



The Largest gathering of Seed Industry Stakeholders in Africa Seedconnect Africa Conference and Exhibition 2024 ... Ushering in quality seeds for African farmers



# Theme Leveraging Seed Technology to Scale up Africa's Agricultural Productivity



NATIONAL AGRICULTURAL SEEDS COUNCIL 008021811180, 070000SEEDS (07000073337) or 08113887697 or visit our office at - Km 29, Abuja-Lokoja Expressway Sheda, FCT.



- @NASCNG A
- www.seedcouncil.gov.ng
- info@seedcouncil.gov.ng
- KM 29, Abuja-Lokoja  $\mathbf{O}$ Expressway, Sheda, FCT



# THE 7TH EDITION OF Seed AFRICA 2024 Connect Conference and Exhibition

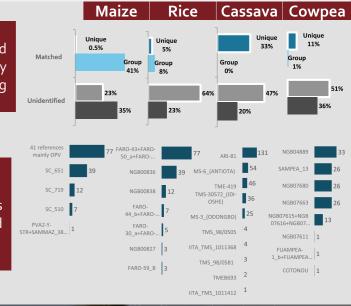
#### Nigeria Genotyped ( Geographical context in plant breeding priorities -Folarin Okelola, Mark Nelson, Brian Love, Cecilia Mwangi, Da Charles Onwuka, Ayodeji Sunday Ogunleye, Olabisi Ola groundnuts in West and Southern Africa. UFarmer-to-farmer see Agnes Mbugua-Gitonga, Pieter Rutsaert, Victor Kitoto, Colleta Khaemba, Folarin Okelola, Dan Bunter, Akan Uteh, Charles Onwuka and Temitope Olasunkanmi UHome-saved/own sto JAgro-dealer supplied se Sample Profile ULocal market supplied n 7% male headed 93% households Introduction Varietal N Geographical context plays a critical role in determining breeding priorities for a crop. Key drivers that have historically been prioritized in breeding programs include Road <u>42%</u> 12% HH head is often 7.6% Climatic conditions – Optimal yields – Biotic and abiotic stress – Maturity under the age of 40 -towever, an easy to grow crop is not all that is required to drive variety adoption within geographical context. End use requirements and preferences may also differ from one geographical location to the other. Within geographical context, the use of any crop is influenced by several factors for example the crop may play a critical role in cultural and religious ceremonies with specific requirement that need to be put into consideration in choosing the right variety suitable for each region. Historical production context is also a key factor. Such factors need to be considered as part of production daoption drivers. A study was conducted on groundnuts in Malawi and Nigeria as key groundnuts producing countries in Africa, aiming to identify various end uses to inform trait consideration in the TPPs. Geneti primary or secondary 28% 23% 33% 16 n level Referenc Librar ocused on cror 89% Ground nut in Malawi is for local and export market, with greater focus on export market Methods **[** The market is very specific on color and size. Uniformity of the groundnuts Seed Selection Behaviors More structured market tar Scope and methods U Primary data was collected through Key Informant Interviews (KII) as well as Focus Group Discussions (FGD) in Malawi and Nigeria male male and female U FGDs were done with farmers and KIIs from traders, exporters, government officials, processors and seed companies male decision makers Monitorin U Data was collected in Lilongwe and Mchinji districts in Malawi and Kaduan, Kano and Abuja states in Nigeria. 86% 5% 9% on variety choice U Other information sources were visits to the local market, supermarkets and tours of processing facilities. Surve ourcing seed fror 52% ome-saved or local Focus group discussions with groundnut 4 (2 male FGD and 2 female FGD \*6-8 formers each\*) 4 (2 male FGD and 2 female FGD \*6-8 farmers each\*) 1 small, 1 medium, and 1 large market armers Groundnuts Proces farmers each\*) 1 small, 1 medium, and 1 large Groundnut Traders 1 small, 1 medium, and 2 large 2 Traders < 30minutes from 24% 9% 5% 63% ro-dealer ndnut Expo 2 large Groundnut Seed Producer (e.g., seed 1 medium, and 1 large 2 medium Department of Agricultural Services (DARS) NASFAM, PYXUS 14% 13% 13% 14% Color and size is an important factor Groundnut flour 1 Ministry of Trade official 2 government officials Trait Prioritization Nigeria vs Malawi Comparison Identified **Results and Findings Survey Locations** Trait prioritization Varieties by Genotyping Sokoto -**[**•]-Summary The study den trated. Nigeria and Malawi have very different market end use requirements thus different trait requirements in the TPPsIn Nigeria, the entire groundnuts is useful mainly serving the local market Groundnuts processing for oil and kuli kuli production require groundnuts that have high oil content, this becomes a key trait TPP For oil production, traits like colour and the size of the groundnuts are irrelevant. For bolied and roasted groundnuts, high oil content is not desirable. Groundnuts haulims in livestock rearing as feed is key in Nigeria. Making haulm volume and quality are a key trait rregardless of groundnut end use of any groundnut variety. Processing kuli kuli Otuk Oil production on in Nigeria is done at cottage indust ined after oil is extracte Groundnut oil production evel and industrial leve **Top Varieties** ared by adding water intermit In Malawi this is largely driven by export market and local market t has the highest oil content of all food crops and is ly to soybean in term of protein content (20-30%) Color, size, uniformity of grain are important traits High oil content is not a key trait in Malawi. Haulms are not a key requirement Identified ed in a small frying pan containing hot groundnut o The TPPs for identified market segments in the two countries will be revised to prioritize relevant end use traits Conclusion -**[**] e are a loss to any breeding progra Haulms for animal feed Whole grain consumption when boiled or ortant across all groundnuts References leration for groundnut consumed when boiled Donovan, □., Coaldrake, P., Rutsaer8PnzingerM., Gitonga, A., Naziri, D., Demont, M., Newby, □. and Ndegwa, M. 2022. Market intelligence for informing cross-treading decisions by CGIAR and NARES. Market Intelligence Brief Series 1. Montrellier CGIAR == 1. Montrellier CG orators EDI Global Market Intelligence Accelerated Breeding IMAGE NASC V CGIAR CGIAR CIMMYT

