

Mobile Cassava Processing Plant

Transforming Cassava, Mobile Processing for Sustainable Agriculture

The MCPP is a mobile unit equipped with machinery for processing cassava into products like high-quality cassava cake, wet fufu, and gari. It features a flatbed workspace formed by opening the back sides and tailgate, with standard operating procedures for specific products.



IITA
Transforming African Agriculture

International Institute of Tropical Agriculture (IITA)
Adebayo Abass



This technology is **TAAT1 validated**.

6•6



Scaling readiness: idea maturity 6/9; level of use 6/9

Gender assessment

4

Climate impact

4

1

Problem

- Limited market access for cassava farmers in rural areas due to inaccessible rural roads
- High risk of postharvest losses and transportation costs due to cassava's perishability and bulkiness
- Lack of necessary infrastructure (electricity, water, etc.) and labor in rural areas to attract investments in processing factories
- Inconsistent and inadequate supply of cassava roots for processors

Solution

- The MCPP is most useful for processing factory owners to process cassava at farm-gate into non-perishable semi-processed products that are 20-50% of the weight of fresh roots.
- The less bulky semi-processed products are transported from the farms at lower transportation cost to city-based factories for final drying and packaging at a competitive price and higher profitability.

Key points to design your program

The Mobile Cassava Processing Plant improves cassava production by reducing post-harvest losses and bringing processing facilities closer to farmers. In Nigeria, IITA's demonstration of this plant to a farmers' group from ABEOCCIMA spurred interest in acquiring it for six local government areas to strengthen cooperative businesses.

This technology supports multiple SDGs by increasing farmers' income (1), enhancing food security (2), empowering women (5), creating jobs and economic growth (8), boosting rural infrastructure and innovation (9), promoting efficient resource use (12), and reducing greenhouse gas emissions (13).

As part of the Cassava Toolkit, it complements improved cassava varieties with high dry matter and starch content. These "Golden" varieties have been introduced in Burundi, DR Congo, Kenya, Rwanda, South Sudan, Tanzania, and Uganda under the ENSURE project.

Technology from

ProPAS

Commodities

Cassava

Sustainable Development Goals



Categories

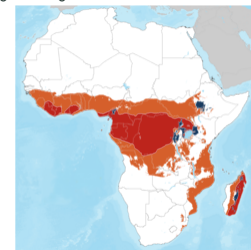
Transformation, Equipment,
Agri-food processing

Tested/adopted in



Where it can be used

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



Target groups

Processors

Cost: \$\$\$ **40000—48500**

USD

Cost of a mobile processing factory

ROI: \$\$\$ **156 %**

Gari production

52900 USD

Startup Capital (gari production)

49386 USD

Startup capital (high-quality cassava cake)

155 %

ROI (high-quality cassava cake)



Open source / open access



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<https://taat.africa/xob>

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