



**IRDR**  
Integrated Research /

# Climate Change Impacts on disasters and Governance Implications for Disaster Risk Reduction

**Dr. Riyanti Djalante**

Chair of Integrated Research on Disaster Risk (IRDR)

December 2020

[Riyanti.djalante@gmail.com](mailto:Riyanti.djalante@gmail.com) / [djalante@unu.edu](mailto:djalante@unu.edu)

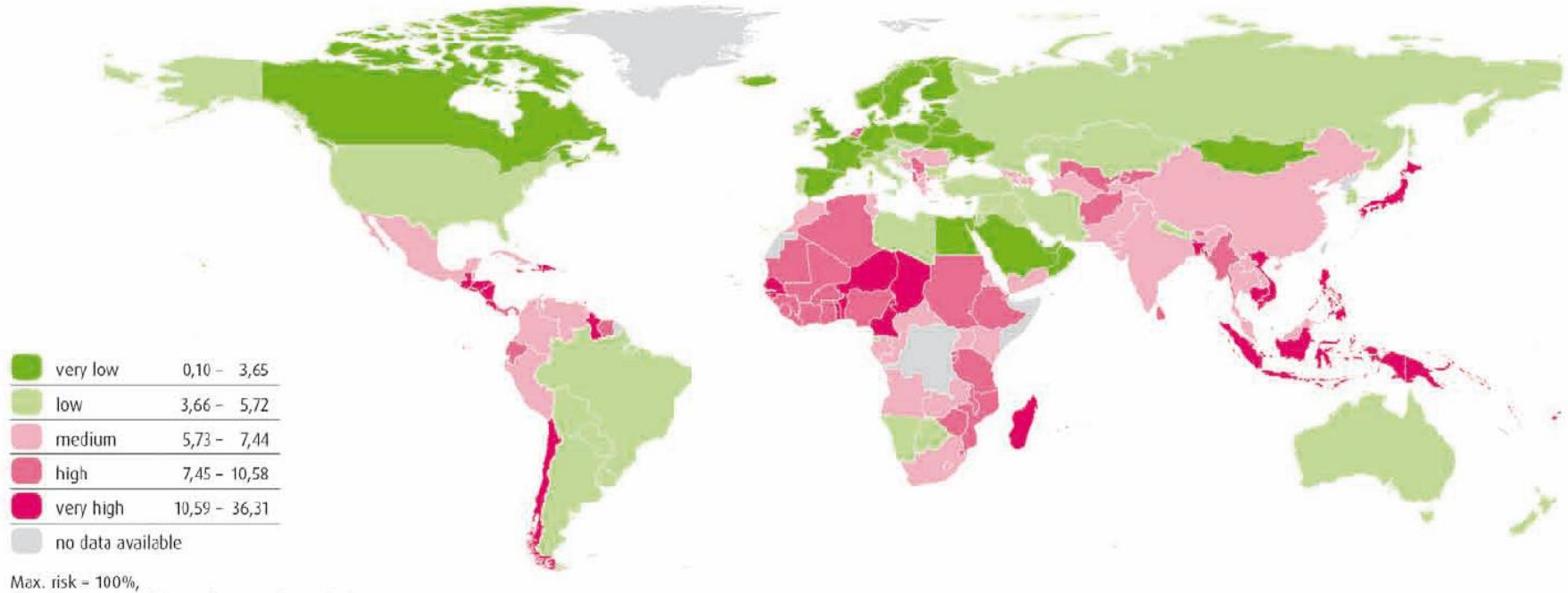
