

Leaf-bud Cuttings: Rapid Yam Multiplication Method

Yam leaf-bud cuttings, rapid quality seed production!

This technology turns yam vines into 30–50 seed plants through nursery propagation. It cuts costs, reduces transport burdens, and frees food-grade tubers for market. A profitable, scalable solution for seed businesses in the yam value chain.



This technology is **pre-validated**.

9-7



Scaling readiness: idea maturity: 9/9; level of use: 7/9



Open source / open access

Problem

- Farmers often sell leftover or poor-quality seeds, which results in low trust and crop failure.
- High seed costs (up to 60% of total costs) discourage investment in yam production.
- Lack of dedicated seed producers prevents development of a reliable commercial seed value chain.
- The seed yam market is informal, with no structured production or quality control systems in place.

Solution

- Vine cuttings unlock a high-volume, low-cost seed market with cleaner, uniform planting materials.
- Using discarded vines adds value and cuts logistics costs, increasing business profitability.
- Faster multiplication supports quicker spread of improved yam varieties and stronger customer loyalty.

Key points to design your business plan

Leaf-bud Cutting offers a high-return opportunity to scale seed yam production with minimal land and input costs. With a 1:300 multiplication rate, businesses can meet market demand, reduce seed costs by over 60%, and deliver disease-free planting materials to farmers at scale. To integrate it in your business,

- Invest in specialized vine nurseries and tissue culture units for consistent year-round seed yam supply.
- Partner with aggregators and agrodealers to create supply chains linking vine-based seed production to commercial yam growers.

Inclusion assessment



Climate impact



IITA

Beatrice Aighwi

Commodities

Yam

Sustainable Development Goals



Categories

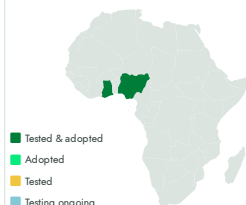
Pre-production, Practices, Seed system

Best used with

Semi-Autotrophic Hydroponics for yam multiplication

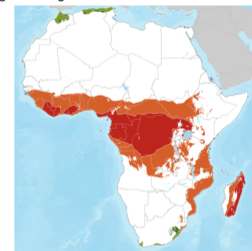
See all 1 technologies online

Tested/adopted in



Where it can be used

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



Target groups

Farmers, Seed companies,



Leaf-bud Cuttings

<https://taat.africa/xds>

Last updated on 1 July 2025, printed on 1 July 2025

Enquiries e-catalogs@taat.africa