

FEED THE FUTURE NIGERIA AGRICULTURAL POLICY
PROJECT

Quarterly Report – Year 4

Third Quarter: April 1- June 30, 2019

Associate Cooperative Agreement Number AID-620-LA-15-00001

Activity Period: July 1, 2015 to June 30, 2020

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ACRONYMS

ADAN	Association of Deans of Agricultural Universities
APP	Agricultural Promotion Policy
ARCN	Agriculture Research Council of Nigeria
ASA	Agronomy Society of America
ATA	Agricultural Transformation Agenda
BSU	Benue State University
CAADP	Comprehensive Africa Agriculture Development Program
CAPI	Computer Assisted Personal Interviews
CSPRO	Census and Survey Processing System
CSSA	Crop Science Society of America
DC	District of Columbia
EBSU	Ebonyi State University
EOS	Economies of scope
ERGP	Economic Growth Recovery Plan
FCT	Federal Capital Territory
FG	Federal Government
FMARD	Federal Ministry of Agriculture and Rural Development
FTF	Feed the Future
FUT Minna	Federal University of Technology, Minna
FY	Fiscal Year
GFSS	Global Food Security Strategy
HMA	Honorable Minister of Agriculture
IBB	Ibrahim Badamosi Babangida University Lapai
IFPRI	International Food Policy Research Institute
KARDA	Kebbi Agricultural and Rural Development Authority
LGA	Local Government Area
M&E	Monitoring and Evaluation
MELP	Monitoring, Evaluation & Learning Plan
MSU	Michigan State University
NAAE	Nigerian Association of Agricultural Economists
NAERLS	National Agriculture and Extension Research Liaison Services
NAPP	Nigerian Agricultural Policy Project
NGO	Non-Governmental Organization
NJAE	Nigerian Journal of Agricultural Economics
NSSP	Nigeria Strategy Support Program
PMP	Performance Management Plan
PCU	Project Coordinating Unit
SOPs	Standard operating procedures
SOW	Scope of work
UAM	University of Agriculture, Makurdi
US	United States
USAID	United States Agency for International Development
USG	United States Government

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1. PROGRAM OVERVIEW / SUMMARY

Program Name:	Feed the Future Nigeria Agricultural Policy Project
Activity Start Date and End Date:	July 1, 2015 – June 30, 2020
Name of Prime Implementing: Partner:	Michigan State University (MSU)
[Contract/Agreement] Number:	AID-620-LA-15-00001
Name of Subcontractors/Sub-awardees:	International Food Policy Research Institute (IFPRI)
Major Counterpart Organizations:	Federal Ministry of Agriculture and Rural Development (FMARD)
Geographic Coverage (cities and or countries):	Nigeria
Reporting Period:	April 1, 2019 – June 30, 2019
Project personnel mentioned in this report and their project role:	<p>Dr. Mulubrhan Amare (Associate Research Fellow, IFPRI)</p> <p>Dr. Suresh Babu (Senior Research Fellow, IFPRI)</p> <p>Dr. Bedru Balana (Research Fellow & Acting Chief of Party, IFPRI)</p> <p>Mr. Hyacinth Edeh (Research Analyst II & Country Program Manager, IFPRI)</p> <p>Dr. Hosaena Ghebru (Research Fellow, IFPRI)</p> <p>Dr. Saweda Liverpool-Tasie (Principal Investigator, MSU)</p> <p>Mr. Steve Longabaugh (Specialist, MSU)</p> <p>Dr. Michael Olabisi (Assistant Professor, MSU)</p> <p>Dr. Tom Reardon (Distinguished Professor, MSU)</p> <p>Dr. Laura Schmitt Olabisi (Associate Professor, MSU)</p> <p>Dr. Hiroyuki Takeshima (Senior Research Fellow, IFPRI)</p> <p>Dr. Oyinkan Tasie (Assistant Professor, MSU)</p>

This progress report summarizes the key activities undertaken by the Feed the Future Nigeria Agricultural Policy Project for the third quarter (April 1-June 30, 2019) of fiscal year 2018/2019.

1.1 Summary of Results to Date (Y4)

Table 1: Quarter 3 Progress actuals against FY 2019 targets

Below are the results obtained during the third quarter of FY 2019 for each indicator showing progress made in contributing to the FY 2019 target.

Project Indicator Title	Baseline Data	Project Annual Target	Project Annual Actual at Q1+Q2+Q3	Comment If yearly actual is 10% more or less than target	Annual Performance Achieved to End of Reporting Period (%)	Project Target ¹	Project Actual ²	LOP Performance achievement (%)
1. Number of papers (e.g., monographs, discussion papers, white papers, research reports, journal articles) completed as a result of FTF Nigerian Agricultural Policy Project activities that embody new information, knowledge	N/A	6	9	Annual target for this indicator has been met and surpassed. No data to be reported in Q3	150	43	65	151

¹ Project Target: These are numbers or percentages targeted for each indicator from Y1 – Y5 i.e. (Y1+Y2+Y3+Y4+Y5). It is important to note that some of the project indicators have been changed over the years, where some indicators were being dropped some were added in year 3 (indicator 6, 7&8 and Year 4 (indicator 3). This accounts for the significant increase in the target set for Y4.

² Project Actual: These are the actual numbers achieved for each indicator from Y1- Y4 i.e. (Y1+Y2+Y3+Y4 (Q1, Q2 &Q3). Actual data for indicators 6, 7 & 8 are from Y3 & Y4 (Q1, Q2 &Q3) while actual for indicator 3 is from Y4 which is an annual indicator, the reason for the zero number.

and best practices in guiding food security policies.								
2. Number of participants attending project organized research and policy events. (Annex B). Custom Indicator	N/A	1830	1625	Ok	89	3683	4224	115
3. Number of milestones in improved institutional architecture for food security policy achieved with USG support. Standard Feed the Future Indicator (FTF) EG.3.1-d	N/A	6	Annual indicator		NA	8		
4. Number of individuals participating in USG food security programs. (Annex C) Standard Feed the Future (FTF) Indicator EG.3.2	N/A	2805	Annual indicator		NA	4797	4324	90
5. Number of individuals who have received USG supported degree-granting non-nutrition-related food security training. (Annex D). Standard Feed the Future Indicator (FTF) EG.3.2-2	N/A	7	7	Annual target for this indicator has been met. No data to be reported in Q3	100	13	13	100
6. Number of organizations with increased performance improvement with USG assistance Standard Feed the Future (FTF) indicator 3.2-29	N/A	40	Annual indicator		NA	63		

7. Number of agriculture policy communications developed and/or written for stakeholder consumption. (Annex E). Custom Indicator	N/A	30	54	Annual target for this indicator was exceeded as a result of increased agricultural policy communication developed by project scholars in quarter 3	180	66	103	156
8. Number of public private advocacy dialogues focused on policy that supports private sector investment. Custom Indicator	N/A	4	3	OK	75	10	6	60
9. Index (or scorecard) of quality of agriculture and food security policy processes in Nigeria, as measured by stakeholder evaluation to capture level of satisfaction and confidence. Custom Indicator	1.206	NA	Semi Annual Indicator Biennial indicator		Semi Annual Indicator Biennial indicator	30% positive change from baseline result	1.44	
10. Index (or scorecard) of quality of the institutional architecture for agriculture and food security policy processes in Nigeria, as measured by stakeholder evaluation survey to capture level of satisfaction and confidence. Custom Indicator	1.342	NA	Semi Annual Indicator Biennial indicator		Semi Annual Indicator Biennial indicator	30% positive change from baseline result	1.74	

2. ACTIVITY IMPLEMENTATION PROGRESS

2.1 Progress Narrative

This narrative highlight progress made by the Feed the Future Nigeria Agricultural Policy Project in the implementation of the Year 4 work plan, which was submitted to United States Agency for International Development (USAID)/Nigeria on August 31, 2018, and finally approved by USAID/Nigeria on October 19, 2018. The Year 4 work plan is broken down into two main components: 1) Activities to enhance skills, training, and institutional capacity; and 2) Strengthening evidence-based policy process and promoting impact. The component on Policy driven collaborative research and analysis is not part of Year 4 workplan following clear instructions from USAID to drop this component in Year 4.

Component 1: A Strategy for Enhancing National Agriculture and Food Security Policy Capacity

1. Capacity building-training courses organized

The training courses organized by the Nigeria Agricultural Policy Project are demand driven. Consequently, participants for organized training courses are selected by Project partners requesting the training courses. The Project encourages emphasis on young researchers and gender balance wherever possible. The training courses can benefit the Project beneficiaries in several ways. On the one hand, they directly address capacity building needs. However, they also gradually provide the base to build a sustainable development process in this area by eventually having the current trainees becoming the trainers in the long term (thus, contributing to the sustainability of the Project activities beyond its life). The major activities undertaken in Q3 under Component 1 are summarized in Table 2 and narrated below the table.

