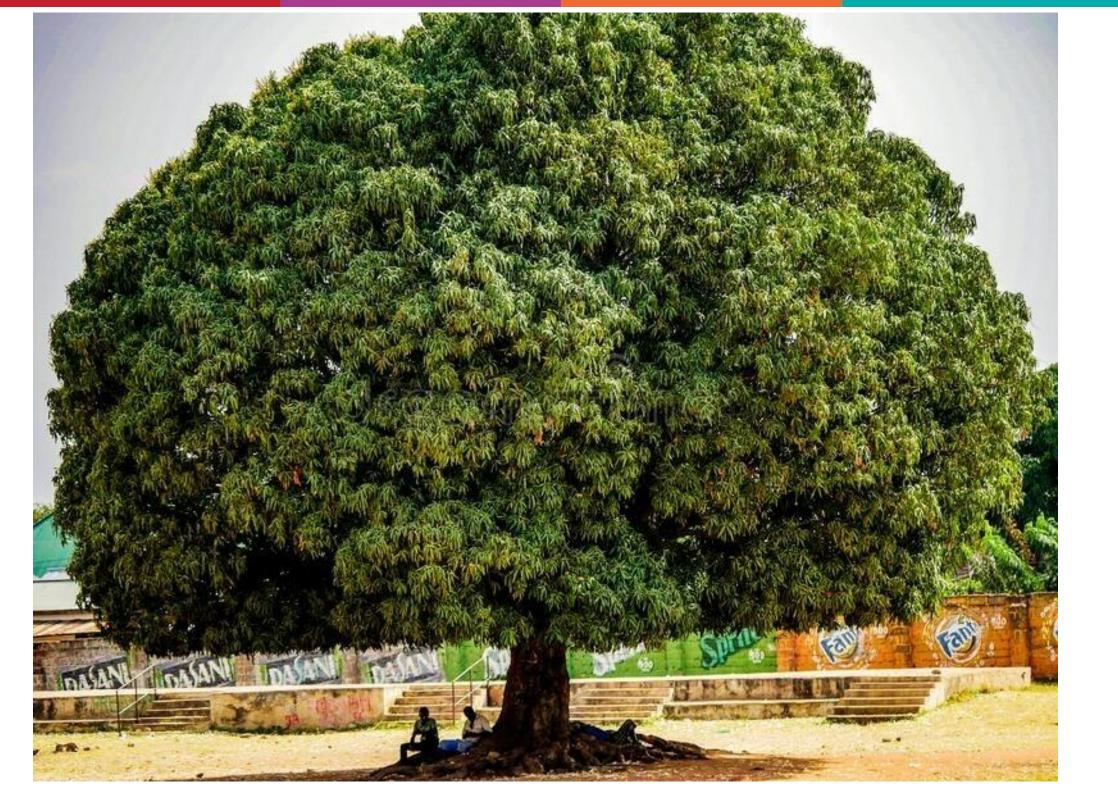
Risk Knowledge for EW4ALL (and a bit more!)







Early Warning System

Early Warnings



Disaster risk knowledge

Systematically collect data and undertake risk assessments

- Are the hazards and the vulnerabilities well known by the communities?
- What are the patterns and trends in these factors?
- Are risk maps and data widely available?



Detection, observations, monitoring, analysis and forecasting of hazards

Develop hazard monitoring and early warning services

- Are the right parameters being monitored?
- Is there a sound scientific basis for making forecasts?
- Can accurate and timely warnings be generated?



Preparedness and response capabilities

Build national and community response capabilities

- Are response plans up to date and tested?
- Are local capacities and knowledge made use of?
- Are people preapred and ready to react to warnings?

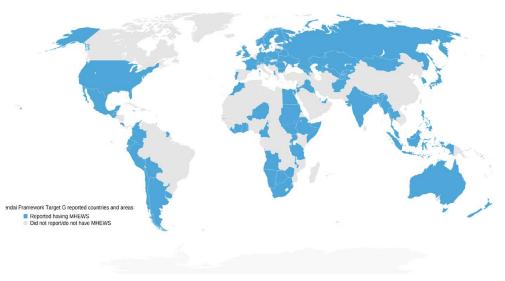


Warning dissemination and communication

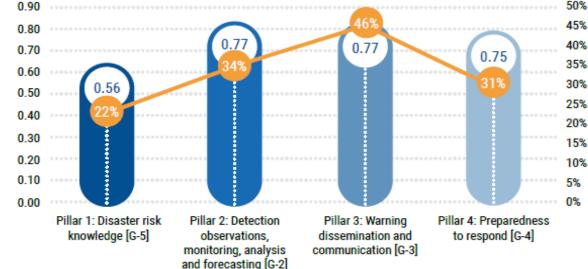
Communicate risk information and early warnings

- · Do warnings reach all of those at risk?
- Are the risks and warnings understood?
- Is the warning information clear and usable?

