

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**.

8·7



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

Gender assessment **4**

Climate impact **7**

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 project

The Mechanized Cassava Planting and Harvesting technology offers an efficient solution for planting and harvesting cassava. To integrate this technology, into your project,

- Promote it through demonstration sessions, provide training to operators, and ensure access to suitable farmland.
- Components of mechanized cassava production include land preparation, planting, herbicide application, fertilization, weeding, harvesting, and transportation.
- Evaluate the size and number of units needed, considering lower costs compared to manual operations.

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



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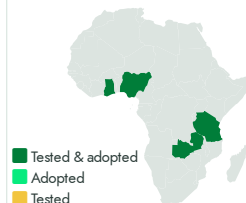
Sustainable Development Goals



Categories

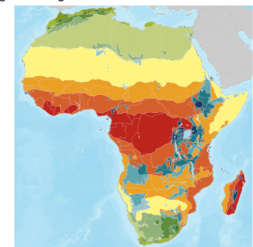
Production, Equipment,
Mechanized farming

Tested/adopted in



Where it can be used

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



Target groups

Farmers



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<https://e-catalogs.taatafrica.org/gov/technologies/mechanized-cassava-planting-and-harvesting>

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Enquiries techs@taatafrica.org