# Outline



1. Global impacts of disasters
2. International frameworks
3. Governing disaster risks

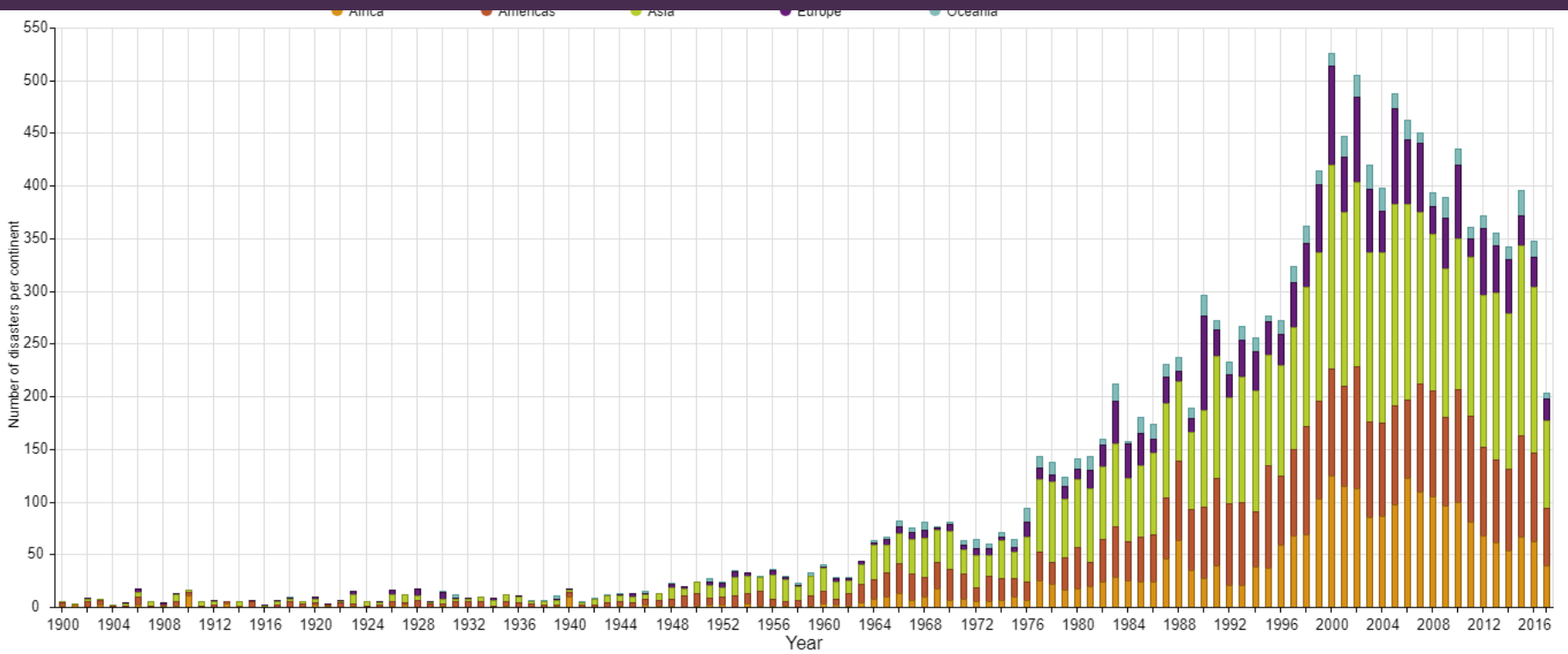
# WorldRiskIndex

WorldRiskIndex as the result of exposure and vulnerability



## Global Distribution of Disaster Risk

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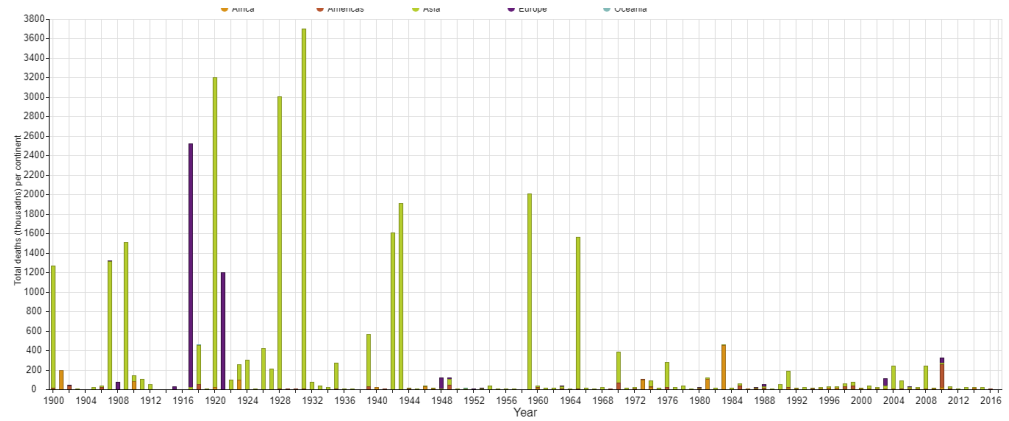


