African Chicken Genetic Gains

A platform for testing, delivering, and continuously improving tropically-adapted chickens for productivity growth in sub-Saharan Africa—Nigeria

Oladeji Bamidele

Second ACGG Scientific and Industrial Advisory Committee meeting, Arusha, 29 January 2016
Nigeria Team Members

Co-PI 1
Prof (Mrs) A.O Adebambo

PI
Prof E.B. Sonaiya

Co-PI 2
Prof I.O. Adeyinka

Zone 1 - Dr (Mrs) O. Alabi

NPC - Dr ‘Deji Bamidele

Zone 2 - Dr (Mrs) F. Ajayi

Zone 3 - Prof (Mrs) U.E. Ogundu

Zone 4 - Dr A. Yakubu

Zone 5 – Prof W.A.A. Hassan
National Program Design

International Livestock Research Institute (ILRI)

NIGERIA

Obafemi Awolowo University (OAU) - Partner Institutions

Federal University of Agriculture (FUNAAB)

National Animal Production & Research Institute (NAPRI)

PEARL PROJECT (2014/2015); Co-PI (ACGG)

Sub-National Coord (SNC) 1

State 1  State 2

Senatorial Districts (SD) 1

Local Govt. Area (LGA) 1  LGA 2

Village 1  Village 2 --- Field Officers

SD 2  SD 3

State 1  State 2

SNC 5
2015 Project Activities & Outcomes

- ACGG-NG Colloquium - 27th
  - Creation of Public Awareness
  - 1st Country-Level PMT - 27th
    (PI, Co-PIs, NPC & SNCs)
    - Planning & De-briefing

- Facilitation Training - 9th – 12th
  (NPC & SNCs)
  - Skills for Multi-stakeholder Mobilization
  - Introduction to the Concept of Innovation Platform
2015 Project Activities & Outcomes

- **1st National Innovation Platform (IP)** - 20th – 21st
  - Establishment of a National IP
  - Identification of the Innovation Challenges

- **In-Country Launch** - 22nd
  - Creation of National Awareness for ACGG-NG

- **Training of Field Officers (FOs)** - 28th July -
  - 11 day Training on Baseline Tools & ODK
  - Selection of FOs
2015 Project Activities & Outcomes

- Pre-Sensitization & Sensitization in all the Survey Areas (Kwara, Rivers, Imo, Nasarawa & Kebbi States) - **Started Aug. 17th**
  - Community Sensitization & Awareness (60 villages)
  - Duration: 29 days

- Federal Ministry Of Agric. & Rural Dev. - **26th -> 27th**
  - Public Partnership
  - Importation Approval
  - Veterinary Permit/Certificate

- 2nd Country Level PMT Meeting - **26th**
  - Reviewed Project Activities, Deliverables & Timeline
Private Partnership with Diamond Bank - 3rd
✓ Private Sector Engagement

National Institute of Animal Science/Animal Science Association of Nigeria (NIAS-ASAN) Conference - 7th -> 10th
✓ Public Awareness & Engagement

Advanced Course in Poultry Breeding - 27th -> 2nd Oct
✓ 1 week Training for 6 PhD Students

Baseline Survey - 28th Sept -> Nov. 5th
✓ Data collection across 1200 HH
2015 Project Activities & Outcomes

- World Egg Day - 9th Oct
  - Village Outreach & Public Enlightenment
  - Feedback
  - ACGG-NG in the News!
2015 Project Activities & Outcomes

- Public/Private Partnerships
  - Dept. of Agric. Ext. & Rural Dev. - 2nd Sept.
  - FOL-HOPE Farms Ltd - 20th

- Sub-National IP (SNIP) Zone 1 - 2nd Dec.

- 3rd Country Level PMT Meeting - 2nd
  - Year Review & Appraisal

- Private Partnerships
  - Landmark Univ. Farms - 3rd
  - Bdellium Consult Ltd - 4th
2015 Project Activities & Outcomes

- **SNIPs**
  - Zone 3 - 6th
  - Zone 4 - 13th
  - Zone 2 - 14th
- **Establishment of Sub-National Structures for IPs**

**Photos:**
- Zone 2 (Rivers State)
- Zone 3 (Imo State)
- Zone 4 (Nasarawa State)
Summary of the Baseline Survey
Summary of the Baseline Survey

Villages Covered during the Baseline Survey
Zone 2 (Rivers State); State Capital: Port Harcourt
Summary of the Baseline Survey
Summary of the Baseline Survey
Summary of the Baseline Survey
Baseline Preliminary Analysis

