

CassQual: Cassava Seed Quality Management system

Enhancing cassava productivity through healthy planting material

Entrepreneurs benefit from a structured cassava seed system with defined certification stages and tools like Seed Tracker. Community actors can adopt QDS models to self-certify and market quality seed. Digital tools like PlantVillage Nuru support diagnostics and reduce losses.



IITA
James Legg

This technology is **pre-validated**. 9.9 Scaling readiness: idea maturity: 9/9; level of use: 9/9

251,400 USD To set up the system		916,20 % ROI calculated for a scenario involving 300 seed producers	
60,000 USD Annual monitoring cost	25,000 USD Annual certification costs	135 % Yield increased	IP Open source / open access

<h3>Problem</h3> <ul style="list-style-type: none"> Market saturation with low-quality or recycled cassava planting material Limited trust from farmers in seed sold by informal actors High post-planting losses from disease-infected seed 	<h3>Solution</h3> <ul style="list-style-type: none"> Certification systems that enable formal seed business development Digital traceability and branding through labeling systems Use of digital tools to ensure quality control and build customer trust Platforms that streamline registration, inspection, and sales tracking
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Commodities
Cassava

Sustainable Development Goals

Categories

Pre-production, Practices, Pest control (excluding weeds), Seed system

Tested/adopted in

- Tested & adopted
- Adopted
- Tested
- Testing ongoing

Where it can be used

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

Target groups

Breeders, Seed companies, Advisory and Extension Services, Seed Regulators

Key points to design your business plan

This system provides agribusinesses with a structured pathway to produce and market certified cassava seed through trusted certification and labeling.

- It supports market differentiation and premium pricing opportunities.
- Private actors can adopt it by understanding certification protocols, engaging in training, and establishing branded demonstration plots.

Gender assessment 👍 2 Climate impact 👍 3 👎 3