Source: EM-DAT: The Emergency Events Database - Université catholique de Louvain (UCL) - CRED, D. Guha-Sapir - [www.emdat.be](http://www.emdat.be), Brussels, Belgium

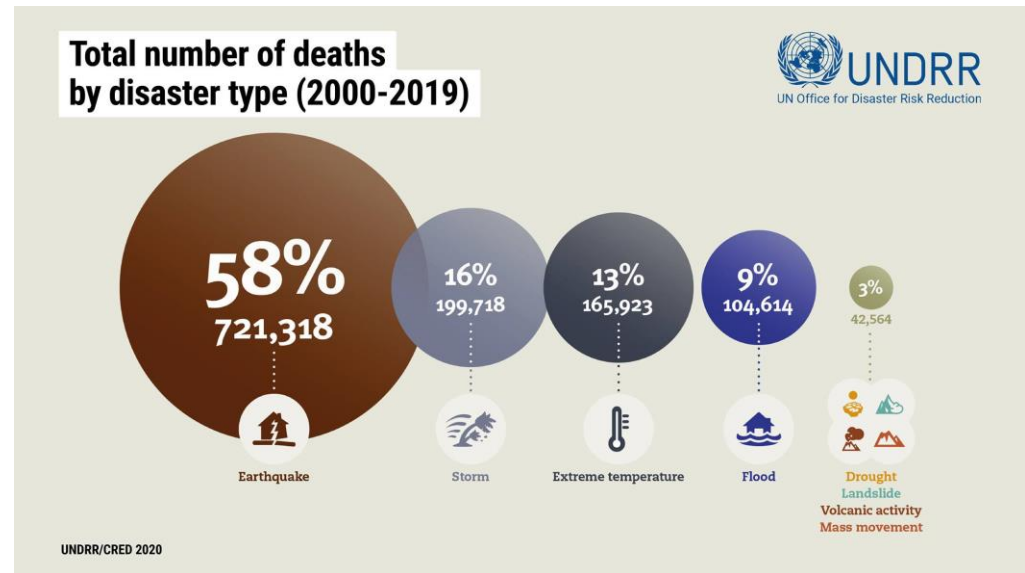
# Disaster impacts – No of disasters

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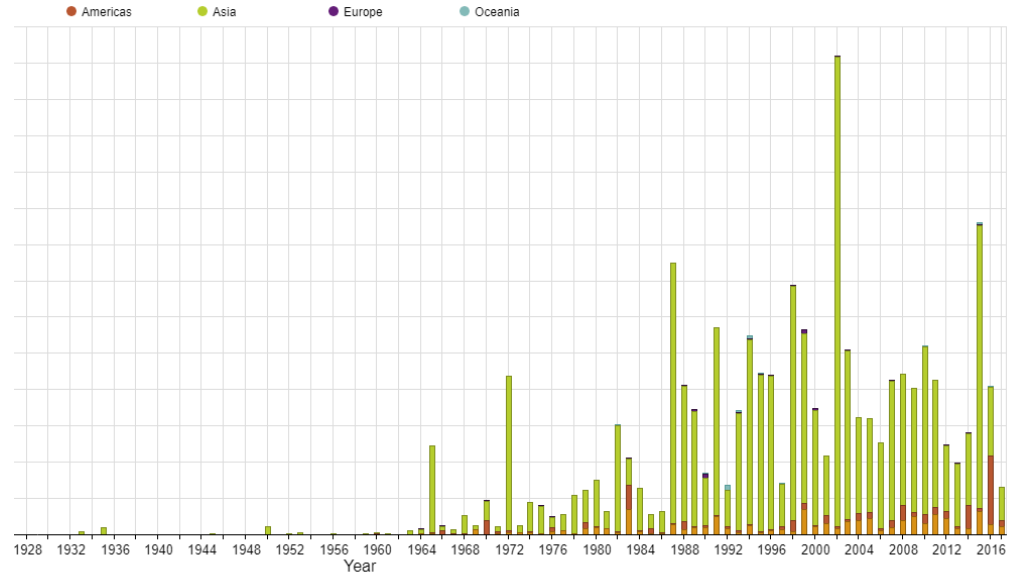
# Disaster impacts – Total deaths



