



RESILIENT GRAIN MARKETS: **UNLOCKING AFRICA'S FOOD SECURITY POTENTIAL**

2ND-4TH, OCTOBER 2025 | ZANZIBAR, TANZANIA

Main Session 3

Grain quality and food safety.

Harmonizing standards and combating aflatoxins for competitive trade

Session
Sponsors:



Rose
Ndung'u

Chief Strategy Officer
GrainPro Inc

The Importance of Post-Harvest Loss Reduction

User Cases





Drying Onions – Burkina Faso Women Group



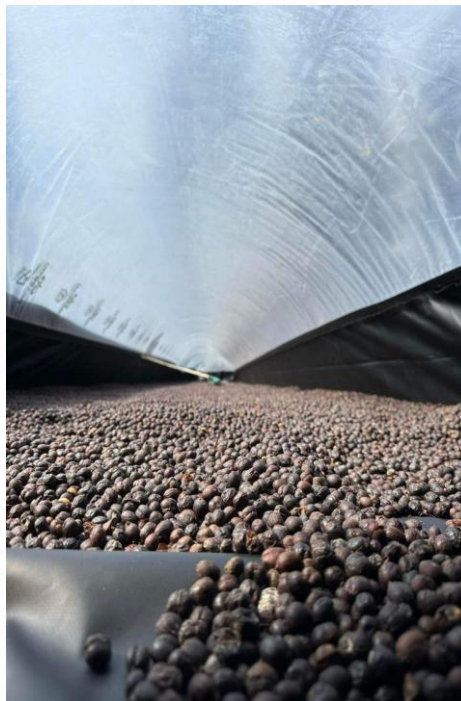
Pineapples and Bananas Drying



Cocoa Beans Drying in Guatemala



Coffee Beans Drying in Vietnam



Rice Paddy Drying in Burkina Faso



FIELD INSTALLATION

Tanzania - The National Food Reserve Agency (NFRA),

Songea, Tanzania – On January 2016, eight GrainPro® Cocoons™ were opened and inspected by Tanzanian farmers and government officials. GrainPro and the Rural Urban Development Initiative (RUDI) installed the units in 2014 at different locations in the country to demonstrate the effectiveness of Ultra Hermetic™ grain storage.

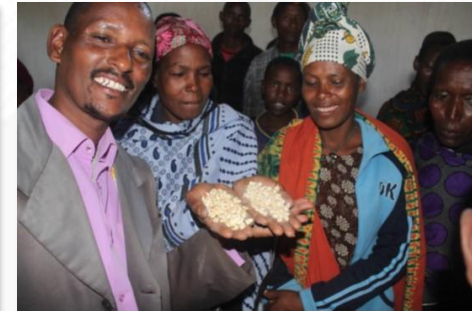
The National Food Reserve Agency (NFRA), which implements the Tanzanian government's effort to address food security, in partnership with the Alliance for a Green Revolution in Africa (AGRA) and funding support from the Rockefeller Foundation, commissioned the installation of the Cocoons in November 2014.



FIELD INSTALLATION

Tanzania, Africa – Rockefeller Foundation

The National Food Reserve Agency in collaboration of Rockefeller foundation initiated a project to store maize (corn) for 6 months in the Cocoon. The project was aimed to have enough corn stocks in Songea. It also aimed to preserve and protect corn quality against insect infestation and molds.



FIELD INSTALLATION

Zambia, Africa – The Food Reserve Agency

The Food Reserve Agency of the government is responsible in the management of national food reserves ensuring food security. Four units of MegaCocoon-1050MT were installed with maize at different places in Luzaka, Monze, Nteme and Chisamba in 2011.



FIELD INSTALLATION

AfricaRice (Cote d'Ivoire)

A "during" and after photo of a GrainPro Cocoon being loaded with rice seeds in Africa. The seeds were stored for 3 months in a gas-tight and moisture-tight environment.



