

GrainMate: Grain Moisture Meter

Control the moisture content of grains and reduce post-harvest losses.

The Grain Moisture Meter is a portable, easy-to-use device that accurately measures grain moisture, preventing spoilage and quality loss across the value chain. For warehouse operators, traders, and processors, it ensures better storage, fair pricing, and quality compliance.



Sesi Technologies Limited
Isaac Sesi

Commodities

Maize, Sorghum/Millet, Soybean, Wheat, Groundnut

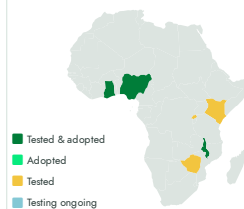
Sustainable Development Goals



Categories

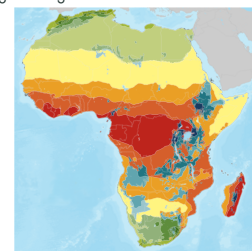
Prevention & storage, Equipment, Post-harvest handling

Tested/adopted in



Where it can be used

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



Target groups

Farmers, Processors, Warehouse Operators, Advisory and Extension Services

This technology is **pre-validated**.

8.7



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

Cost: \$45—60 USD

Price for resellers and users

ROI: 90 %

Post-harvest losses reduced

Problem

- **Inaccurate Moisture Assessment:** Grain traders and processors struggle with measuring moisture levels, leading to quality loss and spoilage.
- **Unreliable Methods:** Farmers use biting or tossing grains, which are inaccurate.
- **Lack of Moisture Meters:** Many farmers can't afford or find reliable grain moisture meters.
- **Mold Risk:** Grains above 13.5% moisture quickly develop mold.
- **Poultry Impact:** High-moisture grains reduce egg production and increase bird disease and deaths.

Solution

- **Eliminates Guesswork:** The meter replaces unreliable methods, enabling informed storage decisions.
- **Improves Accessibility:** Affordable and easy to use, priced at \$60, it's accessible to many farmers.
- **Reduces Grain Losses:** It helps farmers measure moisture accurately, preventing post-harvest losses and ensuring food security.
- **Supports National Planning:** Reliable data aids governments in monitoring grain quality, predicting risks, and shaping food security policies.

Key points to design your business plan

GrainMate Moisture Meter technology benefits both resellers and end users (farmers). For better integration in your business:

- Identify bulk sources for acquiring GrainMate Moisture Meters, available in Kenya, Rwanda, Ghana, Nigeria, Malawi, Zimbabwe.
- Optimize transportation and storage methods.
- Target customers include local retailers, development projects, farmers, and farmer cooperatives.
- Training is essential; operational details are available in the tool notice or tech profile.
- Estimate profits from using the product in your business.

Gender assessment



Climate impact



GrainMate

<https://taat.africa/pwm>

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Enquiries e_catalogs@taat.africa