

## TAAT e-catalog for **private sector**

# 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





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



Sustainable Development Goals







This technology is **TAAT1 validated**.

(Cost: \$\$\$) 10,000 USD

9.9

0.05 USD

Setup up for a 40 sq. meter facility

116 %

**◯**IP

operating cost per plant

0.05 - 1 usp Production cost

ROI over 3 year

Unknown

#### **Problem**

- · Traditional methods are time-consuming.
- · Conventional propagation prone to pests and
- · 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

ROI: **\$\$\$** 

over one year

- · Creates a controlled environment for healthy root
- · 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.

### Categories

Production, Practices, Seed system

Tested/adopted in Tested & adopted Adopted



## Key points to design your business plan

This technology is beneficial for two main groups: manufacturers (multipliers), and end users (farmers):

To efficiently multiply plantlets, one must construct a growth chamber, obtain seeds from disease-free cassava varieties, and organize marketing and delivery through existing suppliers.

Users benefit from quick access to high-quality planting materials, and partnerships with plantlet multipliers are key.

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

Target groups

Farmers

Gender assessment



Climate impact



