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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This technology is TAAT1 validated.

7·7 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 4

Climate impact 7

Technology from

ProPAS

Commodities

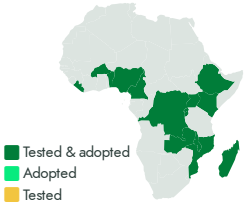
Cassava

Sustainable Development Goals

Categories

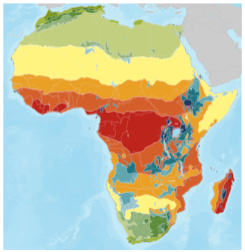
Production, Improved varieties, Disease resistance

Tested/adopted in



Where it can be used

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



Target groups

Farmers, Seed companies