

# Propagation of Disease-Cleaned Suckers

## Propagate Success with Clean Suckers

Macro-propagation involves two techniques: field-based (decapitation) and detached corm (beds). It ensures disease-free seedlings, promoting uniform growth and stress resistance. Clean knives and hardened sprouts are vital for success.



Complete decapitation with excised meristem (top) and sprouting suckers (bottom)



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Technology originally documented by

ProPAS

Commodities

Banana/Plantain

Sustainable Development Goals



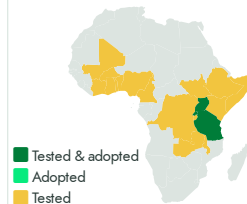
Categories

Production, Practices, Seed system

Best used with

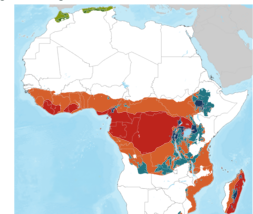
- [Improved Varieties of Plantain for Tropical Lowlands >](#)
- [Improved Varieties of Banana for the African Highlands >](#)

Tested/adopted in



Where it can be used

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



✓ This technology is **TAAT1 validated**.

**8·8** Scaling readiness: idea maturity 8/9; level of use 8/9

Gender assessment **4**

Climate impact **7**

### Problem

- Natural regeneration often results in contaminated banana and plantain planting materials, harming productivity and lifespan.
- Traditional methods result in non-uniform growth, affecting the overall efficiency of banana and plantain cultivation.
- Conventional methods may lead to stress-prone plantlets, negatively impacting their adaptation and performance in the field.

### Solution

- Macro-propagation ensures the production of banana and plantain seedlings free from pests and diseases, promoting healthier and more resilient crops.
- Macro-propagation contributes to increased productivity and prolonged lifespan of banana and plantain plants.
- This technique reduces financial barriers by offering a low-cost method of obtaining disease-free seedlings.
- Macro-propagation ensures more uniform growth of banana and plantain seedlings.

Cost: **\$\$\$** **1500 USD** per 8000

**plantlets**

Nusery four months maintenance

ROI: **\$\$** **725—1050 USD**

Net profit per cycle

**340 USD**

2,500 plantlets shade house

**2,300 USD**

Cost of chamber of 8,000 plantlets



Open source / open access



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<https://e-catalogs.taatafrica.org/org/technologies/propagation-of-disease-cleaned-suckers>

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