

## 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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Technology from

access to new cassava varieties and boosting overall productivity in farming.				ProPAS
This technology is <b>TAAT1 validated</b> .		<b>9·9</b> Scaling readiness: idea maturity: 9/9; level of use: 9/9		Commodities Cassava
Cost: \$\$\$ <b>10,000 USD</b> Setup up for a 40 sq. meter facility		ROI: \$\$\$ 80 % over one year		Sustainable Development Goals           1 royann         2 ratio         3 scop rev.tm
<b>0.05 USD</b> operating cost per plant	<b>0.05 - 1 USD</b> Production cost	<b>116 %</b> ROI over 3 year	<b>DIP</b> Unknown	
<ul> <li>Problem</li> <li>Traditional methods are time-consuming.</li> <li>Conventional propagation prone to pests and diseases.</li> <li>Seed and tissue culture methods have low multiplication ratios.</li> <li>Stem cuttings may be more susceptible to pests and diseases when planted in open fields.</li> </ul>		<ul> <li>Solution</li> <li>SAH enables rapid access to new cassava varieties.</li> <li>Creates a controlled environment for healthy root growth.</li> <li>SAH significantly improves ratios compared to seed and tissue culture.</li> <li>Planting materials from SAH are more resilient and less susceptible to pests and diseases in open fields.</li> </ul>		Categories Production, Practices, Seed system Tested/adopted in
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 agroecological zones.
				Target groups

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Climate impact



Gender assessment 🚺 4

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Farmers