



# Waxing of fresh cassava roots to extend the shelf-life and increase marketability





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Technology from

**ProPAS** 

Commodities

Cassava

Sustainable Development Goals





### Categories

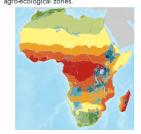
Prevention & storage, Practices,
Post-harvest management

### Tested/adopted in



### Where it can be used

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



Target groups

Farmers

Extend shelf-life of fresh cassava

The waxing technology for cassava roots starts from careful cultivation to produce commercially acceptable roots. Before harvest, leaves are pruned to prevent damage. After harvest, roots are sorted, washed, weighed, disinfected, and dried at a pack-house. Finally, a food-grade wax is applied to extend their shelf-life.



This technology is **TAAT1** validated.

7.7



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

Gender assessment



Climate impact



### Problem

- **Deterioration**: Cassava roots deteriorate rapidly post-harvest.
- Marketability: Their size, shape, and harvest damage affect marketability.
- Food Security: Short shelf-life limits availability, affecting food security.

## Solution

- Preservation: Waxing extends freshness and protects cassava roots.
- **Shelf-life**: It significantly extends the roots' shelf-
- Food Security: The technology enhances food security by ensuring longer availability of cassava

# Key points to design your project

The waxing technology for cassava roots boosts climate resilience and aligns with SDGs 2, 8, and 13 by extending shelf-life, enhancing marketability, and promoting a climate-resilient crop.

For its adoption, the following steps are essential:

- Training and Cultivation: Conduct educational programs on the waxing technology and guide farmers on producing commercially viable cassava roots.
- Harvesting and Post-Harvest Handling: Train farmers on pruning and harvesting to avoid damage, and
  instruct on post-harvest procedures including transporting, sorting, washing, weighing, and disinfecting the
  roots.
- 3. **Waxing and Pack-house Operations**: Demonstrate the process of drying and waxing the roots, and assist in setting up a pack-house if necessary.
- Market Linkages and Evaluation: Establish market linkages for selling waxed cassava roots, and monitor the technology's adoption and evaluate its impact.

126 USD/ton total cost for waxing

**32** %

Marginal rate compared to unwaxed roots

3,000-5,000 usp

- Vı

Estimated investment cost for an "all-inclusive" packhouse or processing centre, including water supply

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