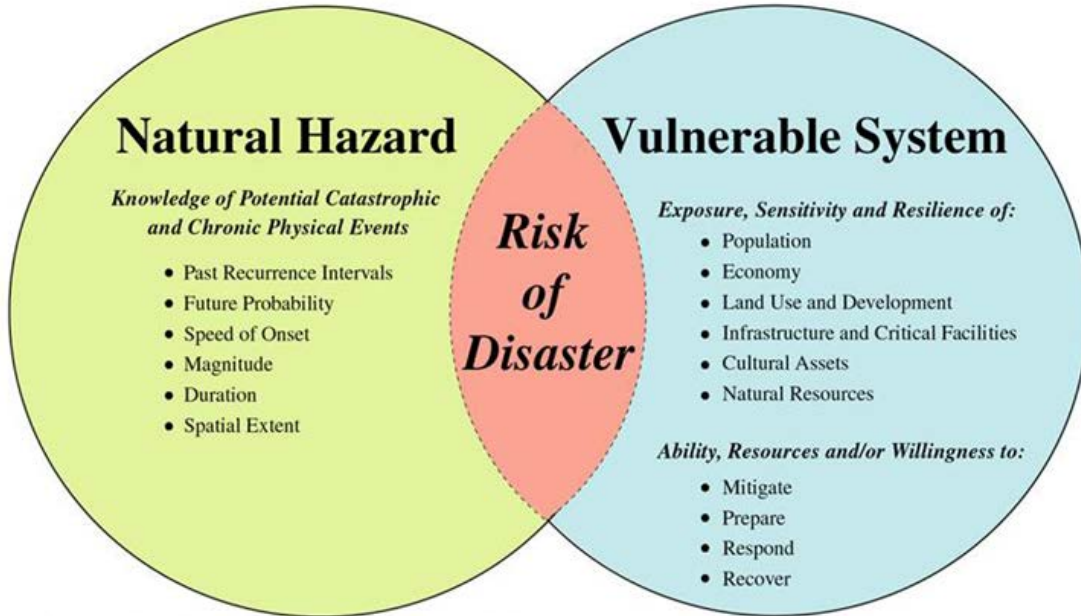
#### Equation

Risk can be illustrated through the equation that states it is the likelihood of an event occurring multiplied by the consequence of that event, were it to occur.

$$\text{RISK} = \text{LIKELIHOOD} \times \text{CONSEQUENCE}$$



### Representation #3



<http://pubs.usgs.gov/fs/2011/3008/>