Improved Varieties of Plantain for Tropical Lowlands

Better Plantain Varieties for Thriving Farmers

The "Improved Varieties of Plantain for Tropical Lowlands" makes stronger and healthier plantains that can resist diseases and pests. It does this by mixing different kinds of plantains to create new varieties. These special plantains grow well in different climates and have more leaves and fruits.

This technology is TAAT1 validated.

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

290—1000 USD
Planting material/ha

ROI: $$$ **500 %**
Benefit to cost advantages starts from the second cycle harvest onwards

1400 USD
Production inputs and labor per ha

IP
Open source / open access

Problem

- Black leaf streak disease causing significant yield losses ranging from 33% to 50%.
- Weevils and nematodes undermining corm and root systems.
- Declining soil fertility due to poor management practices.

Solution

- This technology aims to combat black leaf streak disease, weevils, and nematodes.
- Focus on high productivity and drought resilience to mitigate yield losses.
- Emphasis on preferred cooking traits to meet consumer preferences.
- Adaptation to diverse climatic and production conditions.

Key points to design your business plan

Improved Varieties of Plantain technology presents a significant opportunity for both seed multipliers and users, such as farmers and aggregators.

- The process of multipliers involves procuring registered seeds and obtaining certificates for seed multiplication, adhering to specific licensing requirements in Sub-Saharan African countries.
- The users need key partnerships with seed multipliers , considering delivery expenses and potential import duties is crucial, as Improved Varieties of Plantain technology is available in several countries. Estimating costs.
- For both, evaluating the profit potential of this technology is essential for successful implementation.

Gender assessment 3

Climate impact 7

International Institute of Tropical Agriculture (IITA)
Moses Nyine

Technology from

ProPAS

Commodities

Banana/Plantain

Sustainable Development Goals

Categories

Production, Improved varieties, Disease resistance, Insect resistance, + 0 more

Best used with

- In-Vitro Banana Tissue Culture Propagation ›
- Propagation of Banana and Plantain Disease-Cleaned Suckers ›
- Intercropping Strategies for Banana and Plantain ›
- Spacing and Stand Management in Banana and Plantain ›
- Banana Peels as Feed and Organic Resource ›
- Value-added Processing of Bananas and Plantain ›

Tested/adopted in