

# Preparedness to Prevent, Mitigate, or Improve Disaster Response and Recovery II

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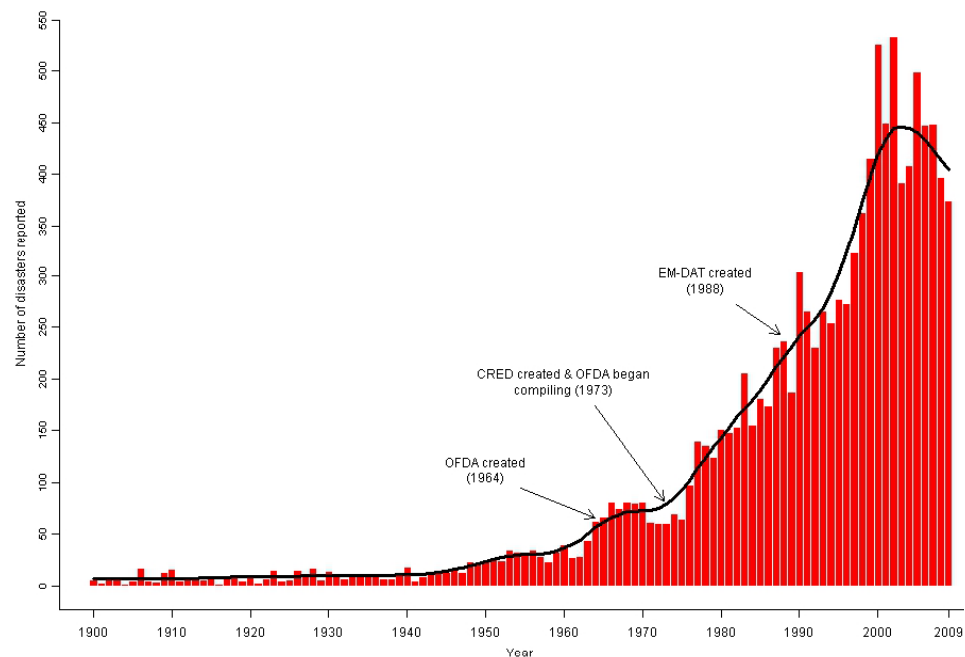
*American Red Cross*

***DISASTER RISK REDUCTION  
AND CLIMATE CHANGE***



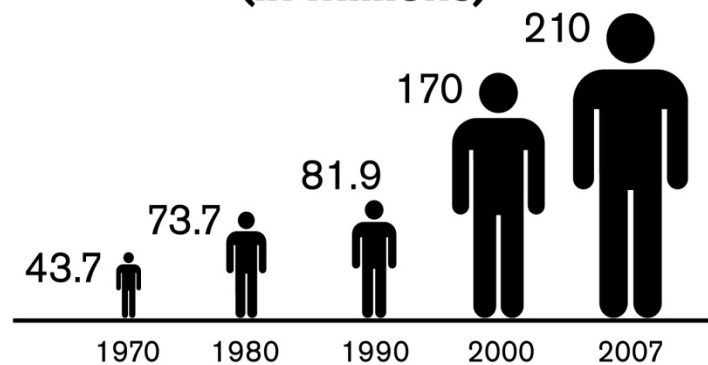
# Disaster Trends

Natural disasters reported 1900 - 2009



EM-DAT: The OFDA/CRED International Disaster Database - [www.emdat.be](http://www.emdat.be) - Universit  Catholique de Louvain, Brussels - Belgium

