

Peru's Geobosques Early-Warning System - MINAM's Satellite Deforestation Alerts, Tested by a Randomized Trial

AI in the Public Sector · Good practice · Peru

Quality score: 80/100

Evidence strength: Randomised controlled trial

Summary

Peru's Ministry of Environment has run Geobosques, a weekly satellite-based deforestation early-warning system, since April 2017; a PNAS randomized controlled trial found community patrols using its alerts cut deforestation 37% over two years versus untreated villages.

Key dimensions

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

Evaluated by C-NAPSE

Data sources

C-NAPSE web research — accessed 2026-08-19

Ministerio del Ambiente (MINAM), with SERFOR and JICA — accessed 2026-08-19

Global Forest Watch: Triumphs and Challenges of Using Deforestation Alerts in Peru — accessed 2026-08-19

PNAS/PMC: Satellite-based deforestation alerts with training and incentives for patrolling facilitate community monitoring in the Peruvian Amazon (2021) — accessed 2026-08-19

IOP Science: Early warning tropical forest loss alerts in Peru using Landsat — accessed 2026-08-19

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