Testing Storage Devices

AflaSTOP is testing the project hypothesis using the following storage devices:

Name: Metal silo
Manufacturer: Local producers
Estimated Cost: $125
Capacity: 90kg–2mt
Project Stored: 312kg
Lifespan: 15–20 years
Note: Needs pallet or raised surface to rest on

Name: Gransilo (plastic silo)
Manufacturer: Kentainers
Estimated Cost: $80
Capacity: 400kg
Project Stored: 360kg
Lifespan: 10–15 years
Note: Needs pallet or raised surface to rest on

Name: GrainSafe II (large bulk bag)
Manufacturer: GrainPro
Estimated Cost: $210
Capacity: 1,000kg
Project Stored: 800kg
Lifespan: 10 years
Note: Needs strong frame to hold it up

Name: SuperGrainBag IVR
Manufacturer: GrainPro
Estimated Cost: $2.50
Capacity: 90kg
Lifespan: 1–3 seasons
Note: Needs PP bag for outside

Name: PICS bag
Manufacturer: Bell Industries
Cost: $2.50
Capacity: 90kg
Lifespan: 1–3 seasons

Name: Polypropylene (PP) bags
Manufacturer: Local producers
Cost: $0.60
Capacity: 90kg
Lifespan: 1–3 seasons

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AflaSTOP: Storage and Drying for Aflatoxin Prevention

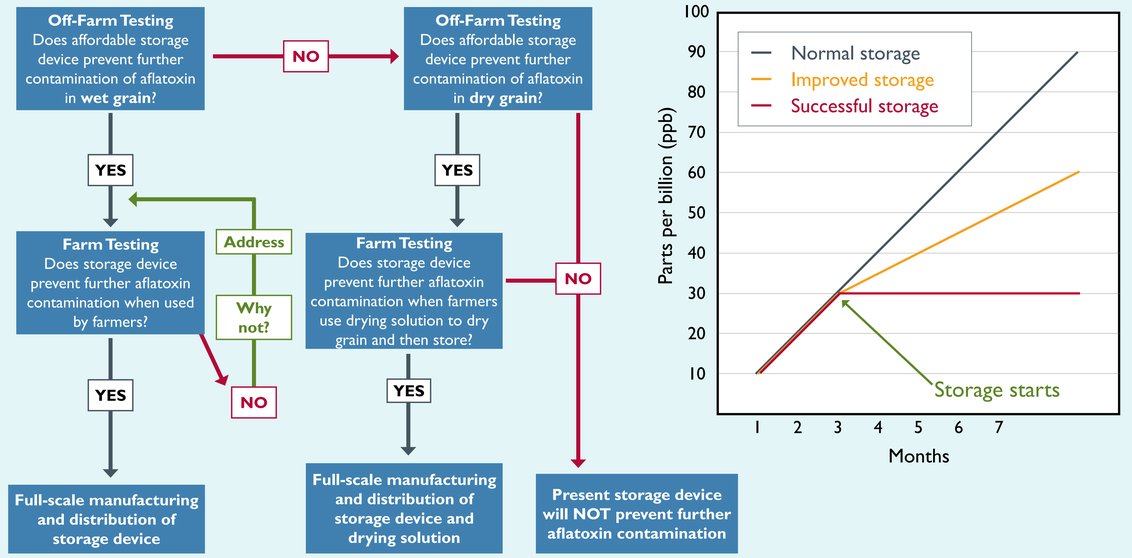
Background

AflaSTOP aims to develop and commercialize new technologies for post-harvest storage and drying of staple grains to help prevent and control the spread of aflatoxin.

AflaSTOP uses a market-led approach, coordinating closely with the Partnership for Aflatoxin Control in Africa (PACA).

Hypothesis

There is storage technology suitable for smallholder farmers that can take relatively wet grain, store it wet, and prevent further contamination by aflatoxin.



Project Phases

Phase 1: Off-farm storage testing and establishing drying designs
Phase 2: On-farm storage and drying testing with smallholder farmers
Phase 3: Routes to commercial scale up of solutions

Meridian Institute — Connecting People to Solve Problems

ACDI VOCA — Expanding Opportunities Worldwide

ASI — Make It Happen

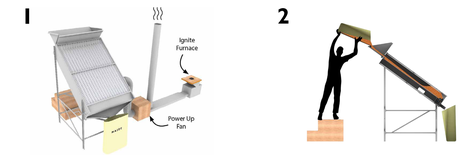
PACA — Partnership for Aflatoxin Control in Africa

AflaSTOP supports objectives of PACA, which is establishing a comprehensive, Africa-wide approach to aflatoxin control. Co-funding for this project is provided by the Bill & Melinda Gates Foundation and the U.S. Agency for International Development.

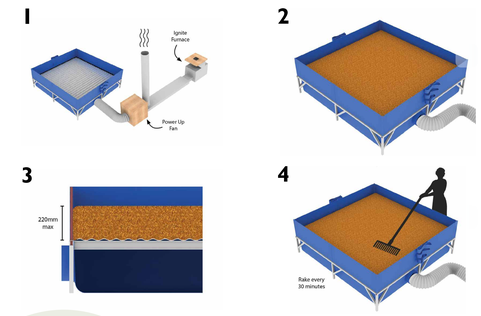
Drying Technologies

The project is testing, adapting, and designing cost-effective and appropriate drying technologies for maize and other commodities, which are being developed through a human-centric design approach informed by assessments and private sector input.

Column Dryer



Shallow Bed Dryer



Solar Dryer