

Relay intercropping of sweet potato with legumes



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Harvest More, Worry Less with Sweet Potato-Legume Relay Intercropping

Relay intercropping of sweet potato with legumes is a farming method where two crops, sweet potato and legumes like beans or cowpeas, are grown together in the same field. Farmers can plant sweet potato first, then plant legumes later.

This technology is **TAAT1 validated**.

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

Inclusion assessment

Climate impact

Problem

- Reduced land productivity due to monoculture practices.
- Nitrogen deficiency in soil leading to lower crop yields.
- Vulnerability to crop failure and food insecurity due to pest attacks and droughts.

Solution

- Improved land productivity through efficient utilization of available resources.
- Enhanced soil nitrogen levels through symbiotic nitrogen fixation by legumes.
- Increased resilience to pest attacks and droughts through diversified cropping systems.

Technology from

ProPAS

Commodities

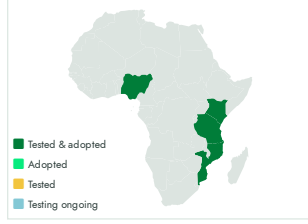
Sweet Potato

Sustainable Development Goals

Categories

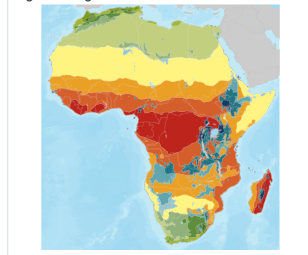
Production, Practices, Pest control (excluding weeds), Yield improvement

Tested/adopted in



Where it can be used

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



Target groups

Farmers

Key points to design your program

Relay Intercropping of Sweet Potato with Legumes can be integrated into sweet potato value chain development, sustainable agriculture, food security, and climate-smart agriculture programs to increase land productivity, improve soil fertility, and strengthen household food and nutrition security. Its adoption contributes to **SDGs 1, 2, 3, and 13**. To integrate this technology into your project, plan and budget for the following activities and prerequisites:

- **Facilitate access** to quality sweet potato planting materials, improved legume seed, rhizobium inoculants, and other essential production inputs.
- **Establish partnerships** with CIP, national agricultural research and extension services, producer organizations, and input suppliers.
- **Conduct** demonstration plots and training on relay intercropping and soil fertility management.

IP
 Open source / open access

