

# Tent-style greenhouse for multiplication of sweet potato vines and cuttings



**International Potato Center (CIP)**  
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Greenhouse Solutions for Thriving Sweet Potato Farms

The tent-style greenhouse, built with local materials and screen nets, provides an optimal, pest-free environment for sweet potato vines. It maintains soil moisture and ensures the production of high-quality, disease-free planting material. This cost-effective and easy-to-assemble technology is a practical tool for farmers to increase sweet potato yield.



This technology is **TAAT1 validated**.

8-9



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

Cost: \$\$\$\$ **7.66 USD**

total investment per square meter

ROI: \$\$\$\$ **56 %**

over 3 year

**4-9 USD**

sales of vines per square meter



Open source / open access

Technology from

[ProPAS](#)

Commodities

Sweet Potato

Sustainable Development Goals



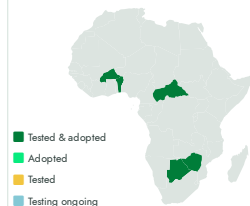
Categories

Production, Equipment, Seed system

Best used with

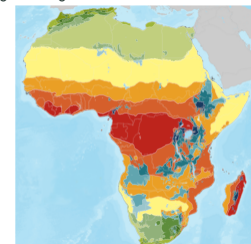
• [Orange-Fleshed Sweet Potato \(High provitamin A\)](#) >

Tested/adopted in



Where it can be used

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



## Problem

- **Planting Material:** Shortage and degradation over time.
- **Pests/Diseases:** Susceptibility impacting crop health and yield.
- **Infrastructure/Cost:** High costs and local material availability issues.

## Solution

- **Efficient Production:** Multiplication of healthy vines and cuttings.
- **Pest/Disease Control:** Screen nets for a pest-free environment.
- **Cost-Effective:** Built with cheaper, locally available materials.

## Key points to design your business plan

For farmers, integrating a tent-style greenhouse can boost crop yield and quality, offering a pest-free environment and high-quality planting material. It's cost-effective and promotes sustainable farming.

Key steps for implementation:

1. **Learn and Estimate Costs:** Understand the greenhouse's benefits, operation, and calculate all associated costs.
2. **Site Selection and Preparation:** Choose a suitable spot on your farm and prepare it for the greenhouse.
3. **Greenhouse Construction and Plant Arrangement:** Build the greenhouse, install nets, cover the frame, and arrange the vines and cuttings inside.
4. **Maintenance and Evaluation:** Control the greenhouse environment and regularly evaluate its effectiveness.

Remember, the timeline depends on your specific situation and needs.

Gender assessment



Climate impact



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<https://taat.africa/ksw>

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