

BASICS Model: A Seed System



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Commodities

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Sustainable Development Goals









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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 <u>certification</u> >
- Cassava Seed Entrepreneur Business Model >
- Nuru for in-field Pest >
- Cassava Seed Quality Management system >
- Cassava Seed Monitoring System >
- Digital tool for Strengthening Seed Governance and Certification Systems >
- Organized support networks for cassava seed entrepreneurs >
- Cassava Seed System Advocacy and Scaling

Model for Cassava **Transformation**

An economically sustainable integrated cassava seed system!

The BASICS Model is a full-package solution to modernize cassava seed production and distribution. It moves away from giving free stems to farmers and instead supports a commercial approach where certified cassava seeds (stem cuttings) are produced, inspected, and sold by trained seed entrepreneurs.



This technology is <u>pre-validated</u>.





Gender assessment



Climate impact



Problem

- · Cassava yields remain low due to farmers using infected, uncertified planting material.
- This increases food insecurity and keeps rural incomes low.
- Most national seed systems lack regulation and traceability.

Solution

- Reliable access to improved varieties: BASICS ensures farmers get disease-free, high-yielding planting materials.
- Disease control through virus indexing: Earlygeneration seed is tested and verified to be virusfree using diagnostics tools, reducing disease incidence.
- Sustainable business model: Seed is sold, not given away, creating local jobs and ensuring long-term supply through seed entrepreneurs.
- Digital monitoring: Tools like Seed Tracker support regulators and seed producers in quality control, increasing transparency and traceability.
- Boosted yields: Adoption of the system can double cassava yields from less than 10 tons/ha to 20 tons/ha or more.

Key points to design your project

Cassava demand is rising fast with new processing industries. To implement it:

- Set up a public or hybrid early-generation seed (EGS) unit.
- · Install SAH labs to rapidly multiply improved varieties.
- Support youth-led Cassava Seed Entrepreneurs (CSEs) as a job creation tool.
- Strengthen regulatory agencies for quality assurance.



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