**Total No. of Male/Female FOs**

- Male
- Female

**FOs (30) Gender Per Zone**

- Kwara State (1)
- Rivers State (2)
- Imo State (3)
- Nasarawa State (4)
- Kebbi State (5)

Male
Female
Baseline Preliminary Analysis

Gender Distribution of HH Heads in NG

Female HH Heads per Zone (%)
- Kwara State (1)
- Rivers State (2)
- Edo State (3)
- Nasarawa State (4)
- Kebbi State (5)

Male HH Heads per Zone (%)
- Kwara State (1)
- Rivers State (2)
- Edo State (3)
- Nasarawa State (4)
- Kebbi State (5)
Baseline Preliminary Analysis

Gender Distribution of Total No. of Respondents in NG

Gender Distribution of respondents across the Sub-National Zones
Baseline Preliminary Analysis

Poultry keeping as a source (primary, secondary, tertiary) of Livelihood

- Primary: 12%
- Secondary: 15%
- Tertiary: 7%
- Other Sources: 66%
### Ranking of purpose and objectives of keeping chicken by Sub-National Zones

<table>
<thead>
<tr>
<th>Purpose and objectives</th>
<th>Rank index of chicken production purpose and objectives</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Imo</td>
</tr>
<tr>
<td>Meat consumption</td>
<td>0.40</td>
</tr>
<tr>
<td>Live adult chicken sale</td>
<td>0.44</td>
</tr>
<tr>
<td>Egg consumption</td>
<td>0.05</td>
</tr>
<tr>
<td>Egg sale</td>
<td>0.01</td>
</tr>
<tr>
<td>Meat sale</td>
<td>0.01</td>
</tr>
<tr>
<td>Chick sale</td>
<td>-</td>
</tr>
<tr>
<td>Ceremonies/festivals</td>
<td>0.06</td>
</tr>
<tr>
<td>Give away</td>
<td>0.02</td>
</tr>
<tr>
<td>Cock fighting</td>
<td>-</td>
</tr>
</tbody>
</table>
### Existing practice of giving supplementary feed to chickens at any time of the year in ACGG Nigeria

<table>
<thead>
<tr>
<th>Provision of Supplementary Feeding</th>
<th>n</th>
<th>Frequency (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yes</td>
<td>1057</td>
<td>87.72</td>
</tr>
<tr>
<td>No</td>
<td>148</td>
<td>12.8</td>
</tr>
</tbody>
</table>

### Willingness to build a separate poultry house if a new strain is given to the household in ACGG Nigeria

<table>
<thead>
<tr>
<th>Willingness to build a separate poultry house</th>
<th>n</th>
<th>Frequency (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yes</td>
<td>1181</td>
<td>98.01</td>
</tr>
<tr>
<td>No</td>
<td>24</td>
<td>1.99</td>
</tr>
</tbody>
</table>
# 2016 Timeline

<table>
<thead>
<tr>
<th>Activity</th>
<th>Start Date</th>
<th>End Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sub-National Innovation Platform (SNIP) (Imo, Rivers &amp; Nasarawa States)</td>
<td>4\textsuperscript{th} January</td>
<td>14\textsuperscript{th} January</td>
</tr>
<tr>
<td>2\textsuperscript{nd} Global PMT</td>
<td>24\textsuperscript{th} January</td>
<td>31\textsuperscript{st} January</td>
</tr>
<tr>
<td>FOs Recruitment (60 FOs)</td>
<td>Start February</td>
<td>March</td>
</tr>
<tr>
<td>SNIP: Kebbi State</td>
<td>16\textsuperscript{th} February</td>
<td>18\textsuperscript{th} February</td>
</tr>
<tr>
<td>Meeting with the Hon Minister &amp; Dept. Directors of The Federal Ministry of Agriculture &amp; Rural Development, Abuja</td>
<td>23\textsuperscript{rd} February</td>
<td>25\textsuperscript{th} February</td>
</tr>
<tr>
<td>Capacity Building (Long term Genetic Gains)</td>
<td>27\textsuperscript{th} Feb.</td>
<td>4\textsuperscript{th} March</td>
</tr>
<tr>
<td>National Country Server Operational</td>
<td>Start March</td>
<td>End April</td>
</tr>
</tbody>
</table>
## 2016 Timeline