101 countries reporting to have early warning systems



Countries reporting by MHEWS elements



91% of the world's population now lives in a country that is implementing Common Alerting Protocol

95% of world's

population with access to a mobile broadband network

Over 0.25 billion

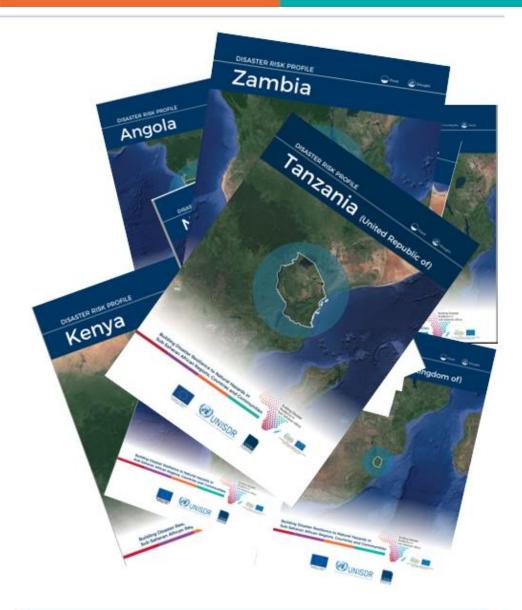
evacuated each year before a disaster strikes between 2015-2021



Multi-Hazard Risk Profiles

Scientific Modelling for Probabilistic Risk Assessment

Bring Risk Information closer to Decision Makers and practitioners



www.riskprofileundrr.org

UNDRR - CIMA Research Foundation as part of the Programme: Building Disaster Resilience to Natural Hazards in Sub-Saharan African Regions, Countries and Communities.



Impacts: population and direct economic losses

- Affected people
- Agriculture (main national crops)
- Productive asset:
 - Energy and industrial
 - Service (commercial)
- Housing
- Critical infrastrucure:
 - <u>Health</u>
 - Education
 - Transportation (road and railways)

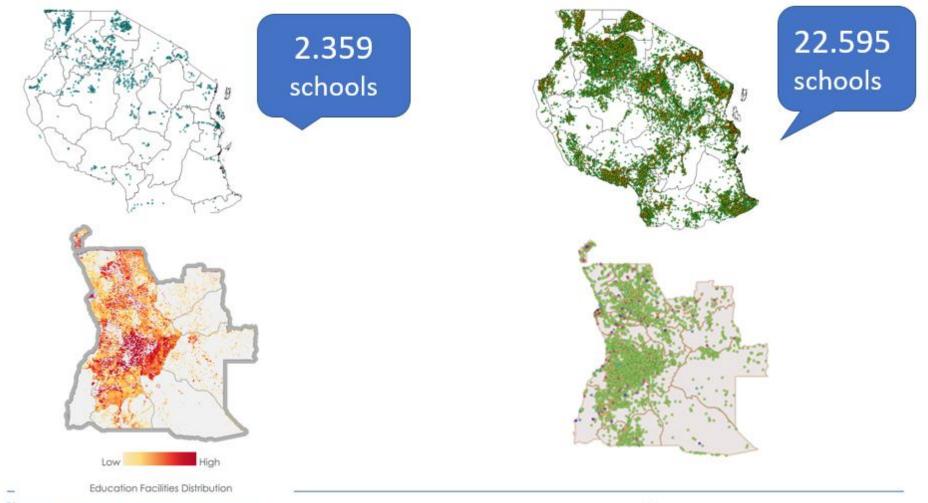
UNDRR - CIMA Research Foundation as part of the Programme: Building Disaster Resilience to Natural Hazards in Sub-Saharan African Regions, Countries and Communities.



