

Aflasafe®: Aflatoxin management

Aflatoxin-safe fields and crops for safer food in Africa

Aflasafe® is a biocontrol technology for aflatoxins management that uses harmless types of the fungus *Aspergillus flavus* which do not and cannot produce the toxins. The atoxigenic fungi are coated onto ordinary sorghum grain for transferring these innovative biocontrol agents to farmers' fields.



This technology is **TAAT1 validated**.

8-9



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

Gender assessment

4

Climate impact

5

Problem

- Widespread aflatoxin contamination in staple crops, animal feeds, and processed foods across Africa.
- Consumption of contaminated food leads to severe health issues such as liver cancer, weakened immunity, and organ damage.
- Aflatoxin contamination renders food unfit for consumption and trade, resulting in significant economic losses.

Solution

- Prevents aflatoxin production using harmless strains of *Aspergillus flavus*.
- Affordable solution to reduce aflatoxin levels in food safely.
- Tailored to African conditions, utilizing native atoxigenic fungal strains.
- Selected through rigorous field testing.
- Halts aflatoxin contamination during transportation, storage, and processing.

Key points to design your program

Aflasafe is an innovative biocontrol product. In Nigeria, it has reduced aflatoxin contamination by up to 80-90% in maize and groundnuts.

- Its supports multiple Sustainable Development Goals: **SDG 3** by improving food safety, **SDG 2** by enhancing food security and yields, and **SDG 8** by opening new markets and improving smallholder farmers' incomes.
- Combined with other agricultural technologies like **Integrated Pest Management (IPM)**, Aflasafe enhances productivity, quality, and sustainability across agricultural value chains.
- It offers a valuable solution for development programs aiming to improve agricultural standards. Partnerships with the Aflasafe company and IITA ensure effective implementation.

Cost: \$\$\$ **12 - 20 USD**

per Ha

ROI: \$\$\$ **16 %**

Increase in income

10 kg/ha

Recommended dosage application

4 kg/acre

Recommended dosage application



Trademark

IITA
Transforming African Agriculture

International Institute of Tropical Agriculture (IITA)
Ortega-Beltran, Alejandro

Technology from

ProPAS

Commodities

Maize, Sorghum/Millet, Groundnut, Chili peppers, Sesame, Sunflower

Sustainable Development Goals



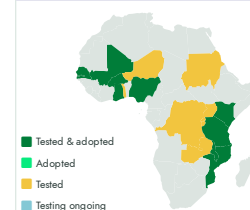
Categories

Production, Prevention & storage, Inputs, Pesticide

Best used with

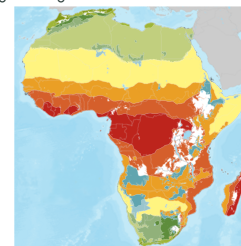
- [Drought Tolerant Maize Varieties and Water Efficient Maize Varieties >](#)

Tested/adopted in



Where it can be used

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



Aflasafe®

<https://taat.africa/snx>

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