



**Summary of key outcomes from the first ACGG
Tanzania innovation platform (IP) meeting
Dar es Salaam, Tanzania
13-14 July 2015**

**Msafiri Kessy
Tanzania Poultry Breeders Association**

TANZANIA ACGG PROJECT VISION



Vision of ACGG Project is to catalyze public-private partnerships for increasing smallholder chicken production and productivity growth as a pathway out of poverty in Tanzania

ACGG PROJECT IMPLEMENTATION PLAN-TANZANIA



Project Advisory Team (PAT)

- ACGG Project is guided by Project Advisory Team comprising six experts in the fields of :

Animal Breeding and Genetics	Dr. Said H. Mbagu - SUA
Animal Nutrition and Management	Dr. Ezekiel H. Goromela - TALIRI
Socio- economics and Agribusiness	Dr. Jeremiah Makindara - SUA
Animal health and Welfare	Dr. Henry B. Magwisha - TVLA
Women empowerment and Equity	Ms Rehema Mwateba - TGNP
Project management	Prof. Faustine Lekule - SUA and TANFEED

ACGG PROJECT IMPLEMENTATION PLAN-TANZANIA



Project Implementation Team (PIT)

- Team comprises Nine members:

Project Investigator	Dr. Ezekiel H. Goromela
Co-Project Investigator	Dr. Said H. Mbagu
National Project Coordinator	Deogratias D. Shayo
Sub National Coordinator – Southern Zone	Charles H. Mpemba
Sub National Coordinator – Southern H. Zone	Fadhili Guni
Sub National Coordinator – Eastern Zone	Fortunatha Oresta & Cassian Z
Sub National Coordinator – Central Zone	Mary Jackson Magonka
Sub National Coordinator – Lake Zone	Tawfiq Mahamudu

ACGG PROJECT IMPLEMENTATION PLAN-TANZANIA



Position	Responsibilities
PI	<ul style="list-style-type: none">- Oversee the project implementation plans and deliverables- Oversee all financial matters- Liaise with government official and Partners
Co-PI	<ul style="list-style-type: none">- Recruit and organise training of PhD & Msc, SNCs, Field Staff and farmers- Oversee the implementation of baseline survey, on-station and on-farm testing of chicken strains
NPC	<ul style="list-style-type: none">- Coordinate project activities- Provide administrative support to ACGG team
SNCs	<ul style="list-style-type: none">- Coordinate all project activities and supervision of Field Staff- Facilitate sub-national partnership platform meetings- Support the implementation of ACGG activities in their zones

ACGG PROJECT IMPLEMENTATION PLAN-TANZANIA



- Where ACGG project will work in Tanzania

Zones	Natural Environment	Regions
Southern	Hot & Humid	Lindi & Mtwara
Eastern zone	Sub-humid	Morogoro & Tanga
Central	Semi-arid	Dodoma & Singida
Southern Highlands	Cool & Wet	Mbeya & Njombe
Lake zone	Sub-humid & dry	Simiyu & Mwanza

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ACGG PROJECT IMPLEMENTATION PLAN-TANZANIA



CRITERIA USED TO SELECT ZONES, DISTRICTS AND VILLAGES

- Large number of poultry
- High number of smallholders rearing poultry
- Percent contribution of poultry to household income/nutrition
- Percent market share captured by smallholders
- Availability of feed resources for a growing for a growing poultry industry
- Diversity across zones for the interest of testing strains in a number of production



BASELINE SURVEY

OBJECTIVE

To define and characterize current smallholder chicken production systems, chicken ecotypes, current realized productivity, husbandry practices, and the socio-economic status of poor smallholder farmers

METHODOLOGY

- A baseline survey will be carried out in 5 zones: Lake Zone, Southern Highland Zone, Central Zone, Eastern Zone and Southern Zone
- Sampling areas will be selected by the Project Implementation Team (PI, Co-PI, NPC, SNCs) in conjunction with Regional Research Centers and Extension Officers
- A total of 1125 householders will be selected randomly using ACGG Framework Testing Protocol including conformity with ethical guidelines.
- A total of 3 Villages per district shall be sampled with approximately 25 hh per village

BASELINE SURVEY



DATA COLLECTION

- A total of 30 enumerators and 6 SNCs will be involved in data collection in 5 zones
- Before data collection all enumerators and sub national coordinators will be trained on data collection methodology and tools (ODK kit).
- Training of enumerators and SNCs will be 10th August- 21 August 2015 including pre-testing of questionnaire.
- Baseline data collection will be 30 Aug- Sept 30 2015
- Subnational coordinators will supervise data collection in 5 zone including 10% sampling to monitor and evaluate quality of data collection.

One strain (Black Australorp- adapted to scavenging) is available and is produced commercially



CHICKEN STRAINS TO BE TESTED ON STATION AND ON-FARM

CHICKEN STRAINS TO BE TESTED

Tanzania has no breeding program for poultry due to lack of innovation platforms, despite of supportive livestock policies and political will.