Avid Wainaina, Akan Uteh, ajire and Glayds Mutua Sources of Seed by Crop Med Regeotering, Taracat MAGE Survey, seat 49 50 60 Mode Seat Mageotering, Seat 60 Mode S							
ed is hi	ighest for 4 y of the Maiz	25 24 9 5 20 e Rice	14 5 9 6 7 Cassava Cowy	ALC IN			
		input dealer	Local market				
/Ionitoring dmap		Maize	Rice	Cassava	Cowpea		
ic e	Improved Varieties	88	68	39	37		
e Y	Landraces	3	8	0	35		
nong the improved maize and rice varieties in the GRL are 8 maize and 6 rice varieties							

Among the improved maize and rice varieties in the GRL are 8 maize and 6 rice varieties that are not registered in the Nigerian catalogue but exist in the regional catalogue. Samples collected are lower than those in national catalogue because select institutions failed to provide old varieties and certain proprietary varieties.

g y	Household Survey	6 Zones/ 26 States / 103 villages 2,059 Farmers / <b>4,326</b> Plantings					
	Samples Genotyped	1060	1004	799	1005		

Number of genotyped sampled successfully was lower than number of samples sent for genotyping because of purity issues.







# NATIONAL ANTHEM

Nigeria we hail thee, Our own dear native land, Though tribe and tongue may differ, In brotherhood we stand, Nigerians all, and proud to serve Our sovereign Motherland.

Our flag shall be a symbol That truth and justice reign, In peace or battle honour'd, And this we count as gain, To hand on to our children A banner without stain.

O God of all creation, Grant this our one request, Help us to build a nation Where no man is oppressed, And so with peace and plenty Nigeria may be blessed.

# NATIONAL PLEDGE

I pledge to Nigeria my Country To be faithful, loyal and honest To serve Nigeria with all my strength To defend her unity And uphold her honour and glory So help me God.