## People Affected by Climate-Related Disasters (in millions)



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# Increased Vulnerability

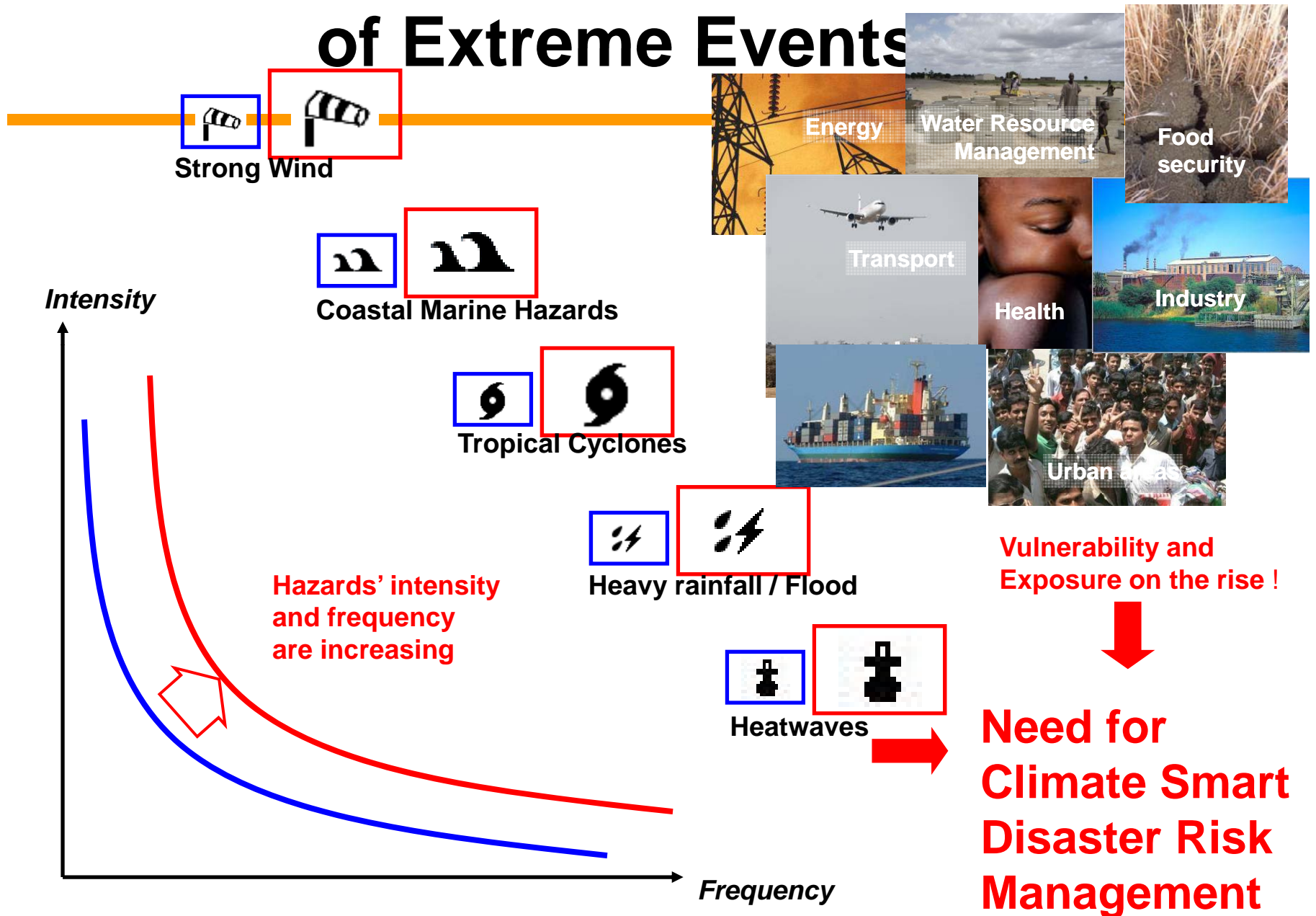
## Frequency and Scale of Disasters Increasing

