Challenges and opportunities: Perspective from Nigeria”-Bio-Control of Aflatoxin

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In 1977 a large number of dogs and poultry died in Eldoret, Mombasa, and other parts of the country. 2004--331 people in eastern Kenya affected resulting in 125 deaths. 2005--75 people in eastern Kenya affected resulting in 32 deaths (Thika, 2009).

Over 2.3 million bags of maize contaminated aflatoxin were destroyed in 2010 (Thika, 2009).

Aspergillosis in air sacs of a hen during an epidemic of aspergillosis in poultry. (Courtesy C.V.L. Weybridge, England).

Aspergilloma found at post-mortem in the lung of a child with leukaemia.
Aim – collaboration with MSN, Other Scientist

- Improve the safety of various maize and other feed ingredients for increase poultry production in Nigeria

- Seeks to lift 20 Million women poultry farmers out of subsistence into self sufficiency from the 6 geopolitical zones in Nigeria through awareness and training programmes about aflatoxin control

- The program will puts the resource constrained farmer at the centre of the agriculture value chain and creates a series of incentives to encourage the critical actors in the maize and poultry value chain to work together to improve the productivity, food and income security of the Nigerian women farmer. Through the use of the bio-control agents.

- Investigate the effect of the Bio-Control agent on the nutritional composition and other parameters in birds

- Encourage the use of low-cost effective tool in detection/management of aflatoxin in maize and feeds.

- Encourage field cultivation of medicinal plant (Lemmon grass)
## Methodology (Training and Production)

<table>
<thead>
<tr>
<th>Participant</th>
<th>Role</th>
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<tbody>
<tr>
<td>The Women Farmers</td>
<td>To register for the scheme and use the agent</td>
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<td>Local trainer (Men and youth)</td>
<td>To training the local farmers after training them</td>
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<td>The Extension Workers</td>
<td>To provide information for the researchers</td>
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<tr>
<td>Producer of Bio-control agent</td>
<td>Make inventory available and build their distribution channel across the Country</td>
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<td>Banks</td>
<td>Make financing available to Maize farmers</td>
</tr>
<tr>
<td>The principal investigator and other collaborators</td>
<td>To design, develop and operate the Bio-control redemption system &amp; coordinate product logistics</td>
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</tbody>
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### Bio-Control

- **Cassava pellet**
- **Medicinal plants**
- **Field application**
- **Packaging**

**Outcome:** Creation of Wealth and Enhance Food Security
Solar dryer