

Digital Earth Pacific — AI Satellite Monitoring for Coastline, Mangrove and Water Change Across the Pacific

AI in the Public Sector · Good practice · New Caledonia

Quality score: 73/100

Evidence strength: Descriptive / self-reported

Summary

The Pacific Community's Digital Earth Pacific, built on Microsoft's Planetary Computer, applies AI to satellite imagery to track coastline erosion, mangrove loss and surface water for every Pacific island member state and territory, free and open, since its October 2023 launch.

Key dimensions

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

Evaluated by C-NAPSE

Data sources

[C-NAPSE web research](#) — accessed 2026-07-30

[Pacific Community \(SPC\), with Microsoft Planetary Computer, NOAA, the governments of New Zealand and the United Kingdom, and the Patrick J. McGovern Foundation](#) — accessed 2026-07-30

[Technology Record — Microsoft Planetary Computer facilitates Digital Earth Pacific](#) — accessed 2026-07-30

[Microsoft Source Asia — Digital Earth Pacific features](#) — accessed 2026-07-30

[IPS News — pioneering digital initiative empowers Pacific islands](#) — accessed 2026-07-30

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