## HIS EXCELLENCY BOLA AHMED TINUBU, GCFR

PRESIDENT, COMMANDER-IN-CHIEF OF THE ARMED FORCES FEDERAL REPUBLIC OF NIGERIA.





## HIS EXCELLENCY SEN KASHIM SHETTIMA, GCON

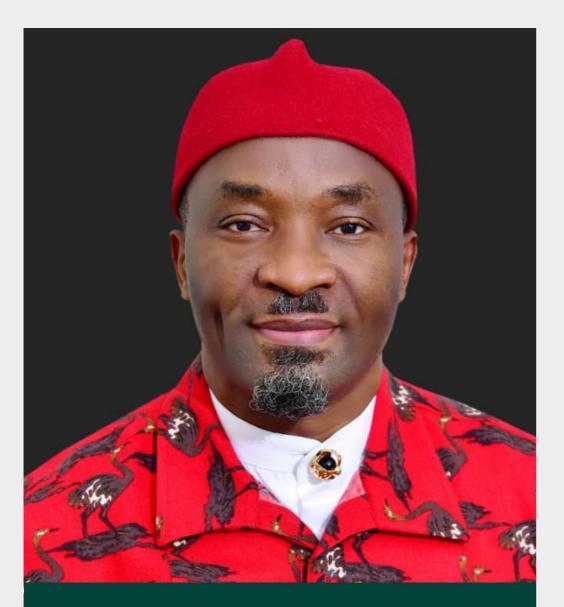
VICE PRESIDENT, FEDERAL REPUBLIC OF NIGERIA.