FIELD INSTALLATION

GRAINPRO® LEVELS UP EFFORT TO STOP AFLATOXINS IN NIGERIA

Abuja, Nigeria – In February, Chief Audu Ogbeh, Nigeria's Minister of Agriculture and Rural Development, met with Tom De Bruin, President of GrainPro® Philippines, and Daniel Haileselassie, GrainPro Continent Manager for Africa, to discuss appropriate measures to ensure food security in the country. The GrainPro delegation presented modern drying and Ultra Hermetic™ grain storage innovations to the minister and his team.

As a result, the minister is advising stakeholders in the country's agricultural sector to ensure hygiene in the production and storage of agricultural commodities. The minister stressed the need to use modern grain storage solutions that don't require toxic chemicals to prevent the proliferation of aflatoxin on all types of dry agricultural commodities.



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FIELD INSTALLATION

India – Government Strategic Food Reserve Agency

An effort to strengthen food security in Madhya Pradesh, India is seen with these 29 GrainPro Cocoon, each storing 320 metric tonnes of wheat. Two more are being set-up as of the moment this photo was taken. This is a huge win for those working to reduce food loss by ensuring no wheat is wasted. This amazing feat is a collaboration of the local government, Pinnacle International, and GrainPro.



FIELD INSTALLATION

Indonesia – BULOG

Bureau of Logistics (BULOG) is continuously using cocoons as buffer storage to preserve and protect quality of milled rice for 1 year



Cocoon Installations in Zimbabwe

Hlanganiso Mlangeni- Gandiwa village (5MT).



Ward 12-Hofisi village (10MT-cocoon set-up)



Region	Village	Cocoon Size
Gokwe Region	Hofisi village	10MT
	Manokore Village	5MT
	Hlanganiso Mlangeni- Gandiwa village	5MT
Hurungwe Region	-Chikwata Village	5MT
	Magunje Village	5MT
	-Hondoma Village	5MT

Manokore Village 5MT- cocoon set-up in a hut



Cocoon Installations in Zimbabwe



Product: Cocoon 5MT and 10MT



Cocoon Installation - WFP, Galkayo, Somalia

Product stored: Corn

Product: Cocoon 5MT and 10MT



Postharvest management training workshops – WFP Somalia



Region	Total participants	Total No. of organizations
Hargeisa (Somaliland State)	57	12
Bosaso (Puntland State)	36	9
Garoowe (Puntland State)	33	15
Galkayo (Puntland State)	43	19



Cocoon Installation - WFP Djibouti



Product stored: Sorghum at MC of 12%

Product: Cocoon 5MT and 10MT



Capacity Building and Technology Transfer – USAID - MercyCorps Nigeria



Cocoon Installation and Training – BG Nigeria





GrainPro Hermetic Bag(GHB)

End user training –
Uganda Karamoja
Region



WFP/Mercy Corps

Babban Gona – Cocoon Installation in Kaduna, Nigeria



FAO Guinea



GrainPro Videos

[The GrainPro Corporate Audio-Visual Presentation 2017 - YouTube](#)

[12 years in a GrainPro Cocoon – YouTube](#) – Food Security in collaboration with Rwanda Government

[Grainpro cocoon || Agricultural Technology – YouTube](#) – Safe storage through reduced Oxygen levels

GrainPro Hermetic Storage: Features & Benefits

Features

- Gas & Moisture barrier
- UV protected
- Water resistant
- Flexible and durable material
- With Gas fumigation port
- Designed for smart monitoring

