

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 **ROI: \$\$\$ 56 %**
 total investment per square meter over 3 year
4-9 USD IP
 sales of vines per square meter Open source / open access

<h3>Problem</h3> <ul style="list-style-type: none"> Planting Material: Shortage and degradation over time. Pests/Diseases: Susceptibility impacting crop health and yield. Infrastructure/Cost: High costs and local material availability issues. 	<h3>Solution</h3> <ul style="list-style-type: none"> 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.
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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:

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

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

Technology from
ProPAS

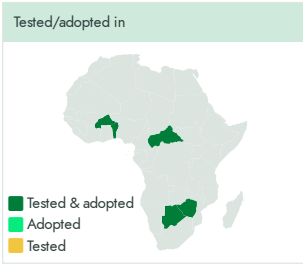
Commodities
Sweet Potato

Sustainable Development Goals

Categories
Production, Equipment, Seed system

Best used with

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



Gender assessment 4

Climate impact 6