



## Cassava varieties with high dry matter and starch content

Enhancing cassava yields and quality for greater food security in Africa.

This technology involves improved varieties of cassava with enhanced dry matter content. Through conventional breeding and other methods, these cassava varieties have been developed. These high-quality roots are well-suited to the needs of farmers and various industrial processes.





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Technology from

ProPAS

Commodities

Cassava

Sustainable Development Goals









#### Categories

Production, Improved varieties,
Yield improvement, Quality improvement

#### Best used with

• <u>Digital Decision Support</u> <u>Tool</u> >

# Tested/adopted in Tested & adopted Adopted Tested Tested Testing ongoing

#### Where it can be used

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





This technology is **TAAT1** validated.

8.8

8/9: level of use 8/9

Gender assessment



Climate impact



#### Problem

- Low Dry Matter and Starch Content:
   Traditional cassava varieties often have low dry matter and starch content, reducing their economic value and utility in food and industrial applications.
- Limited Variety Options: Farmers have limited access to high-quality cassava varieties, which restricts their ability to improve crop yields and quality.

#### Solution

- Higher Dry Matter and Starch Content: Improves root quality for fresh consumption and industrial processing. Ideal for producing flour, starch, and other industrial products, supporting local agri-businesses.
- Increased Economic Yields: Better quality and higher yield of cassava roots lead to higher economic returns.
- Adaptability: Bred to be resistant to pests, diseases, and adverse growing conditions, making them suitable for various environments.

### Key points to design your program

#### A Solution for Cassava Cultivation

Improved cassava varieties with high dry matter and starch content tackle challenges such as low yields, poor root quality, and vulnerability to diseases. These varieties are ideal for fresh consumption and industrial uses, including starch, flour, and ethanol production, offering higher productivity and economic benefits for farmers and processors.

As part of the Cassava Toolkit, they synergize with other innovations to improve efficiency and sustainability:

- Mechanized Cassava Planting and Harvesting: Reduces labor and increases efficiency in planting and harvesting.
- Mobile Cassava Processing Plant: Minimizes post-harvest losses through on-site processing.
- <u>Semi-Autotrophic Hydroponics (SAH) for Cassava Multiplication:</u> Accelerates production of diseasefree planting materials.
- Cassava Seed-Bulking Farms: Ensures a steady supply of pest- and disease-free cassava cuttings.
- Solar Bubble Dryer: Improves drying efficiency and product quality.

By integrating these technologies, stakeholders can achieve higher yields, better quality, and increased profitability while advancing sustainable cassava farming practices.





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