Table 2: Indicator 4. Number of individuals participating in USG food security programs

Date	Location	Topic	Participants				
			Type	Male	Female	15-29	30+
1.1 FMARD/National Trainings							
1.1.1 FMARD/National Capacity Building and Mentoring Activities							
April 1-3, 2019	Kaduna	CSPRO based CAPI	NAERLS	16	9	17	8
April 4-5, 2019	Kaduna	Issues in Agriculture and Development	NAERLS	21	4	0	25
April 8-12, 2019	Abuja	Econometrics for Policy Analysis using Stata	FMARD	10	9	0	19
1.1.2 Universities							
April 8-12, 2019	Kebbi State University of Science and Technology	Econometrics for Policy Analysis using Stata	Academia	18	7	0	25
April 11-18, 2019.	Department of Agricultural Economics, University of Ibadan,	Data Analysis Training Using R	Academia	13	8	3	18
April 15-18, 2019	University of Ibadan	Econometrics for Policy Analysis using Stata	Academia	10	7	0	17
April 23-26, 2019	Ministry of Agriculture and Natural Resources, Kebbi State, Nigeria.	Data Analysis Training using R	Government, Academia	25	5	0	30
April 29 -30, 2019	University of Agriculture Makurdi	Issues in Agriculture and Development	Academia	22	4	0	26

Date	Location	Topic	Participants				
			Type	Male	Female	15-29	30+
May 6-7, 2019	University of Calabar	Issues in Agriculture and Development	Academia	17	5	0	22
May 10, 2019	Seminar Room of the Resource and Environmental Policy Research Centre, UNN	Workshop on Article Writing.	Academia	9	7	4	12
May 13 - 17, 2019	Ibrahim Badamasi Babangida University Lapai	Econometrics for Policy Analysis using Stata	Academia	14	4	1	17
May 13 - 17, 2019	Federal University Ndufu-Alike Ikwo, Ebonyi	Econometrics for Policy Analysis using Stata	Academia	15	5	4	16
May 16, 2019.	Ebonyi State University Abakaliki.	Workshop on Article Writing and Publication.	Academia	13	7	2	18
May 20 - 21, 2019	Kebbi State University of Science and Technology	Issues in Agriculture and Development	Academia	9	0	0	9
June 10-14, 2019	Delta State University	Econometrics for Policy Analysis using Stata	Academia	14	4	0	18
June 10-11 2019	University of Ibadan	Issues in Agriculture and Development	Academia	9	4	0	13
June 18-21	Ahmadu Bello University, Zaria	Econometrics for Policy Analysis using Stata	Academia	22	4	1	25
June 20, 2019	College of Agricultural Economics and Extension	Research Methodology Workshop: Step-down of AFRE 874 Contents	Academia	31	15	20	26

Date	Location	Topic	Participants				
			Type	Male	Female	15-29	30+
	Auditorium, Federal University of Agriculture Makurdi,						
June 26, 2019	Ebonyi State University	Research Methodology Workshop: Step-down of AFRE 874 Contents	Academia	34	30	1	60
1.2. State trainings and capacity building efforts							
April 1-3, 2019	Ebonyi	Group Dynamics	Private Sector	17	11	2	26
April 8-10, 2019	Niger	Group Dynamics	Farmer Groups	19	11	2	28
April 11-13, 2019	Niger	Group Dynamics	Private Sector	23	7	5	25
May 2 - 3, 2019	Benue	Issues in Agriculture and Development	Government	17	13	1	29
May 6 – 8, 2019	Kaduna	Monitoring and Evaluation	Private Sector	19	6	5	20
May 6 – 10, 2019	Benue	Econometrics for Policy Analysis using Stata	Government	17	8	4	21
May 9 – 10, 2019	Cross - River	Issues in Agriculture and Development	Government	16	8	0	24
May 20 – 22, 2019	Kaduna	Group Dynamics	Farmer Groups	27	4	0	31
May 22 – 23, 2019	Kebbi	Issues in Agriculture and Development	Government	22	4	0	26
May 23 – 25, 2019	Kaduna	Group Dynamics	Private Sector	23	3	2	24
May 31, 2019	Ministry of Ag., Makurdi	Farmer Training: An APP to make good Sustainable Land Management decisions.	Government, Producers, Academia	55	12	5	62
June 13 – 14, 2019	Oyo	Issues in Agriculture and Development	Government	13	9	0	22

Date	Location	Topic	Participants				
			Type	Male	Female	15-29	30+
June 26 – 28, 2019	Ebonyi	Monitoring and Evaluation	Government	15	7	0	22
3.3.1 Media engagement and training (state level)							
April 8-9, 2019	Delta	Policy Communications	Farmer Groups	18	4	0	22
April 10-11, 2019	Delta	Policy Communications	Private Sector	15	8	2	21
April 15 - 16, 2019	Cross - River	Policy Communications	Cross - River state journalists	12	6	0	18
April 17-18, 2019	Cross - River	Policy Communications	Private Sector	21	6	0	27
May 13 - 14, 2019	Kaduna	Policy Communications	Kaduna state journalists	12	11	0	23
May 15 – 16, 2019	Kaduna	Policy Communications	Private Sector	15	1	4	12
June 24 – 25, 2019	Cross - River	Policy Communications	Private Sector	23	6	2	27
June 26 – 27, 2019	Cross - River	Policy Communications	Farmer Groups	14	4	2	16

Activity 1.1 FMARD/National Trainings

1.1.1 FMARD/National Capacity Building and Mentoring Activities

Support to Federal Ministry of Agriculture and Rural Development (FMARD) remains one of the Project's key activities. During the third quarter, April 8 to 12, 2019, the project delivered a training course to 19 staff members (10 male, 9 female) of the FMARD on "Econometrics for Policy Analysis Using Stata" in Abuja. The training, which focused on concepts around statistical data analysis, results interpretation, and introduced participants to the STATA application, was geared at further enabling policy analysts to more effectively analyze data and make widely available quality evidence for policymakers.

1.1.2 National Trainings (universities, think tanks, research institutions, CBO's NGOs, farmer groups)

From April 1 – 3, 2019, a training course on Computer Assisted Personal Interviews (CAPI) using CSPPro was delivered to 25 participants (16 male and 9 female) of the National Agricultural Extension and Research Liaison Services (NAERLS) National Farmers Helpline, ABU Zaria, Kaduna State. This training was requested by the research institute, a demand - driven approach employed by the project to enhance the institutions' capabilities in computer assisted data collection and management. Likewise, the project delivered a training course on "Issues in Agriculture and Development" from 4 – 5 April 2019 to staff of the NAERLS National Farmers Helpline. The training course was attended by 25 participants (21 male, 4 female) and provided them with an overview of contemporary issues in agricultural policy, particularly for Nigeria. Topics covered included Land Governance, Climate Change, Nutrition and Food Security, among others. Trainees/participants are already applying the knowledge gained from the training to gather data for their surveys which is a major outcome. As a result of this training, it is expected that participants will have a better understanding of emerging issues in the agricultural sector.

In order to broaden knowledge on the linkages between agriculture and development, the project delivered a training course on "Issues in Agriculture and Development" in Benue state for researchers from the University of Agriculture Makurdi from 29 – 30 April 2019. The training was attended by 26 participants (22 male and 4 female). On 6 -7 May 2019, a similar training was delivered to 22 researchers (17 male and 5 female) from the University of Calabar and 13 participants (9 male and 4 female) from University of Ibadan on 10 – 11 June 2019. These trainings provided them with an overview of contemporary issues in agricultural policy, particularly for Nigeria. Topics covered included Land Governance, Climate Change, Nutrition and Food Security among others. Following the knowledge gained during the training, some of the participants are spurred to develop and carry out research activities around some of the thematic areas (Land Governance and Climate Change issues); thus, helping to close knowledge gaps in these areas.

As a result of this trainings, it is expected that participants will have a better understanding of emerging issues in the agricultural sector and spur participants to further carry out research activities in these areas.

During the reporting quarter, the project delivered a training course on "Econometrics for Policy Analysis Using Stata" for 25 (18 male, 7 female) academics and researchers of Kebbi State University

of Science and Technology, Aliero Kebbi State between 8 and 12 April 2019. Seventeen (17) participants (10 male, 7 female) from the University of Ibadan in Oyo State received similar course training between 15-18 and April 2019. The Project also delivered simultaneously the same course for lecturers and researchers from the Ibrahim Badamasi Babangida University, Lapai and the Alex Ekwueme Federal University Ndufu-Alike Ikwo, Ebonyi on 13 – 17 May 2019 to 18 participants (14 males and 4 females) and 20 participants (15 male and 5 female), respectively. Also, in the quarter, from 10-14 June 2019, a team of two (2) Project trainers facilitated the training course on “Econometrics for Policy Analysis using Stata” for 18 (14 males and 4 females) faculty members of Delta State University and 26 participants (22 male and 4 female) from Ahmadu Bello University, Zaria on 18 – 21 June 2019. The STATA trainings were designed to teach participants how to manage, analyze, and report findings from various types of economic data. Participants gained insights on how to handle data for evidence-based decision making. In addition to enhancing skills in analyzing data, participants were also introduced to several data sources which they can use in their analyses. For instance, participants were introduced to the World Bank’s Nigeria Living Standards Measurement Study (LSMS) data which is representative at the national level and can be used to inform various policies in the agricultural sector. Such an approach ensures that data is readily available and can be supplemented with primary data collected by participants for agricultural sector policy analysis. It is expected that this training course would enhance the capacity of participants to undertake evidence-based and technically robust researches that would generate relevant policy briefs and other outputs to guide informed decisions by both policy makers and implementers.

Activity 1.2 State Trainings and Capacity Building Efforts

1.2.1 Policy analysis, group dynamics, and issues in agriculture and development training/workshop for ministry staff and academics in the 7 FTF states and Policy Analysis for Priority areas

Nigerian agro-dealers in the private sector have increasingly begun organizing themselves into formal groups, particularly associations, in recent years. An essential aspect for the success of an agro-dealers’ association is its capacity to properly manage its assets, make strategic group decisions and create a balanced level of participation for all its members. It is in recognition of this fact that the Feed the Future Nigeria Agricultural Policy Project delivered a Group Dynamics training for agro-dealers in Ebonyi state from 1-3 April 2019 to 28 participants (17 male and 11 female). A similar training was delivered to private sector actors within the agro-inputs value chain in Niger State on 11 - 13 April 2019 to 30 participants (23 male and 7 female), and in Kaduna State on 23 – 25 May 2019 to 26 agro-dealers (23 male 3 female). Further, some selected farmer groups in Kaduna State also benefited from the same training delivered to 31 farmer groups (27 male and 4 female) on 20 -23 May 2019. In Niger State on 8 - 10 April 2019, 30 farmers (19 male and 11 female) from different groups within the targeted crop value chains received similar trainings. The trainings on Group Dynamics, which was targeted at the farmer groups and agro-dealers are aimed at improving the information sharing within the various groups and strengthening the intragroup dynamics within and across the various associations. The training course covered topics vital to the organization and effective running of a cooperative. Topics covered included Group Vision and Mission, working as a Team, Leadership, Communication, Conflict Management and Resolution, Group Decision-making, Group Registration, Mobilizing Resources, Planning and Implementation, and Organizing Records.

