

AgWise: Planting Date & Variety Recommendations

Plant the Right Variety, in the Right Place, at the Right Time.

AgWise operates as a strategic decision-support infrastructure by integrating national weather forecasts, satellite imagery, and agro-ecological models. It provides optimal planting windows and strategic guidance for zone-based varietal deployment. This scientific foundation allows Ministries to align input distribution schedules and extension campaigns with actual climate realities, stabilizing yields and reducing planting failures.



CGIAR Sustainable Farming Program
Wuletawu Abera

Technology from

CASH from EIA

Commodities

Rice, Maize, Soybean, Wheat, Cassava, Potato

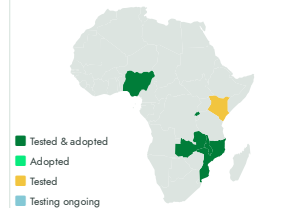
Sustainable Development Goals



Categories

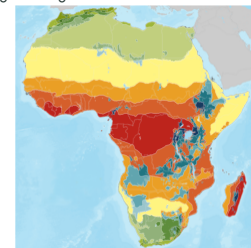
Production, Digital applications, Advisory and information service, Crop management

Tested/adopted in



Where it can be used

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



Warning: This technology is **not yet validated**.

7.5



Scaling readiness: idea maturity 7/9; level of use 5/9

Inclusion assessment

4

Climate impact

7

Problem

- Static calendars prevent alignment of national planting campaigns with real weather patterns.
- Lack of agro-ecological zoning tools promotes improved varieties poorly adapted to local environments.
- Planning misalignment reduces national crop yields and leads to the inefficient use of resources (water/fertilizers).
- Ministries lack tools to transform forecasts into actionable advice, relying on expensive, reactive crisis management.

Solution

- **Distribute Seeds Strategically**
Align varieties with suitable agro-ecological zones.
- **Support Zoning and Planning**
Use data to update seed zoning and extension tools.
- **Update Seed Catalogues**
Add zone-specific recommendations for each variety.

Key points to design your project

AgWise is a modular digital platform that delivers precise agronomic advice — weather advisories, variety choice, fertilizer recommendations and optimal planting dates — using empirical and process-based analytics to boost smallholder productivity, profitability and resilience.

Integrating AgWise requires: committed partners (research, extension, EIA), simple multi-channel interfaces, hands-on training and field support, demonstration plots, and a feedback loop for continuous improvement.

Key requirements: geo-tagged agronomic data, soil & weather maps, seasonal forecasts, empirical/process models, R-based workflows and adequate compute/storage.



Unknown



AgWise

<https://taat.africa/wbt>

Last updated on 27 October 2025, printed on 27 October 2025

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