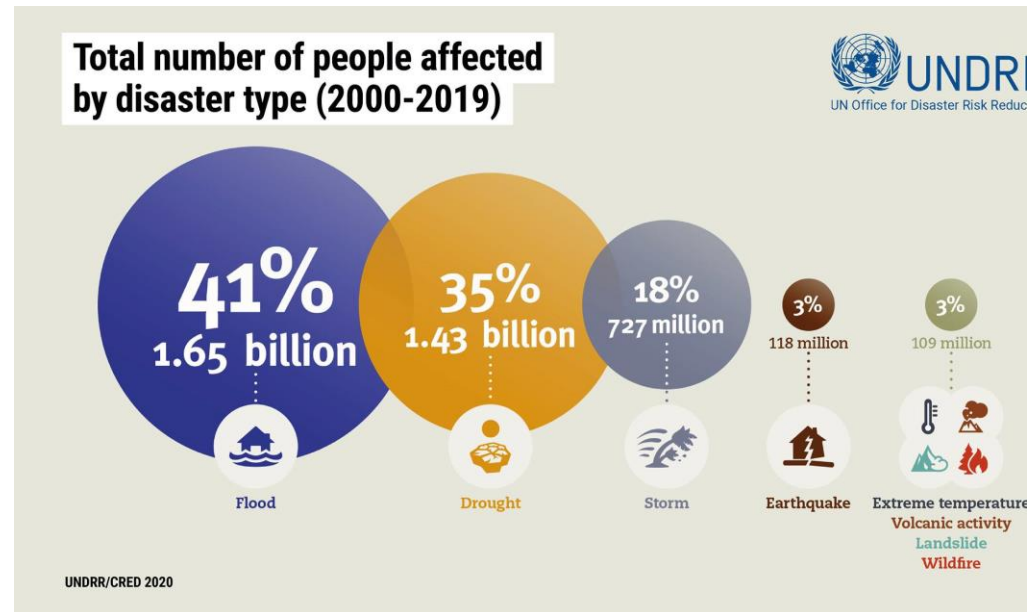
Source: EM-DAT: The Emergency Events Database - Université catholique de Louvain (UCL) - CRED, D. Guha-Sapri - www.emdat.be, Brussels, Belgium



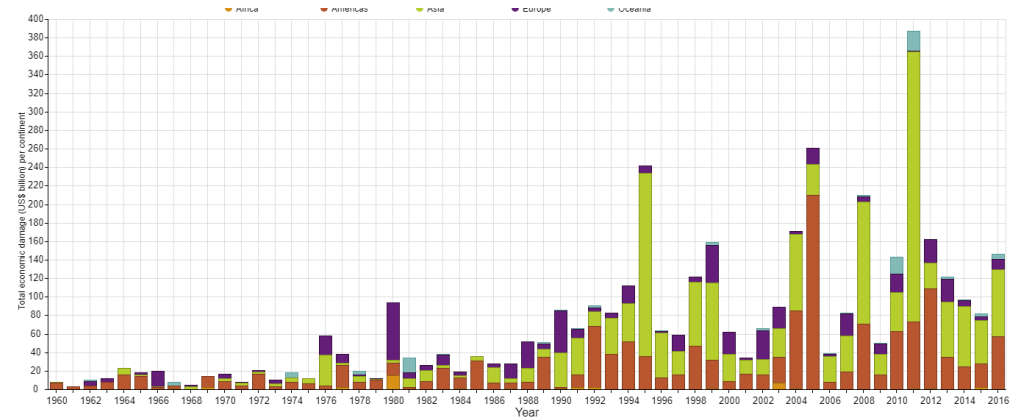
# Disaster impacts – Total affected persons



Université catholique de Louvain (UCL) - CRED, D. Guha-Sapir - www.emdat.be, Brussels, Belgium



# Disaster impacts – Total economic damage



Source: EM-DAT: The Emergency Events Database - Université catholique de Louvain (UCL) - CRED, D. Guha-Sapri - www.emdat.be, Brussels, Belgium

