

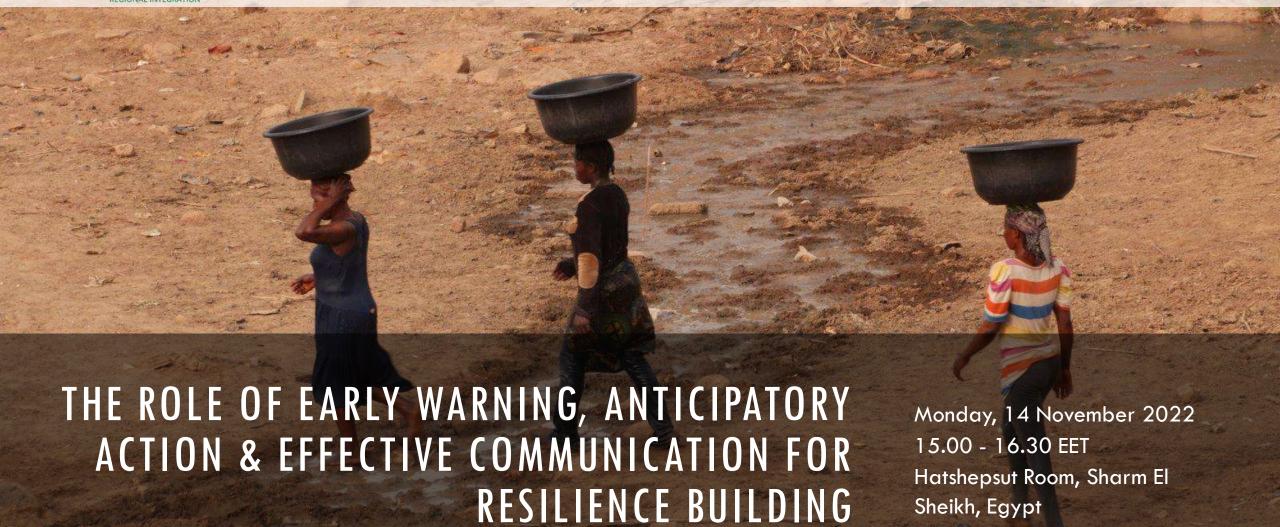




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PART OF NORWEGIAN REFUGEE COUNCIL







Chair: Dr Philip Omondi

Project Manager - RICCAMA GCCA+ Program
IGAD Climate Prediction and
Applications Centre
Climate Prediction and
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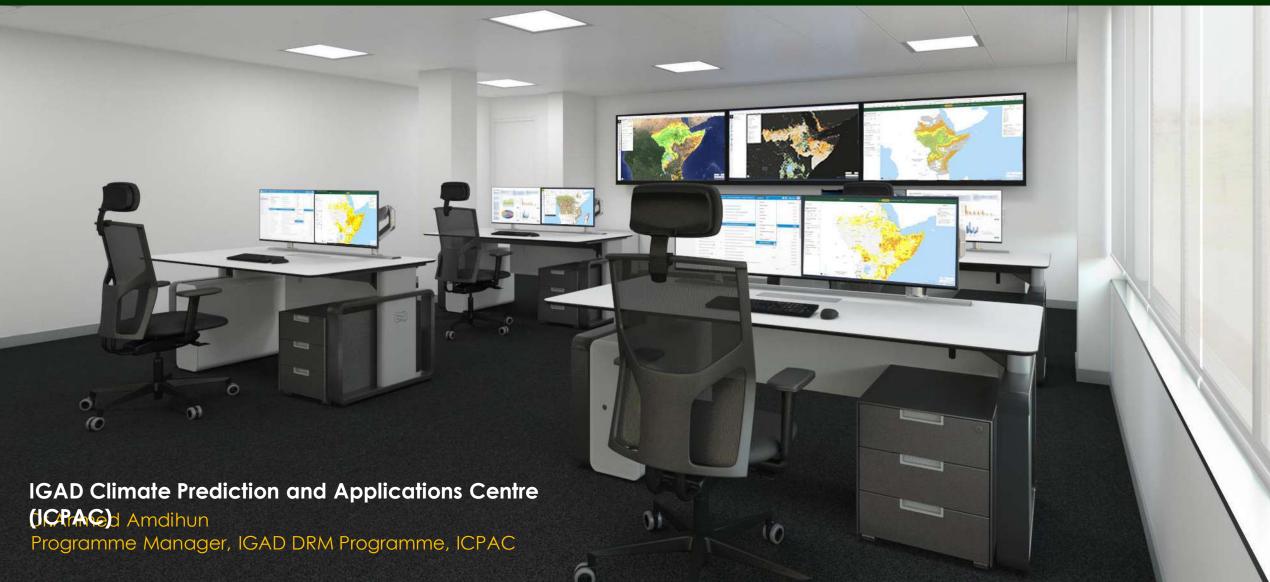