Through a thorough study by the ACGG team and consultations with partners, the following breed or strains were agreed upon as potential candidates to be tested:

Type of strain	Justification	Why or Reasons
Black Australorp	<ul style="list-style-type: none">- Egg laying strain and available and commercially produced in Tanzania- Adapted to scavenging or low input system (Mbeya)	Highly producing and tropically adapted strain/breed
Kuroiler	Dual purpose strain and developed by Keg Farm in India - have been successfully tested in Uganda	Highly producing and tropically adapted strains
Fayoumi	Egg laying strain and developed in Egypt in Fayoumi State – have been successfully tested in many African Countries including ET.	Highly producing and tropically adapted strains
Sasso/ Brazilian strain	Sasso breed is available in Ethiopia and France and can be procured	

CHICKEN STRAINS TO BE TESTED ON STATION AND ON-FARM



Black Australorp



Kuroiler



Fayoumi



Sasso

ON FARM PERFORMANCE TESTING OF SELECTED CHICKEN STRAINS



Objective is to assess the genetic potential of selected chicken strains under low input production systems

NUMBER OF HOUSEHOLDS AND CHICKENS TRAINS (3 STRAINS)

Zone	No. of Districts	No. of Villages	No. of HHDS	No. of Chickens	No. of fertile eggs (70% H, 5% M)
Southern	4	16	480	9,600	14,000
Eastern	4	16	480	9,600	14,000
Central	4	16	480	9,600	14,000
Southern H	4	16	480	9,600	14,000
Lake	4	16	480	9,600	14,000
TOTAL	20	80	2400	48,000	70,000

ON FARM PERFORMANCE TESTING OF SELECTED CHICKEN STRAINS



METHODOLOGY

- Fertile eggs will be imported from from Uganda or India for Kuroiler strains, Egypt for Fayumi strain, France or Ethiopia for Sasso strain or Brazil for Scavenging chicken line with support from ILRI in collaboration with National Partners (e.g. DVS, OIE).
- ILRI's business development team and the national partners will negotiated material transfer agreements regarding these lines.
- After these lines have been obtained, parent birds will be multiplied to generate chicks that will be vaccinated and brooded to 21 days and then distributed to designated agro-ecologies for testing in the country.
- Testing of these lines will be accomplished alongside the local ecotypes available on farm in each zone.
- ILRI will work with the national teams to establish bio-security protocols and quarantine facilities.



SELECTION OF HOUSEHOLDS

- A total 2,400 households will be selected (30 hhd per village) based on baseline survey results and made in consultation with extension officers and community leaders, interest and willingness to participate in the project.
- Each household receive 20 chicks (3 weeks of age) of 1 strain.

HATCHING, BROODING AND DISTRIBUTION OF CHICKS

- Hatching of eggs will be under contractual agreements with private sector and public sector
- Additionally, brooding will be done under contractual agreements with private sector and public sector (Local mother Units)
- Each zone will identify Brooding centres within 4 hours of driving time from the furthest farm to avoid transit mortality and stress.
- Distribution to Mother units of brooded birds of age 18 to 22 days duly vaccinated with Newcastle IRDV Infectious Bronchitis Pox etc



SUGGESTED LOCATIONS FOR BROODING UNITS (MOTHER UNITS)

Zone	No: of Unit	Place	No: of Unit	Place	Total
Eastern	One Unit	Morogoro	One Unit	Tanga	2
Central	One Unit	Singida	One Unit	Dodoma	2
Southern	One Unit	Mtwara	One Unit	Masasi	2
Southern Highland	One Unit	Mbeya	One Unit	Njombe	2
Lake Zone	One Unit	Mwanza	One unit	Simiyu	2

ON STATION TESTING OF CHICKEN STRAINS



NUMBER OF EGGS AND CHICKEN STRAINS

- The on-station testing will be conducted at SUA and TALIRI-Naliendele.
- The chicks will be identified with wing and leg bands. The chicks will be grown together until 6 weeks of age on adlib feeding.
- Chicks will be kept in a 3x 10 m house during brooding and growing period.
- About 100 males will be weighed every 2 weeks up to 20wks of age. Females will be managed according to breeders recommendations.
- Feed intake, egg production and age at the highest egg production will recorded.

SITES	NO. OF EGGS	NO. OF BIRDS
SUA-MOROGORO	4,500	1,650
TALIRI-NALIENDELE	1,800	660
TOTAL	6,300	2,100

WAY FORWARD, TIMELINE & RESPONSIBILITIES



Activities	Timeline	Responsible
National PMT meeting	June 25-26 th June 2015	NPC
Rehabilitation of infrastructures & procurements of research materials	July-Aug 2015	PI and/or co. PI
Importation permits/logistics	June-July 2015	PI
Eggs/Chicks procurement	Sept-October 2015	NPC – guidance of PI and/or co. PI & ACGG team at ILRI
Baseline Planning and Execution	Aug 10-21 st 2015	NPC - Guidance of PI and/or co.PI
Platform meeting & Launching	13-16 July 2015	PICO, PI, Co-PI, NPC
On Station Testing	Sept-2015-2017	PI and co. PI

WAY FORWARD, TIMELINE & RESPONSIBILITIES



Activities	Timeline	Responsible
On Farm Testing	Sept- 2015-2017	NPC - guidance of PI and co PI
Recruit graduates	Sept 2015-2019	Co- PI, PI
Multiplication & distribution of preferred strain(s)	Oct 2017	Private sector/PI/NPC
Road map for sustainable breeding	Oct 2018	Co-PI, PI

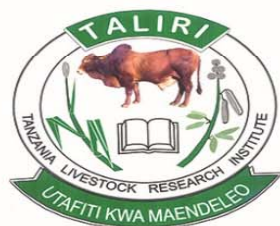
ACKNOWLEDGEMENTS



PARTNERS



BILL & MELINDA
GATES *foundation*



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For quality of life



PICO-Eastern Africa
helping institutions work...



Koepon

Partners



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