### Global Trends

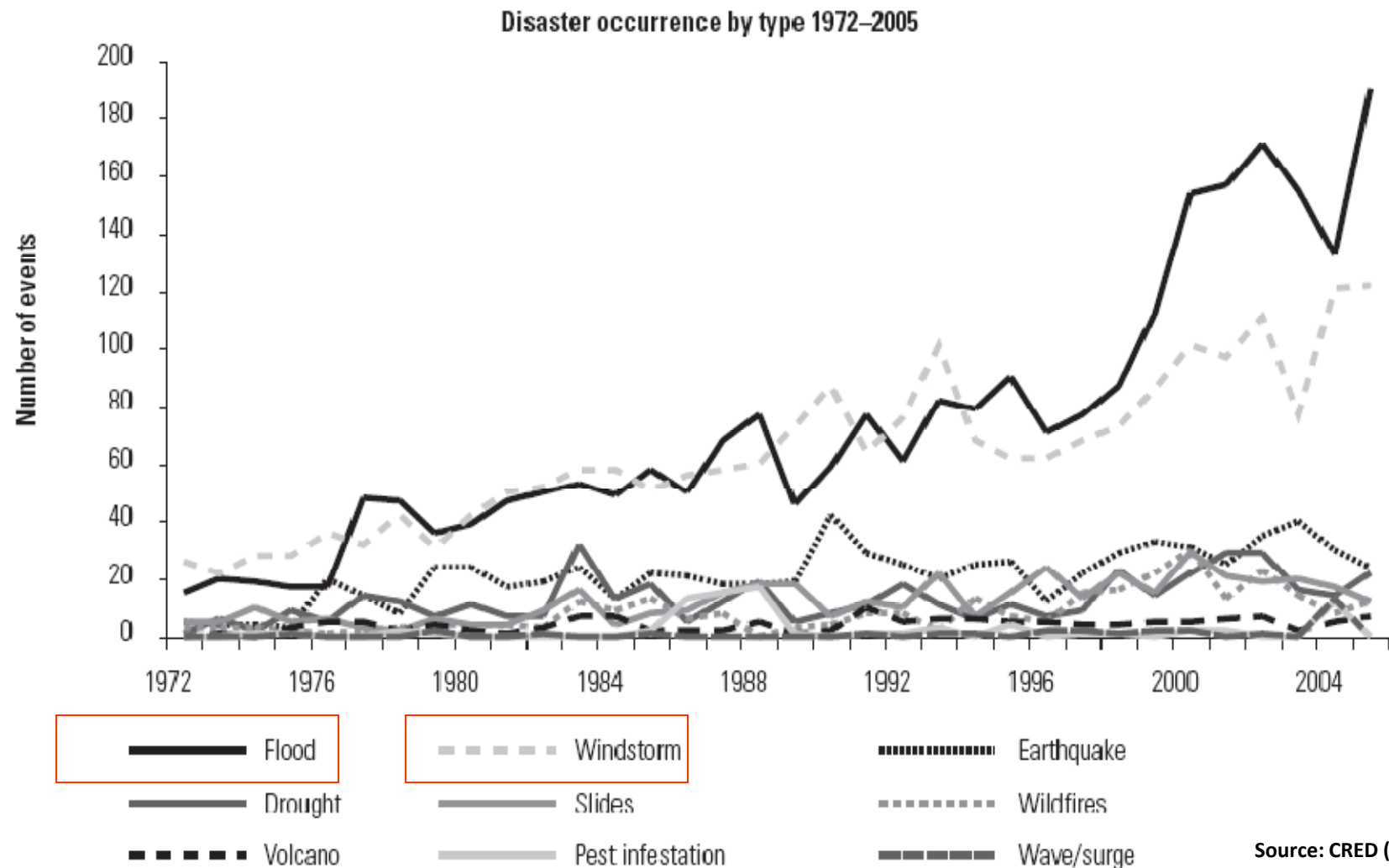
- **Population Growth**
- **Urbanization/Migration**
- **Displacement**
- **Conflict (primarily over resources)**
- **Climate Change**