<table>
<thead>
<tr>
<th>Activity</th>
<th>Start Date</th>
<th>End Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Importation of Germplasm</td>
<td>1st Week March</td>
<td>April</td>
</tr>
<tr>
<td>2nd National Innovation Platform</td>
<td>14th March</td>
<td>16th March</td>
</tr>
<tr>
<td>Conference: National Society of Animal Production</td>
<td>21st March</td>
<td>22nd March</td>
</tr>
<tr>
<td>Data Mgt &amp; training for On-Station Data Collection</td>
<td>24th March</td>
<td>25th March</td>
</tr>
<tr>
<td>On- Station Testing</td>
<td>28th March</td>
<td>On-going</td>
</tr>
<tr>
<td>Community Innovation Units</td>
<td>1st of April</td>
<td>End of April</td>
</tr>
<tr>
<td>Data Management Training for FOs</td>
<td>24th April</td>
<td>28th April</td>
</tr>
<tr>
<td>1st Quarter Country Level PMT</td>
<td>29th April</td>
<td>30th April</td>
</tr>
<tr>
<td>On-Farm Testing</td>
<td>14/15th May</td>
<td>On-going</td>
</tr>
<tr>
<td>Report</td>
<td>1st June</td>
<td>21st June</td>
</tr>
</tbody>
</table>
Upcoming Activity in 2016: *On-station Testing*

- Testing Objective & Protocol as per the ACGG Testing On-Station and On-Farm Chicken Testing Protocol (Pgs 5 & 7)

**FOL-HOPE Farms Ltd**

**FUNAAB**
Upcoming Activity in 2016: *On-farm Testing*

**Model:**
- Zones (5 States)
- 3 Senatorial Districts/State
- 2 LGA/SD
- 2 Villages/LGA
- 40HH/Village
- 30 Chickens/HH
- 2400HH
Genetic Material

Foreign
- Embrapa 051
- Koekoek
- Kuroiler

Nigerian
- ShikaBrown®
- FUNAAB alpha
- Fulani
Hatchery Facilities

FUNAAB

FOL-HOPE Farms Ltd, Ibadan
## Brooder Farms across the Zones

<table>
<thead>
<tr>
<th>Zone</th>
<th>Name and Address</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>1 (Kwara State)</strong></td>
<td>1. Landmark University Commercial Farm, Omu Aran</td>
</tr>
<tr>
<td><strong>2 (Rivers State)</strong></td>
<td>1. Jocaarl Breeder Farms, Elele/Omoku Road, Egbeda</td>
</tr>
<tr>
<td></td>
<td>2. Ralph Agrovet Farms Limited, Port Harcourt</td>
</tr>
<tr>
<td></td>
<td>3. L &amp; A Integrated Farms Ltd. Ogun</td>
</tr>
<tr>
<td></td>
<td>4. Kind Farm Ventures, Airport Road, Igwurutta</td>
</tr>
<tr>
<td><strong>3 (Imo State)</strong></td>
<td>1. Chinex Agro Service Limited</td>
</tr>
<tr>
<td></td>
<td>2. AST Deptal Farm, FUTO</td>
</tr>
<tr>
<td></td>
<td>3. Olorun Osun Farms Nigeria Limited</td>
</tr>
<tr>
<td><strong>4 (Nasarawa State)</strong></td>
<td>1. Layuga Integrated Farms, Nasarawa</td>
</tr>
<tr>
<td></td>
<td>2. Gunduma Integrated Farms, Keffi-Kaduna Road</td>
</tr>
<tr>
<td></td>
<td>3. Jenash Poultry Farm, Akwanga</td>
</tr>
<tr>
<td></td>
<td>4. Jora Fish and Poultry Farm, Lafia</td>
</tr>
<tr>
<td><strong>5 (Kebbi State)</strong></td>
<td>1. Mainahwu Enterprises Nigeria Limited, Jega Road, Dirnin Kebbi</td>
</tr>
<tr>
<td></td>
<td>2. Dankuchi farm, Kamba</td>
</tr>
<tr>
<td></td>
<td>3. Girawa farm, Kamba</td>
</tr>
</tbody>
</table>
Upcoming Activity in 2016: Innovation Platforms

- IP Process: will engage stakeholders in an on-going face to face and/or virtual interactions, to identify issues that affect their common interest and to co-create innovative solutions

- The three Pillars that will be adopted:
  - Collective diagnosis
  - Inclusive solution finding
  - Mutual accountability

- Overview of IPs to be held in 2016
  - 2nd National Innovation Platform (March & September)
  - Community Innovation Units
Potential Challenges in 2016

• To receive adequate support from all stakeholders in a timely fashion
• Delivery of the Foreign Germplasm
• Strict compliance to the country’s veterinary certification
• Establishment of Community Innovation Units.
Our partners
more productive chickens for Africa’s smallholders

http://africacgg.net