



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 originally documented by

ProPAS

Commodities

Sweet Potato

Sustainable Development Goals









Categories

Production, Equipment, Seed system

• Orange-Fleshed Sweet

This technology is **TAAT1** validated.





Climate impact

Problem

Gender assessment

- Planting Material: Shortage and degradation
- 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 pestfree 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:

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

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

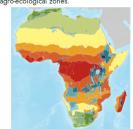
Best used with

Potato (High provitamin A) >



Where it can be used

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





Cost: \$\$\$) 7.66 USD

ROI: \$\$\$) 56 %

over 3 year

 \bigcirc IP

4-9 USD sales of vines per square meter

total investment per square meter

Open source / open access

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https://e-catalogs.taat-africa.org/gov/technologies/tent-style-greenhouse-for-multiplication-of-sweetpotato-vines-and-cuttings

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