# Climate Change Effects Occurrence of Extreme Events



# Early impacts of climate change are felt in least developed countries through increase in extreme climate events

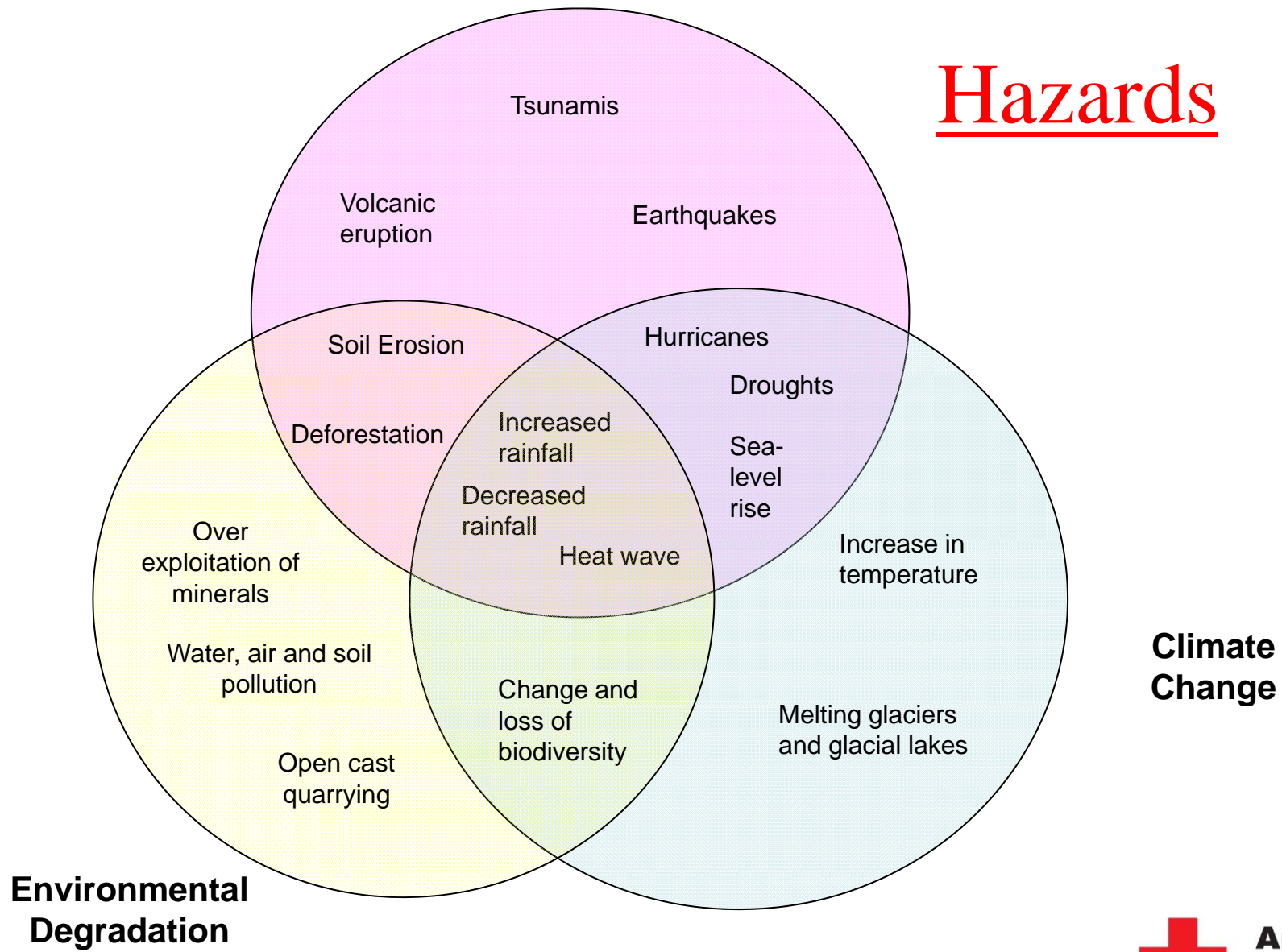


Source: CRED (2008)



