

Combined Drought Index — Timor-Leste's AI-Assisted Anticipatory Action System for Agricultural Drought

AI in the Public Sector · Good practice · Timor-Leste

Quality score: 60/100

Evidence strength: Observational / pre–post

Summary

FAO and Timor-Leste's government built an XGBoost-corrected seasonal drought index that triggered the country's first Anticipatory Action protocol in October 2023, matching observed drought conditions over 80% of the time (2011–2022) across five high-risk municipalities.

Key dimensions

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

Evaluated by C-NAPSE

Data sources

[C-NAPSE web research](#) — accessed 2026-07-13

[Food and Agriculture Organization of the UN \(FAO\) Timor-Leste, with Timor-Leste's Ministry of Agriculture, Livestock, Fisheries and Forestry and National Directorate of Meteorology and Geophysics](#) — accessed 2026-07-13

[FAO technical working paper \(CD1173EN\)](#) — accessed 2026-07-13

[Anticipation Hub — Anticipating drought in Timor-Leste](#) — accessed 2026-07-13

[FAO Timor-Leste — ASIS portal launch \(2026\)](#) — accessed 2026-07-13

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