

Climate Change, Displacement, Internal Mobility and International Migration

Rainer Münz, CEU

EMN Conference

Stockholm, May 11-12, 2023







Climate Change

Impact on human mobility

Leads more often to displacement that can be reversed

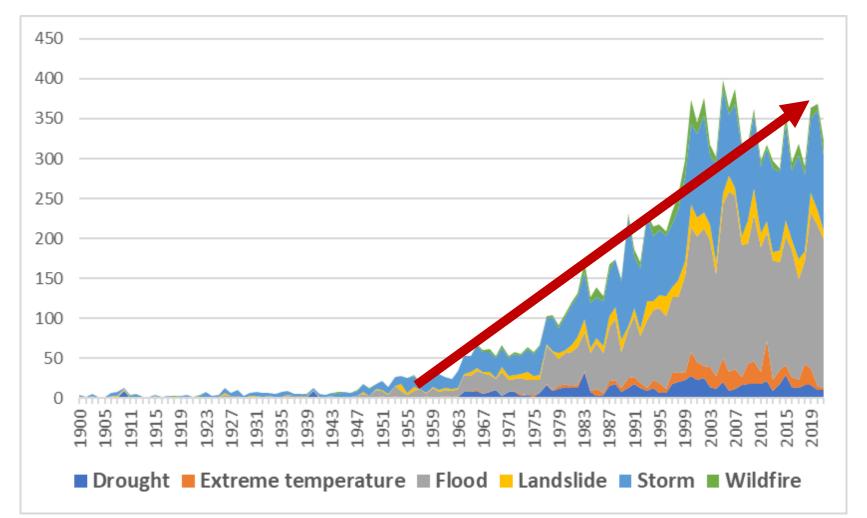
- Natural disasters
- Gradual changes

Leads more often to permanent change of residence

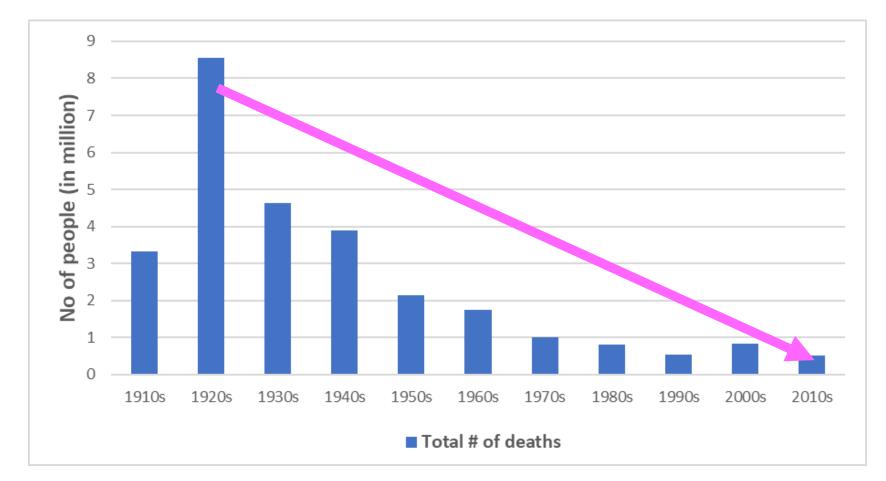
Degradation of subsistence base

Indirect effect: often perceived as negative economic change

Climate change: Disasters are becoming more frequent Reported natural disasters by type of disaster without geophysical disasters, Absolute numbers, 1900-2021