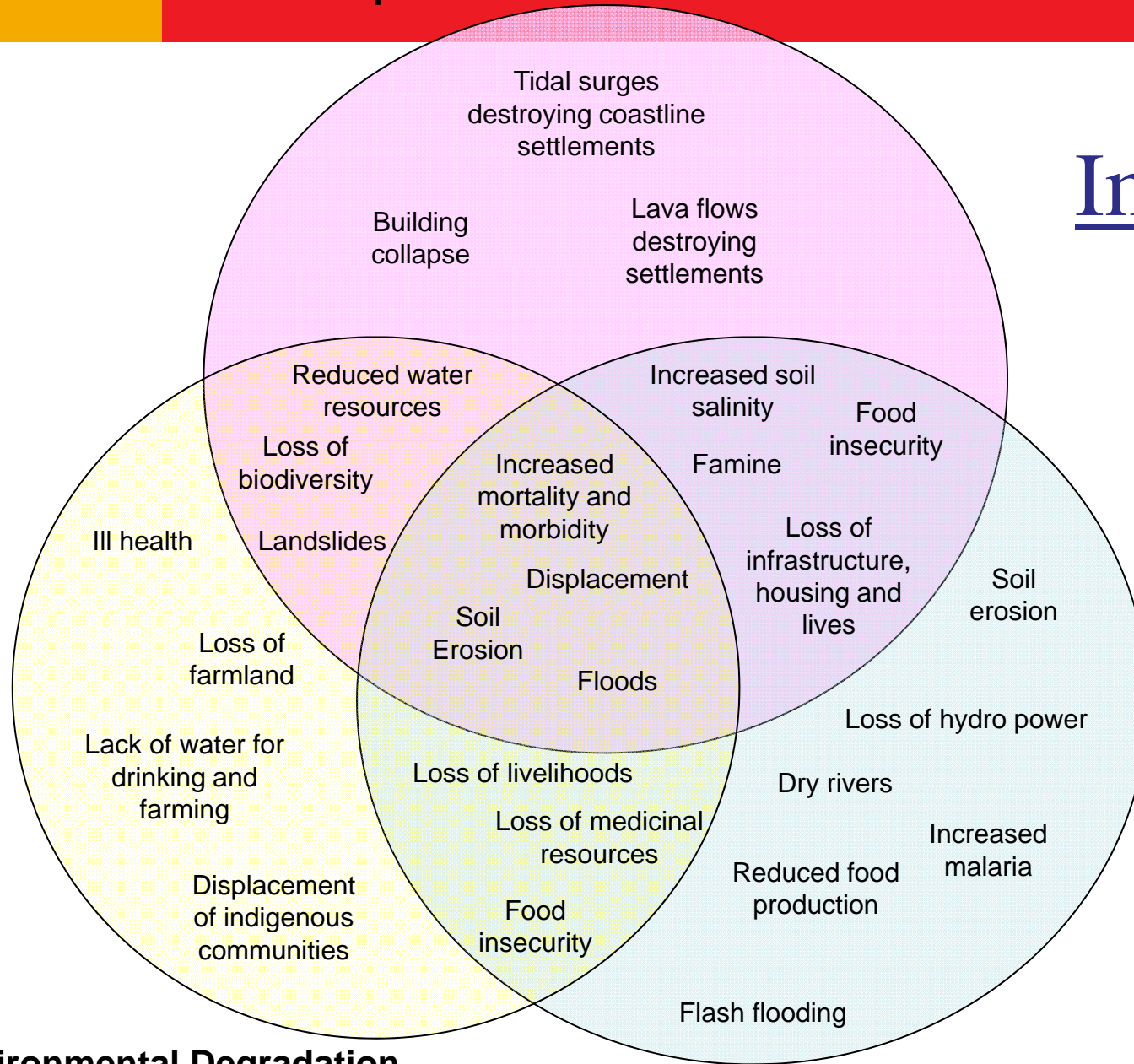
# Traditional hazards with potential for disaster

