

BASICS Model: A Seed System Model for Cassava Transformation



An economically sustainable integrated cassava seed system!

The **BASICS model** is a public-private framework that builds institutional capacity, supports smallholder access to clean seed, and strengthens regulatory systems.



This technology is **pre-validated**.

8•8



Scaling readiness: idea maturity 8/9; level of use 8/9

Inclusion assessment



Climate impact



Problem

- Yield gap: Most farmers achieve <10 tons/ha due to poor planting materials.
- Disease spread: Over 80% of cassava fields show signs of viral infection.
- Market distortion: Free stem distribution undermines systemic development.
- Regulatory vacuum: Weak enforcement of seed certification and traceability.

Solution

- Builds local capacity and **seed entrepreneurship for youth and women**.
- Boosts productivity and resilience through **clean planting material**.
- Supports digital public goods and e-certification through Seed Tracker.
- Contributes to **SDGs 1, 2, 5, 8, 13, and 17** through integrated partnerships.

Key points to design your program

Cassava is key to food security, job creation, and climate resilience. To scale it:

- Support public/private EGS units and SAH facilities.
- Invest in youth- and women-led CSE networks.
- Strengthen national seed regulatory systems.
- Collaborate with BASICS-II for technical support and expansion.



Open source / open access



IITA and Sasakawa Africa Association

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Commodities

Cassava

Sustainable Development Goals



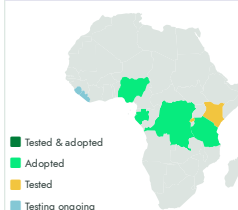
Categories

Pre-production, Practices, Yield improvement, Seed system

Best used with

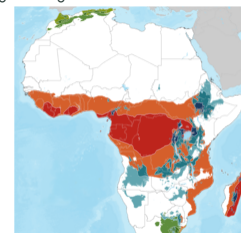
Early Generation Seed Production of Cassava, Capacity Building Strategies, Marketing Strategies, Molecular diagnostics for cassava seed health certification, Cassa...

Tested/adopted in



Where it can be used

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



BASICS Model

<https://taat.africa/tcv>

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