Mobile Grain Storage to Reduce Postharvest Loss in SSA, a qualitative appraisal

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Grain Postharvest loss (PHL) wastes:

- Grain quality (ecosystems, ForEx)
- Health @500 million suffer (IRAC, 2016)

Intellectual lacuna of breeders who do not mention the mold their technologies (or Aflasafe) grow in sealed/hermetic or modified atmosphere and poor surplus grain storage (Gressel, 2018)
Production safe surplus:

Inputs

- Ecosystem services, m$, seed, mech...
- Logistical Platform (Asset)
  - manage moisture at harvest - quality
  - stop abiotic/biotic at control locations
  - primary process safe nutrition
Warehouse/Silo are far away:

Without Rights or Control Lack Meaning
Far away bottlenecks limit:

- Moisture management
- Threshing
- Aggregation
- Monitoring
- Processing
- Nutrition

surplus becomes loss
15 to 50 tonnes of Scalable grain security

Mobile utility
grain, pulse and oilseed storage

Breathing, easy access lid and panel
Self cleaning floor for bulk
Towing empty mobility
Aeration port
Bagging chute
Easy over center jack
Mobile leases disrupt:

- Mold and other PHL
- Patriarchs, Opportunists
- SSA input agribusiness/NGOs

Mobility awards rights to manage moisture, thresh, aggregate, monitor, process Net benefit (Proctor, 1994).
Utility immediately benefit:
- Moisture management
- Transport intervention
- Secure financing.

Utility net benefit:
- Vents condensation (less redundancy)
- Above abiotic & most biotic problems
- Inputs have meaning.
10% quality + security * 3 meaningful

Source: FAO 2015 D. Mejia and modified by author

Rights to Net benefit & ForEx
Washburn KSU, Balappah EAC, Armstrong ARS, McNeill UoK evaluation was positive.
Stationary Sealed Technologies tested by FtF PHLIL Ejura, Ghana (Opit, 2017)
Stationary Warehouse Prejudice

What is so disruptive, that literature searches including mobile vented are a challenge?
• Kumar (ADMI), Ampuko (AAPHCE), Baral (IFPRI)

Why are:
• FinGAP Incentive Grants
• ADVANCE Preharvest Agribusiness/Forum/Events
• WFP Action Research & MIT initiatives
• NRI - FAO Grain Store Selector
• NRGP/GASSIP, GCAP, SEND-Ghana etc

impediment to options?
Is someone other than input agribusiness prejudiced to stationary profit (Wilson, 2015)?
Aflasafe is receiving considerable external support... this should not exclude close monitoring by those not connected to IITA (Stepman, 2018).

One Acre Fund

47,611 followers
1d

“It’s because of my success in farming that my children have reached a higher level of education and have a sense of direction in this world. They are able to see things outside of our village life, and it opens up their minds.” — Theresa Wanyama, Kenya.
Due diligence is needed so Development incentives awarded Financial Organizations, impact SMiLES.
Awareness of PHL is growing, however ADVANCE Preharvest Agribusiness/Forum/Events never discuss mold.

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<thead>
<tr>
<th>Program of Activities</th>
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<tbody>
<tr>
<td>7.30am</td>
<td>12.30pm</td>
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<tr>
<td>Conference Registration</td>
<td>Lunch</td>
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<tr>
<td><strong>9:00am</strong></td>
<td>Exhibition Ongoing</td>
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<tr>
<td>Opening Session</td>
<td>Networking and Business Meetings</td>
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<td>Opening Prayer</td>
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<tr>
<td>Welcome Remarks by Chief of Party, ADVANCE</td>
<td>2.00pm:</td>
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<tr>
<td>Statements by</td>
<td>Session Two: The Market Place</td>
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<tr>
<td>− Chief of Party, ATT</td>
<td>Commodity breakout groups – where buyers and producers</td>
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<tr>
<td>− USAID Mission Director</td>
<td>discuss expected demand, expected production, and price</td>
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<tr>
<td>− Guest of Honour</td>
<td>− Maize</td>
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<tr>
<td>− Northern Regional Minister</td>
<td>− Rice</td>
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<tr>
<td>− Honorary Minister of Food and Agriculture</td>
<td>− Soybean</td>
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<tr>
<td>Keynote Address</td>
<td>Exhibition Continues</td>
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<tr>
<td><strong>9:40am</strong></td>
<td>4:15pm:</td>
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<tr>
<td>Communications by Headline Sponsor</td>
<td>Plenary Session – Presentation of Conclusions from Market Place</td>
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<tr>
<td><strong>10:40am</strong></td>
<td>− Maize Group</td>
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<td>Session One: Experience Sharing</td>
<td>− Rice Group</td>
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<td>Panel Discussion: Moving Forward without ADVANCE</td>
<td>− Soybean Group</td>
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<tr>
<td><strong>10:50am</strong></td>
<td>4:30pm:</td>
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<tr>
<td>Communications from GOLD Sponsors</td>
<td>Conference Closing</td>
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<td><strong>11:00am</strong></td>
<td>− Completion and collection of evaluation forms</td>
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<td>Opening of Exhibition</td>
<td>− Closing Remarks by FAGRO</td>
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<td>Refreshments/Snacks</td>
<td>− Closing Prayer</td>
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<tr>
<td>Networking and Business Meetings</td>
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<tr>
<td>Presentation of Awards to Women Farmers (Commemoration of UN International Day of Rural Women)</td>
<td>Exhibition Closes / End of Event</td>
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Cost lease or own Mobile utility:

$$\frac{1}{2} \ (PHL + \text{missed marketing})$$

- Nutritional returns vs growing mold
- Rights vs reoccurring support
- Foreign exchange vs prejudice.
PHL is expensive, not assets that adapt

Thank you.