

CassQual: Cassava Seed Quality Management system

Enhancing cassava productivity through healthy planting material

This system combines regulatory oversight, digital tools, and community engagement to ensure cassava seed quality. Certification bodies inspect seed at higher levels, while local producers use QDS approaches. Tools like PlantVillage Nuru and Seed Tracker support diagnostics, tracking, and transparency.



Commodities

Cassava

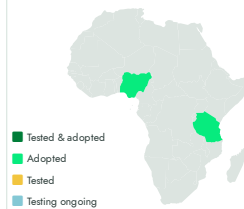
Sustainable Development Goals



Categories

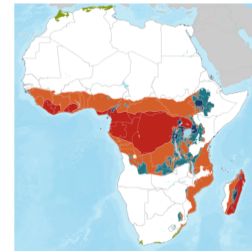
Pre-production, Practices,
Pest control (excluding weeds), Seed system

Tested/adopted in



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



This technology is **pre-validated**.



9/9



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

Gender assessment



Climate impact



Problem

- Lack of scalable and sustainable seed quality models for cassava
- Limited access for smallholders to improved planting material
- High post-harvest and planting losses impacting food security
- Exclusion of youth and women from formal seed systems

Solution

- Scalable certification frameworks that promote clean seed access
- Digital tools that enhance disease detection and reduce losses
- Improved income opportunities through structured seed markets
- Empowerment of women and youth as decentralized seed entrepreneurs

Key points to design your program

This scalable, impact-driven system ensures smallholder access to certified, disease-free cassava seed while promoting gender inclusion and climate resilience.

- It aligns with SDGs 1 and 2 and supports national transformation agendas.
- Integration requires stakeholder engagement, training, policy support, and deployment of digital and monitoring tools.

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



Open source / open access



CassQual

<https://e-catalogs.taatafrica.org/org/technologies/cassqual-cassava-seed-quality-management-system>

Last updated on 30 April 2025, printed on 30 April 2025

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