

GRID3 — Sierra Leone's AI-Powered Population Mapping for Vaccination Micro-Planning

AI in the Public Sector · Good practice · Sierra Leone

Quality score: 80/100

Evidence strength: Observational / pre–post

Summary

Statistics Sierra Leone and the GRID3 partnership use machine-learning building-footprint detection on satellite imagery to map population at 1-hectare resolution, powering 223 microplanning maps that helped a 2022 HPV campaign vaccinate 177,141 girls against a 153,991 target.

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	3/3
Governance, capability & sustainability	2/3

Evaluated by C-NAPSE

Data sources

[C-NAPSE web research](#) — accessed 2026-07-13

[Statistics Sierra Leone / GRID3 partnership](#) — accessed 2026-07-13

[GRID3 — Sierra Leone tackles HPV in its latest nationwide vaccination campaign](#) — accessed 2026-07-13

[WHO Africa — Sierra Leone surpasses HPV vaccination campaign targets, closes gap on cervical cancer elimination](#) — accessed 2026-07-13

[GRID3 — Sierra Leone is fighting smart against COVID-19](#) — accessed 2026-07-13

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