The FANFAR flood forecasting system saved lives and property in West Africa

Nigeria, 2020
- FANFAR → Nigerian hydro. service → local government → evacuated people from five communities near Jebba dam
- 200 houses destroyed, but 2 500 lives saved!

Ivory Coast, 2022
- Grand-Bassam community
- Pre-season: awareness, roles and communication channels
- Rainy season: weekly (+) forecast
- FANFAR → trenches built to release water to ocean → reduced property damage in community during flooding

Overview of the FANFAR operational flood forecasting & alert system for West Africa

- Openly accessible 1-10day forecasts
- Updated every day since Sep. 2018
- Developed jointly & continuously
- Multiple components

More details on www.fanfar.eu
Co-design of FANFAR – what would a good system look like? (1/2)

- Clarify & prioritize user needs with Multi-Criteria Decision Analysis
- 35 organisations from 17 countries (Chad to Cap Verde): hydrological services, emergency management, regional agencies etc.
- Onsite workshops & online exchange

Lienert et al 2022, HESS, https://doi.org/10.5194/hess-26-2899-2022
Co-design of FANFAR – what would a good system look like? (2/2)

**Ranking of Objectives (“What?”)**

- High information accuracy and clarity
- Good information access
- Low costs
- High sustainability
- Sustainable system development
- Operational system
- Advanced features

**Priority:** operational system > advanced features

**Ranking of configurations (“How?”)**