David Njuguna

Senior Broadcast Mentor BBC Media Action Kenya

Multi-Hazard Early Warning Systems





ICPAC Services













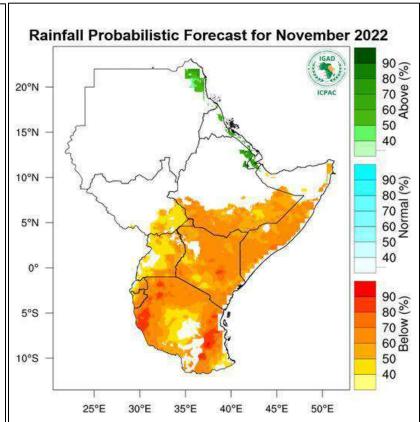




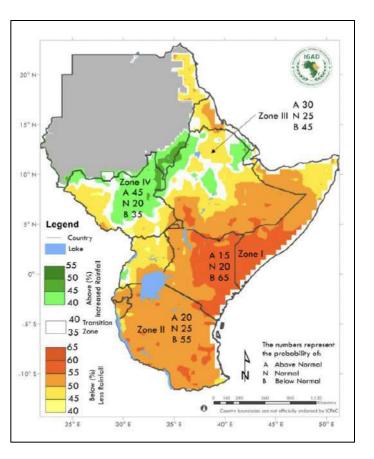
Sub-seasonal to seasonal forecast

WEEKLY MONTHLY

Total Rainfall (mm) for 08-15 Nov 2022 20°N 200 15°N 100 10°N 5°N 30 0° 10 5°S 10°S 35°E 50°E 25°E 30°E 45°E



SEASONAL - OCTOBER - DECEMBER 2022



Regional Multi-hazard Early Warning Centre

• IGAD Heads of State and Governments entrusted IGAD to establish and operationalize regional multi-hazard early warning system through IDOC during the 34th IGAD Extra- ordinary summit in December 2020.

