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

An improved potato seed system introducing adapted, high-performing varieties and quality planting material to increase potato productivity, strengthen food security, diversify national varieties, and reduce reliance on imports.

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

- **Weak national seed systems:** Limited access to certified seed and local multiplication constrains potato sector growth.
- **Food import dependency:** Low domestic potato production increases reliance on imported potatoes and seed.
- **Low national productivity:** Poor seed quality and limited adoption of improved varieties create significant yield gaps.

Solution

- **Strengthened national seed systems:** Expands local production and distribution of certified seed potatoes.
- **Improved food security:** Increases domestic potato production, reducing dependence on imported potatoes and seed.
- **Higher national productivity:** Promotes high-performing, climate-adapted varieties to increase yields and accelerate adoption of improved technologies.

Key points to design your project

The technology supports government priorities related to **food security, agricultural transformation, and national seed system strengthening** by improving access to adapted, high-performing potato varieties and locally produced quality planting material. The introduction of Chieftain, AC Chaleur, and Kennebec can contribute to increased domestic potato production, reduced dependence on imported seed and potatoes, and improved resilience to climate-related production challenges.

Government programmes can support scaling through investments and policies focused on **variety registration, certified seed production, research and extension services, and value chain infrastructure development**. By strengthening local seed systems and promoting improved production practices, the technology contributes to national objectives of increasing agricultural productivity, creating rural economic opportunities, and improving food availability.

IP

No formal IP rights

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Commodities

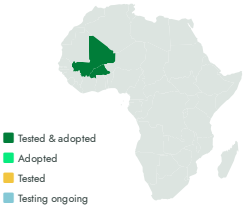
Potato

Sustainable Development Goals

Categories

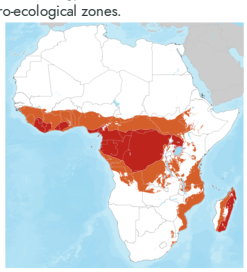
Production, Improved varieties, Disease resistance, Quality improvement

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