From 2 May to 14 June 2019, The Feed the Future Nigeria Agricultural Policy Project delivered four trainings course on “Issues in Agriculture and Development” to policy analysts at the various State Ministry of Agriculture and Natural Resources in Benue, Cross River, Kebbi and Oyo States. The two-day training was attended by 30 participants (17 male, 13 female) in Benue state on 2 -3 May 2019, 24 participants (16 male, 8 female) in Cross River state on 9 -10 May 2019, 26 participants (22 male, 4 female) in Kebbi state on 22 -23 May 2019, and 22 participants (13 male, 9 female) in Oyo state on 13 – 14 June 2019. The trainings on Issues in Agriculture and Development are meant to provide basic understanding on land governance, climate change, food & nutrition security, and project evaluation in Nigeria’s agricultural sector for policy analysts and programme officers.

As part of efforts towards strengthening the capacity of Nigerian analysts to produce evidence that is relevant to agricultural policy, a Project staff and two previously trained beneficiaries of the training course carried out a training for staff of the Benue State Ministry of Agriculture and Natural Resources and the State Bureau of Statistics from 6 - 10 May 2019 in Benue state. A total of 25 participants (17 male, 8 female) were trained on the use of STATA for data analysis in agricultural research, with a combination of demonstrations and practical exercises. As a result of the training, it is expected that participants will enhance their ability to manage and analyze data to better inform policies. Also, the involvement of the previously trained beneficiaries is expected to further enhance the trainers’ capacity and a step taken to ensure sustainability of the Project’s impact.

Accurately measuring performance and results is an essential part of successfully implementing any policy. Therefore, it is imperative to emphasize the importance of having robust capacity for monitoring and evaluation (M&E) of the agricultural sector in Nigeria at all levels. As part of its commitment towards bolstering the national capacity for evidence-based decision-making in agriculture, the Project delivered a training course for staff of the Ebonyi State Ministry of Agriculture and Natural Resources from 26- 28 June 2019 in Ebonyi State. The course, titled “Monitoring, Evaluation and Learning” which was attended by 22 participants (15 male, 7 female) covered topics such as development hypothesis, data collection, data management, and the development of result and logical frameworks, and preparation of performance indicator reference sheet. It is expected that the course has equipped participants with the knowledge and skills to more effectively carry out their work in this important area of performance measurement.

Through the support of the Policy Project Kebbi State Government and Kebbi State University of Science and Technology Aliero launched a seminar/brown bag series to increase interaction between academia, the government and other stakeholders in the agricultural sector in the state. On April 23, 2019, the first brown bag seminar was hosted by the Kebbi State Ministry of Agriculture and Natural Resources. Prof. I. U. Mohammed, Dean of Faculty of Agriculture, Kebbi State University of Science and Technology Aliero presented research findings on Cassava Mosaic Virus in Northern Nigeria. The title of the presentation was; “The increased incidences of East African cassava mosaic virus in northern Nigeria”. In attendance were officials of the various ministries of the Kebbi State Government, NGO’s as well as Faculty and Graduate Students of the Kebbi State University of Science and Technology. 53 Participants (Male: 49, Female: 4) attended the Brown Bag.

On May 31, 2019, Mrs Blessings Agada (NAPP Scholar) provided a training to 67 (male: 55 and female: 12) participants drawn from the 23 Local Government Areas (LGAs) of Benue State in the Middle Belt of Nigeria. Participants were made up of farmers, Extension agents, directors, ministry staff, undergraduate and graduate students from the Soil Science dept. of the University of Agriculture

Makurdi UAM. The training featured an app³ that helps users make good sustainable land management decisions. The APP helps them to collect geo-located data about their soils, vegetation and site characteristics, giving back useful results and information about the site to its users. This demonstrates how the NAPP scholars, upon return home continue to lead and give back via training and capacity building activities.

Activity 1.3: Nigerian Graduate Student Capacity Building

1.3.1 Project scholars

In this quarter, three project scholars (PhD candidates) completed their first of two semesters of study at Michigan State University (MSU) and returned to Nigeria for the summer to take part in project activities. In line with the structure of the project scholars' program, each of the 3 scholar's program activities were developed individually based on the scholar's level and needs and in conjunction with their Nigerian academic advisor and their project mentor. During quarter 3 of year 4, each of the 3 scholars followed a scope of work with the active participation of all these stakeholders and all 3 of them took courses to strengthen their identified knowledge and research gaps. The objective is that the scholars be prepared and experienced to conduct empirical research. And to train others on particular aspects of research design and implementation, data analysis and dissemination of research findings.

During this quarter, the three scholars engaged with the University community in several ways beyond their classes and interaction with their mentors. Each scholar presented their work at 2 different campus events. These presentations provided the students opportunities to practice communicating their research to technical audiences while getting feedback on their work. In addition to sharing knowledge about Nigerian issues, these presentations also created opportunities for the project and USAID investments in Nigeria to be shared with faculty and students.

NAPP project scholars introducing strategies to improve research to their home institutions.

- Based on her experience attending weekly brown bag seminar series in the Dept. of Agricultural Economics while at Michigan State University during the spring, NAPP Scholar, Mrs. Hephzibah Onyeje Obekpa (University of Agriculture Makurdi) has introduced the concept to her department. During Quarter 3, she organized the first "Brown Bag" presentation for College of Agricultural Economics and Extension Auditorium, Federal University of Agriculture Makurdi. During the seminar series, two presentations were given by graduate students:
 - 1) Assessment of perturbations in rural Benue and Nassarawa States by Kusa Yusuf a PhD student. (A pre-field Presentation)
 - 2) Investment Appraisal of Sesame Production in Benue State by Jenny Essein an MSc student (post-field presentation).

This first "brown bag" was held on 3 June 2019. Participants were from Academia and were made up of Male: 16, and Female: 10. The aim of the activity was to provide an opportunity for young scholars to present their work and get constructive feedback on their in a friendly environment. This demonstrates that best practices from MSU are being adopted by participants in the NAPP scholars' program with their conviction that the quality of research

³ an application, especially as downloaded by a user to a mobile device.

activities in their home institution can benefit from them. This is very much in line with the NAPP capacity strengthening focus for Nigerian scholars to adopt and innovate to improve the quality of Nigerian scholarship.

- **Upon return home to Nigeria for the Summer, Project scholar** Mrs. Balaraba Abubakar Sule (Federal University of Technology Minna) made a presentation at her home institution about her experience as a NAPP scholar. She presented a talk titled “Short-term Visiting Scholars’ Program: Feed the Future Nigeria Agricultural Policy Project – My Experience” on 31 May 2019. Participants (39): Academia, Male: 32, Female: 7.

Trainer of trainers: The Policy Projects’ Scholars program trainer of trainer approach to ensure that knowledge gained by scholars is shared with others.

During this quarter, all 3 NAPP scholars arranged step down courses to share some of the knowledge gained via their University courses taken under the project.

In quarter 3, Nigerian scholars’, including previous NAPP Scholar participants, led three trainings on article writing. The University of Nigeria, Nsukka, requested article writing training and sponsored the event for 16 faculty and students. The training was facilitated by Dr. Mrs. Opat, a participant in the jointly organized training on article writing by The Policy Project and the Nigerian Association of Agricultural Economists) in October 2018 and one of those whose paper had been shortlisted for support towards publication.

Outreach Pamphlets for dissemination to households and communities produced by project scholars.

The project continues to strive to ensure that research efforts translate to relevant practical output for Nigerians in addition to (but beyond) policy makers). In this regard, project scholars, working alongside their project mentor and home institution supervisor developed new pamphlets (based on their research) for dissemination to the Nigerian public.

- 1) [Urban Agriculture and Food Security in Nigeria](#). Chukwudi Charles Olumba. May 2019
- 2) [Reduction of Post-Harvest Losses in Onion Production](#). Balaraba Sule. May 2019
- 3) [Dietary Diversity isn’t far-fetched](#). Hephzibah Onyeje Obekpa. May 2019+

During quarter 3, these briefs were distributed to the ministries of agriculture and health in Benue, Niger and Ebonyi States.

Program Highlights produced by Project Scholars documenting their experiences (research and personal) as project scholars

- 1) [Training Workshop on "R" for Graduate Students and Staff of Faculty of Agriculture, University of Ibadan, held at the Department of Agricultural Economics, University of Ibadan, Nigeria from April 11-18, 2019](#). Highlights 47, Dr. Osayanmon Wellington Osawe, April 2019.
- 2) [Highlight of the Training Workshop on "Article Writing" at the Department of Agricultural Economics, University of Ibadan, Nigeria](#). Highlights 46, Wellington Osawe, April 2019.
- 3) [Lunch at the Thirteenth Annual "Hero Luncheon"](#). Highlights 45, Chukwudi Charles Olumba, April 2019.

- 4) [My Presentation at Michigan State University's Brown Bag Series](#). Highlights 44, Chukwudi Charles Olumba, April 2019.
- 5) [Cranium to Classroom: A Scholar's Perspective](#). Highlights 43, Hephzibah Onyeje Obekpa, April 2019.

