

# Specialty Fertilizers and Local Blending for Banana and Plantain

Fertilize for Success: Banana & Plantain Boost

The technology of Specialty Fertilizers and Local Blending for Banana and Plantain involves creating tailored fertilizer blends to enhance banana and plantain yield in Sub-Saharan Africa. It adapts to soil characteristics, improves crop resilience, and increases productivity and nutritional value. It's a cost-effective solution for farmers.



**International Institute of Tropical Agriculture (IITA)**  
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Technology from

[ProPAS](#)

Commodities

Bananas & plantains

Sustainable Development Goals



Categories

Production, Inputs, Fertilizer

Best used with

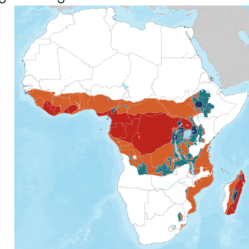
Improved Varieties of Plantain for Tropical Lowlands, Improved Varieties of Banana for the African Highlands  
See all 2 technologies online

Tested/adopted in



Where it can be used

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



Target groups

Farmers

This technology is **TAAT1 validated**.

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

Inclusion assessment **4**

Climate impact **7**

## Problem

- **Nutrient Deficiency:** Poor soil nutrients lead to low crop yields.
- **Environmental Stresses:** Crops are vulnerable to drought, pests, and diseases.
- **Climate Change:** Drought due to climate change affects crop health and productivity.

## Solution

- **Nutrient Supply:** Provides balanced nutrients, improving crop growth and yield.
- **Crop Resilience:** Strengthens crop resilience to environmental stresses.
- **Climate Adaptability:** Helps crops withstand impacts of climate change.

## Key points to design your program

Specialty Fertilizers and Local Blending for Banana and Plantain can be integrated into food security, soil fertility management, climate resilience, and banana and plantain value chain programs to improve soil health, increase productivity, and strengthen crop resilience. Its adoption contributes to **SDGs 1, 2, 13, and 15**.

To integrate this technology into your project, plan and budget for the following activities and prerequisites:

- Facilitate access to specialty fertilizer blends, local blending services, and soil testing.
- Build partnerships with IITA, fertilizer companies, research institutes, extension services, cooperatives, and private sector actors.
- Train farmers on nutrient management, fertilizer blending, and climate-smart farming practices.
- Promote women's and youth participation and support demonstration activities.
- Monitor fertilizer adoption, crop productivity, soil fertility improvements, and farmer outreach

**6 ton/ha**  
yield increase

**IP**  
Open source / open access



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<https://taat.africa/sav>

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