## Disaster impacts: 1980-1999 vs. 2000-2019



 Reported disasters  
 Total deaths  
 Total affected  
 US\$ Economic losses

1980-1999

4,212

1.19 million

3.25 billion

1.63 trillion

2000-2019

7,348

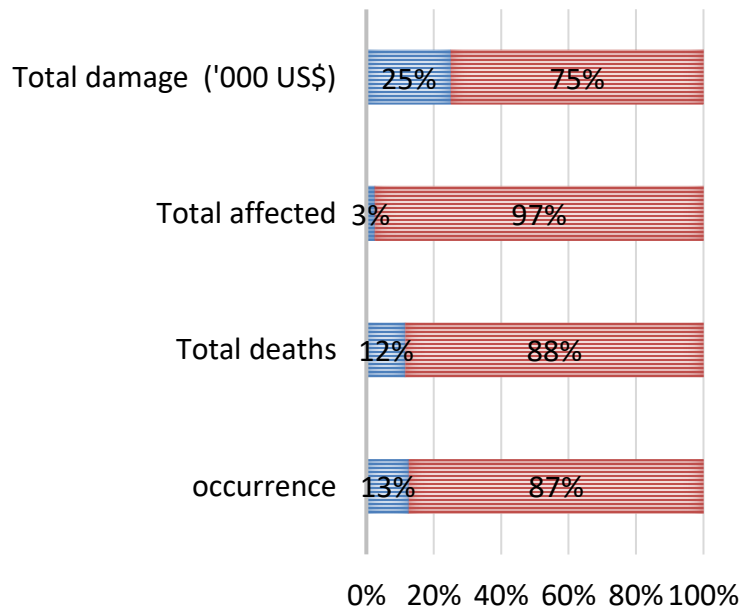
1.23 million

4.03 billion

2.97 trillion

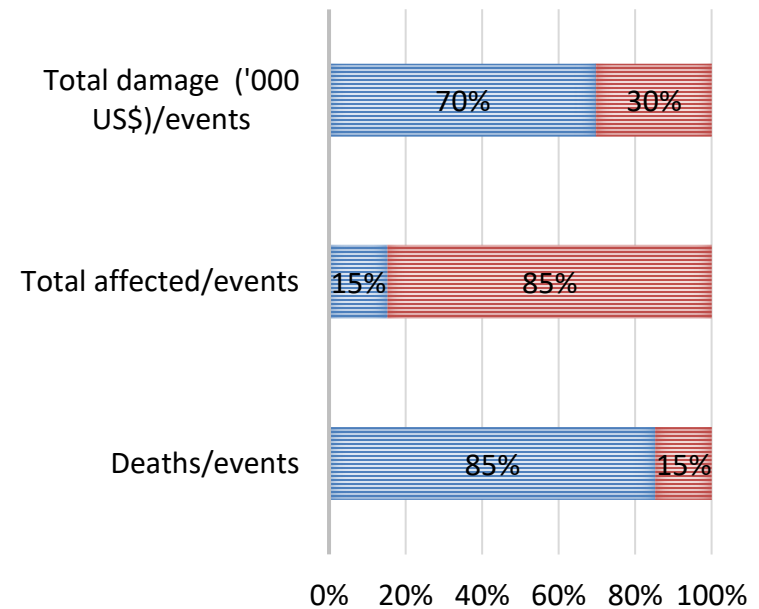
## DISASTER STATISTICS 1900-2020

- Geophysical
