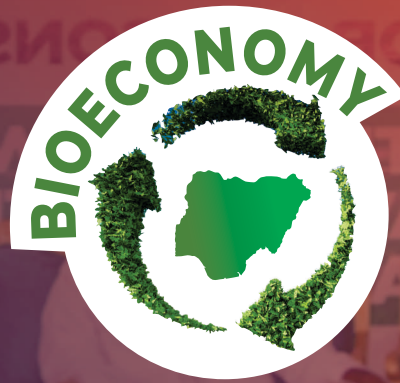




FEDERAL MINISTRY OF FINANCE,
BUDGET AND NATIONAL PLANNING
(Budget and National Planning Arm)



RC 249095



Innovation and Knowledge Transfer Partnership

THE NEW ECONOMY FOR ACHIEVING ECONOMIC DIVERSIFICATION, EMPLOYMENT & ECONOMIC GROWTH

T H E M E :

KNOWLEDGE TRANSFER: CASSAVA & BIO-ETHANOL VALUE CHAIN

REPORT

NORTH-WEST REGIONAL AWARENESS & SENSITIZATION WORKSHOP ON BIO-ECONOMY, EMPLOYMENT AND INCLUSIVE GROWTH USING CASSAVA- BIOETHANOL VALUE CHAIN DEVELOPMENT PROGRAMME PILOT

DATE:
18TH-20TH JULY 2023

TIME:
9AM

VENUE:
BAYERO UNIVERSITY, KANO



PREPARED BY: EUROBASE CONSULT LIMITED

The Future is here - The New Bio-economy



HIS EXCELLENCY,
BOLA AHMED TINUBU (GCFR)
PRESIDENT AND COMMANDER IN-CHIEF OF THE ARMED FORCES
FEDERAL REPUBLIC OF NIGERIA



HIS EXCELLENCY,
KASHIM SHETTIMA (GCON)
VICE PRESIDENT OF FEDERAL REPUBLIC OF NIGERIA



ENGR. NEBEOLISA ANAKO

PERMANENT SECRETARY (FMFBNP)

NORTH WEST GOVERNORS



**HIS EXCELLENCY,
ABBA KABIR YUSUF**
GOVERNOR, KANO STATE



**HIS EXCELLENCY,
DIKKO UMAR RADDA**
GOVERNOR, KATSINA STATE



**HIS EXCELLENCY,
UBA SANI**
GOVERNOR, KADUNA STATE



**HIS EXCELLENCY,
UMAR NAMADI**
GOVERNOR, JIGAWA STATE



**HIS EXCELLENCY,
MOHAMMED NASIR IDRIS**
GOVERNOR, KEBBI STATE



**HIS EXCELLENCY,
AHMAD ALIYU**
GOVERNOR, SOKOTO STATE



**HIS EXCELLENCY,
DAUDA LAWAL**
GOVERNOR, ZAMFARA STATE

**REPORT OF THE
REGIONAL AWARENESS/
SENSITIZATION WORKSHOP ON

THE IMPLEMENTATION OF
THE NIGERIA BIO-ECONOMY
FRAMEWORK/CASSAVA BIO-
ETHANOL PROJECT PILOT
NORTH-WEST REGION**

**HELD AT
BAYERO UNIVERSITY, KANO
ON 18TH -20TH JULY 2023**

**PREPARED BY:
EUROBASE CONSULT LIMITED**

WORKSHOP THEME:

Bio-Economy: The New Economy For Achieving Economic Diversification, Employment And Economic Growth in Nigeria

PREAMBLE:

The North West Regional Sensitization workshop was organized as part of the public and stakeholders Awareness and Sensitization arrangements of the Bio-Economy Framework structured to bring together critical agribusiness stakeholders especially those in the cassava and Bio-fuel crops across the North West States of Jigawa, Kaduna, Kano, Katsina, Kebbi, and Zamfara and indeed the general public from the 6 State and discuss the implementation modalities of the Cassava Bio-Ethanol Project Pilot and the validation and implementation of the Nigeria Bio-Economy Framework.

The Northwest Regional Stakeholders Sensitization workshop was the 3rd region to be covered by the sensitization train of the Federal Ministry of Finance, Budget, and National Planning in the continuous efforts to create awareness and galvanized stakeholders for successful implementation of the Nigeria Bio-Economy Programme.

The sensitization workshop had participants from the Six (6) States of the Northwest including the Academia, Private sector players, farmers and relevant MDAs across the region including those of the Federal Government.





