

Disease Resilient and Market-Preferred Tomato Varieties

Better yield, less disease, more income



World Vegetable Center
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These improved tomato varieties can strengthen the vegetable sector and support food sovereignty. They help reduce losses, increase productivity, and improve access to urban markets. They can also be produced locally by seed companies, reducing seed imports and supporting a stronger national seed system. Overall, they help build a more efficient and competitive tomato value chain.

This technology is **pre-validated**.

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

Inclusion assessment

Climate impact **7**

Problem

- Tomato diseases cause major production losses in affected areas.
- Farmers lose income and may abandon tomato production.
- Tomato support programs deliver weak results without resilient varieties.

Solution

- Variety choice reduces tomato crop failure from bacterial wilt and tomato yellow leaf curl virus.
- Documented cycle and yield support better planning and targeting.
- Open-pollinated seed multiplication supports sustainable seed supply.

Commodities

Tomato

Sustainable Development Goals



+ 1 more

Categories

Production, Improved varieties,
Disease resistance, Yield improvement

Best used with

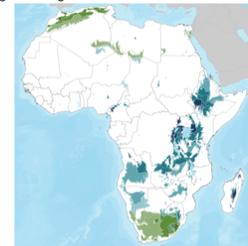
Zero Energy Cooling Chamber for Vegetables
See all 1 technologies online

Tested/adopted in



Where it can be used

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



Target groups

Producers, Farmers, Seed companies

Key points to design your project

- **Secure quality seed supply** by working with the World Vegetable Center and licensed seed companies, and involve national seed services early for registration, licensing, and import clearance when needed.
- **Target the right zones and the right risks** by using local data to prioritize areas with high bacterial wilt and tomato yellow leaf curl virus pressure, where farmers face repeated crop failure.
- **Match varieties to local conditions and markets** by selecting resistant or tolerant varieties for disease-prone areas and choosing fruit types that fit local fresh market demand.
- **Plan implementation around the cool season** and align input delivery and extension support with planting calendars to capture the strongest performance.
- **Demonstrate, train, and scale** through demonstration plots, extension-led farmer training, and simple monitoring of adoption, disease incidence, and yield results over seasons.

3703 USD

Cost per season per hectare

10868 USD

Revenue per season per hectare

7165 USD

Net income per season per hectare

193 %

ROI per season



Open source / open access



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<https://taat.africa/apb>

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