

Mechanized Cassava Planting and Harvesting

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




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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](#). 8-7  Scaling readiness: idea maturity: 8/9; level of use: 7/9

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

Technology from **ProPAS**

Commodities
Cassava

Sustainable Development Goals



Problem

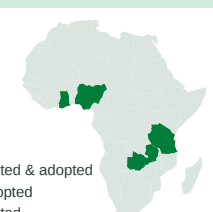
- Low cassava yields (10 t/ha) compared to global competitiveness (minimum expected yield of 25 t/ha).
- Labour-intensive and time-consuming planting and harvesting operations.
- Lack of mechanization and use of modern agricultural technologies in cassava production.

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.

Categories
Production, Equipment, Land preparation

Tested/adopted in



■ Tested & adopted
■ Adopted
■ Tested

Key points to design your business plan

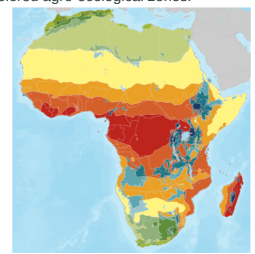
The Mechanized Cassava Planting and Harvesting technology presents opportunities for fleet managers and users (farmers).

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.

Where it can be used

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



Target groups
Farmers

Gender assessment 8-4

Climate impact 8-7