ENGR. NEBOLISA ANAKO

**Permanent Secretary,
Budget & National Planning**

WELCOME REMARKS BY THE PERMANENT SECRETARY, ENGR. NEBOLISA ANAKO

The Permanent Secretary, Federal Ministry of Budget, and National Planning (FMFBNP) Engr. Nebolisa Anako represented by the Director, Finance & Accounts Alh. Kabir Mohammed welcomed all stakeholders and thanked them immensely for the massive turn out for the Regional Sensitization workshop on the Nigeria Bio-Economy Framework and the Implementation of the Cassava Bio-Ethanol Project Pilot for the North Central States. He stated that the core objective of the Federal Government through the project grow the National GDP, create jobs, reduce poverty, explore opportunities in the Bio Sector while driving innovations to create alternative energy sources that is clean and renewable.

The Permanent Secretary stated that this project is part of the National Development Plan 2021-2025 and adopting a Triple Helix Knowledge Transfer Partnership to transform our research from the Academia and Research Institutions into practical and scalable innovations that will sustain and grow the Nigeria Bio-Economy investment drive in renewable Biomass, food Security and alternative energy for the country. He further appreciated the Executive Governor of Kano State Engr. Abba Kabir Yusuf for playing host to the workshop and by extension the Governors of the Northwest States for their anticipated commitment to the programme.

He is concluding by thanking all participants at the workshop and wished all a fruitful deliberation and he look forward to gainful partnership for the development of Nigeria through the project.



ALH. KABIR MOHAMMED,
Director, Finance & Accounts,
Budget & National Planning

GOODWILL MESSAGES BY DIGNITARIES AT THE WORKSHOP

Goodwill Messages were delivered by critical stakeholders who were present at the workshop.

HIS EXCELLENCY ENGR. ABBA KABIR YUSUFU, EXECUTIVE GOVERNOR KANO STATE

His Excellency the Kano State Governor, Alh. Abba Kabir represented by the Commissioner for Finance Alh. Ibrahim Judo, welcome all participants to the event while thanking the Federal Government for considering Kano worthy to host the Northwest Regional Sensitization Workshop for the Nigeria Bio-Economy programme and the Cassava Bio-ethanol Pilot Project.

He informed that Kano is a willing and ready partner for the programme reiterates the state Government to compliment Federal Government efforts towards the project in the State in which way deems necessary.

“On behalf of Governor of Kano State and the sister States in the Northwest Region, I thank the organizers of this laudable event and state our readiness to partner on the Nigeria Bio-Economy Programme for the growth and development of our dear country” were his concluding remarks.



ALH. ABBA KABIR YUSUFU,
Executive Governor, Kano State

GOODWILL MESSAGE BY THE HOST VICE CHANCELLOR, BAYERO UNIVERSITY, KANO PROF. SULIEMAN MOHAMMED

The Vice Chancellor in his Goodwill Message welcome all stakeholders to Nasarawa State University and thanked the Federal Government for considering the State and University worthy to host the regional Sensitization workshop. He emphasized that the Theme of the workshop reflects the pressing needs to harness the regional resources to unlock the economic opportunities that abounds in the North Central region of the country.



ALH. IBRAHIM,
Commissioner for Finance-Kano State

He mentioned the importance of Agriculture in contributing to solving the energy crisis of this country in a manner that is renewable, sustainable, and environmentally friendly. “A Greener Future is possible through science and technology and today and through this project, we Announce the power of Cassava to drive transformative change in the North Central and the Country at large and let me assure the Federal Government and the Ministry again that ADAN will deliver on their mandate in the project with supports of all the Vice Chancellors and the management Team of the various Universities participating in the Pilot project and beyond” were his concluding remarks.

REMARKS BY THE REPRESENTATIVES OF THE VICE CHANCELLORS OF PARTICIPATING UNIVERSITIES IN THE NORTH CENTRAL

Remarks of the Vice Chancellor of Bayero University,
Kano Prof. Sagir Adamu Abbas

The Vice Chancellor of Bayero University, Kano Prof. Sagir Adamu Abbas represented by the Deputy Vice Chancellor, Research & Development Prof. Abdullahi Sule Kano appreciated the Federal Ministry of Finance, Budget, and National Planning for considering BUK as a host of the workshop.

He stated the Cassava Bio-ethanol project is timely considering the phase the country and the world is facing to move away from fossil fuels towards and environmentally friendly energy sources and will indeed make very useful impact in the National economy of Nigeria.