## BENJAMIN KALU, CON

DEPUTY SPEAKER, HOUSE OF REPRESENTATIVES, FEDERAL REPUBLIC OF NIGERIA





# SENATOR SALIU MUSTAPHA TURAKI

CHAIRMAN, SENATE COMMITTEE ON AGRICULTURE PRODUCTION SERVICES AND RURAL DEVELOPMENT











## **RT. HON SIMON BAKO LALONG**

CHAIRMAN, SENATE COMMITTEE ON AGRICULTURAL COLLEGES AND RESEARCH INSTITUTIONS





CHAIRMAN, HOUSE COMMITTEE ON AGRICULTURAL PRODUCTION SERVICES AND RURAL DEVELOPMENT



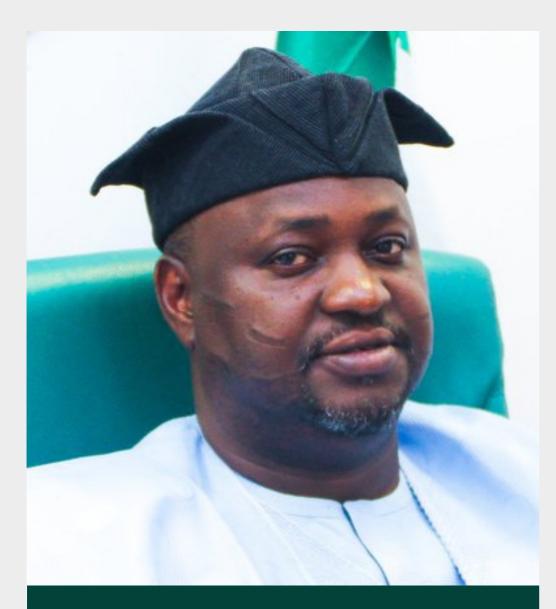


### ... The Largest gathering of Seed Industry Stakeholders in Africa

## HON. BELLO KAOJE







## HON. ADEYEMI AKEEM ADENIYI

CHAIRMAN, HOUSE COMMITTEE ON AGRICULTURAL COLLEGES AND RESEARCH INSTITUTIONS





## SEN. ABUBAKAR KYARI

HONOURABLE MINISTER, MINISTRY OF AGRICULTURE AND FOOD SECURITY







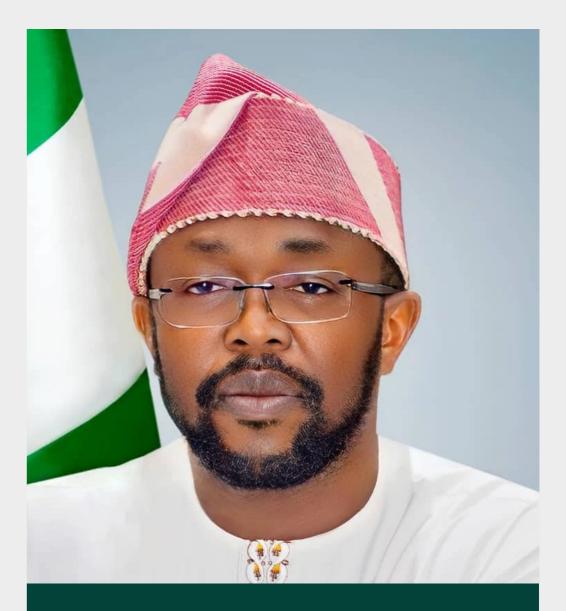




## SEN. ALIYU SABI ABDULLAHI

HONOURABLE MINISTER OF STATE FOR AGRICULTURE AND FOOD SECURITY





## **TEMITOPE FASHEDEMI**

PERMANENT SECRETARY OF THE FEDERAL MINISTRY OF AGRICULTURE AND FOOD SECURITY











## **DR. ISHIAQ KHALID**

Ag. DIRECTOR-GENERAL, NATIONAL AGRICULTURAL SEEDS COUNCIL. HOST



## **2024 SEEDCONNECT CHAIRMAN OF PANEL SESSION, PANEL MEMBERS AND HOSTS**



Olagbaju, Ph.D Chief Research Scientist (Postharvest Entomologist) Nigerian Stored Products Research Institute (NSPRI)





**Dr Arnab** Gupta Netherlands.





**Dr Oyawale** lbitoye





**Dr Sunday** Aladele National Centre for Genetic Resources and Biotechnology (NACGRAB) Role: Panelist





Hon. Patrick Nwabueze Ubru Commissioner for Agriculture and Agro Industrialization, Enugu State



#### Chinedu Agbara,

Sahel Consulting. Role: Facilitator



#### David Onu

**MD INTERA** Network Role: Panelist,

#### Dr Damian Ndubuisi Njoku

Director, Cassava Research Development. NRCRI Umudike Role: Panelist,

#### Afolabi Samson O. (PhD.)

Research and Production Manager, Premier Seed Nigeria Limited Role: Panelist,

#### Dr William Malafwal

Program Manager Oxfam Role: Panelist, perspective on humanitarian and food security

#### Mr Daniel Aghan

Communication Officer AFSTA Nairobi Kenya Role: Panelist



#### Dr Lucky Omoigui,

International Institute of Tropical Agriculture (IITA) Role: Panelist, Perspective on Variety Deployment

#### Dr Samaila Aliyu

Head of Value Chain Development at FMN Plc. Role: Panelist



## Inge Tenniglo

Agricultural Counsellor for Nigeria and Ghana. Role: Panelist, Perspective on **Donor Alignment** 



#### Peter Gildemacher

Agricultural systems and seed sector specialist



## **2024 SEEDCONNECT CHAIRMAN OF PANEL SESSION, PANEL MEMBERS AND HOSTS**





## **2024 SEEDCONNECT CHAIRMAN OF PANEL SESSION, PANEL MEMBERS AND HOSTS**



**Prof Lateef** Oladimeii Sanni Executive Director, NSPRIPM

Malam Dahiru

Director DG's

Agricultural

Timothy

Azakere

Sustainable

Smallholder

**Role: Panelist** 

Solutions)