## Hazards



## Impacts of Traditional Hazards

## Impacts



**Climate  
Change  
Impacts**

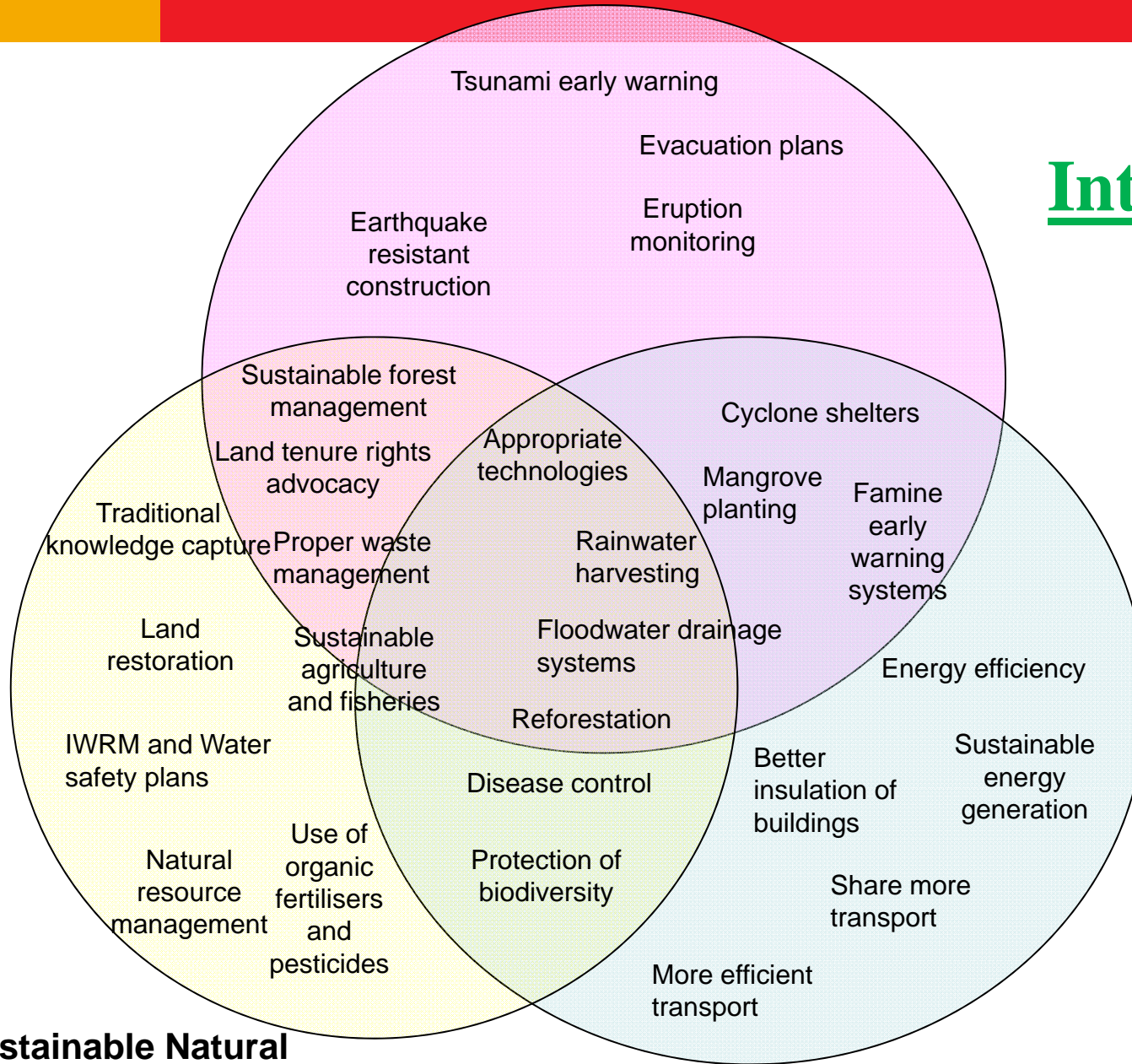
**Environmental Degradation  
Impacts**





## Disaster Risk Reduction

## Interventions



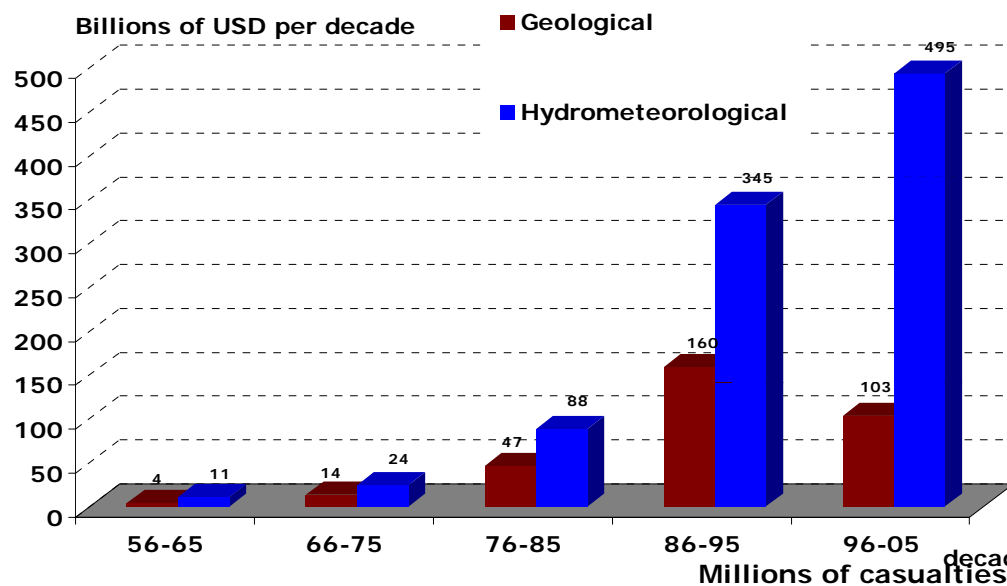
