

Smart Nkunganire System — Rwanda's AI-Assisted Fertilizer Recommendation Tool for Smallholder Farmers

AI in the Public Sector · Good practice · Rwanda

Quality score: 53/100

Evidence strength: Moderate

Summary

Rwanda's Agriculture Board channels over 90% of the country's subsidized fertilizer through the Smart Nkunganire System, whose CGIAR-built machine-learning models reached 97% accuracy recommending crop and fertilizer choices in field validation for rice and potato.

Key dimensions

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

Evaluated by C-NAPSE

Data sources

[C-NAPSE web research](#) — accessed 2026-08-23

[Rwanda Agriculture and Animal Resources Development Board \(RAB\), with CGIAR's Excellence in Agronomy Initiative and One Acre Fund](#) — accessed 2026-08-23

[CGIAR advisory-service overview](#) — accessed 2026-08-23

[CGIAR: challenges and progress report](#) — accessed 2026-08-23

[TOP AFRICA NEWS coverage](#) — accessed 2026-08-23

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