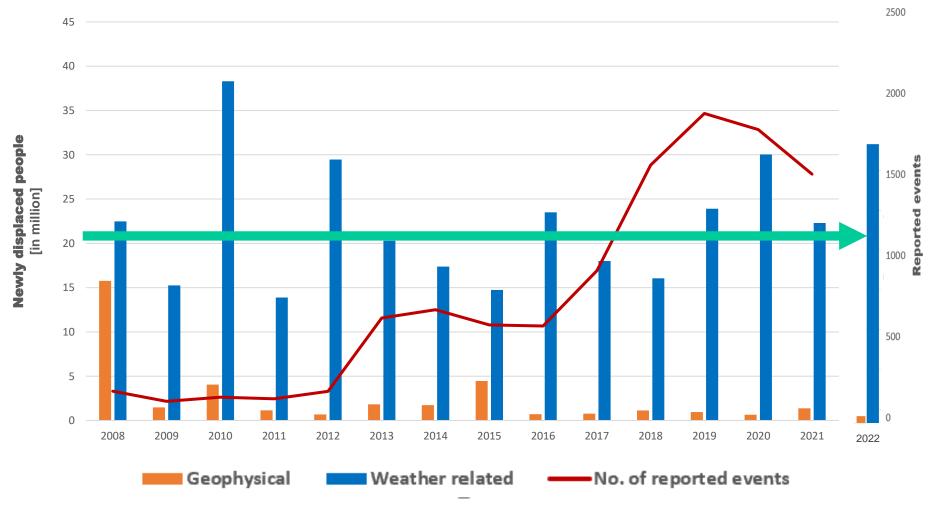


The good news: Much fewer people die during disasters Reported number of deaths caused by natural disasters Absolute numbers per decade, 1900-2021



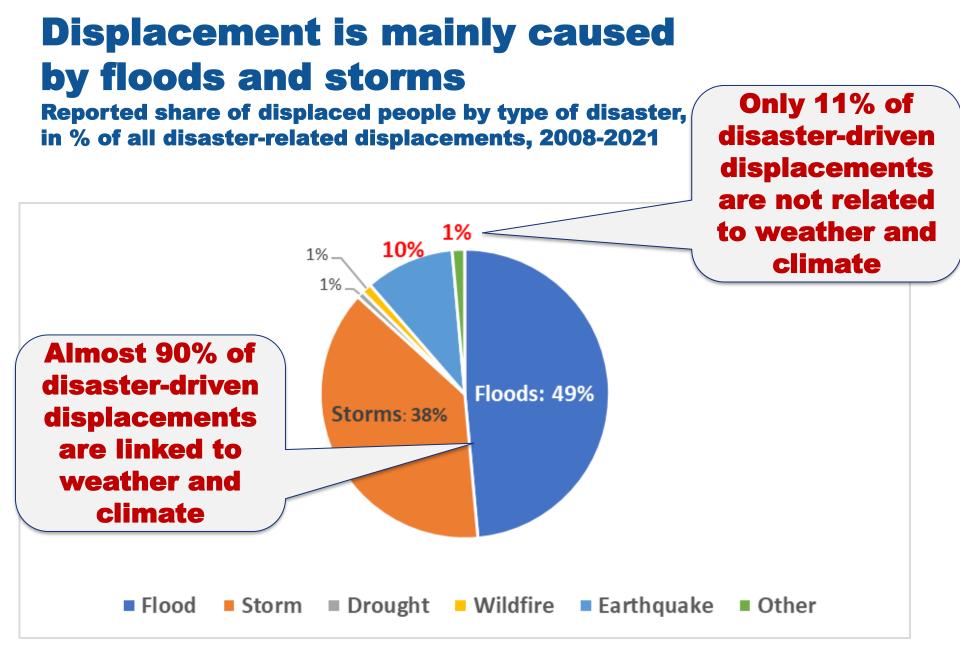
The bad news: Reported natural disasters displace large numbers of people 375 million since 2008

Absolute number of disaster-related displacements, 2008-2022



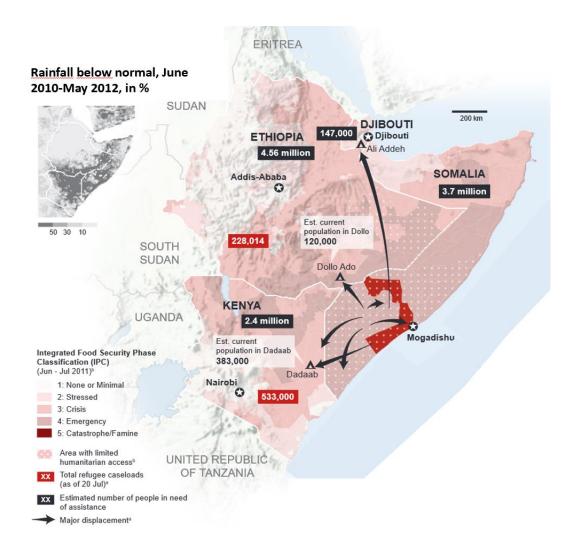
375 million

Between 2008 and 2021 about 342 million people have been displaced by natural disasters



