

# Disease resistant cassava varieties

## Disease-Resistant Cassava Cuttings for Higher Yields

"Disease Resistant Cassava Varieties" are specially bred to withstand common viral diseases like cassava mosaic and cassava brown streak in sub-Saharan Africa. Those varieties help farmers protect their crops, increase yields, and improve food security. Ongoing breeding programs aim to find more varieties for sustainable cassava production.



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Technology from

ProPAS

Commodities

Cassava

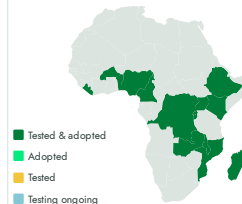
Sustainable Development Goals



Categories

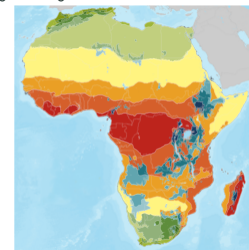
Production, Improved varieties,  
Disease resistance

Tested/adopted in



Where it can be used

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



Target groups

Farmers, Seed companies



This technology is **TAAT1 validated**.



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

Cost: \$\$\$\$ **30—35 USD**

1 ha of planting materials of elite cassava varieties

**15—20 %**

Incidences of cassava mosaic disease with resistant varieties

## Problem

- Viral diseases damage cassava leaves, reducing photosynthesis and causing significant yield losses.
- Current disease control methods for cassava are ineffective against viral pathogens.
- Farmers in African countries experience yield losses ranging from 20% to 95%, valued at approximately US\$1,200 – 2,300 million.

## Solution

- Disease-resistant cassava varieties significantly reduce infection rates and yield losses.
- Genes from wild types are transferred into improved cassava varieties through conventional crossing techniques, offering a cost-effective approach.
- Many resistant cassava varieties also exhibit comprehensive resistance to other major cassava pathogens, benefiting integrated crop health management by farmers.

## Key points to design your business plan

This technology benefits both seed multipliers and users:

For Seed Multipliers:

- Certification is necessary for the multiplication and sale of cuttings from disease-resistant cassava varieties.
- Potential customers for this technology include farmers, development projects, government agencies, and NGOs.

For Users:

- Key partners required are cassava variety multipliers with high dry matter and starch content.
- Planting materials typically range between USD 30 to 35 per hectare in local markets across Sub-Saharan Africa.

Gender assessment



Climate impact



Disease resistant cassava varieties

<https://taat.africa/xfn>

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