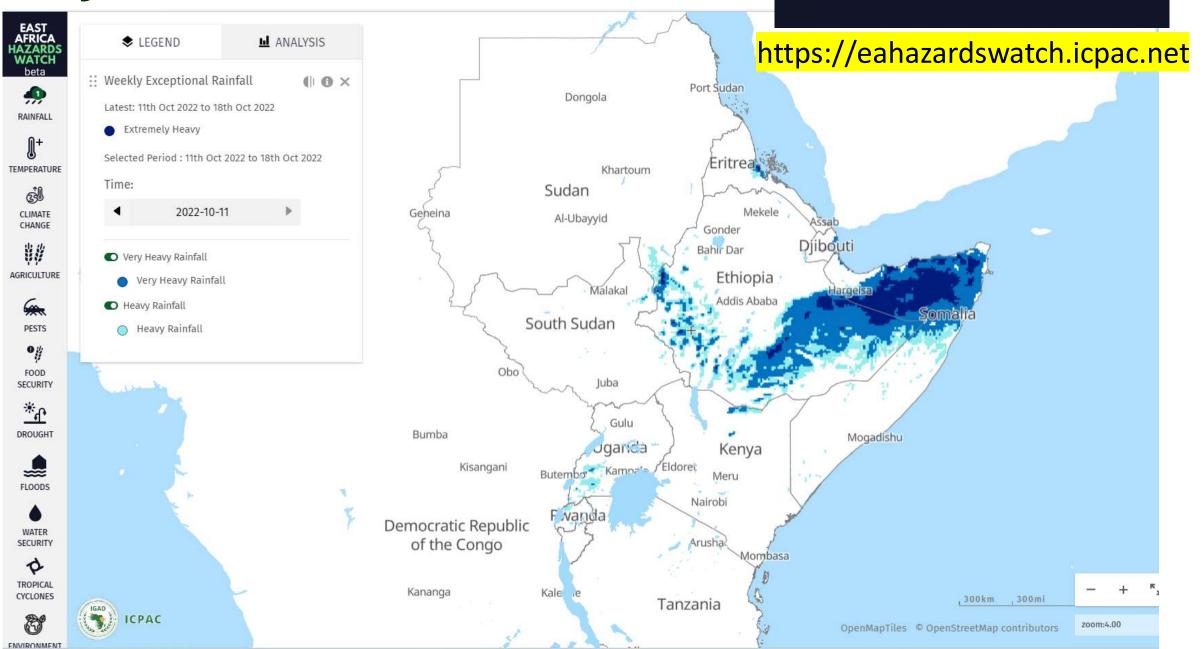


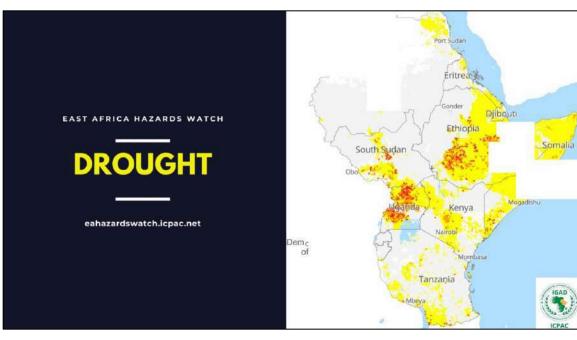
- Monitor major hazards and generate early warning information for the region;
- Coordination with national focal institutions to promote early action/Anticipatory Action;
- Rapid mapping of affected areas and impacts of disasters;
- Strengthen Capacity

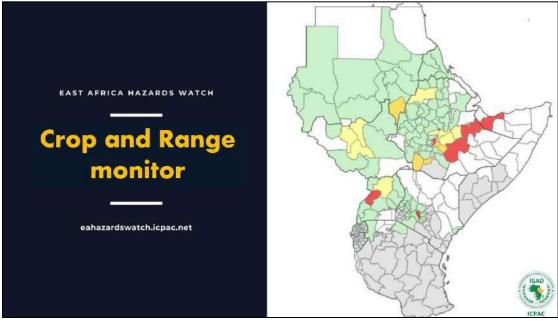
 (anticipate risk & timely response)

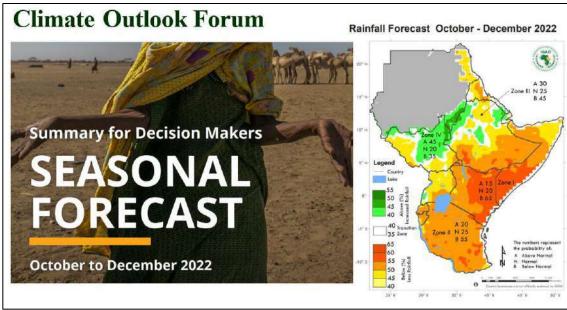
Systems and tools

East Africa Hazards Watch



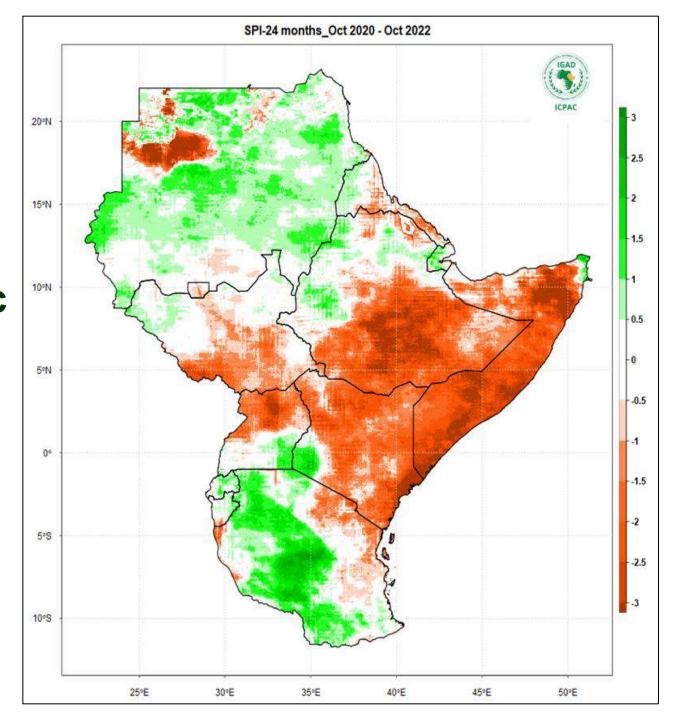








What can we learn from the ongoing catastrophic drought?