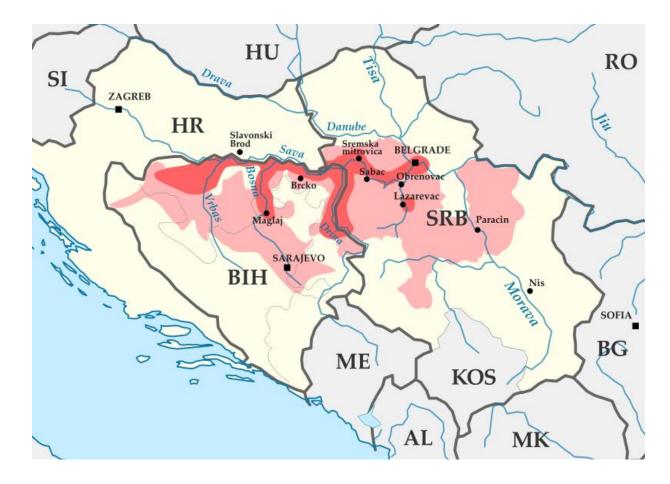
Displacement across international borders is rare

Drought-related displacement within and from Somalia, absolute numbers, 2010-2011



Displacement across international borders is rare

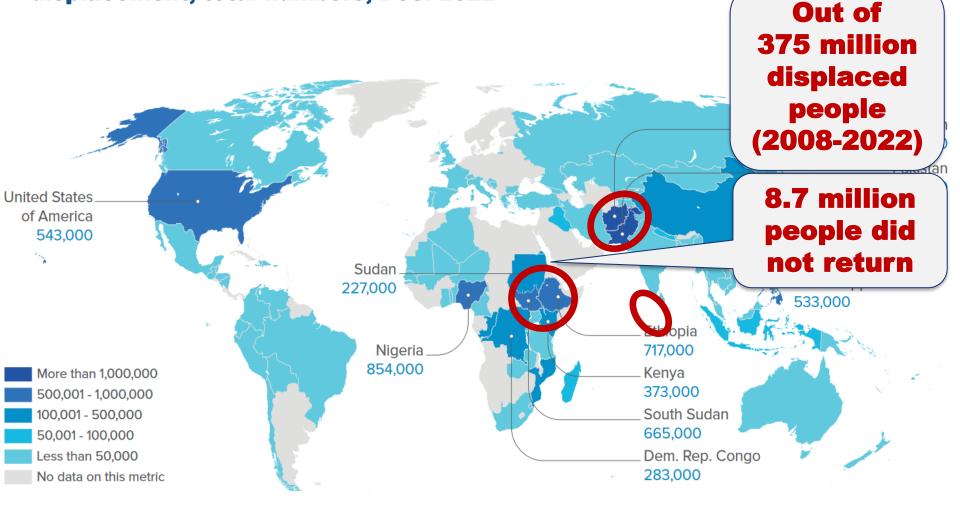
Flood-related displacement along the Sava and the Drina river, 2014



What happens to people displaced by natural disasters?

