

Hazard mitigation and climate change adaptation: *an introduction.*

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ECCA Conference Session

**“Tapping Other Resources: Linking
Adaptation and Hazard Mitigation
Communities”**

Hamburg, March 18, 2013

room 11 15:15 – 17:00



Outline:

- Concept of Adaptation
- Disaster Risk and Climate Change
- The lesson learned from IPCC – SREX (2012)
- Disaster Risk Profile



The concept of Adaptation:

*process by which **strategies** to moderate, cope with and **take advantage** of the consequences of climatic events are **enhanced, developed, and implemented** (UNDP, 2005)¹*



*adjustment of natural or human systems to **actual** or **expected** climate change or its effects in order to **moderate harm** or **exploit** beneficial opportunities (IPCC AR4-WGII, 2007)*



*adaptation aims at **reducing** the risk and damage from **current and future** harmful impacts **cost-effectively** or **exploiting** potential benefits.
(EC Adaptation White Paper, 2009)*



1: UNDP - Adaptation Policy Frameworks for Climate Change. Developing Strategies, Policies and Measures. (2005)



disaster risk - climate change

- **Assessment of disaster risk:**

- *short-term natural hazards, assuming known hazards and present (fixed) vulnerability.*

- **Assessment of impacts of CC:**

- *long term effects (trends) global but with regional diversities.*
 - *multiple climatic hazards associated with large uncertainties.*

- **Disaster Risk:**

- *The likelihood over a specified time period of severe alterations in the normal functioning of a community or a society due to hazardous physical events interacting with vulnerable social conditions, leading to widespread adverse human, material, economic, or environmental effects that require immediate emergency response to satisfy critical human needs and that may require external support for recovery. (IPCC SREX, 2012)*
 - *expected losses [...] due to a particular hazard for a given area and reference period (UNDHA , 1993)*

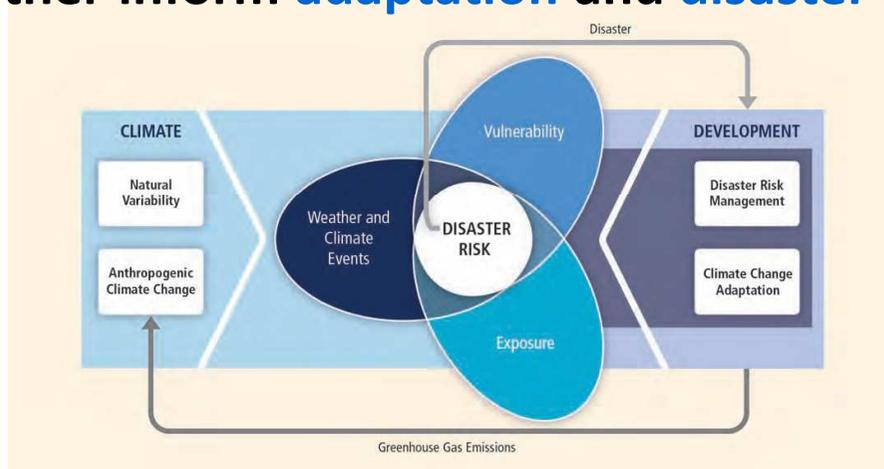
- **Vulnerability** in climate change community is sometimes used similar to **risk** in the *disaster risk community*.



IPCC SREX (2012)

Managing the risk of extreme events and disasters to advance CC adaptation

- Socioeconomic development interacts with natural climate variations and human-caused climate change to influence **disaster risk**.
- Increasing **vulnerability, exposure**, or severity and **frequency of climate events** increases **disaster risk**.
- **Disaster risk management** and **climate change adaptation** can influence the degree to which extreme events translate into impacts and disasters.
- **Information on vulnerability, exposure, and changing climate extremes** can together inform **adaptation** and **disaster risk management**.

