

Climate-Smart and Market-Preferred Yam Varieties

More yield, better quality, stronger resilience!

Improved yam varieties are inclusive, climate-smart solutions that triple productivity while reducing losses from pests, diseases, and climate stress. With strong consumer and processor demand, they improve nutrition, strengthen seed systems, and open opportunities for women and youth in the yam value chain.



International Institute of Tropical Agriculture (IITA)
Pelemo Olugboyege

Commodities

Yam

Sustainable Development Goals



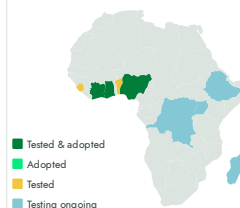
Categories

Pre-production, Improved varieties, Disease resistance, Yield improvement

Best used with

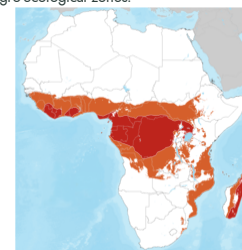
Semi-Autotrophic Hydroponics for yam multiplication
See all 1 technologies online

Tested/adopted in



Where it can be used

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



Target groups

Farmers, Seed companies, Researcher center, Advisory and Extension Services

This technology is **pre-validated**.

9-7



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

Inclusion assessment

Climate impact



Problem

- Low yields keep smallholders in poverty and food insecurity.
- Pest/disease outbreaks drive crop losses and pesticide reliance.
- Farmers lack access to affordable planting material.
- Yam production vulnerable to drought and poor soils.

Solution

- Tripling productivity to raise incomes and food security.
- Reducing pesticide dependence through resistant varieties.
- Affordable seed systems enable broad farmer access.
- Climate resilience safeguards harvests in tough conditions.
- Inclusive value chains empower women and youth.

Key points to design your program

Improved yam varieties tackle production constraints like low yields, pests, long maturity, and climate stress. They promote SDGs 1 (poverty reduction), 2 (food security), 13 (climate resilience), and 15 (biodiversity). Promoted through partnerships across Nigeria, Ghana, Côte d'Ivoire, and Benin. Supports seed systems, gender inclusion, and market access. Ideal for development programs, governments, and private sector for resilient yam farming.



Open source / open access



Climate-Smart and Market-Preferred Yam Varieties

<https://taat.africa/aru>

Last updated on 3 November 2025, printed on 3 November 2025

Enquiries e-catalogs@taat.africa