

AFAD's AI-Powered Building-Damage Assessment — Microsoft's AI for Good Lab Mapped 2023 Earthquake Destruction from Satellite Imagery

AI in the Public Sector · Good practice · Türkiye

Quality score: 73/100

Evidence strength: Observational / pre–post

Summary

Within three days of the 2023 Kahramanmaraş earthquakes, Microsoft's AI for Good Lab used deep learning on satellite imagery to flag 3,849 damaged buildings for AFAD, the World Bank, IFRC and WFP — a one-off crisis collaboration, not an institutionalised AFAD capability.

Key dimensions

Dimension	Score
Evidence of impact / measured public value	3/3
Transparency, fairness & accountability	3/3
Transferability / demonstrated replication	3/3
Scalability beyond pilot	1/3
Governance, capability & sustainability	1/3

Evaluated by C-NAPSE

Data sources

C-NAPSE web research — accessed 2026-08-01

Türkiye Disaster and Emergency Management Presidency (AFAD), Ministry of Interior, with Microsoft AI for Good Lab — accessed 2026-08-01

Microsoft Research – Turkey Earthquake Report — accessed 2026-08-01

Evaluating Urban Building Damage of 2023 Kahramanmaraş Earthquake Sequence Using SAR Change Detection (MDPI Remote Sensing) — accessed 2026-08-01

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