

# Relay intercropping of sweet potato with legumes



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**.

8•8



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



Open source / open access

## 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.

## Key points to design your business plan

Relay intercropping of sweet potato with legumes offers a sustainable farming method, boosting crop yield, environmental resilience, and economic viability. To implement this technology effectively:

- Evaluate farm compatibility for mixed cultivation based on soil type and climate.
- Select appropriate sweet potato and legume varieties.
- Source high-quality seeds for both crops.
- Foster collaborations with agricultural organizations, fertilizer suppliers, and service providers for support and distribution.

Gender assessment 4

Climate impact 7



**International Potato Center (CIP)**

Kwikiriza Norman

Technology from

ProPAS

Commodities

Sweet Potato

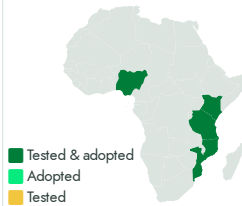
Sustainable Development Goals



Categories

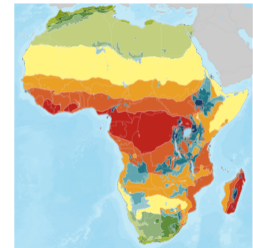
Production, Practices,  
Pest control (excluding weeds),  
Yield improvement

Tested/adopted in



Where it can be used

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



Target groups



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<https://e-catalogs.taatafrica.org/com/technologies/relay-intercropping-of-sweet-potato-with-legumes>

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