He particularly thank the Organizers and the Project Consultant Prof. Ken Ife for adopted the Tripple Helix Approach developed some years ago in Oxford University by Prof. Henry, Vice Chancellor was very emphatic on the importance of the triple Helix who shows clearly that only the Private Sector Players can't solve our problems and only Government cannot solve them, the Academia and Research Organizations has very importance role to play in our collected efforts to grow and stabilize the economy. He however regretted that it is sad situation in a Country like Nigeria that only Government is funding Research which shouldn't be. He Likened the Nigeria situation to that of South Africa who were behind Nigeria in the numbers of Institutions and Research in the early years stating that South Africa has now overtaken Nigeria and do not only have Research Organizations, but they are translating the research into Innovations and Technology.

He told the Participants to come to terms with the fact that Technology is never transfer, you either invent or buy Technology and Nigeria must seat up to develop our knowledge and invent our own Technology. That we must behave and fight the type of Chinese war which is a War without Blood. Technological Innovations are ruling the world and Nigeria cannot continue to neglect research and win the war against under0-development, unemployment and poverty and therefore concluded that the time to seat up and do the needful is now and Tripple Helix Partnership is one of such ways.



PROF. ABDULLAHI SULE KANO,
DVC, Research and Development,
Bayero University Kano



PROF. O.J JAYEOBA,
President, ADAN

REMARKS OF THE PRESIDENT, ASSOCIATION OF DEANS OF AGRICULTURE IN NIGERIAN UNIVERSITIES (ADAN) PROF. O.J JAYEOBA.

The President of ADAN Professor Olumide James Jayeoba thanked the Ministry for the project and the partnership with ADAN for the delivery of one of the critical components of the project which are seed multiplication and Bio-entrepreneurship development activities to raise a new breed of Bio-Entrepreneurs to drive the Bio-Economy project of Nigeria. He reiterated ADAN's commitment to project and thank all stakeholders for their active participation.

He informed the stakeholders that ADAN through their partnership with the Federal Ministry of Agriculture and Rural Development has earlier established Ten (10) Agribusiness Incubation Centers (AICs) across different Universities spread among the Six Geo-political zones including Kano. He Appreciated ADAN BOT Chairperson Prof. F.M David-Abraham, the BOT, the Executive Team for their commitment to the project thus far and assured that this project will change the narrative of unemployment, poverty, and Food security for good.

REMARKS OF THE TEAM LEAD OF CHIEF OLUSEGUN OBASANJO AGRICULTURAL INSURANCE RESEARCH CENTER. AIR COMMODORE JEFF ZANNI

The Leader of the Center thanked the organizers of the event and stated that the reasons of their presence in the workshop is to sensitize the stakeholders on the importance of Insurance in Agriculture and most often investors and farmers downplay on its importance until the situation becomes late.

He emphasized that Insurance remains of the best way to secure investment, promote and enhance Agricultural production to enhance food security. He informed the participants that the mandate of the Center is to conduct research, training, consultancy, and advocacy on the importance of Agricultural Insurance and encourage broad level partnership with the center in projects such as the Bio-Ethanol Pilot Project especially in organizing Farmers to access key production support.



AIR COMMODORE JEE ZANNI,
Chief Olusegun Obasanjo Agricultural
Insurance Research Center, Kaduna



ENGR. OLADELE OLUGBENGA,
College of Forestry &
Mechanization, Kaduna

REMARKS OF ENGR. OLADELE OLUGBENGA, COLLEGE OF FORESTRY AND MECHANIZATION

The representative of the Institution at the Workshop Engr. Oladele Olugbenga thanked the Ministry of Finance, Budget and National Planning for the great project and enumerated the impact this project will have on Nigeria economy including Food security, Job creation, Value addition, Export earnings and all. He stated the Institution has been very active in developing manpower in the field of Agriculture through the various courses they have been offering and graduating students.

He particularly indicated Interest to partner with the Project in the mechanization Component.

REMARKS BY THE PRESIDENT, FAVOUR FARMERS COMMUNITY EMPOWERMENT TRUST FFACET

The President of the FFACET Ambassador Yakubu thanked the Ministry and the Project Consultant, Prof. Ken Ife for this great project and informed the Team that 50,000 Hectares of land were launched on the day of the North Central Workshop to demonstrate their readiness to partner the project in the production of Cassava. The 50,000 hectares of the cassava farm were allocated to 50,000 Youths and more persons are indicating interest to be part of the project and promised to make the list of the 50,000 youth beneficiaries available to the project.

He stated that the target of FFACET is to empower 25 million Farmers on Cassava production and with partnership like that of the Cassava Bio-Ethanol Pilot project, achieving the target will be seamless.



