

Perivallon — AI and Satellite Imagery Detect Illegal Waste Dumps With Over 90% Precision Across Lombardy, Italy

AI in the Public Sector · Good practice · Italy

Quality score: 73/100

Evidence strength: Observational / pre–post

Summary

Politecnico di Milano's Perivallon project uses neural networks on satellite imagery to flag illegal waste dumps with over 90% accuracy, piloted across 100+ Lombardy municipalities with ARPA Lombardia and Italy's Carabinieri Ecological Unit.

Key dimensions

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

Evaluated by C-NAPSE

Data sources

[C-NAPSE web research](#) — accessed 2026-08-28

[Politecnico di Milano / ARPA Lombardia / Carabinieri Ecological Unit \(Perivallon project, Horizon Europe\)](#) — accessed 2026-08-28

[Il Sole 24 Ore: AI and satellites, illegal dumps discovered 90% accurate](#) — accessed 2026-08-28

[Rinnovabili.it: Discariche abusive scoperte grazie all'intelligenza artificiale](#) — accessed 2026-08-28

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