

Tuvalu's National Digital Twin — AI-Assisted Mapping of a Vanishing Coastline

AI in the Public Sector · Good practice · Tuvalu

Quality score: 40/100

Evidence strength: Descriptive / self-reported

Summary

Tuvalu's Department of Lands and Survey built a machine-learning-assisted digital twin of Funafuti under the Pacific Community's Digital Earth Pacific programme, detecting coastline change and 200+ solar installations from drone imagery — at no cost to government.

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 2026-08-13

[Tuvalu Department of Lands and Survey \(with Pacific Community's Digital Earth Pacific programme\)](#) — accessed 2026-08-13

[GIM International — Tuvalu digital twin](#) — accessed 2026-08-13

[Spatial Source — Tuvalu digital twin](#) — accessed 2026-08-13

[Esri — Tuvalu digital twin case study](#) — accessed 2026-08-13

[Pacific Community \(SPC\) — Digital Earth Pacific](#) — accessed 2026-08-13

Cite this — Evidoria. *Tuvalu's National Digital Twin — AI-Assisted Mapping of a Vanishing Coastline*. Persistent ID: e0e0b111-7d71-4e3f-913e-88b1a8a86b08.