

ZRA AI Unit — Zambia Revenue Authority's Machine-Learning Customs Risk Model

AI in the Public Sector · Good practice · Zambia

Quality score: 47/100

Evidence strength: Moderate

Summary

Zambia Revenue Authority's AI Unit is piloting a Random Forest ML model, adapted from a Paraguay customs deployment, to flag high-risk import declarations for inspection, targeting an estimated 47–56% customs tax gap; rigorous pilot results are still pending.

Key dimensions

Dimension	Score
Evidence of impact / measured public value	1/3
Transparency, fairness & accountability	1/3
Transferability / demonstrated replication	2/3
Scalability beyond pilot	1/3
Governance, capability & sustainability	2/3

Evaluated by C-NAPSE

Data sources

[C-NAPSE web research](#) — accessed 2026-07-19

[Zambia Revenue Authority \(ZRA\), AI Unit, with UC Berkeley's Center for Effective Global Action \(CEGA\)](#) — accessed 2026-07-19

[ZRA — official statement on AI in tax administration](#) — accessed 2026-07-19

[Ministry of Technology and Science \(Zambia\) — official statement](#) — accessed 2026-07-19

[UC Berkeley CEGA — independent research description of the Random Forest model](#) — accessed 2026-07-19

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