

iSAT: Intelligent Agricultural Systems Advisory Tool for Climate Risk Management and Farm Decision-Making



Turning climate forecasts into actionable farm guidance!

iSAT is a digital advisory platform that enables the delivery of precise agricultural recommendations to farmers based on their location, crops, and real-time climate conditions. It transforms climate and agronomic data into actionable advice using decision tree logic, helping farmers make better choices on inputs, planting, and farm management throughout the season.

This technology is **pre-validated**.

8-7



Scaling readiness: idea maturity 8/9; level of use 7/9



Open source / open access

Problem

- Difficulty reaching farmers with **personalized and timely agricultural advice at scale**
- Inefficient use of inputs (fertilizer, seeds, water) due to **lack of precise, climate-based guidance**
- Low farmer responsiveness caused by **generic or delayed advisory services**
- Limited tools to support **data-driven agricultural service delivery models**

Solution

- Enable **scalable delivery of personalized agricultural advice** to farmers
- Increase adoption of inputs through **climate- and location-based recommendations**
- Improve efficiency of fertilizer, seed, and water use with **timely decision support**
- Support development of **custom digital advisory services and business models**

Key points to design your business plan

iSAT helps agribusinesses turn climate data into personalized advisory services that improve farmer decisions, strengthen trust, and expand market reach at low cost.

- Deliver personalized climate-smart advice linked to your products
- Improve use of seeds, fertilizer, and farm inputs
- Reach farmers via SMS, IVR, apps, radio, voice services
- Maintain continuous engagement across the farming season
- Integrate into existing digital agriculture and input systems
- Use farmer feedback to improve services and identify opportunities

Inclusion assessment

10

5

6

Climate impact

2

ILRI
INTERNATIONAL
LIVESTOCK RESEARCH
INSTITUTE

International Livestock
Research Institute (ILRI)
Jacob Emanuel

Technology from

PRMS

Commodities

Maize, Cowpea, Groundnut, Millet

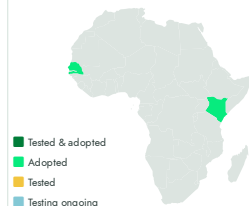
Sustainable Development Goals



Categories

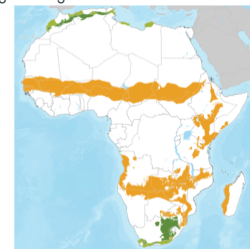
Digital applications,
Digital Advisory and Extension

Tested/adopted in



Where it can be used

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



Target groups

Farmers, Advisory and Extension Services,



iSAT

<https://taat.africa/blc>

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