**Sustainable Natural  
Resource Management**



# Ganges Watershed

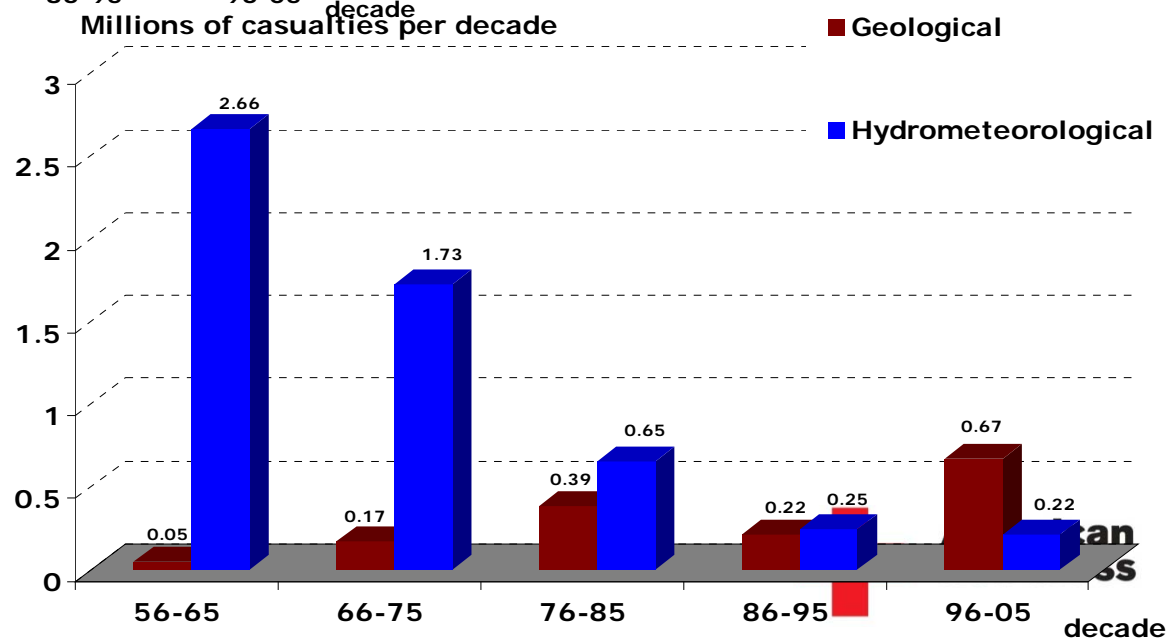


# Disaster Risk Reduction has Reduced Human Losses



Economic losses related to disasters are on the way up...

