

AI-Augmented Early Warning System — Mozambique's INGD/INAM Pilot for Cyclone and Flood Forecasting

AI in the Public Sector · Good practice · Mozambique

Quality score: 40/100

Evidence strength: Moderate

Summary

Mozambique's INGD and INAM are piloting machine-learning forecasts atop a multi-hazard early-warning system that helped cut Cyclone Freddy's 2023 death toll to 183 versus 603 for Cyclone Idai in 2019 — though the AI layer itself remains at pilot stage.

Key dimensions

Dimension	Score
Evidence of impact / measured public value	1/3
Transparency, fairness & accountability	1/3
Transferability / demonstrated replication	2/3
Scalability beyond pilot	1/3
Governance, capability & sustainability	1/3

Evaluated by C-NAPSE

Data sources

C-NAPSE web research — accessed 2026-07-13

Instituto Nacional de Gestão e Redução do Risco de Desastres (INGD) and Instituto Nacional de Meteorologia (INAM), Government of Mozambique, with UNDP, the World Bank, the Norwegian Meteorological Institute and the Green Climate Fund — accessed 2026-07-13

World Bank: Early Warning System Saves Lives in Mozambique — accessed 2026-07-13

WMO: Mozambique's life-saving Early Warning Systems — accessed 2026-07-13

FurtherAfrica: AI Meets Climate Action in Mozambique — accessed 2026-07-13

UNDRR: Cyclone Freddy puts Mozambique's early warning system to the test — accessed 2026-07-13

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