- climate-related disasters



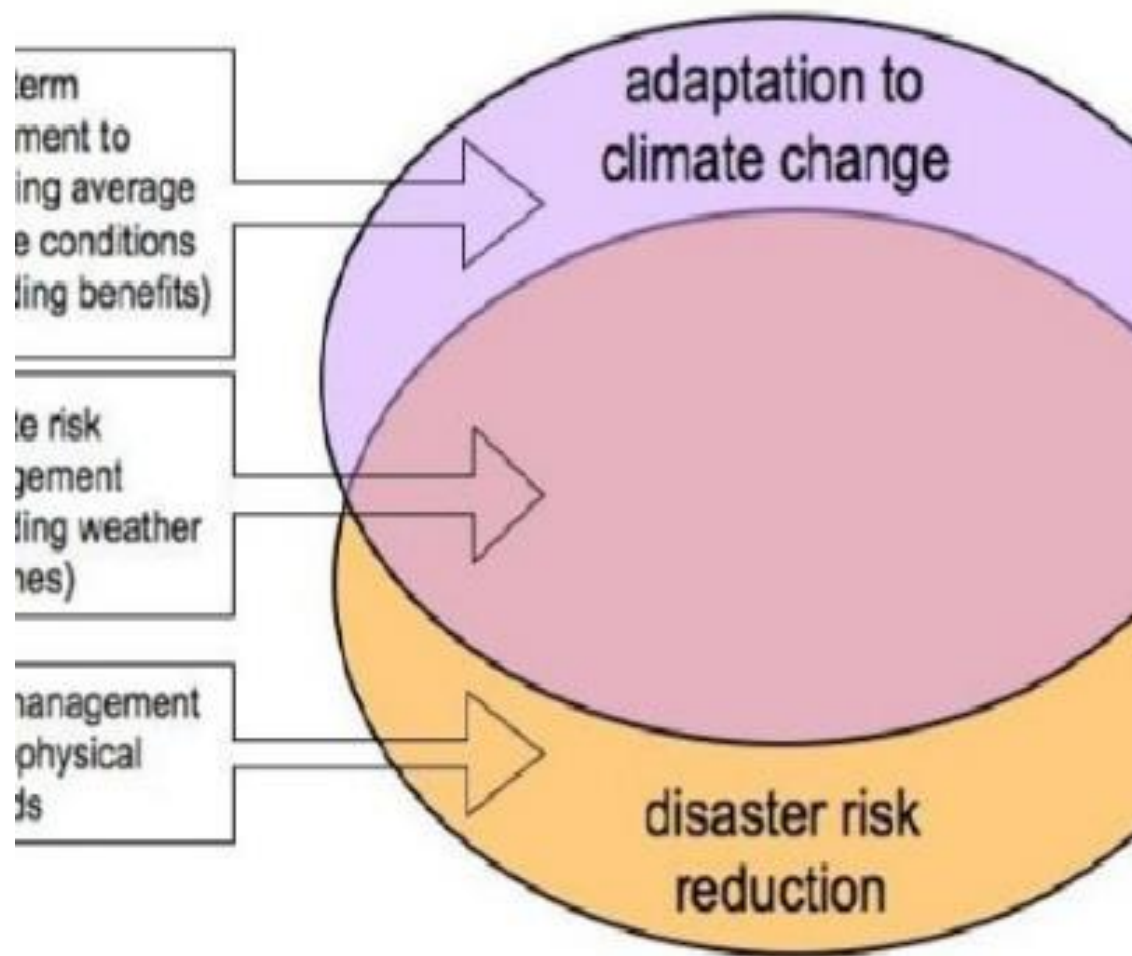
## INTENSITY (IMPACTS/EVENT)

- Geophysical
- climate-related disasters





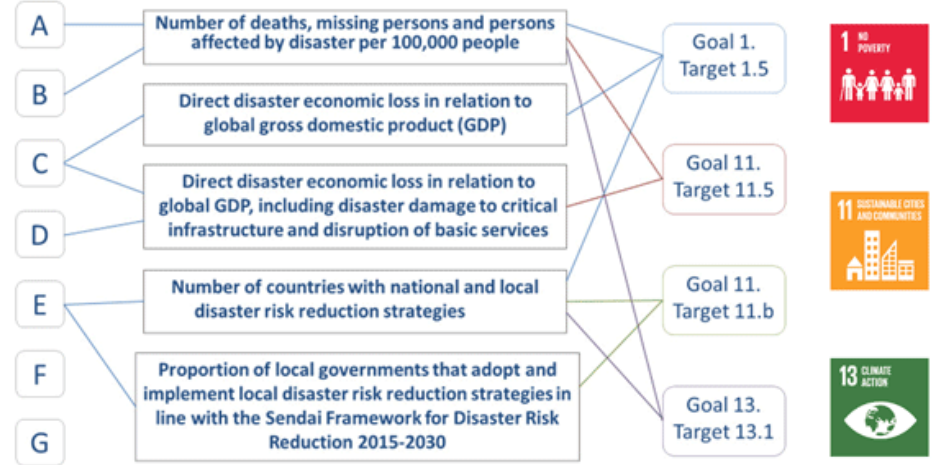
# Integrating DRR and CCA



THE SENDAI FRAMEWORK OUTLINES SEVEN GLOBAL TARGETS TO BE ACHIEVED BY 2030:



# The Sendai Framework for DRR 2015-2030



# Coherence between SDGs, SFDRR, Paris Agreement on Climate Change