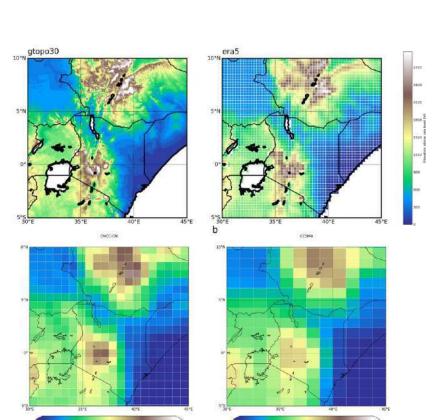
Thank You for your attention



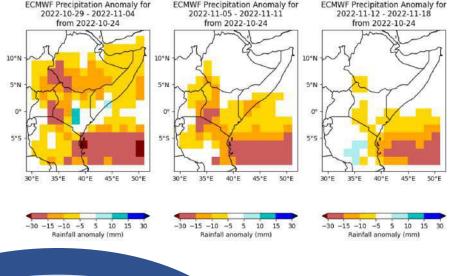
What questions can science answer?

What do users need?

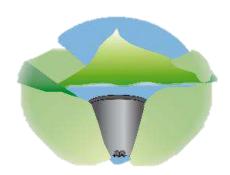
Forecasts and climate projections are produced on large scales.



https://doi.org/10.1029/2020/D034154

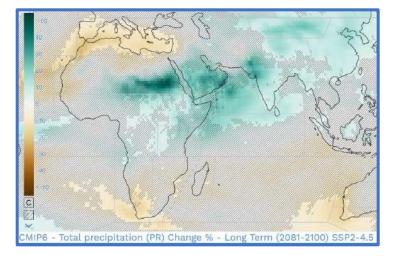


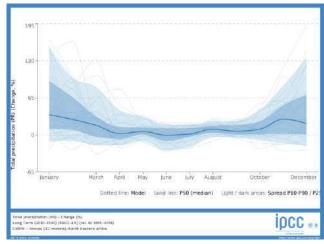


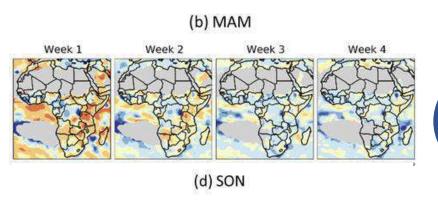


Users need information on smaller scales.

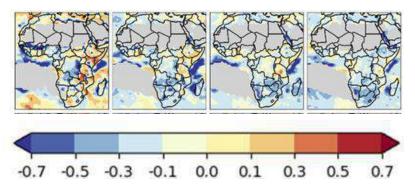
Forecasts and climate projections have associated uncertainty.







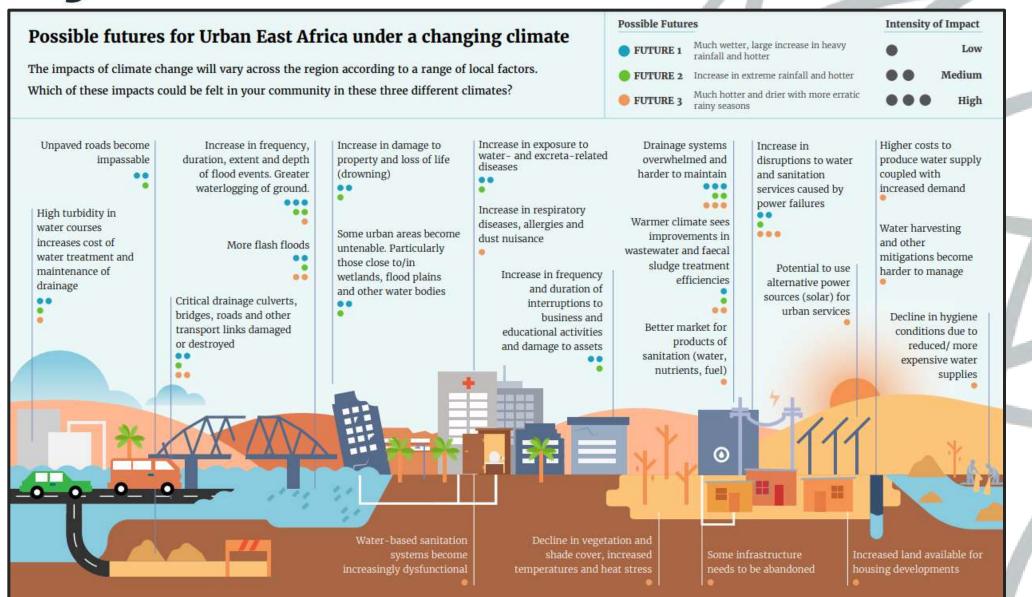




Users need reliable and actionable information.

