

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

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.



International Potato Center (CIP)
Paul Demo

Technology from

[ProPAS](#)

Commodities

Sweet Potato

Sustainable Development Goals



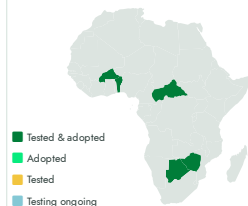
Categories

Production, Equipment, Seed system

Best used with

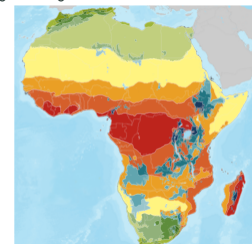
- [Orange-Fleshed Sweet Potato \(High provitamin A\)](#)

Tested/adopted in



Where it can be used

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



✓ This technology is **TAAT1 validated**.

8-9



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

Gender assessment

4

Climate impact

6

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 project

The tent-style greenhouse technology bolsters climate resilience, optimizes resource use, and aligns with SDGs like Zero Hunger and Climate Action.

For farmer adoption, the project activities include:

- Training:** Educate farmers on the greenhouse benefits and operation.
- Site Preparation:** Assist in location selection and site preparation.
- Construction:** Guide through greenhouse assembly and screen net installation.
- Arrangement:** Train on plant arrangement inside the greenhouse.
- Maintenance:** Teach soil moisture maintenance and temperature control.
- Feedback:** Evaluate technology effectiveness and gather farmer feedback.

The timeline depends on the farmers' specific context and needs.

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

total investment per square meter

4-9 USD

sales of vines per square meter

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

over 3 year



IP

Open source / open access



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

<https://taat.africa/qym>

Last updated on 22 May 2024, printed on 15 May 2025

Enquiries e-catalogs@taat.africa