Training facilitated by Project Scholars

All effort was made to maximize the project's training reach by leveraging the presence of the current Scholars' return to Nigeria during the summer of 2019 along with the continued contribution of the NAPP Scholar Program alumni. Training was conducted on article writing as well as on the open source R statistical analysis package. This demonstrates how high-quality training can be delivered through joint collaboration between scholars on different parts of the globe, including scholars from different institutions in Nigeria. It also demonstrates how the policy project tries to maximize the benefits of training at minimal costs. Details about the trainings follow:

1. Data analysis using R by Dr. Wellington Osawe, Mrs. Blessing Agada and Mr. Philip Hegarty. Department of Agricultural Economics, University of Ibadan, Nigeria. 11-18 April 2019. Participants: Academia (Males: 14, Females: 12).
2. Data analysis using R held at the Ministry of Agriculture and Natural Resources, Kebbi State, Nigeria. Dr. Wellington Osawe, Mrs Blessing Agada and Mr. Philip Hegarty. 23-26 April 2019. Participants: Government, Academia (Males: 25, Females: 5).
3. Workshop on Article Writing. Mr. Iredele Ogunbayo & Dr. Patience Opata. Seminar Room of the Resource and Environmental Policy Research Centre, UNN. May 10, 2019. Participants: Academia (Males: 9, Females: 7).
4. Workshop on Article Writing and Publication. Mr. Iredele Ogunbayo & Onyinye Prince Choko, Ebonyi State University Abakaliki. May 16, 2019. Participants: Academia (Males: 14, Females: 11). Need to verify the numbers and Gender
5. An Application (APP) to make good Sustainable Land Management decisions. Blessing Agada, Ministry of Ag., Makurdi. 31 June 2019. The participants comprised of 56 men and 12 women from government, producers, and academia.

Blog Content Supplied by the Project Scholars

In this quarter, the NAPP Scholars produced blog submissions as means for enhancing discussions around agricultural policy issues. Each NAPP Scholar currently studying authored blog pieces on an agricultural issue drawn from their research area and relevant to several states. These pieces appear on the project website and continue to receive wide readership.

Mentoring following the article writing training done last October.

As part of the policy project's support for capacity strengthening, a training workshop on Journal Article writing for 20 young Nigerian scholars was jointly organized. The two-day training workshop led by Profs. Thomas Reardon and Liverpool-Tasie of Michigan State University was delivered digitally using a series of videos and facilitated by Nigerian collaborators and project scholars. This activity demonstrates how the policy project, innovatively working with Nigerian partners, leverages on digital technology to provide training. Following the training, participants were invited to submit journal article introductions applying the principles from the training. Two project faculty and 2 NAAE senior Nigerian scholars reviewed the submissions and provided detailed comments on the introductions. Each participant received 2 sets of comments; one from project faculty and another from the senior NAAE Nigerian scholars. The 3 best submissions were shortlisted and in quarter 3, the project, alongside the NAAE worked with these young scholars on their complete papers towards eventual publication in a peer reviewed journal. During quarter 3, the project reviewed the final papers

and they have all been submitted for consideration in peer-reviewed journals. This demonstrates how the policy project is working with local senior scholars to support the next generation of Nigerian scholars to be able to produce high quality research output for publication in peer reviewed journals which are acceptable to Nigerian policy makers and other stakeholders. It also demonstrates how the project's capacity building activities extend beyond training to mentoring considered necessary for true sustainable capacity development. The three papers under review are:

- 1) What Drives the Adoption of Climate Smart Agricultural Practices? Evidence from Maize Farmers in Northern Nigeria, by Funminiyi P. Oyewole
- 2) Willingness to Accept Incentives for a Shift to Climate-smart Agriculture by Dr. Mojisola O. Kehinde
- 3) Impact of Women's Share of Income on Household Expenditures in South East Nigeria, by Dr. Patience Ifeyinwa Opata

Activity 1.4: Media engagement and Training at Federal and the State Level (Agricultural Communication and Policy Advocacy)

Media engagement (Federal and State Levels)

In two trainings organized between 9 and 11 April 2019, the Project trained 22 farmers (18 male and 4 female) on 8 – 9 April 2019 and 23 agro-dealers (12 male and 6 female) representing the private sector on 10 – 11 April 2019 in Delta State on Policy Communications. The participants were introduced to basic concepts of policy communications, the use of social media for both disseminating and tracking policy communications effectively and publicly available sources of information related to agricultural policy in the Nigerian context. The training is part of efforts by the Project to enhance Nigeria's agricultural policy environment. It is expected that trainings such as this would equip stakeholders and players in the agricultural sector to advocate, share and use evidence to drive sound policymaking and implementation in the country.

A team of two trainers from the Project delivered policy communications training courses to 18 journalists (12 male and 6 female) on 15 – 16 April 2019 and 27 agro-dealers (21 male and 6 female) on 17 – 18 April 2019 in Cross River State. The journalists were from various media houses (including print and television) within the state while on the other hand, the agrodealers represented various agribusiness enterprises in Cross river state. In the two trainings, participants were introduced to basic concepts of Policy Communications, the use of social media for disseminating information and engaging in policy discussions and sources of information relevant to agriculture.

In a move towards strengthening the capacity of Nigeria's journalists to effectively contribute to national discussions on agricultural issues, a team of two (2) trainers from the Project facilitated a Policy Communications training course for journalists in Kaduna state on 13 and 14 May 2019. The training was attended by 23 journalists (12 male and 11 female) from various media houses including print, radio and television. A similar training was delivered to some selected private sector actors within the rice and maize value chains in Kaduna state on 15 – 16 May 2019. Sixteen (16) participants attended the Policy Communication training. The training course covered the source of information relevant to agricultural policy, the use of social media for policy communications, and good practices in the building of social media audiences for agricultural policy.

Between 24 and 27 June 2019, the Project delivered two policy communications training courses in Cross River State: one on 24-25 June 2019 for the private sector where 29 agro-dealers (23 male, 6 female), and another on 26 -27 June 2019 where 18 farmer groups (14 male, 4 female) participated. During the training, participants were introduced to basic concepts of Policy Communications, the use of social media for disseminating information and engaging in policy discussions and sources of information relevant to agriculture. It is expected that following this training the capacity of the agro-dealers in the private sector and farmer groups in disseminating useful information and policy discussions within their formal and informal groups in the formulation of agricultural policies in Nigeria would be enhanced.

Activity 1.5: Engagement with non-government stakeholders (e.g. civil society, NGOs, and think tanks) with particular focus on FtF states #1

1) Interactions with the Agricultural Policy Research Network (APRNet)

As part of efforts towards promoting agricultural policy research and communication in Nigeria, the Nigeria Agricultural Policy Project supported the Agricultural Policy Research Network (APRNet) on its 11th APRNet policy seminar held in Minna, Niger state on 23rd May 2019. Following a request from APRNet, the project acting Chief of Party Dr. Bedru Balana provided support to the draft communique of the seminar. The project has been interacting with members of the Network who serve as think tanks for the policy project.

2) Interactions with the Association of Deans of Agricultural Universities (ADAN) in Nigeria

This quarter, the Project has continuously worked closely and guided by ADAN towards the delivery of capacity building initiatives for universities in the 7 FtF focus states. The project has also been in touch on a weekly basis with ADAN Senior Management to ensure that training courses take place as planned and targeted for ADAN members particularly in the FtF focus states. Researchers from different universities within the relevant states were selected by ADAN to participate in the trainings. Please see activity 1.1.2 for further details on this.

3) Interactions with the Agricultural Donor Working Group (ADWG)

The project serves as one of the four committee members drafting the ADWG Policy Brief entitled 'Moving Fast with the *Promotion of the Agricultural Sector in Nigeria: Challenges, Priorities and Opportunities for 2019-23 and Beyond*' to the Government of Nigeria. After comments on the draft Policy Brief from various members of the ADWG, the project led revision of the policy brief. The policy brief is now finalized and submitted to the co-chairs of the ADWG.

4) Meeting with the Foundation for Partnership Initiatives in the Niger Delta (PIND)

Following the monitoring visit of the FtF Nigeria Agricultural Policy project in Delta state by USAID during the quarter, the project was introduced to PIND and some of their beneficiaries in aquaculture for possible areas of collaboration in terms of capacity building and some other policy activities being implemented in Delta state. One of the areas identified for immediate collaboration was the development of the Delta State agricultural policy document. During the introductory meeting with PIND, it was discovered that both PIND and NAPP have been working independently to help develop the State's agricultural policy document. To avoid the duplication of efforts, the Project held a meeting with PIND on 19 June 2019 to synergize and align activities geared towards the development of the policy document. A major resolution of the meeting was a consensus to engage the relevant officials of the State's Ministry of Agriculture and

Natural Resources on how to more efficiently undertake activities to develop the policy document for the State.

5) Collaboration/Coordination with other FtF Implementing Partners (IPs)

In this quarter, the Nigeria Agricultural Policy Project collaborated closely with four of the FtF implementing partners. Two meetings were held on (2nd of May and the 16th May 2019) among the four IPs i.e., the Agriculture Policy Project, PIATA (AGRA), the Maize Quality Improvement Activity, and the Agribusiness Investment Activity to develop a joint document highlighting areas of collaboration and to discuss how to implement the actual collaboration on common areas. On 07 June 2019, the IPs gave a presentation on the agreed areas of collaboration to the FtF/USAID (at the US embassy). In an FtF/USAID field mission to the Delta State (May 9- 15), the State Coordinator for the ‘Agribusiness Investment Activity’ accompanied the field mission for the entire period of the field visit to learn lesson from Agriculture Policy Project. The Policy project has also invited the ‘Agribusiness Investment Activity’ to its seminars held in Abuja, Ebonyi and Kebbi State. The project and AGRA/PIATA have established an understanding to collaborate on agricultural extension work in Niger State. NAPP project and the Maize Quality project are collaborating on aflatoxins in Kaduna State.

6). Collaboration with the Nigerian Association of Agricultural Economics (NAAE):

As part of the policy project’s support for capacity strengthening, a training workshop on Journal Article writing for 20 young Nigerian scholars was jointly organized by the Project and the NAAE in October 2018. As part of mentoring, following the training, participants were invited to submit journal article introductions applying the principles from the training. Two project faculty and 2 NAAE senior Nigerian scholars reviewed the submissions and provided detailed comments on the introductions. Each participant received 2 sets of comments; from project faculty and another from the senior NAAE Nigerian scholars. The 3 best submissions were shortlisted and in quarter 3, the project, alongside the NAAE worked with these young scholars on their complete papers towards eventual publication in a peer reviewed journal. During quarter 3, the project reviewed the final papers and the papers were submitted to peer reviewed journals. NAAE agreed to consider the best publications for inclusion in their 2019 journal and two of the three publications are currently under review at the NAAE. The third paper submitted to another international peer reviewed journal. This demonstrates how the policy project is working with local senior scholars to support the next generation of Nigerian scholars. It also demonstrates how the project’s capacity building activities extend beyond training to mentoring considered necessary for true sustainable capacity development. Finally working through the NAAE, the project is able to reach a much broader group of actors in agriculture than is possible with individual universities.