The Importance of National Data

Global Dataset

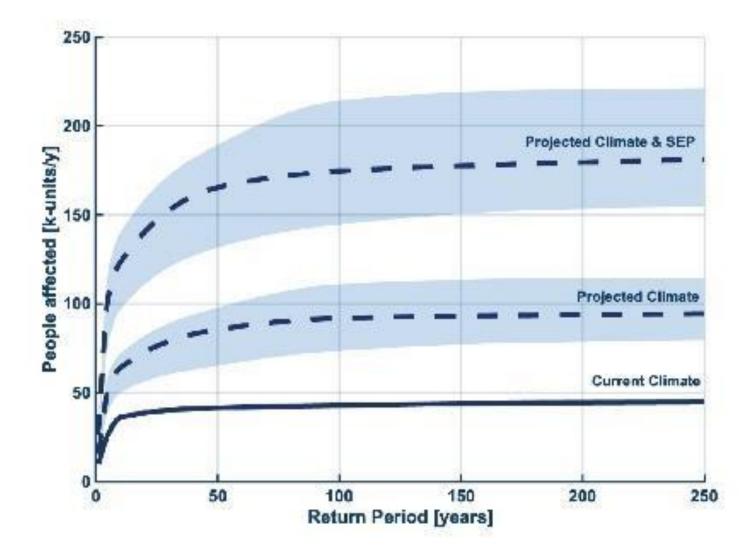
National Dataset



UNDER - CIMA Research Foundation as part of the Programme: Building Disaster Resilience to Natural Hazards in Sub-Saharan African Regions, Countries and Communities.



The (often) oversimplified complexity of Risks



Strengthening the Use of Risk Information for Early Warning











The Handbook structure



warning-systems-2024

AMHEWAS

Africa Multi-Hazard Early Warning and Action System for Disaster Risk Reduction

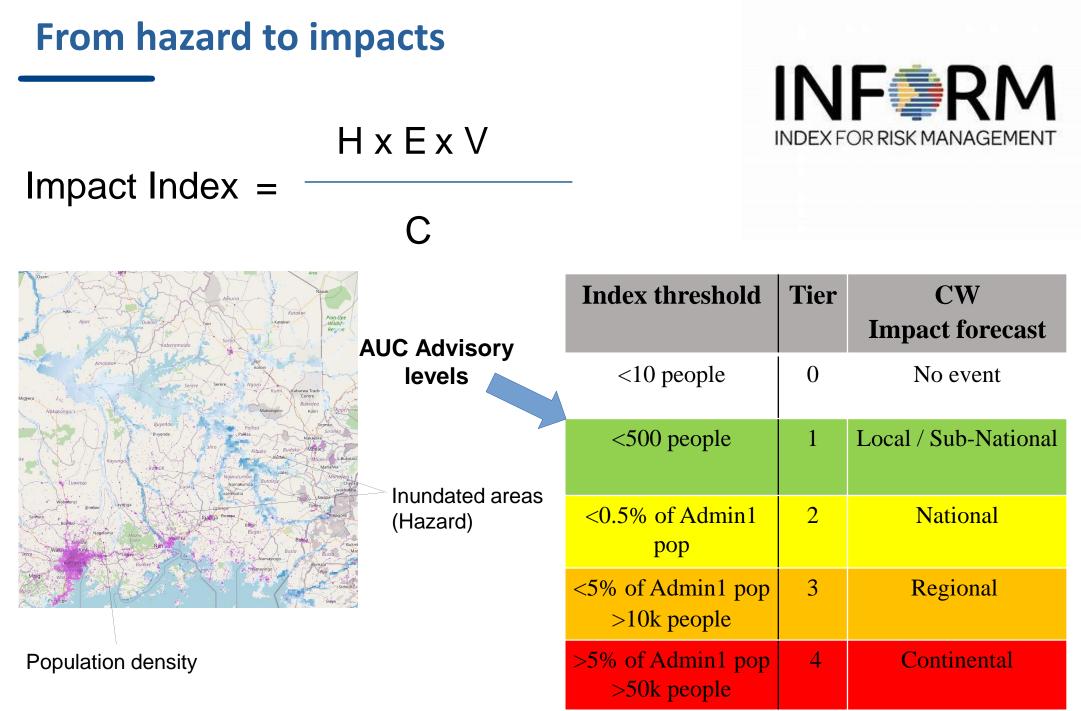


Continental Watch and Disaster Situation Report

- Floods
- Extreme
 Precipitations
- Windstorms
- Droughts

Forest FiresFlash Floods





Mapping Risk Information for EW in Kenya



https://docs.google.com/spreadsheets/d/1HSiiQYoum_0xB5j6_-GoIPMSiFhBhFkEKAp3Qc7UEeg/edit?usp=sharing

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Comments and Questions