While casualties related to hydro-meteorological disasters are decreasing

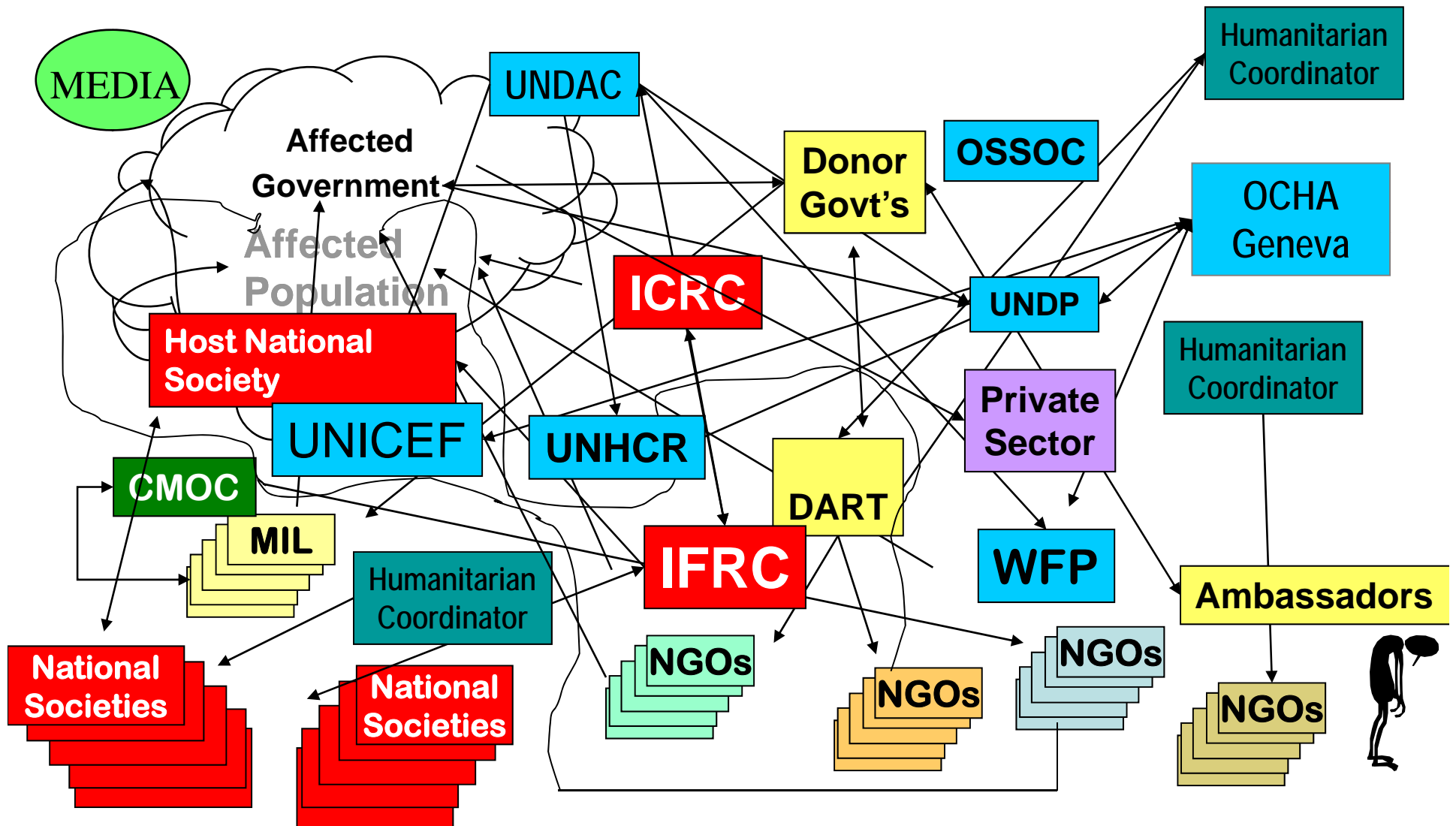


# Global Humanitarian Challenges

- Preparing/responding to the proliferation of small/medium localized events (floods) vs. Large/mega disasters (Tsunami, Haiti)
- Urban (peri-urban, slums, informal settlements) DRR/Response/Recovery
- Paradigm shift from Food/NFI distribution to Cash Transfer Program for effective and efficient rapid response
- Ineffective Coordination/Collaboration – working in sectors/silos



# *The International Disaster Response "Fog"*





thank you.