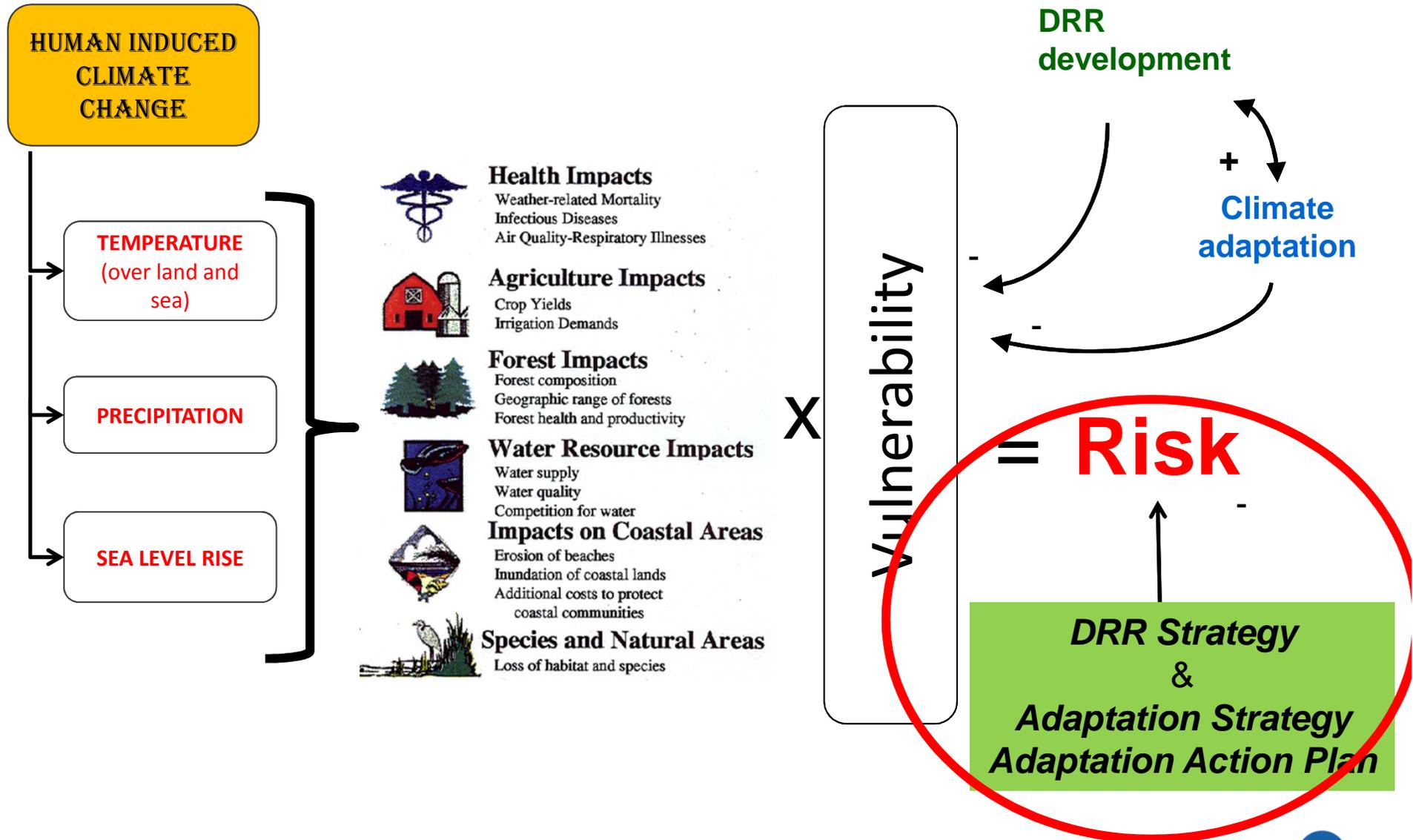


Source: IPCC-SREX (2012)

IPCC SREX (2012) - *the lesson learned*



Disaster risk profile: *DRR + Adaptation*



Thanks

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