Component 2: Policy driven collaborative research and analysis.

Following a meeting with USAID at the US Embassy on July 26, 2018, the Project was requested to focus on using the findings and recommendations from the over 26 research studies to implement Components 1 and 3 in Year 4 of the Project implementation, and not to undertake further research in Year 4. This should be geared towards capacity building and dissemination and for promoting policy dialogue efforts. Thus, in year 4, the project is not engaging in any research beyond support offered to the project scholars. The project is focusing on capacity building and dissemination of the research output that emanated from years 1-3.

Component 3: Strengthening evidence-based policy process and promoting impact

Activity 3.1: Strengthening Policy Process by bridging the gap between “knowledge providers” and “knowledge users”: Outreach, engagement and Dissemination of Results from component 2

1) A. National Level Dissemination

Under this component, the Nigeria Agricultural Policy Project seeks to systematically bring together various stakeholders and actors in the policy process to share knowledge that can contribute to improved policy processes. As part of its capacity strengthening activities in Nigeria, the project has further supported Nigeria’s Federal Ministry of Agriculture and Rural Development (FMARD) in its move to coordinate the development of an extension policy for the country. From 14-24 May 2019 Dr. Suresh Babu worked closely with FMARD’s Department of Agricultural Extension (FDAE) in Abuja and Niger State Ministry of Agriculture and Natural Resources on the following areas:

- 1) Workshop on Extension Policy implementation for FMARD staff that included the Departments of Agricultural Extension, and Planning and Policy Coordination held in Abuja 14 May 2019. A total of 33 participants (19 male, 14 female) attended the workshop.
- 2) 15 May 2019, A seminar on extension policy implementation for Directors from the FMARD Office in Niger State, the Agricultural Development Programme (ADP) and Niger State Ministry of Agriculture and Natural Resources was conducted for 36 participants (24 male, 12 female)
- 3) A workshop for key stakeholders on Extension Policy Implementation in Niger State with participants from various organizations along the value chain including research institutions, farmers’ organizations, processors, policy makers, extension agents, etc.
- 4) A consultative meeting with Directors from Niger State to finalize the Extension implementation plan for the state.
- 5) A presentation to the Permanent Secretary and all the Directors of the FMARD of the pilot implementation plan for the National Agricultural Extension Policy.

Mrs. Karima Babangida, Director of Extension at the FMARD, in expressing her thanks stated that “Through these activities, the Department has been able to sensitize the key stakeholders on the policy objectives, shared information with the various public and private organizations intervening in extension system and consulted with a variety of stakeholders on implementation design. This process was inclusive, and will no doubt promote ownership of the policy and its implementation.” She expressed that FMARD was confident that it could now carry out an extensive mapping of the various actors and their activities in Niger State with a view to identifying the gaps that require attention and, to finalize the implementation design for Niger State.

During the week of May 20, the climate change research team led by Dr. Laura Schmitt-Olabisi and Dr. Oyinkan Tasié held a collaborative dissemination workshop on climate change in Abuja with the Department of Climate Change, Federal Ministry of Environment. The Workshop was on climate change and climate change resilience in Nigeria pertaining to Agriculture. Participants at the workshop included officials from the Federal Ministry of Agriculture & Rural Development, Federal Ministry of Women Affairs, Federal Ministry of Information and the host Ministry, Federal Ministry of Environment. Members of the Media were also in attendance. The event was chaired by the Permanent Secretary, Federal Ministry of Environment Mrs. Ibukun Odusote.

B. State Level Dissemination of Research Findings:

In two research seminars held in Benue (17 May 2019) and Kebbi states (24 May 2019), the project engaged 119 researchers and policy analysts, including key government officials (69 male, 50 female) on issues related to policies around child nutrition in Nigeria. In the both seminar presentations titled “Urbanization, Child Undernutrition and Public Health in Nigeria”, Dr. Mulubrhan Amare presented the key research findings from three studies completed by the International Food Policy Research Institute under the Feed the Future Nigeria Agricultural Policy Project between 2016 and 2018.

- 1) Mulubrhan Amare, Todd Benson, Olusegun Fadare, and Motunrayo Oyeyemi (2018): Study of the determinants of chronic malnutrition in Nigeria, published in Food And Nutrition Bulletin <http://www.ifpri.org/publication/study-determinants-chronic-malnutrition-northern-nigeria-quantitative-evidence-nigeria-0>
- 2) Mulubrhan Amare, Channing Arndt, Kibrom A. Abay and Todd Benson (2018): Urbanization and Child Nutrition Outcomes, published in The World Bank Economic Review. <http://www.ifpri.org/publication/urbanization-and-child-nutritional-outcomes-0>
- 3) Kibrom Abay and Mulubrhan Amare (2018): Night Light Intensity and Women’s Body Weight: Evidence from Nigeria, published in Economics and Human Biology. <http://www.ifpri.org/publication/night-light-intensity-and-womens-body-weight-evidence-nigeria>

Specifically, the research findings highlighted the following:

- 1) The burden of chronic malnutrition – in particular, undernutrition – in northern Nigeria is one of the heaviest globally. Close to half of all children under five years of age in the Northeast and Northwest geopolitical zones were estimated to be stunted in their growth for their age in 2013, compared to 22 percent in the rest of Nigeria;
- 2) Accelerated progress on all the factors that contribute to improved child nutritional status will be needed in northern Nigeria if young children in coming generations there are to realize their physical growth potential to the same degree as young children in other areas of the country;
- 3) Strong evidence of the need to treat the nutritional challenges of northern Nigeria quite differently than how nutritional challenges are addressed in other areas of Nigeria;
- 4) Higher light intensity tended to match with lower rates of stunting among children;
- 5) At higher levels of light and urbanization, stunting figures rise—indicating that as cities grow bigger the benefits of urban life brings for reducing undernutrition may become less accessible;
- 6) Doubling the average level of night light intensity results in a 10 percent increase in the probability of overweight women;
- 7) Expanding towns can be more effective in reducing poverty levels than the expansion of mega cities; and
- 8) Understanding the complex dynamics of urbanization and the resulting nutrition transition highlights the need to tailor efforts to reduce negative health impacts like child stunting and women’s overweight in developing countries, while emphasizing context specific solutions.

In quarter 3, a one-week dissemination activity was carried out by the climate change research team to disseminate research findings in Ebonyi state. The dissemination event led by Dr. Laura Schmitt-Olabisi and Dr. Oyinkan Tasie included meetings with dignitaries in the state, a stakeholder consultation in the state capital and various community meetings across the state.

On May 7, 2019. The project team met with the Commissioner for Agriculture and Rural Development for Ebonyi State, and with representatives from the Ministries of Environment, Women Affairs, and Education as well as the Vice Chancellor of Alex Ekwueme Federal University, Ndufu-Alike, Ikwo. The project team also met with the Traditional Rulers Council led by the Chairman, His Royal Highness, Igwe Charles Mkpuma. In addition to discussing project activities that had taken place in the state, the project team learned of current and planned activities of the various ministries. On Wednesday, May 8, the project team held an interactive stakeholder consultation in the agricultural sector in Ebonyi with 116 participants, including 106 representatives from the media, private sector, farmers and community leaders, academics, and representatives from the state ministries. Following the presentation of research findings, series of discussions were held. Focus group discussions to synthesize the findings and point out the way forward/application of the results were done.

During the focus group discussions, it was apparent that there is currently limited coordination among the various ministries around climate change. In addition, many farmers are not receiving training or resources to implement these strategies, yet they are engaged in several climate change adaptation strategies. It appears that there are opportunities for both the state-level ministries and other farming communities to learn from the farmers already implementing best practices for erosion control and farm-scale resilience. There is apparently a need for two-way communication, because farmers appear to be much more aware of the impacts of climate change than the ministry thinks they are.

Following the two-day general dissemination event, the research team also went to two of its study communities (where data had been collected and analyzed on community level adaptations) to share research findings and engage with the communities on the implications of the studies. Both of these community engagements were in Ebonyi State. At the Akpoha Local Government on May 14 there were 114 participants (Male 74 and Female 39). At the Onueyim Local Government, on May 16 and 17 there were 247 Participants (Male-113, Female- 134).

During the team visit to Ebonyi, Dr. Laura Schmitt-Olabisi and Dr. Oyinkan Tasié, along with Dr. Chukwuma Okereke, Prof. J.N Afiukwa (two local faculty members from Ebonyi State University) were guests on Radio Nigeria Unity FM Abakaliki. The host was Ms. Eudora Ibiam and the topic was: Climate Change and Agriculture in Nigeria, focus on Ebonyi State. The 30-minute interview took place on Friday May 10 at 9:30 a.m. The invitation was sequel to the host's participation at the Climate Change Stakeholders forum held at Clevero Hotel, Abakaliki, Ebonyi State. Radio Nigeria Unity FM Abakaliki is purported to be a cosmopolitan community/rural based broadcast outfit reaching approximately a 90-mile radius from Abakaliki and about 5,000 – 7,000 listeners.

Further, from May 6 – 10, the Project in collaboration with the University of Nigeria held a training workshop on sustainable livestock and dairy production. Relevant Directors responsible for Livestock and Grazing Reserves from Cross River, Delta, Ebonyi, Kebbi and Niger States participated in the workshop. The newly launched National Livestock Transformation Plan (NLTP 2019 – 2028) formed the basis of the workshop as applicable to the respective Project States and areas of integration for non-Project Focus States.

