



# Normalising co-production of weather and climate services

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A manual for co-production in African weather and climate services: Home ([futureclimateafrica.org](http://futureclimateafrica.org))





## SWIFT learning on co-production:

- S2S policy brief and white paper on exploiting sub-seasonal Forecast Predictability in Africa: A key to sustainable development.  
(<https://doi.org/10.5518/100/72>)
- Peer-reviewed SWIFT papers on co-production
  - Using co-production to improve the appropriate use of sub-seasonal forecasts in Africa. *Climate Services*. 23. 100246. ISSN 2405-8807. Hiron et al. 2021
  - Progress and challenges of demand-led co-produced sub-seasonal to seasonal (S2S) climate forecasts in Nigeria. *Frontiers in climate*. 3. 712502. ISSN 2624-9553. Lawal et al 2021.
  - Understanding the role of user needs and perceptions related to sub-seasonal and seasonal forecasts on farmers decisions in Kenya: a systematic review. *Frontiers in climate*. Mutai et al 2021.
  - Co-producing Real-Time S2S forecasts for improved food security in Eastern Africa. *Climate Services*. In review. Gudoshava et al 2022.
  - Improved sub-seasonal forecasts to support preparedness action of Meningitis outbreak in Africa. *Climate Services*. In review. Dione et al 2022.
- ECMWF newsletter article on importance of African access to data for effective co-production.  
<https://www.ecmwf.int/en/newsletter/168/news/real-time-access-sub-seasonal-forecasts-africa>
- SWIFT co-production case study in the WMO state of climate services report 2021. ([https://library.wmo.int/doc\\_num.php?explnum\\_id=10826](https://library.wmo.int/doc_num.php?explnum_id=10826) P33)

## The implications of operationalising coproduction: Learning from African SWIFT

Coproduction has multiple benefits but requires a system-wide approach, takes time and resources, and **the roles of coproduction partners needs to be clearly defined.**

While focus to date has been on strengthening the links between NMHS and specific user groups, African SWIFT has **strengthened understanding of the national forecasting capacities and skills required for co-production and sustainably meet user needs.**

Operationalising coproduction necessitates **strengthening NMHS links with both users and:**

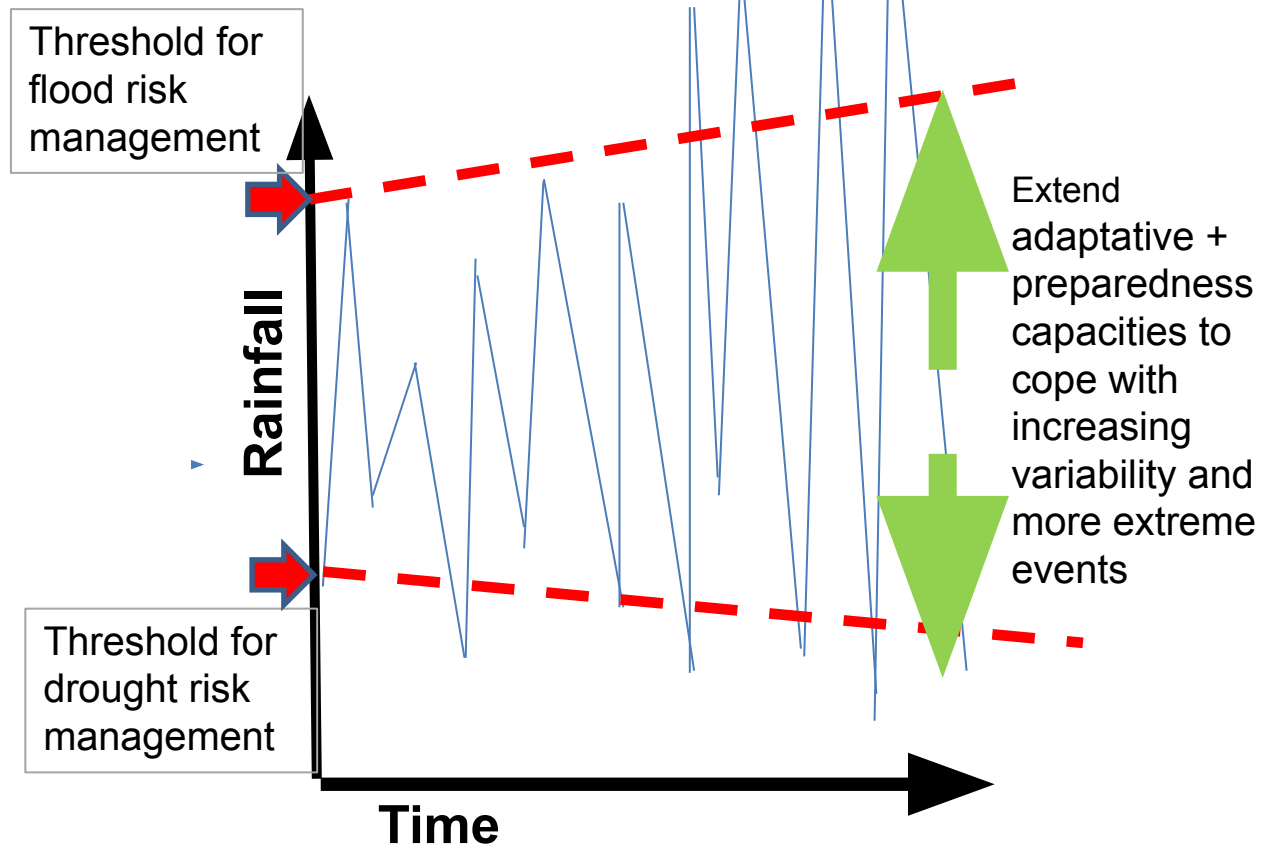
- **national research institutions** (those focused on climate and more broadly on strengthening climate-resilience)
- **Regional climate centres**