AMB. A. YUSUF,
President, FFACET



PRESENTATION OF KEYNOTE PAPER ON THE OVERVIEW OF THE NIGERIA BIOECONOMY FRAMEWORK BY PROF. KEN IFE, THE PROJECT CONSULTANT, FMFBNP AND MD/CEO OF BISOURCES & TECHNOLOGY LIMITED

The Technical paper highlighting the framework, components, and designed activities to achieve the new Economy for Nigeria.



PROF. KEN IFE

He elaborated the importance of Bio-Economic activities to Nigeria critical sectors including Agriculture/Forestry, Pharmaceuticals, Foods & beverages, consumer goods, Energy, Chemical Industry, Textile/Clothing, Building Industry and Mechanical Engineering as all key areas that will benefit and contribute to the Bio-Economic activities of Nigeria.

He gave scenario where the over 21million Cassava peels (representing 25%) from the over 65million tons of cassava majorly seen as waste material in many rural communities could produce several millions tonnage of livestock. “We shall convert our waste to wealth, reduce our carbon footprint, create jobs for our youths, earn foreign currencies from our export activities through the project, and if Germany can earn 2.4Trillion Euros from Bio-Economic activities, it means Nigeria can do better and the journey begins with this project” he concluded.



PLENARY SESSIONS ON STATE GOVERNMENT INTERVENTION IN CASSAVA VALUE CHAIN

Critical Stakeholders selected to include the President of ALL Farmers Association of Nigeria, Alh. Farouk Kabir, ADAN President-Prof. O.J Jayeoba, Acting HOD, Macro Economic Analysis, FMFBNP Mr. Felix Okonkwo and Representative of College of Forestry and Mechanization, Engr. Oladele Olugbenga (Moderator).

The Plenary Session was a very fruitful engaging moment of the workshop where the stakeholders and the participants shared their views, experiences, observations all geared towards ensuring the success of the Nigeria Bio-Economy Programme and the Cassava Bioethanol Pilot Project. Various issues on Location of Pilot projects, Farm Market Assurance, Farm Input support to Farmers were extensively discussed to ensure that the Project Team take note of the critical points and ensure timely delivery of inputs, subsidy provisions where necessary. There are series of questions and answers by the participants and Panelist to seeks clarifications and the session ended with everyone being satisfied with the outcome.



SYNDICATE GROUP DISCUSSIONS ON THE CRITICAL COMPONENTS OF THE PROJECT

The excess of the Syndicate group work was to share with participants the key designs and structure of the project and to get their contributions to ensuring a hitch free implementation.

Syndicate Group 1: Hybrid Cassava Foundation Seed Multiplication (TME 419/Obasanjo/Hope) and Cassava

Chair: Prof. N.I Odiaka

Rapporteur: Ogirinye Innocent

Key Recommendations

1. Seed Selection:

- Awareness Creation and Sensitization needs to be intensified.
- Specialized Seed Multiplication clusters should be organized and trained to carry out community Seed multiplication.
- Further capacity strengthening should be organized for the Extension personnel for further step down and support to farmers.
- Organic seeds should be promoted in the production systems.
- Need to carry out awareness on cassava varieties and especially the ones for the project - TME 419, Hope and Obasanjo 2

2. Seed Propagation/Planting

- Farmers should be trained how best to cut their stems.
- More training of farmers on Cassava Production systems

3. Inputs Distribution Timeline

- Fresh stems should be supplied and delivered timely.
- The Production start period of June-August in the Northwest region must be considered.

4. Mechanization

- Specialized and dedicated Mechanization Service Model should be established for the Project in the region and targeted at the Cassava Clusters in the Zone
- More Tractors should be deployed for the project.
- A Cluster should be grouped by 50 hectares of land for cluster production of Cassava.

5. Cassava Grow-Out

- Farmers should be trained on Early Disease control measures.
- Quality Weed control chemicals should be supplied.
- Mechanized Cassava Weeders should be provided.
- Efforts should be made to reduce or eliminate middlemen in the farm Inputs supply chain.
- There is a need to establish mechanism to check quality of Fertilizers and Agro-Chemical to reduce the incidences of adulteration.
- Granulated Organic fertilizer should be promoted.
- Farm Inputs Subsidies should be promoted by Govt.

6. Cassava Harvest

- Simple mechanized Cassava Harvesters should be promoted and deployed for the project.
- Such Harvesters should be subsidized by the Government and Key Promoters of Cassava Value chain Projects.

7. Marketing

- Contract Farming Arrangements should be put in place.
- Farmers should be linked Directly to processors and supported to carry out direct trading.
- Guaranteed Minimum Price (GMP) for Cassava should be established.
- Multiple Produce Taxation should be eliminated.



