

Mechanized Cassava Planting and Harvesting

Empowering Cassava Farmers: More Yield, Less Labor, Better Quality



International Institute of Tropical Agriculture (IITA)
Adebayo Abass

Mechanized cassava planting and harvesting technology is a specialized equipment of two-row planters and harvesters, typically operated by tractors. This technology improves the efficiency of cassava farming by reducing labor requirements.

This technology is **TAAT1 validated**.

 Scaling readiness: idea maturity: 8/9; level of use: 7/9

Cost: \$\$\$ 367 USD Mechanical cassava production		50 % Reduced of manual cost operation
13 USD/ha Cost of mechanized planting	25 USD/ha Cost of mechanized harvesting	IP Open source / open access

Problem

- Low cassava yields (10 t/ha) compared to global competitiveness (minimum expected yield of 25 t/ha).
- Labour-intensive and time-consuming planting and harvesting operations.
- Lack of mechanization and use of modern agricultural technologies in cassava production.

Solution

- Increase productivity and efficiency in cassava farming. The yield from mechanically managed farm could increase by 38% over the yield in the manually managed farm.
- Reduce production costs associated with manual labor.
- Improve competitiveness of the cassava sub-sector by enhancing productivity and reducing costs through mechanized operations.

Key points to design your business plan

The Mechanized Cassava Planting and Harvesting technology presents opportunities for fleet managers and users (farmers).

To integrate it in your business,

- Source equipment from countries like Ethiopia, Kenya, Nigeria, Tanzania, Zambia, and Zimbabwe.
- Identify efficient transportation methods and suitable storage facilities.
- Determine costs based on technology size, including transport, import duties, and taxes.
- Consider cost structures, including self-contained planting and harvesting machines.

Technology from
ProPAS

Commodities
Cassava

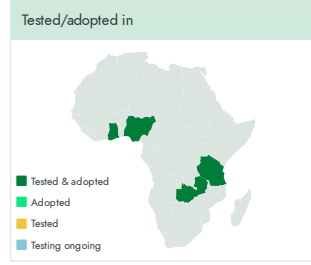
Sustainable Development Goals

2 ZERO HUNGER

5 GENDER EQUALITY

13 CLIMATE ACTION

Categories
Production, Equipment, Land preparation



Where it can be used

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

Target groups
Farmers

Gender assessment 4

Climate impact 7