Sahel Potato Innovation Package: High-Performing Potato Varieties and Quality Seed Potato Production System for West Africa

High-quality, disease-free seed potatoes for African farmers

A commercial potato production package combining three high-performing varieties (**Chieftain, AC Chaleur, and Kennebec**), disease-free Elite III seed potatoes, and improved production and storage practices to supply fresh, storage, and processing markets while creating profitable investment opportunities.

This technology is pre-validated.

9·7 Scaling readiness: idea maturity 9/9; level of use7/9

IP

No formal IP rights

Problem

- **Limited access to quality seed:** Inadequate supply of certified, disease-free seed potatoes reduces productivity and business reliability.
- **Dependence on imported seed:** High-cost imported seed increases production costs and delays planting.
- **Low commercial productivity:** Low-yielding varieties and limited processing-suitable options reduce profitability and market opportunities.

Solution

- **Reliable local seed supply:** Provides certified, disease-free Elite III seed potatoes through local multiplication, reducing dependence on imported seed.
- **Higher profitability:** Introduces high-yielding varieties that increase productivity and return on investment.
- **Expanded market opportunities:** Offers storage-tolerant and processing-suitable varieties for fresh, storage, and industrial markets.

Key points to design your business plan

The technology presents a commercial opportunity to strengthen and expand the potato value chain in West Africa through the production and distribution of **high-quality, disease-free Elite III seed potatoes** and high-performing varieties (**Chieftain, AC Chaleur, and Kennebec**). It addresses major business constraints, including unreliable access to quality seed, low productivity, post-harvest losses, and limited availability of potato varieties suitable for processing industries.

Private sector actors can leverage this technology to develop business opportunities in **seed multiplication, commercial potato production, storage and aggregation services, and supply of raw materials for food processing**. The combination of high yield potential, improved storage performance, and market-oriented varieties creates opportunities to improve profitability, reduce supply risks, and expand access to growing fresh and processed potato markets.

Inclusion assessment 12 12 STOP 12

Climate impact 7

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Commodities

Potato

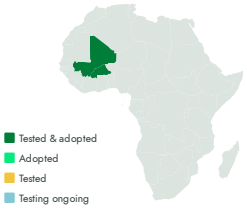
Sustainable Development Goals

1 NO POVERTY · 2 ZERO HUNGER · 17 PARTNERSHIPS FOR THE GOALS

Categories

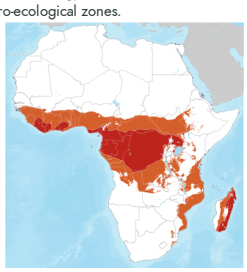
Production, Improved varieties, Disease resistance, Quality improvement

Tested/adopted in



Where it can be used

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



Target groups

Farmers, Seed companies, Seed Regulators, Cooperatives and Agribusinesses