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 farmer-oriented potato production package providing disease-free seed, improved varieties, integrated pest management, and technical support to increase yields, reduce losses, improve market access, and strengthen farmer livelihoods.

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This technology is pre-validated.

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

Inclusion assessment 12 12 12

Climate impact 7

Problem

- **Poor access to quality planting material:** Smallholders have limited access to affordable, disease-free seed potatoes.
- **Weak extension support:** Limited technical guidance slows adoption of improved production, pest management, and storage practices.
- **Low farmer productivity and incomes:** Poor-quality seed and outdated farming practices result in low yields, reduced market access, and weak livelihoods.

Solution

- **Improved access to quality seed:** Provides smallholders with affordable, disease-free Elite III seed potatoes.
- **Strengthened farmer capacity:** Combines improved varieties with training on good agricultural practices, pest management, and post-harvest handling.
- **Enhanced livelihoods:** Increases productivity, reduces post-harvest losses, and improves market access through sustainable, value chain-oriented potato production.

Key points to design your program

The technology provides a solution for development programmes focused on **food security, sustainable livelihoods, climate resilience, and agricultural value chain development**. By combining access to disease-free seed potatoes, improved varieties, technical training, and production guidance, it helps farmers overcome key barriers affecting potato productivity, income generation, and market participation.

Development organisations can integrate this technology into programmes supporting **seed system development, farmer capacity building, producer organisation strengthening, and market linkage activities**. It is particularly relevant for initiatives promoting off-season production, income diversification, and improved access to agricultural technologies among smallholder farmers, women, and youth. Through collaboration with technology providers, research institutions, and local partners, the technology offers potential for sustainable scaling and long-term impact.

IP

No formal IP rights

Commodities

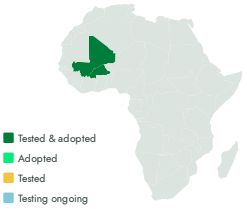
Potato

Sustainable Development Goals

Categories

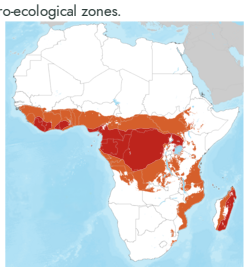
Production, Improved varieties, Disease resistance, Quality improvement

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