Impact-Based Forecasting for Cyclones and Coastal Flooding — Samoa's AI-Assisted Early Warning System

AI in the Public Sector · Good practice · Samoa

Quality score: 67/100

Evidence strength: Descriptive / self-reported

Summary

Samoa's national weather service now issues impact-based forecasts, not just hazard alerts, for cyclones, coastal flooding and storm surge, under a WMO/UNDRR/GFDRR programme now being scaled with new World Bank financing.

Key dimensions

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

Evaluated by C-NAPSE

Data sources

C-NAPSE web research — accessed 2026-08-14

Samoa Meteorology Division (Ministry of Natural Resources and Environment), with WMO, UNDRR and the World Bank's GFDRR — accessed 2026-08-14

WMO — Pacific project enhances early warning systems for island resilience — accessed 2026-08-14

World Bank — Samoa Set to Strengthen Disaster Readiness (Mar 2026) — accessed 2026-08-14

Pacific Community (SPC) — Impact-based forecasting operational in Samoa and Tonga — accessed 2026-08-14

Cite this — Evidoria. *Impact-Based Forecasting for Cyclones and Coastal Flooding — Samoa's AI-Assisted Early Warning System*. Persistent ID: 90562664-ce09-4c3f-917a-7633e6dd8259.