SAH: Semi-Autotrophic Hydroponics for yam multiplication

Multiplying Seeds, Securing Harvests, Ensuring Food Security!

SAH is a low-cost licensed technology designed for mass multiplication of yam through leaf nodal cuttings, which are grown in a sterile planting medium such as peat moss, decomposed sawdust, rice husk, or cocopeat. These cuttings are placed in transparent plastic containers under controlled conditions, where they develop roots, shoots, and eventually tubers.



- Seed Shortage: The limited supply of quality yam seed restricts production and food availability.
- High Cost: Farmers spend up to 50% of total production costs on seed, making yam farming expensive.
- Food Loss: Farmers use up to 33% of their previous harvest for replanting, reducing the amount available for consumption and sale.
- Increased Seed Supply: SAH technology provides a reliable, cost-effective way to multiply yam planting materials.
- Lower Production Costs: Reduces the cost of seed, making yam farming more affordable for farmers and agribusinesses.
- Year-Round Availability: Ensures a consistent supply of high-quality seed for both small-scale farmers and commercial seed enterprises.

Key points to design your business plan

SAH Yam Technology offers a cost-effective solution for rapid, high-quality yam multiplication, addressing propagation and contamination issues.

- It's ideal for scattered farming communities and can be scaled through partnerships with distributors and seed systems.
- Ensure compliance with regulations and obtain licenses for operation.
- Key partners include plantlet multipliers and seed distributors.



6 5 Climate impact



SAH

https://e-catalogs.taat-africa.org/com/technologies/sah-semi-autotrophic-hydroponics-for-yammultiplication

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International Institute of Tropical Agriculture (IITA)

Pelemo Olugboyega Success

CGIAR

Categories

Production, Practices, Yield improvement, Seed system

Tested/adopted in



Where it can be used

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



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