

Seed Tracker: Digital Tool for Strengthening Seed Governance and Certification Systems

Build an efficient seed system!

Seed Tracker is a web- and mobile-based application designed for national and decentralized seed system management. It enables registration of seed producers and fields, records inspection activities, provides real-time access to certification status, and generates georeferenced data for decision-making. It works offline and in multiple languages, making it suitable for rural deployment. Regulatory agencies can use it to oversee field activities remotely, support decentralized certification, and build national seed databases.



Seed Tracker™



This technology is **pre-validated**.



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

Inclusion assessment



Climate impact



Problem

- Fragmented seed certification systems:** Many countries still rely on paper-based, decentralized systems, making it difficult for regulators to ensure compliance and quality.
- Limited oversight in rural areas:** National agencies struggle to monitor seed activities in distant communities.
- Weak data systems:** Planning for seed demand, pest outbreaks, and variety deployment is limited due to poor data availability.

Solution

- Centralized certification and registration system:** Allows regulators to digitally record and validate seed field inspections and certification at all levels.
- Digital traceability:** Tracks each seed lot from registration to sale, helping prevent fraud and improving transparency.
- Georeferenced seed data:** Provides evidence for better planning, resource allocation, and response to seed system gaps.

Key points to design your project

The **SeedTracker** technology ensures traceability and quality assurance for cassava planting materials, enhancing smallholder farmers' access to high-quality, climate-resilient varieties.

- It supports national priorities on climate resilience, gender inclusion, and SDGs, empowering governments to make data-driven decisions.
- Key activities include stakeholder mobilization, capacity building, digital certification integration, real-time monitoring, and impact tracking. A toolkit with training materials and dashboards is available to support implementation.



IP

No formal IP rights



Seed Tracker

<https://taat.africa/zzj>

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International Institute of Tropical Agriculture (IITA)

Lava Kumar

Commodities

All Crops

Sustainable Development Goals



Categories

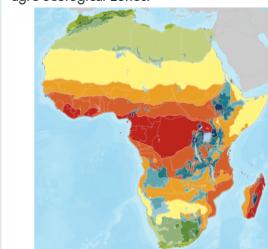
Pre-production, Digital applications, Supply chain management, Advisory and information service, + 0 more

Tested/adopted in



Where it can be used

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



Target groups

Seed companies, Advisory and Extension Services