

Community-based multiplication of sweet potato vines and cuttings

Boost Your Yield and Cut Costs with Community-Sourced Sweet Potato Vines.



International Potato Center (CIP)
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Community-based multiplication of sweet potato vines is a scalable agricultural technology that enhances the quality and availability of planting materials in rural communities. It addresses challenges such as cost reduction, pest management, and timely distribution, while utilizing local resources. This adaptable method supports smallholder farmers, making it a valuable tool for rural communities.

This technology is **TAAT1 validated**.

5*5

 Scaling readiness: idea maturity 5/9; level of use 5/9

Project adoption 1
 Technology integrated in the ENSURE project.

Inclusion assessment 4

Climate impact 7

Problem

- Limited access to quality materials.
- High prices and distribution issues.
- Lack of effective measures.
- Limited access for smallholder farmers.
- High susceptibility in crops.

Solution

- Organize large-scale multiplication of sweet potato vines.
- Establish reliable supply chains and improve rainy season distribution.
- Enhance quality, reduce prices, and achieve economies of scale.
- Maintain hybrid and resistant varieties effectively.
- Guard against pests and diseases using local resources.

Key points to design your program

Community-based multiplication of sweet potato vines strengthens local seed systems by increasing the availability of healthy, disease-free planting materials within farming communities. Suitable for food security, nutrition-sensitive agriculture, climate resilience, and seed system development programmes, the technology contributes to **SDGs 2 (Zero Hunger), 5 (Gender Equality), 8 (Decent Work and Economic Growth), and 13 (Climate Action)** while creating local business opportunities for women and youth through decentralized vine multiplication and community seed enterprises.

To successfully integrate this technology, consider the following key actions:

- Target sweet potato production areas affected by shortages of quality planting materials and climate-related production risks.
- Establish partnerships with CIP, research institutions, extension services, community seed producers, and national seed authorities to support decentralized vine multiplication and quality assurance.
- Invest in community nurseries, irrigation facilities, and technical capacity to strengthen the production of healthy, certified planting materials.
- Promote Orange-Fleshed Sweet Potato (OFSP), strengthen community seed enterprises, and monitor vine production, adoption, and programme outcomes.

Technology from

ProPAS

Commodities

Sweet Potato

Sustainable Development Goals

2 ZERO HUNGER

8 DECENT WORK AND ECONOMIC GROWTH

12 RESPONSIBLE CONSUMPTION AND PRODUCTION

Categories

Pre-production, Practices, Seed system

Best used with

Orange-Fleshed Sweet Potato (High provitamin A), Drought and Virus Tolerant Orange-Fleshed Sweet Potato, Tent-style greenhouse for multiplication of sweet pot...
 See all 4 technologies online

Tested/adopted in

■ Tested & adopted
■ Adopted
■ Tested
■ Testing ongoing

Where it can be used

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

Target groups

Farmers

Capital investments for a screen house, irrigation system,
fertilizers and disease control agents to set up a sweet
potato multiplication site Per 0.4 ha



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<https://taat.africa/tup>

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