

Consensus priorities on allocating forecast-based funding of humanitarian and disaster aid for climate change adaptation: A Delphi study

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^{*} The information and views set out in this presentation are those of the author and do not necessarily reflect the official opinion of the European Commission.



KEY FIGURES











*** 146 K People reached

A multi-thematic rapid needs assessment showed that health, including Mental and Psychological Support (MHPSS), WASH and access to safe drinking water, and shelter are the main priorities of affected communities. There are heightened protection risks for people affected. in particular for unaccompanied and separated children, newly widowed women, those displaced, and those who lost homes, livelihoods or their civil documentation. As the emergency response continues, recovery and reconstruction have already started.



AFFECTED INFRASTRUTURE



schools damaged, destroyed, or inaccessible (these are twenty-six percent of municipalities)



health facilities partly or

(sixty-three percent of the health facilities assessed to date, while eighty five percent are assessed and fifteen percent not yet)



RESPONSE



people received hygiene items



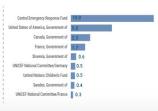


Funded

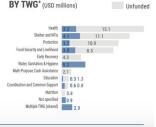
FUNDING OVERVIEW



LARGEST SOURCES OF COORDINATED PLAN (USD millions)



FUNDING PROGRESS BY TWG* (USD millions)



Storm Daniel





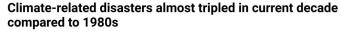


Problem in a nutshell

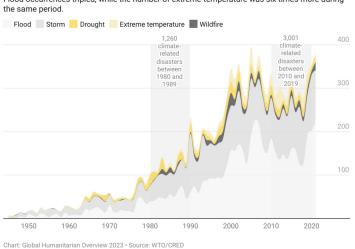
Climate-related disasters rising and likely to rise

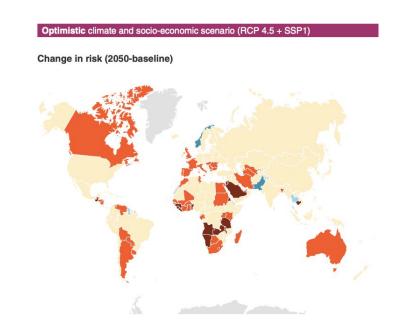
Vastly different situations projected around the world

How to allocate unearmarked global envelope equitably?



Flood occurrences tripled, while the number of extreme-temperature was six times more during









Research design - Delphi and funding simulation

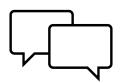
- The literature
 - Better to ask than to assume. (Rising et al., 2022, Lentz & Maxwell, 2022)
 - Weaknesses in damage estimation are a key research area. (IPCC WG2, 2022)
 - Decision maker can be a flawed human with limited cognitive capacity. (Thaler, 1980)
- 2-round Delphi method with funding priority simulation on a 4-point scale
 - Q1: What are the priority *criteria* in allocating humanitarian or disaster aid funding per future forecasts in view of climate change response or adaptation?
 - Q2: What are the priority *options* for which to allocate humanitarian or disaster aid funding regarding adaptation to representative key risks of climate change?
- Global frameworks, INFORM suite (Q1) and IPCC RKRs (Q2), as a baseline
- Panel (N=36) composition
 - 50/50 gender, 19 countries, IOs (e.g., UN, EU, World Bank, Red Cross Red Crescent), the research sector, the public sector, and civil society (e.g., Save the Children, World Vision). Preference on near-future forecasting, primarily month(s) forward and up to year(s).



Results - Summary of panel priority preferences

Q1: Criteria in allocating humanitarian or disaster Q2: 0 ptions for which to allocate humanitarian or aid funding per future forecasts in view of dimate disaster aid funding regarding adaptation to Priority change response or adaptation representative key risks of dimate change PEOPLE IN NEED (PIN) PER SEVERITY LEVEL OF THEIR HUMANITARIAN CONDITIONS RISK TO FOOD SECURITY HIGH (INCL. AFFECTED AND DISPLACED) **RISK TO HUMAN HEALTH PRIORITY** RISK OF HAZARD AND EXPOSURE TO **RISK TO WATER SECURITY** High priority is DISASTERS much more relevant than CAPACITY OF LOCAL ACTORS AND ON-GOING **SOMEWHAT** somewhat low PROGRAMMING TO RESPOND/ADAPT HIGH RISKS TO PEACE AND TO HUMAN MOBILITY priority during INDICATORS ON VULNERABLE GROUPS OR **PRIORITY** real-life funding **DIVERSITY OF GROUPS AFFECTED** allocation **RISK TO LIVING STANDARDS** processes. **HUMANITARIAN ACCESS INDICATORS** RISKS ASSOCIATED WITH CRITICAL PHYSICAL (in between) LACK OF INFRASTRUCTURAL COPING INFRASTRUCTURE, NETWORKS AND CAPACITY **SERVICES** RULE OF LAW INDICATORS AND LACK OF **RISK TO LOW-LYING COASTAL SOMEWHAT** INSTITUTIONAL COPING CAPACITY SOCIOECOLOGICAL SYSTEMS LOW SOCIAL COHESION INDICATORS AND SOCIO-RISK TO TERRESTRIAL AND OCEAN **PRIORITY ECONOMIC VULNERABILITY ECOSYSTEMS**

Discussion



- Even a small Delphi size is reliable if they have a similar experience level.
 - Strong consensus based on parametric measures (e.g., SDs < 1)
 - The next phase will be to augment the results with stochastic measures
- Suggests that the results are an emergent preference (covariant)?
 - The diverse panel answered similarly in front of an ensemble of composite criteria or complexly interlinked risks that often overlap.
- Results had nuances
 - Q1: Preference for the crisis'/disaster's severity of magnitude and risk, but also, there is a complex interplay between vulnerability, context, practical issues, and resilience.
 - Q2: Timewise priority on cascading risks so panellists focused on the most pressing ones (e.g., food security is pertinent now, but what if the socioecological system falls?).



Thank you!

- Contact if in need of working paper
 "Decision-making preferences on funding humanitarian aid and disaster management under climate change"
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