Over the period spanning 11-25 June 2019, Dr. Hiroyuki Takeshima delivered four research seminars to an overall audience of 253 representatives from government and academic circles (198 male, 55 female) in four states of Nigeria. The research seminar entitled “Recent research findings on seed varieties, irrigation, and agricultural mechanization in Nigeria” presented policy-relevant findings from studies carried out on the Feed the Future Nigeria Agricultural Policy Project involving researchers

from the project, the Agricultural Research Council of Nigeria and the University of Ibadan between 2016 and 2018. Dr. Takeshima presented the following recommendations for any entity interested in staging an intervention aimed at improving seed varieties, irrigation and agricultural mechanization:

- 1) Nigeria needs to increase public support for the agricultural sector, and agricultural R&D (including plant breeding) as it is one of the most cost-effective ways to raise the agricultural productivity.
- 2) It is important to recognize that the large irrigation dams can affect significant geographic areas (including neighboring hydrological basins which are as large as average LGAs in Nigeria).
- 3) For supporting agricultural mechanization, government can play important roles in gathering and mobilizing information / knowledge.

The above research seminars are part of activities aimed at disseminating evidences relevant to policymaking on the Project

2) Support to FMARD policy processes

Support to FMARD remains a key objective of the Project. The Project has continuously strengthened the good partnership with FMARD since inception. FMARD has a representative on the Policy Project's National Advisory Committee and the Project had regular meetings with FMARD senior management during the quarter to discuss the implementation of project activities, including capacity-building, in order to fill important capacity gaps within the Ministry for the successful implementation of FMARD's Agriculture Promotion Policy (APP). On 6 June 2019, the project held a meeting with the new leadership of Project Coordinating Unit of the Federal Ministry of Agriculture and Rural Development on training and seminar needs. Expected dates for activities will be communicated by PCU in Q4. Please see component 1.1.1 for further details on training courses delivered for FMARD during the quarter.

Activity 3.2 Support for state agricultural policy development (or review) for FTF states

3.2.1 Support for State Agricultural Policy Development (or review) Delta State and Ebonyi State (FTF states)

During the third quarter, the project visited both Delta and Ebonyi states to make further progress on the development/review of the current agriculture policy documents in the above two states with support from the Feed the Future Nigeria Agricultural Policy Project. On 20 May 2019, the project had a meeting with relevant stakeholders from the Delta State University, think tanks, senior officials of State Ministry of Agriculture and Office of the Governor to further discuss steps for the development of the State Agriculture Policy document. A streamlined ad-hoc committee was set up with actionable deliverables to review the Delta state current draft zero of the agriculture policy document shared by the State Ministry of Agriculture to be finalized in quarter 4 in line with the workplan for Year 4. In the case of Ebonyi state, on 27 June 2019, the Project had engagement with the newly appointed Permanent Secretary of the Ebonyi State Ministry of Agriculture and Natural Resources on the state agriculture policy document development. Several previously planned meetings could not hold due to non-availability of substantive Commissioner and/or Permanent Secretary for the State Ministry. The Permanent Secretary was only appointed in June 2019 and Commissioner yet to be appointed.

3.2.2 Support for Kebbi State Policy Development, Completion, and Implementation

The project team continued engagements with the Kebbi State Ministries of Agriculture & Natural Resources and the Animal Health, Fisheries and Husbandry. On April 23, a Ministry wide validation meeting hosted by the Permanent Secretary of the State Ministry of Agriculture and Natural Resources was held. Further input was received and incorporated; and a reviewed draft is ready for submission. During this quarter, the project continued with the coordination of the discussions on developing a state government programme to be driven by the private sector for entrepreneurs and young people in the state. The proposed programme will provide practical training of the state selected beneficiaries along the entire value chain, and thereafter establish them in clusters supported by the State government in any of the four agricultural development zones. Progress in finalizing the proposed programme has been delayed due to the electioneering campaigns and the delay in the constitution of a State Executive Council.

3. INTEGRATION OF CROSSCUTTING ISSUES AND USAID FORWARD PRIORITIES

Gender Equality and Female Empowerment

Gender is a critical issue, and this is reflected in capacity building initiatives undertaken by the Project. Capacity building activities in the third quarter continue to consider gender as an important element in the selection of beneficiaries for Project activities. Where possible, the Project makes a deliberate attempt to ensure that there is as equal participation of both males and females (as possible) ensuring that both gender groups are represented and appropriately benefit from capacity building activities.

When recruiting individuals to be trained or to participate in relevant activities, the Project strives to achieve gender balance in participants. Where recruitment is done by our partners, we inform them of our strong interest in gender balance. With regards to training courses, courses organized by the Nigeria Agricultural Policy Project are demand driven by the Project's partners. Consequently, participants for organized trainings are selected by Project partners requesting the training course with the Project encouraging emphasis on young researchers and gender balance wherever possible. In this third quarter, 27 percent of the total participants trained by the project were female while 73 percent were male. The project will continue to ensure increase in female participation in the project activities to ensure gender balance.

4. M&E PLAN UPDATE

During the third quarter, the project Monitoring and Evaluation unit developed an Organizational Performance Index measurement tool (OPI) to measure one of the recently included standard indicators titled **EG.3.2-29 Number of organizations with increased performance improvement with USG assistance**. This indicator measures whether USG-funded capacity development efforts have led to improved organizational performance in organizations receiving organizational performance improvement support. The project is employing a performance improvement and measurement tool endorsed by USAID which is the OPI, which can be used for assessing performance across multiple domains. The OPI is an approach that helps set up baselines and measure

change in organizational performance over time. It consists of a tool – the OPI – and a process that shapes data collection, analysis and usage. The OPI goes beyond measuring the short-term gains from capacity development such as “new systems in place”, “dedicated human resources personnel hired”, or “governing board set up.” Rather, the process assists the project and partners to understand the extent to which these outputs of capacity development support positive changes in the way organizations deliver services, relate to their stakeholders and react to changes in the external environment.

The Project also continued to share capacity building activities conducted in focus FTF states in the third quarter with USAID in a dedicated online folder.

Staff Developments

At the end of this quarter:

- The staff at the IFPRI Office in Abuja includes: A Research Fellow (Acting Program Leader / Chief of Party), a Country Programme Manager, 3 Research Analysts I, a Senior Program Assistant, a Program Assistant, a Communications Specialist, a Communications Assistant, an M&E Specialist, an M&E and Policy Communications Assistant and 2 drivers.
- The staff at MSU associated with this project includes: 1 Associate Professor (Principal Investigator), 1 Distinguished Professor, 1 Associate Professor, 2 Assistant Professors, 1 Specialist, 1 Graduate Research Assistant, an Accountant, and a Travel Coordinator.

5. LESSONS LEARNED

A few lessons were learnt during the USAID project monitoring visit to Delta state. One of such lessons was that the STATA training delivered by the project to researchers in Delta State University Asaba was unsustainable since beneficiaries were unable to renew their trial version license after its expiration. R Project (for statistical analysis) on the other hand, is open source which is free to users but requires some background knowledge of programming. In response to limitation on the use of STATA, USAID recommended that beneficiaries be given overviews of STATA and the R Project to determine the best fit for them. Nonetheless, training on STATA will now be on demand and only for participants with STATA license.

It was also learnt that in stepping down the training on STATA, it is important to consider that statistical analytical tools such as STATA and their application in statistical analysis require technical skills and expertise which are acquired over time through constant usage. This is based on the trainer’s experience in piloting this approach. Some institutions have shown interest in purchasing the STATA license.

6. WHAT DOES USAID NOT KNOW THAT IT NEEDS TO?

Dr. Bedru Balana, IFPRI Research Fellow at the IFPRI Abuja Office replaced Dr. George Mavrotas in May 2019 and currently serve as the acting program leader and chief of party for the project.

Mr. Hyacinth Edeh, IFPRI Research Analyst II was recruited as the new Country Program Manager at the IFPRI Abuja Office to replace Mr. Mazunda.

ANNEX A: NUMBER OF RESEARCH REPORTS PUBLISHED (Indicator 1)

Paper description

- 1) Liverpool-Tasie L.S.O, Saha Turna N, Ademola O, Obadina A, Wu F (2019). The occurrence and co-occurrence of aflatoxin and fumonisin along the maize value chain in southwest Nigeria. Food and Chemical Toxicology, DOI: 10.1016/j.fct.2019.05.008
- 2) Onyinye Prince Choko , Laura Schmitt Olabisi , Robert Ugochukwu Onyeneke, Stella Nwawulu Chiemela,, Lenis Saweda O. Liverpool-Tasie, and Louie Rivers (2019). A Resilience Approach to Community-Scale Climate Adaptation. Sustainability. 1(11), 3100; <https://doi.org/10.3390/su11113100>

ANNEX B: NUMBER OF PARTICIPANTS ATTENDING PROJECT ORGANIZED RESEARCH AND POLICY EVENTS (Indicator 2)

Event	Location	Participants
1. Kebbi State Policy Validation and Planning Meeting.	Shagalinku Hotel, Birnin Kebbi. 23 April 2019.	Research and academic organizations (including think-tanks), Private sector, Producer groups, Civil society (e.g. NGOs, CBOs, CSOs) 31 Participants (Male-29, Female- 2)
2. Dissemination Workshop and Stakeholder Interaction on Climate Change.	Clevero Hotel, Onwe Road, Abakaliki 8 May 2019	Government sector, Private sector, Producer groups, Civil society (e.g. NGOs, CBOs, CSOs) 107 Participants (Male-76, Female- 40)
3. Extension Policy Implementation in Nigeria	Federal Department of Agricultural Extension Abuja 14 May, 2019	Government. 33 Participants (Male-19, Female- 14)
4. Ebonyi State Community Engagement	Akpoha Local Government Date: 14 May 2019	Government 114 Participants (Male-74, Female- 39)
5. Extension Policy Implementation in Nigeria	Niger State Ministry of Agriculture and Natural Resources 15 May, 2019	Government. 36 Participants (Male-24, Female- 12)
6. Urbanization, child nutritional outcomes and public health in Nigeria	Halldays Hotel, Makurdi Benue State 17 May, 2019	Research/ Academic 84 Participants (Male- 39, Female-45)
7. Dissemination/Interactive Activity on Climate Change Research in Nigeria	Conference Room, Federal Ministry of Environment, Mabushi, FCT, Abuja, May 20, 2019	Government 24 Participants (Male- 13, Female-11)
8. Ebonyi State Community Engagement	Onueyim Local Government Date: May 16 and 17	Producer Groups 247 Participants (Male-113, Female- 134)
9. Urbanization, child nutritional outcomes and public health in Nigeria	Ministry of Agriculture and Natural Resources Kebbi State 24 May, 2019	Government. 35 Participants (Male-30, Female- 5)