HyCRISTAL

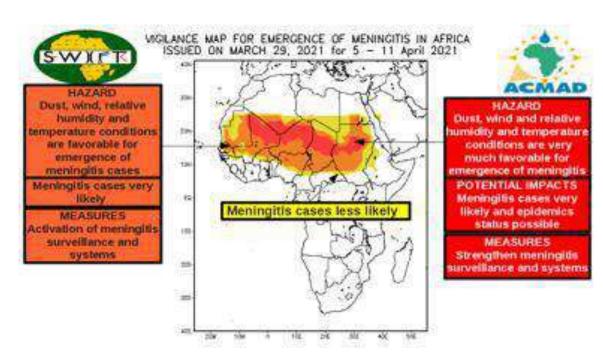
Laura Burgin; Celia Way; Barbara Evans; Dave Rowell; John Marsham et al.





Meningitis Vigilance for the Sahel

- ACMAD¹ worked closely with the health sector (WHO²) to supply bespoke, multi-variable subseasonal forecast products for meningitis vigilance across 26 countries in the meningitis belt.
- ECMWF forecasts of temperature, relative humidity and wind speed and direction are combined with dust forecasts to predict meningitis outbreaks.



¹ACMAD – African Centre of Meteorological Applications for Development ²WHO – World Health Organization

Sub-Saharan meningitis epidemics could be signalled by weather forecasts

Pilot scheme is under way to harness forecasts to predict where conditions that fuel cases are likely to develop

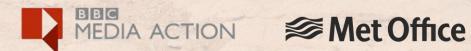


▲ A doctor vaccinates a child against meningitis in Nigeria, Photograph: Deji Yake/EPA

A weather-based surveillance system that could offer advanced warning of outbreaks of meningitis is being piloted across sub-Saharan Africa in a bid to save lives, researchers have revealed.









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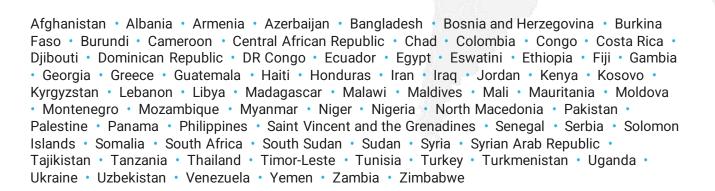


Promoting effective communication for resilience building

14 November, 2022, COP27
Benedicte Giæver, Executive Director of NORCAP

Global Presence

NORCAP worked with 50 partners in 76 countries in 2021





Strengthening climate information

- Seek to ensure accurate, timely, accessible and understandable climate information is available to all parts of society – from policymakers and media to farmers and fishermen
- Collaborate with regional climate centres, national meteorological and hydrological offices, the WMO and UN agencies
- Build and strengthen capacities for predicting, forecasting and delivering weather and climate forecasts
- Feed into **early warning and action** programmes







Key challenges

- 1 Forecasts must be regularly and reliably provided
- 2 Forecasts must be **easily accessed**
- Forecasts must be **comprehensible**
- Forecasts must be **credible**
- 5 Forecasts must be **co-produced and co-owned**



Equal access is crucial, but so is opportunity

- Equal access to climate information is crucial to building resilience
- But climate information and advice also need to take account of the end-user's situation
- Is the user in a position to take the necessary action?