## Building capacity to cope with future climate related-risks through strengthening capacities to cope with current extremes and variability

- Embedding coproduction within existing national systems and structures
- Directing resources to national and regional priorities, capacities and systems
- Strengthening links between National Adaptation Plan (NAP) and National Framework for Climate Services (NFCS): unlocking resources for the preparedness/anticipatory capacities recognised as vital for adaptation



## Normalising co-production of climate services

Recognising the multiple (scientific, socio-economic) benefits of enabling continuous dialogue with and feedback from key users.

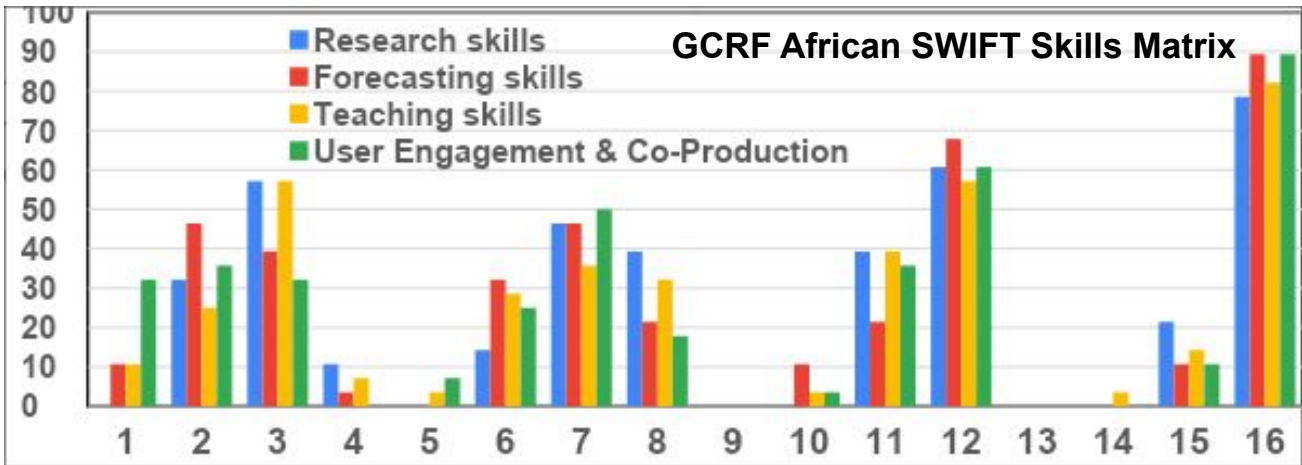
Establishing monitoring, evaluation and learning systems to demonstrate the value of weather and climate services

**-identifying the most appropriate place to situate MEL systems**

**-Recognising different and multiple metrics for gauging 'success'**  
(Visman et al. 'Defining metrics for monitoring and evaluating the impact of co-production in climate services', in review)

**-Encouraging sectors to establish SOPs for embedding and monitoring use of climate services.**

**-Establishing KPIs related to stakeholder engagement within NMHS staff appraisal**  
(aligning with NFCS self-assessment framework, *Dinku et al. 2018*).



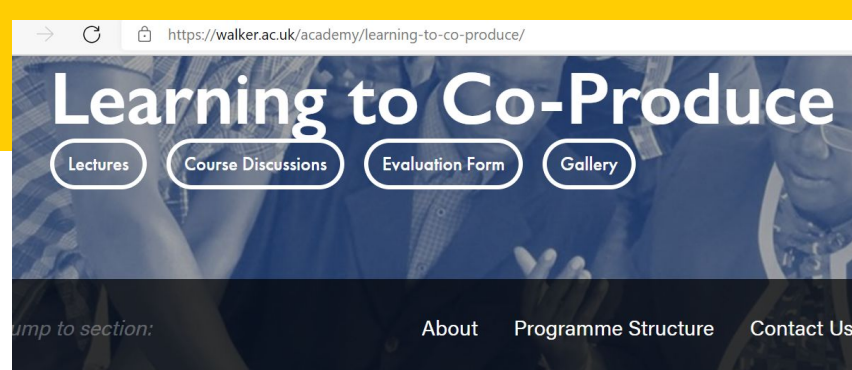
# Normalising co-production of climate services

Integrating coproduction as a core element of meteorological training.

- L2CP training (available until end 2023 and listed [WMO Learn Resources: WMO Learn Events Calendar](#))
- Chapter on co-production within the East and West African Forecasters' Handbook.

Thank you and thank you African SWIFT!

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Learning to Co-produce (L2CP) is an online course designed for post-graduate meteorological students (or those engaged in studies related to meteorology, such

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