

SAH cassava Semi Autotrophic Hydroponics for Cassava Multiplication

A rapid quality seed delivery technology for cassava

SAH for Cassava Multiplication is an innovative technology using controlled environments for cost-effective and adaptable cassava propagation. It fosters robust root growth, reduces diseases, and yields high-quality plantlets, expediting access to new cassava varieties and boosting overall productivity in farming.



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This technology is **TAAT1 validated**.

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

Gender assessment **4**

Climate impact **7**

Problem

- Traditional methods are time-consuming.
- Conventional propagation prone to pests and diseases.
- Seed and tissue culture methods have low multiplication ratios.
- Stem cuttings may be more susceptible to pests and diseases when planted in open fields.

Solution

- SAH enables rapid access to new cassava varieties.
- Creates a controlled environment for healthy root growth.
- SAH significantly improves ratios compared to seed and tissue culture.
- Planting materials from SAH are more resilient and less susceptible to pests and diseases in open fields.

Key points to design your project

To integrate the technology, estimate plantlet quantities, consider delivery costs, and account for training and communication support.

Additionally, optimize by combining the technology with disease-resistant and golden cassava varieties.

Collaboration with agricultural institutes and seed multiplication companies is recommended for implementation in your country.

Cost: \$\$\$ **10,000 USD**

Setup up for a 40 sq. meter facility

ROI: \$\$\$ **80 %**

over one year

0.05 USD

operating cost per plant

0.05 - 1 USD

Production cost

116 %

ROI over 3 year

IP

Unknown

Technology originally documented by

ProPAS

Commodities

Cassava

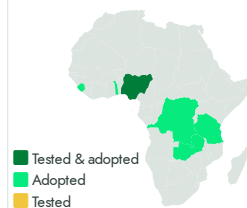
Sustainable Development Goals



Categories

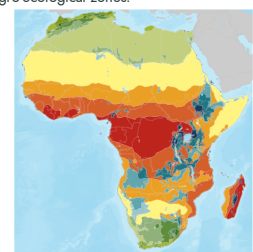
Production, Practices, Seed system

Tested/adopted in



Where it can be used

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



Target groups

Farmers



SAH cassava

<https://e-catalogs.taatafrica.org/gov/technologies/sah-cassava-semi-autotrophic-hydroponics-for-cassava-multiplication>

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