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Impact Based Forecasts:

Moving from what the weather will **be** to what the weather will **do**

Hazard:

Type, intensity, location and timing. *E.g. 50mm rain in your City on Monday morning between 9-12*

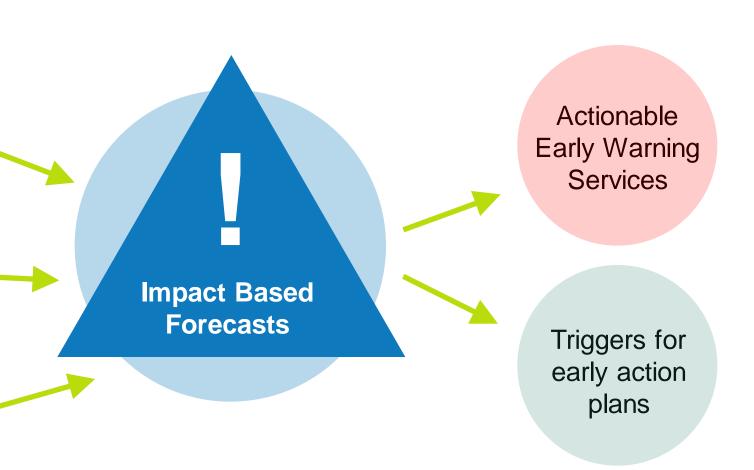
Impacts:

What are the impacts of heavy rain in your city?

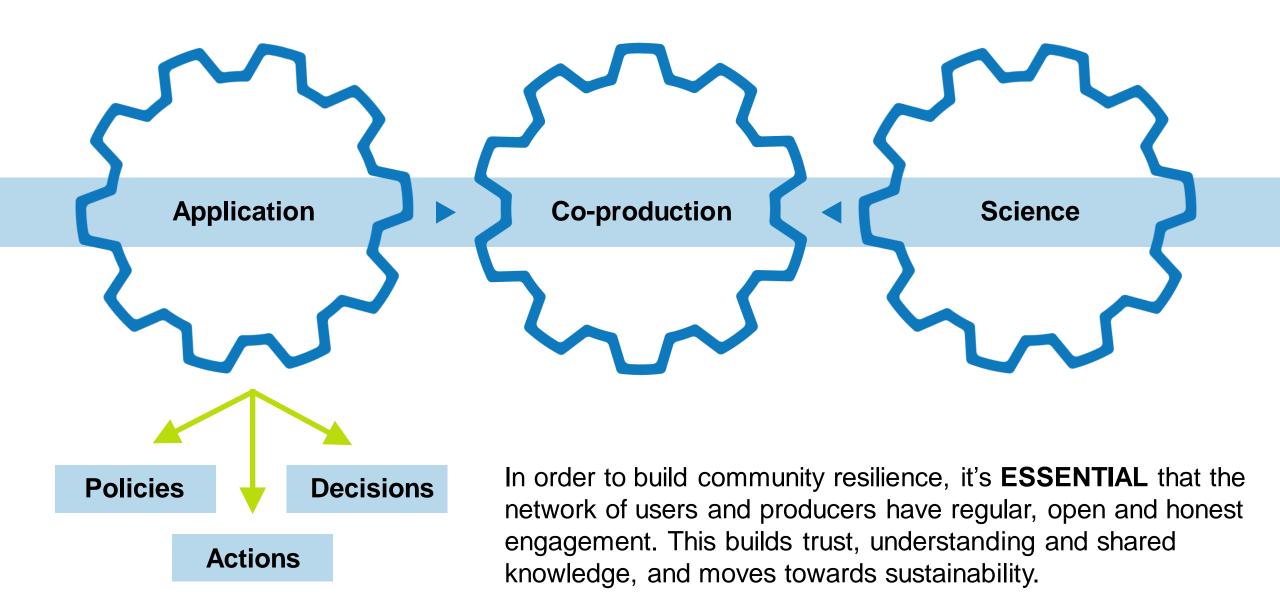
E.g. flooding, traffic jams, health issues relating to sewage overflow

Vulnerability:

Who and how will be affected by these impacts?



Met Office



Co-production in action: WISER HIGHWAY Project

The purpose of the HIGHWAY (High Impact Weather Lake System) project was to deliver the provision of regular weather forecasts and severe weather warnings for fishing boats and small transport vessels on Lake Victoria.

Key outcomes

- Project served 1.6 million beneficiaries
- 30% decrease in weather-related deaths per year
- Marine information generated avoids 312 deaths per year
- \$44 million per year gained in economic benefits for fishing communities

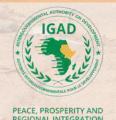


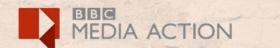














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Climate Change and the Environment



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EVENT FEEDBACK

Type the link or scan the QR code to answer the following questions:

https://www.menti.com/al8j89d4fqq8

Or

shorturl.at/pCD27

- 1. What sector/industry are you working in?
- After listening to our speakers today, what actions will you take moving forward?
- 3. What did you learn today that you did not know before?
- 4. How satisfied were you with the event?