Benefits

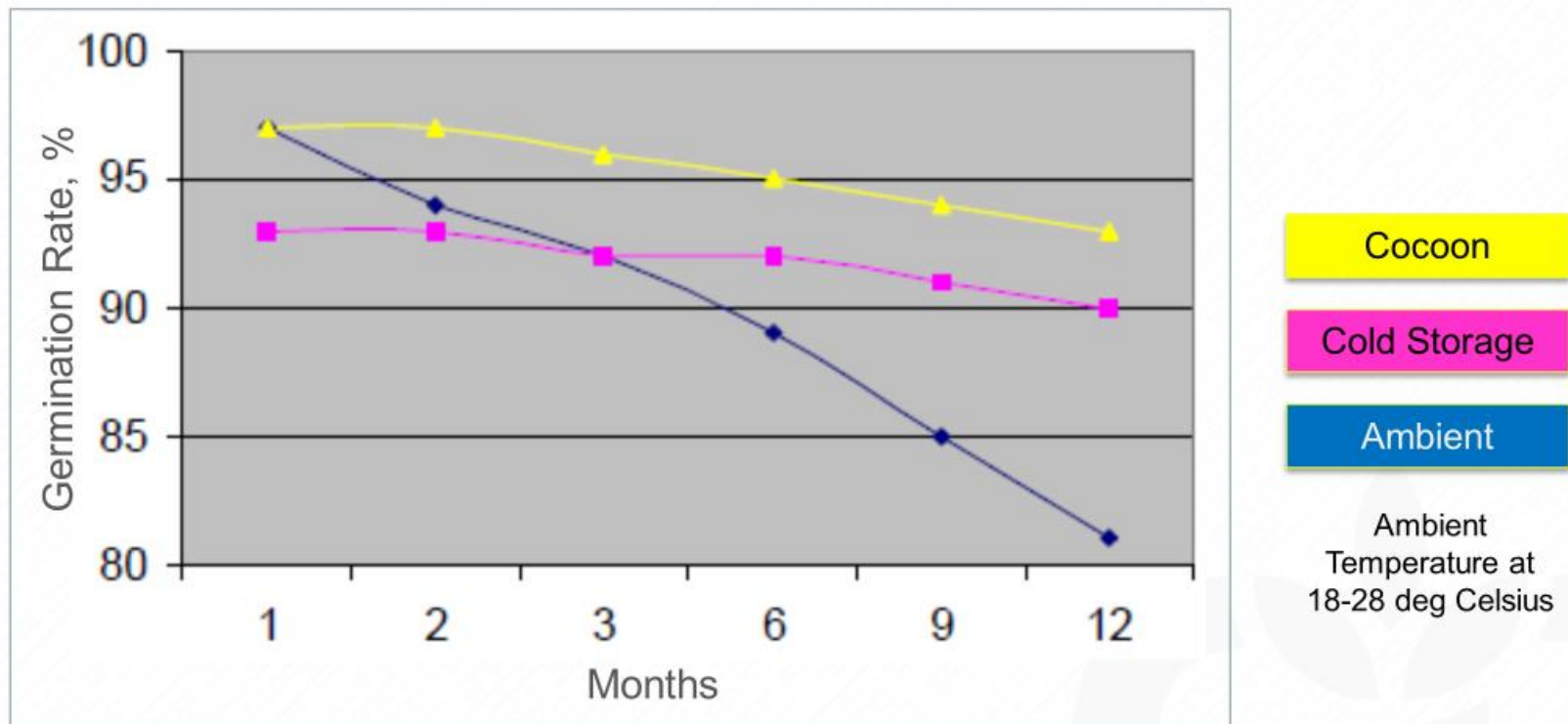
- Controls insect infestation
- Preserves seed germination and vigor
- Maintains the moisture content of stored commodity
- Maintains CO2 concentration inside the hermetic storage
- Preserves the quality of stored commodity such as color, aroma, taste, and nutritional value
- Prevents oxidation resulting in rancidity
- Inhibits molds such as aflatoxin and mycotoxins



Advantages

- Chemical-free
- Long-term *quantity and quality preservation*
- Alternative to *Cold storage*.
- *Outdoor or indoor* storage options
- Portable/*mobile storage* solution
- Reduces losses to below *1%*
- Take maximum advantage in *price fluctuation* in the market
- Helps to *provide quality food and feed* quality consistently.

RESULTS OF GERMINATION TESTS IN STORAGE OF COTTON SEEDS IN DIFFERENT CONDITIONS





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THANK YOU.