Syndicate Group 2: Cassava Value Chain Processing

Key recommendations

- Project should ensure provision of Regional Cassava Conditioning Rooms to cushion the effects of any transportation related Issues after harvest.
- Strategic Support funds should be put in place to support existing processors of Cassava and to encourage entrant of new processors.
- Government should develop Bilateral relations with countries that uses cassava heavily to create new market opportunities for Nigeria.

SYNDICATE GROUP 3: Bio-Entrepreneurship

Key Recommendations:

- Inculcate the Love for skill acquisition at Primary School Level (cognitive Knowledge)
- Step the Skill/knowledge acquisition level to be affirmative at the Secondary school level.
- At Tertiary Level Knowledge and Skill acquisition at this level should be Psycho-motive
- Curriculum development should be based on KPI.
- Project and Risk Management should be included in the curriculum.
- Step by Step Policy Implementation should be carried out through Monitoring & Evaluation processes.
- Research, Development, Innovation & Commercialization processes should be well defined.
- Include 1% of project budget and dedicate it to Research and Development Activities
- Promote Mechanization/Technology adoption as critical component of the Curriculum and the project.





SYNDICATE GROUP 4: INNOVATION CHALLENGE FUND AND DEVELOPMENT FINANCE INTERVENTION

Key recommendations

- Securities such as guarantor, the family members of the applicant should be able to guarantee him/her.
- The introduction of BDSPs (Business development service providers) has helped a lot in document. The BDSPs tend to package the right documents to be forwarded to the Bank. They also provide business advice to the Customers.
- Enlightenment on good record keeping. Farmers should be enlightened on the importance of keeping record to make it easy for them in securing finances from the Bank.
- Interest free Loan should be introduced by the Banks.
- Farmers should be encouraged to form Associations to enable them to have the support of financial innovations. As we all know two heads are better than one.
- A tripartite agreement should be established between the Bank, supplier, and the owner of the business. This will cushion the disagreement encountered during disbursement.
- Provision/sourcing of off takers that can buy the products. Off takers should be made available for the products of the farmers to encourage more farming. It is of no use for a farmer after harvesting his products, the product should be laying idle without any one to buy them thereby leading to loss on the part of the farmer. A specific Company should be put in place in which farmers after harvesting, they deliver to the Company, and they should receive value for the products instantly.
- Adequate monitoring of the activities of the beneficiaries by the Bank to prevent the diversion of funds.
- For falsification of membership, Search is to be conducted as Corporate Affairs Commission and Ministry of Corporate to determine the authenticity of the members.

PRESENTATION OF AWARDS TO DESERVING PROJECT PARTNERS

One of the key highlights of the event was the presentation of award to some deserving partners of the project for their passion and dedication to the project.

Some of the recipients were:

- His Excellency, the Executive Governor of Kano State Engr. Abba Kabir Yusuf
- The Vice Chancellor of Bayero University Prof. Sagir Adamu Abbas
- The President, ADAN, Prof. O.J. Jayeoba,
- ADAN BOT Secretary, Prof. Ngozi I. Odiaka





VOTE OF THANKS

The Director, Economic Growth Department of the Ministry, Mrs. Elizabeth Egharevba, thanked His Excellency the Executive Governor of Kano State Engr. Abba Kabir Yusuf of play host to the Ministry and her stakeholders in the Cassava Bio-Ethanol Project Pilot.

She appreciated the Vice Chancellor and management of Bayero University Kano and all the participants in the regional Sensitization immensely for their active participation. She appreciated ADAN for their active role and collaborations on the Nigeria Bio-Economy programme driven by the Ministry and directly supervised by the department.

She specially appreciated the Permanent Secretary of the Ministry Engr. Nebolisa Anako, the other Directors and staff of the Ministry for their support towards the success of the workshop and the Bio-economy programme in its entirety.

She prayed for journey mercies for all participants and even as she informed the audience the train will move to the Northwest to sensitize the stakeholders in the region.

PHOTO SPEAK



FIELD VISIT TO CENTRE FOR DRY LAND AGRICULTURE, BAYERO UNIVERSITY KANO

Day 2 of the workshop was a tour of the Bayero University Centre for Dry Land Agriculture and the molecular and microbiology laboratory facilities, food and feed analysis laboratory etc.



DWARF PAWPAW PLANTATION





SEED MULTIPLICATION



GREEN HOUSE FARMING



DRIP IRRIGATION SYSTEM



FISH FARMING