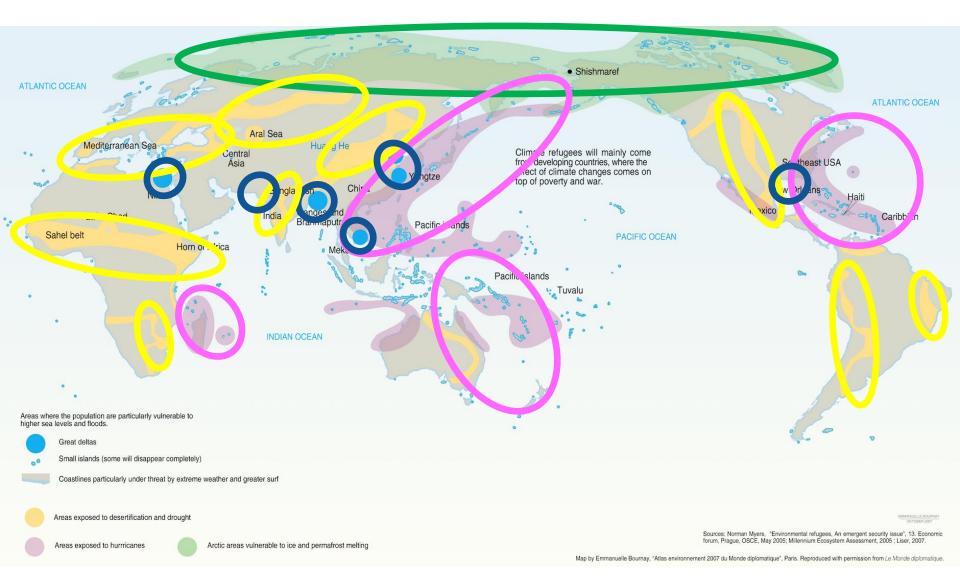
Most people displaced by natural disasters return to their place of origin

Internally Displaced Persons who have not returned after initial disaster displacement, total numbers, Dec. 2022



Gradual change of habitat and mobility

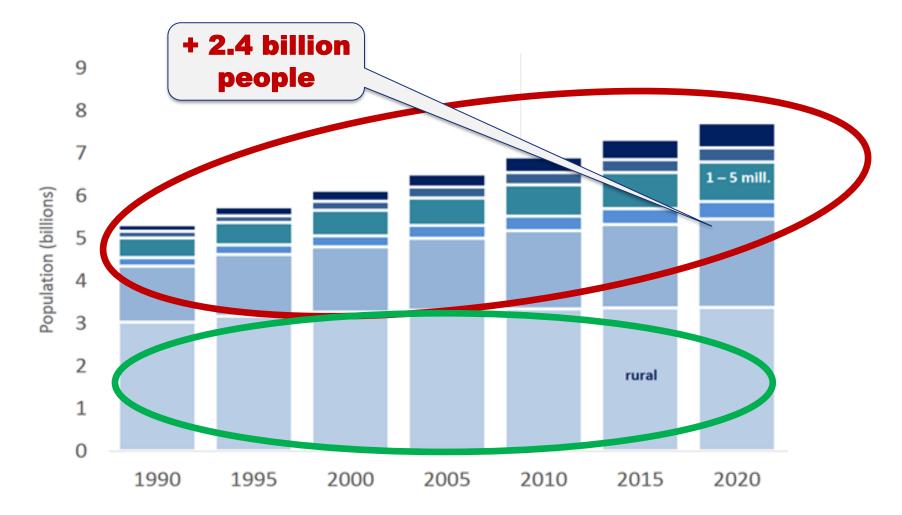
Regions negatively affected by future climate change



Source: Le Monde Diplomatique

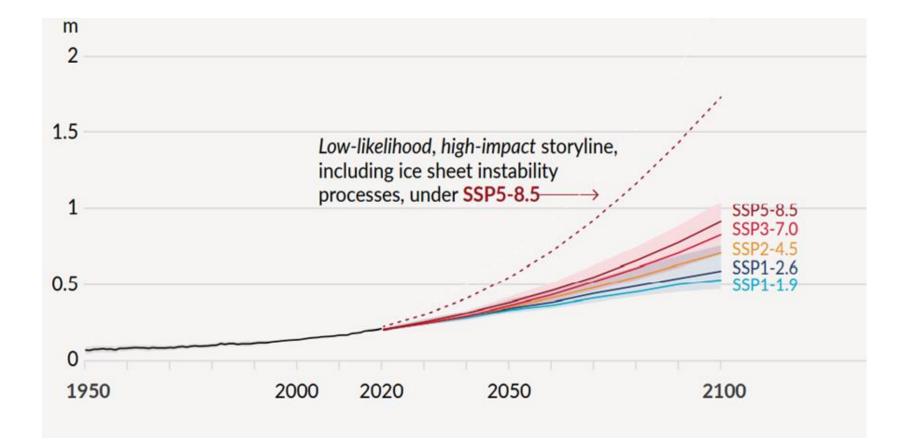
Growth of urban population: Main indicator of slow onset climate change impacting mobility

