

# 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.



**IITA**  
Transforming African Agriculture

**International Institute of Tropical Agriculture (IITA)**  
Mercy Elohor Diebiru-Ojo



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.

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



Unknown

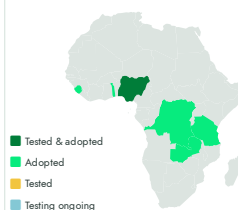
Sustainable Development Goals



Categories

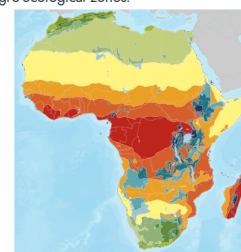
Production, Practices, Seed system

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/org/technologies/sah-cassava-semi-autotrophic-hydroponics-for-cassava-multiplication>

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Enquiries [e-catalogs@taatafrica](mailto:e-catalogs@taatafrica)