10. Short-term Visiting Scholars' Program: Feed the Future Nigeria Agricultural Policy Project – My Experience	Federal University of Technology, Minna, 31 May 2019	Academic 38 participants (Male: 31, Female: 7)
11. Recent research findings on seed varieties, irrigation, and agricultural mechanization in Nigeria	Cross River State Ministry of Agriculture and Natural Resources 11 June 2019	Government. Private Sector, Research/ Academic 84 Participants (Male-64, Female- 20)
12. Recent research findings on seed varieties, irrigation, and agricultural mechanization in Nigeria	Ebonyi State Ministry of Agriculture and Natural Resources 17 June, 2019	Government. Private Sector, Research/ Academic 35 Participants (Male-25, Female- 10)
13. Recent research findings on seed varieties, irrigation, and agricultural mechanization in Nigeria	Delta State Ministry of Agriculture and Natural Resources 20 June, 2019	Government, Farmers, Private Sector Research/ Academic 64 Participants (Male-43, Female- 21)
14. Recent research findings on seed varieties, irrigation, and agricultural mechanization in Nigeria	Ministry of Agriculture and Natural Resources Kebbi State 25 June, 2019	Government, Farmers, Private Sector Research/ Academic 70 Participants (Male-66, Female- 4)

ANNEX C: NUMBER OF INDIVIDUALS PARTICIPATING IN USG FOOD SECURITY PROGRAMS (Indicator 4)

Date	Location	Topic	Participants				
			Type	Male	Female	15-29	30+
1.1.1 FMARD/National Capacity Building and Mentoring Activities							
April 1-3, 2019	Kaduna	CSPPro based CAPI	NAERLS	16	9	17	8
April 4-5, 2019	Kaduna	Issues in Agriculture and Development	NAERLS	21	4	0	25
April 8-12, 2019	Abuja	Econometrics for Policy Analysis using Stata	FMARD	10	9	0	19
1.1.2 Universities							
April 8-12, 2019	Kebbi State University of Science and Technology	Econometrics for Policy Analysis using Stata	Academia	18	7	0	25
April 11-18, 2019.	Department of Agricultural Economics, University of Ibadan,	Data analysis using R	Academia	13	8	3	18
April 15-18, 2019	University of Ibadan	Econometrics for Policy Analysis using Stata	Academia	10	7	0	17
April 23-26, 2019	Ministry of Agriculture and Natural Resources, Kebbi State, Nigeria.	Data analysis using R	Government, Academia	25	5	0	30
April 29 -30, 2019	University of Agriculture Makurdi	Issues in Agriculture and Development	Academia	22	4	0	26

Date	Location	Topic	Participants				
			Type	Male	Female	15-29	30+
May 6-7, 2019	University of Calabar	Issues in Agriculture and Development	Academia	17	5	0	22
May 10, 2019	Seminar Room of the Resource and Environmental Policy Research Centre, UNN	Workshop on Article Writing	Academia	9	7	4	12
May 13 - 17, 2019	Ibrahim Badamasi Babangida University Lapai	Econometrics for Policy Analysis using Stata	Academia	14	4	1	17
May 13 - 17, 2019	Federal University Ndufu-Alike Ikwo, Ebonyi	Econometrics for Policy Analysis using Stata	Academia	15	5	4	16
May 16, 2019	Ebonyi State University Abakaliki.	Workshop on Article Writing and Publication.	Academia	13	7	2	18
May 20 - 21, 2019	Kebbi State University of Science and Technology	Issues in Agriculture and Development	Academia	9	0	0	9
June 10-14, 2019	Delta State University	Econometrics for Policy Analysis using Stata	Academia	14	4	0	18
June 10-11 2019	University of Ibadan	Issues in Agriculture and Development	Academia	9	4	0	13
June 18-21	Ahmadu Bello University, Zaria	Econometrics for Policy Analysis using Stata	Academia	22	4	1	25
June 20	College of Agricultural	Research Methodology Workshop: Step-down	Academia	31	15	20	26

Date	Location	Topic	Participants				
			Type	Male	Female	15-29	30+
	Economics and Extension Auditorium, Federal University of Agriculture Makurdi,	of AFRE 874 Contents					
26th JUNE, 2018	Ebonyi State University	Research Methodology Workshop: Step-down of AFRE 874 Contents	Academia	34	27	1	60
1.2. State trainings and capacity building efforts							
April 1-3, 2019	Ebonyi	Group Dynamics	Private Sector	17	11	2	26
April 8-10, 2019	Niger	Group Dynamics	Farmer Groups	19	11	2	28
April 11-13, 2019	Niger	Group Dynamics	Private Sector	23	7	5	25
May 2 - 3, 2019	Benue	Issues in Agriculture and Development	Government	17	13	1	29
May 6 – 8, 2019	Kaduna	Monitoring and Evaluation	Private Sector	19	6	5	20
May 6 – 10, 2019	Benue	Econometrics for Policy Analysis using Stata	Government	17	8	4	21
May 9 – 10, 2019	Cross - River	Issues in Agriculture and Development	Government	16	8	0	24
May 20 – 22, 2019	Kaduna	Group Dynamics	Farmer Groups	27	4	0	31
May 22 – 23, 2019	Kebbi	Issues in Agriculture and Development	Government	22	4	0	26
May 23 – 25, 2019	Kaduna	Group Dynamics	Private Sector	23	3	2	24
May 31, 2019	Ministry of Ag, Makurdi	Farmer Training: An APP to make good Sustainable Land Management decisions.	Government, Producers, Academia	55	12	5	62

Date	Location	Topic	Participants				
			Type	Male	Female	15-29	30+
June 13 – 14, 2019	Oyo	Issues in Agriculture and Development	Government	13	9	0	22
June 26 – 28, 2019	Ebonyi	Monitoring and Evaluation	Government	15	7	0	22
3.3.1 Media engagement and training (state level)							
April 8-9, 2019	Delta	Policy Communications	Farmer Groups	18	4	0	22
April 10-11, 2019	Delta	Policy Communications	Private Sector	15	8	2	21
April 15 - 16, 2019	Cross - River	Policy Communications	Cross - River state journalists	12	6	0	18
April 17-18, 2019	Cross - River	Policy Communications	Private Sector	21	6	0	27
May 13 - 14, 2019	Kaduna	Policy Communications	Kaduna state journalists	12	11	0	23
May 15 – 16, 2019	Kaduna	Policy Communications	Private Sector	15	1	4	12
June 24 – 25, 2019	Cross - River	Policy Communications	Private Sector	23	6	2	27
June 26 – 27, 2019	Cross - River	Policy Communications	Farmer Groups	14	4	2	16

ANNEX D (a): NUMBER OF INDIVIDUALS WHO HAVE RECEIVED USG SUPPORTED DEGREE-GRANTING NON-NUTRITION-RELATED FOOD SECURITY TRAINING IN FY 2019. (Indicator 5)

Name	Institution	Degree Level	Semesters at MSU
Balaraba, Abubakar Sule	Federal University of Technology Minna	PhD	Spring 2019
Chukwudi, Charles Olumba	Ebonyi State University, Abakaliki, Ebonyi	PhD	Spring 2019
Obekpa, Hephzibah Onyeje	University of Agriculture Makurdi	PhD	Spring 2019

Note that these NAPP Scholars returned to Nigeria for the summer. They are scheduled to return to MSU for their final semester fall 2019

ANNEX D(b): NUMBER OF INDIVIDUALS WHO HAVE RECEIVED USG SUPPORTED DEGREE-GRANTING NON-NUTRITION-RELATED FOOD SECURITY TRAINING REPORTED IN FYs 2015-2016, 2016-2017, 2017-2018, 2018-2019.

Name	Institution	Degree Level	Semesters at MSU
Charity Ekerebi	University of Ibadan, Nigeria	MS	Fall 2016
Aisha Ibrahim	Ahmadu Bello University, Zaria	MS	Spring 2017
Wale Ogunleye	University of Ibadan, Nigeria	PhD	Fall 2016, Spring 2017
Ufedo Monday Shaibu	Kogi State University Anyigba	MS	Fall 2017
Oluwatoyin Motunrayo Ademola	University of Agriculture, Abeokuta	MS	Fall 2017
Stella Nwawulu Chiemela	University of Nigeria, Nsukka, Enugu State, Nigeria	PhD	Spring 2018
Osayanmon Wellington, Osawe	University of Ibadan, Nigeria	PhD	Spring/Fall 2018
Blessing, Agada	Federal University of Agriculture Makurdi	PhD	Spring/Fall 2018
Choko, Onyinye Prince	University of Port Harcourt	MS	Fall 2018
Philip, Hegarty James	Federal University of Agriculture Makurdi	MS	Fall 2018
Balaraba, Abubakar Sule	Federal University of Technology Minna	PhD	Spring 2019
Chukwudi, Charles Olumba	Ebonyi State University, Abakaliki, Ebonyi	PhD	Spring 2019
Obekpa, Hephzibah Onyeje	University of Agriculture Makurdi	PhD	Spring 2019

ANNEX E: NUMBER OF AGRICULTURE POLICY COMMUNICATIONS DEVELOPED AND/OR WRITTEN FOR STAKEHOLDER CONSUMPTION (Indicator 7)

