

SMBYC — Colombia's National Forest & Carbon Satellite Monitoring System

PES & Nature-Based Solutions · Good practice · Colombia

Quality score: 40/100

Evidence strength: Moderate

Summary

Since 2012 Colombia's IDEAM has run SMBYC, a satellite-based forest and carbon monitoring system using Landsat, Sentinel-2 and other imagery to track deforestation nationwide, issuing quarterly early-warning bulletins that feed the country's official GHG inventory and REDD+ payme

Key dimensions

Dimension	Score
Carbon — sequestration / storage, evidenced	2/3
Biodiversity — conservation / improvement, evidenced	1/3
Water & soil — retention, infiltration, erosion control	0/3
Fire resilience — risk reduction, evidenced	0/3
Governance, certification & transferability	3/3

Evaluated by C-NAPSE

Data sources

[C-NAPSE web research](#) — accessed 2026-09-01

[IDEAM \(Instituto de Hidrología, Meteorología y Estudios Ambientales\) — Ministerio de Ambiente y Desarrollo Sostenible](#) — accessed 2026-09-01

[IDEAM/SMBYC methodology \(IntechOpen chapter\)](#) — accessed 2026-09-01

[Euronews: Colombia deforestation fell to historic lows in 2023](#) — accessed 2026-09-01

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