Agrocares Scanner: Soil, Feed and Leaves Nutrient Scanner

Scan Nutrients. Get Answers. Act Fast.

The Nutrient Scanner gives government teams a quick and portable way to assess soil and crop nutrition in the field. It scans samples with NIR light, connects to a smartphone, and sends data to the cloud for instant nutrient analysis and recommendations. It supports data-driven extension without needing a lab.

HLB, Rabobank Foundation
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This technology is pre-validated.

9·9 Scaling readiness: idea maturity 9/9; level of use 9/9

Inclusion assessment 4

Climate impact 7

Problem

- **Limited Extension Capacity**
  Agents can't diagnose nutrient issues on-site.
- **Fertilizer Inefficiency**
  Blanket application leads to waste and low yields.
- **Labs Out of Reach**
  Testing services are slow, costly, and hard to scale.
- **No Field-Level Data**
  Policies lack current soil fertility insights.

Solution

- **Field-Ready Tool for Agents:** Extension staff can test and advise farmers instantly.
- **Smarter Fertilizer Use:** Reduce waste with precise nutrient recommendations.
- **Rural Reach Made Easy:** Works offline for scanning; syncs later.
- **Improves Soil Data Systems:** Generates real-time info to support planning and policy.

Key points to design your project

Modernize soil and crop advisory with on-site diagnostics.

- **Equip extension agents** with handheld scanners and apps.
- **Train staff and embed testing** into regular field visits.
- **Use scan data** to guide fertilizer policy, subsidies, and restoration programs.
- **Engage communities and local leaders** to increase adoption.
- **Monitor results** to adjust strategy and maximize impact.

6695 USD
Unit Cost of Scanner

ROI: $$$ **30 %**
Return on investment per year

1950 USD
Yearly Licence for Soil Testing

2500 USD
Yearly Licence for Leaf or Feed Testing

IP
Patent granted, Copyright, Trademark

Commodities

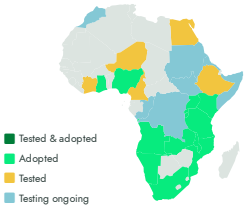
Maize, Wheat, Cassava, Soybean, Canola, Sorghum/Millet, + 3 more

Sustainable Development Goals

Categories

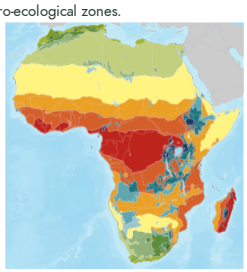
Production, Pre-production, Equipment, Analysis and Diagnostic tool

Tested/adopted in



Where it can be used

This technology can be used in the colored agro-ecological zones.



Target groups

Breeders, Development institutions, Farmers, Governments, Seed companies, Sellers, + 4 more