Paper description
Policy Briefs
1) Introducing Food Safety Labels in Complex Food Supply Chains: Evidence from a Choice Experiment in Nigeria . Sanou, Liverpool-Tasie, Vincenzina, Kerr, 2019. FSP Research Brief 93, East Lansing: Michigan State University.
2) Reducing Post-Harvest Losses in Tomatoes Hephzibah Onyeje Obekpa, 2019. FSP Research Brief 92, East Lansing: Michigan State University.
3) The Effects of Feed Costs and Increased Energy Needs on Broiler Farm Productivity: A Dynamic Programming Approach Padilla, Liverpool-Tasie, Myers, 2019. FSP Research Paper 130. East Lansing, Michigan State University.
4) Climate Change Adaptation in the Nigerian Agricultural Sector . Schmitt-Olabisi, Liverpool-Tasie, Onyeneke, Choko, Osuntade, Sanou, Singa, Chiemela, 2019. FSP Research Brief 91, East Lansing: Michigan State University
5) Demographic Factors and Nigeria's Dairy Production for the Year 2015 . Onyinye Prince Choko, 2019. FSP Research Brief 90, East Lansing: Michigan State University.
6) Curbing Post Harvest Losses: The Plight of Onion Farmers in Nigeria . Balaraba Abubakar Sule, 2019. Curbing Post Harvest Losses: The Plight of Onion Farmers in Nigeria, FSP Research Brief 89, East Lansing: Michigan State University.
7) Agriculture, Land Access and Economic Growth in Africa: An Instrumental Variable Approach . Chukwudi Charles Olumba, 2019. FSP Policy Research Brief 86. East Lansing: Michigan State University.
8) The Nexus between Malnutrition and Agricultural Subsector Outputs in Nigeria . Hephzibah Onyeje Obekpa, 2019. FSP Research Brief 85, East Lansing: Michigan State University.
9) Farmers' Perception of Causes of Soil Degradation in Northern Taraba, Taraba State of Nigeria . Philip Hegarty James, 2019. FSP Policy Research Brief 84. East Lansing: Michigan State University.
White/Research Papers
1) The Effects of Feed Costs and Increased Energy Needs on Broiler Farm Productivity: A Dynamic Programming Approach . Padilla, Liverpool-Tasie, Myers, 2019. Effects of Feed Costs and Increased Energy Needs on Broiler Farm Productivity. FSP Research Paper 130. East Lansing, Michigan State University.
Other
1) Training Workshop on "R" for Graduate Students and Staff of Faculty of Agriculture, University of Ibadan, Held at the Department of Agricultural Economics, University of Ibadan, Nigeria From April 11-18, 2019 . Highlights 47, Dr. Osayanmon Wellington Osawe, April 2019.
2) Highlight of the Training Workshop on "Article Writing" at the Department of Agricultural Economics, University of Ibadan, Nigeria . Highlights 46, Wellington Osawe, April 2019.
3) Lunch at the Thirteenth Annual "Hero Luncheon" . Highlights 45, Chukwudi Charles Olumba, April 2019.
4) My Presentation at Michigan State University's Brown Bag Series . Highlights 44, Chukwudi Charles Olumba, April 2019.

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| 5) Cranium to Classroom: A Scholar's Perspective . Highlights 43, Hephzibah Onyeje Obekpa, April 2019. |
| 6) Brochure: Pamphlet on Urban Agriculture and Food Security in Nigeria |
| 7) Brochure: Reduction of Post-Harvest Losses in Onion Production |
| 8) Brochure: Dietary Diversity isn't far fetched |

ANNEX F: PROJECT SUCCESS STORIES

1. Towards an Extension Policy for Nigeria: Developing an Implementation Plan for Niger State

The Feed the Future Nigeria Agricultural Policy Project has further supported Nigeria's Federal Ministry of Agriculture and Rural Development (FMARD) in its move to coordinate the development of an extension policy for the country.

From 14-24 May 2019 Dr. Suresh Babu, worked closely with FMARD's Department of Agricultural Extension (FDAE) in Abuja and Niger State Ministry of Agriculture and Natural Resources on the following areas:



1. Workshop on Extension Policy implementation for FMARD staff that included the Departments of Agricultural Extension, and Planning and Policy Coordination held in Abuja 14 May 2019.

2. A seminar for Directors from the FMARD Office in Niger State, the Agricultural Development Programme and Niger State Ministry of Agriculture and Natural

Resources on 15 May 2019.

3. A workshop for key stakeholders on Extension Policy Implementation in Niger State with participants from various organizations along the value chain including research institutions, farmers' organizations, processors, policy makers, extension agents etc.

4. A consultative meeting with Directors from Niger State to finalize the Extension implementation plan for State.

5. A presentation to the Permanent Secretary and all the Directors of the FMARD of the pilot implementation plan for the National Agricultural Extension Policy.

Mrs. Karima Babangida, Director of Extension at the FMARD, in expressing her thanks stated that “Through these activities, the Department has been able to sensitize the key stakeholders on the policy objectives, shared information with the various public and private organizations intervening in extension system and consulted with a variety of stakeholders on implementation design. This process was inclusive, and will no doubt promote ownership of the policy and its implementation.” She expressed that FMARD was confident that it could now carry out an extensive mapping of the various actors and their activities in Niger State with a view to identifying the gaps that require attention and, to finalize the implementation design for Niger State. Since 2018, the project has been working with FMARD on building its institutional capacity to develop of the Extension Policy for Nigeria with previously organized workshops in February and May 2018 held in Abuja and Zaria, respectively.

2. Towards Improving Seed Varieties, Irrigation and Agricultural Mechanization

Over the period spanning 11-25 June 2019, Dr. Hiroyuki Takeshima, delivered four research seminars



to an overall audience of 253 representatives from government and academic circles (198 male, 55 female) in four states of Nigeria. The research seminars, entitled “Recent research findings on seed varieties, irrigation, and agricultural mechanization in Nigeria” presented policy-relevant findings from studies carried out

on the Feed the Future Nigeria Agricultural Policy Project involving researchers from the project, the Agricultural Research Council of Nigeria and the University of Ibadan between 2016 and 2018.

Dr. Takeshima presented the following recommendations for any entity interested in staging an intervention aimed at improving seed varieties, irrigation and agricultural mechanization:

- Nigeria needs to increase public support for the agricultural sector, and agricultural R&D (including plant breeding) as it is one of the most cost-effective ways to raise the agricultural productivity.
- It is important to recognize that the large irrigation dams can affect significant geographic areas (including neighboring hydrological basins which are as large as average LGAs in Nigeria).
- For supporting agricultural mechanization, government can play important roles in gathering and mobilizing information / knowledge.

The various seminars held in Cross River (11 June), Ebonyi (17 June), Delta (20 June) and In Kebbi states (25 June).

The research seminars are part of activities aimed at disseminating evidence relevant to policymaking on the Project

3. An Application to make good Sustainable Land Management decisions. Training at the Ministry of Agriculture Makurdi, May 31, 2019.

The LandPKS app can be used in any location worldwide. The app helps users make good sustainable land management decisions by assisting them to collect geo-located data about their soils, vegetation and site characteristics, giving back useful results and information about the site to its users.

The training was done for 58 participants (23 farmers, 23 Extension agents, 6 directors, 1 ministry staff, 2 undergraduate and 1 Graduate Assistant from Soil Science dept. University of Agriculture Makurdi UAM) drawn from the 23 Local Government Areas (LGA's) of Benue State in the Middle Belt of Nigeria.



Installing the LandPKS app using Xender to minimize internet use.

Indoor activity

LandPKS was installed on the phones of all participants.

Then a PowerPoint presentation gave an overview of

LandPKS and its use in crop production. Participants learned how to use LandPKS and questions were taken about interactions with the app and interpretation of generated reports after use on the field.



Participants were provided with training materials downloaded from the LandPKS webpage to support post training practice and general use of the app.

The participants showed willingness and eagerness to learn. It was a very interactive learning experience as everyone was carried along. The Xender app was used to transfer the LandPKS app to the phones of participants limiting data usage to the login of the site details (at the pit) to facilitate the entry of site characteristics. Although Internet access was an issue for some participants, over 12 of the two groups of

about 25 each, had internet connections and could use the LandPKS app installed. Participants were therefore paired to follow the demonstrations.

Outdoor activity

A pit was excavated, followed by a practical demonstration of the use of the LandPKS app. Dividing the class facilitated visual learning, proper hands on and maximal interaction. A step by step guide of the use of the LandPKS app was delivered as participants carried out a task and got a report generated for the task on site (The report was named **manr**).

At the pit, participants were shown how to collect soil samples at each depth, using the LandPKS app and how to generate their report with emphasis on proper labelling of each layer.



Resumption of Indoor activity

Indoor activity resumed to discuss the report and its relevance. The report generated by the LandPKS app for the site was taken in conjunction with the farmer manual. The manual is a guide to account for physical properties of the soil and fertilizer use in maize based systems. The app and the manual were used to make decisions on increasing agricultural production.

Interactions /Questions/Understanding and Interpreting the Report Generated.

An interactive session held, and the results generated by the LandPKS app were explained in detail. The participants were relieved that the LandPKS app could be used without internet access and that soil characteristics and climatic data can be generated on the spot in the field.



An Interactive session.

A number of Farmers and extension workers requested that manuals be prepared for other crops of interest such as soybeans, yams, groundnut and cassava. They were excited to learn that the manual for maize based systems was being translated into the local languages of Benue State. A suggestion was made to create a WhatsApp group for exchanges on issues relating to soil fertility and the LandPKS app. This training exercise is a demonstration of how NAPP Scholars are bringing updated, practical and relevant technology to Nigeria.

ANNEX G: POLICY COMMUNICATIONS TRAINING FOR MEDIA

	Cross River State	Kaduna State
S/N		
1	Comm Officer PWF	Trace
2	FRCN	NTA
3	Journalist PUNCH	Nagarta Radio
4	National Accord	NTA
5	Oracle	People's Daily
6	New Nigeria	Tribune
7	NAN	FRCN
8	The Guardian	KSMC
9	Ministry of Information	The Sun
10	Journalist Corret FM	Leadership
11	Daily Asset	NAN
12	Forefront Mag	Core TV
13	Ibom Nation	Inucita FM
14	Editor Enquiry	Daar Comm
15	VON	Msquare News
16	New Telegraph	DITV/Alheri