Global population by type of settlement, 1990-2020



High uncertainty about the future

Rising sea levels: 6 scenarios



People living below 5 meters above sea level: 327 million

And the risk of displacement 2008-2021



Upper middle income countries: 116 million

Lower middle income countries: 122 million

Low income countries: 27 million^{*}

63%

68%

Climate change does not automatically lead to loss of livelihoods and displacement

What to do?

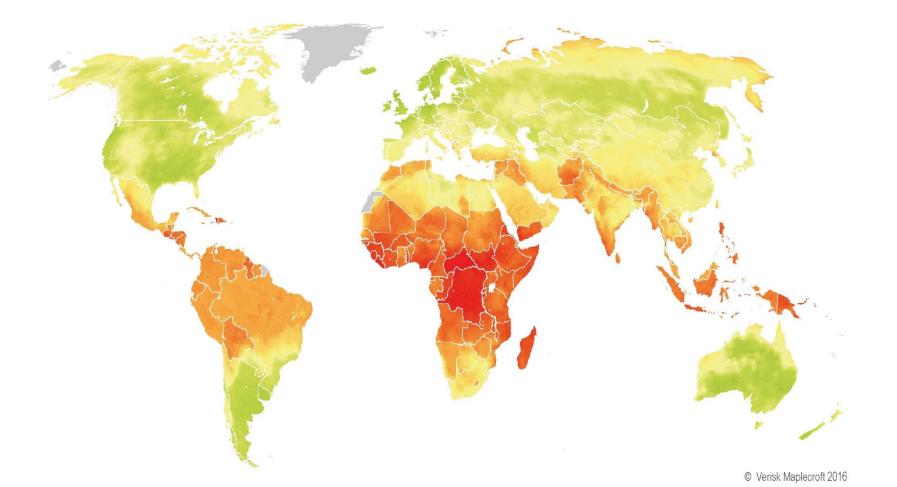
(1) Getting better prepared: Humanitarian intervention and disaster relief

(2) Prevention: Less greenhouse gas emissions
(3) Preparation: Permanent resettlement (4)
Adaption: Changing the subsistence base of people living in areas affected by slow onset degradation
(5) Mitigation: for example, building dams and developing tidal management
(6) Using insurance and capital market instruments

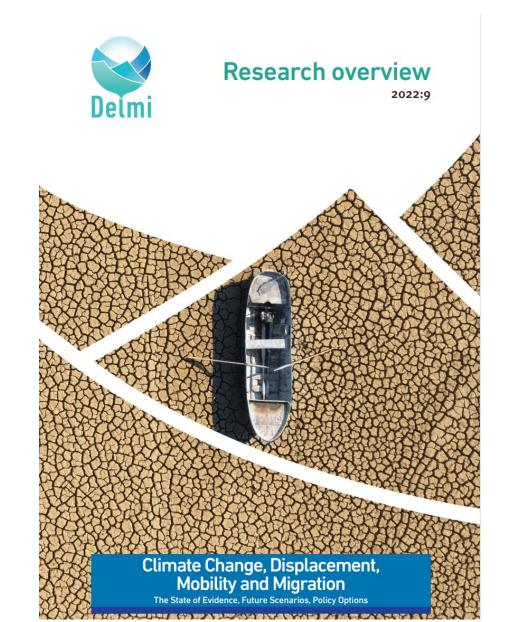
(7) Overall: Enhancing resilience

Enhancing resilience

Negative exposure to climate change and assumed (in)ability to cope



Get the full story from the Delmi report prepared by Mathias Czaika and Rainer Muenz









Thank you for your attention

rainer.muenz54@gmail.com