Foundation for

Office National

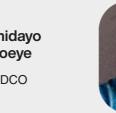
Seeds Council

Rabiu



**Prof Morufat** Balogun **IITA- PROSSIVA** Project Role: Panelist,





Dr Osho Langunju Bankole National Role: Panelist, Perspective on



Ugbodaga Founder, 3G -(Grantt Group Entrepreneurship Support and



**Dr Folarin** Okelola Acting Registrar **PVP** Office Nigeria and Convener of SeedConnect



Mr. Geoffrey

TAAT Private

Sector Specialist

Nsofon

Dr Godwin Atser Country Director SAA Nigeria -Keynote Speaker 2 and panelist



Job Head, Agronomy and Seed

**Dr Anthony** Development.

Walter De Boef

Wageningen University and Research (WUR). Role: Session Facilitator

Prof Mrs N. I. Odiaka

Director Seed Technology Centre Joseph Sarwuan Tarka University Makurdi Role: Panelist,



Dr. Ibrahim Mohammed Arab National Program

**Dr** Philip

Council

**Olusegun Ojo** 

Former Director-

General, National

Agricultural Seeds



SEED\_CO The African Seed Company PRODUCT PORTFOLIO HYBRID MAIZE SC 419 Extra Early Maturity (85-90 days) Early Maturity (90 days) SC 510 SC 612 SC 649 SC 651 Medium Maturity (110 days) SC 719 Late Maturity (110-120 days SOYBEAN RICE SC SL 01 Faro 44 Faro 52 TGX 1448-2E It starts with the right seed www.seedcogroup.com/ng CALL AGRONOMIST 08039925236, 09154232166

Agricultural Seed Council (NASC) Quality Assurance

Frank

14

#### Prof. Bello Abubakar Zaki,

Agricultural Research Council of Nigeria (ARCN)



#### **Prof Adesola** Ajay

Professor of Seed Science and Vice Chancellor First Technical University Ibadan Oyo State

#### Adedavo Adetumbi

IART Moor Plantation Ibadan



Mr. Ebiarede Zidafamor Director NASC



## The Home of Bumper harvest 🛛 😪 🦪 🛞 🥋

#### **OFFICE ADDRESSES**

ISEYIN:
Alhaji Dare House, beside Ba-Nfati Cool Spot Barracks, Iseyin, Oyo State.
LATITUDE: 7.9593653 // LONGITUDE: 3.6122989
GOMBE:
ASM MAI MANJA PLAZA Main Market Road opposite Jaiz Bank, Gombe - Gombe ste
LATITUDE: 10.2831267 // LANGITUDE: 11.18297 OYO:
Adesakin House, Abiodun Atiba Road, Idi-Ope, Oyo, Oyo State.
LATITUDE: 7.84726 // LONGITUDE: 3.92907
YOLA:
SHOP 3 & 4 Yettore Plaza Target Junction Gimba Road, Jimeta -Yola,
Adamawa State. LATITUDE: 9.2718171 // LONGITUDE: 12.4532972
Al-Nurul Huda Barau Shopping Plaza Panteka Suleja, Niger State.
LATITUDE: 9.20583 // LONGITUDE: 7.17271
JALINGO:
No 157 Hammaruwa Way, Jalingo Taraba State.
LATITUDE: 8.933 // LONGITUDE: 11.339
EDO:
Progressive Plaza No 2 Isekhere street off wire road, opposite Muyi line Benin city. LATITUDE 6.33837 // LONGITUDE 5.61996



# **PROGRAMME OF EVENTS**

## **DAY ONE - TUESDAY 26, NOVEMBER 2024**

#### **OPENING DAY**

Event facilitators/anchors: Dr. Folarin Okelola, NASC and Daniel Aghan (AFSTA, Nairobi Kenya)

#### 8:00 AM - 9:00 AM **REGISTRATION AND NETWORKING**

Atendees check-in and receive their conference materials and network.

## 9:00 AM - 11:00 AM

#### **OPENING CEREMONY**

- Welcome Address: by the Chief Convener of the Conference.
- Goodwill Messages: Government representaives, major sponsors, organizaions/partners.
- Special Remarks by Guests of Honour: H.E Ambassador of Netherlands and other Ambassadors/Chairs of National Assembly Commitees on Agriculture and other Chairs of Commitees/ Permanent Secretary FMAFS
- Keynote Speaker 2: Dr Godwin Atser, Country Director SAA Leveraging Seed Technology to Scale Up Africa's Agricultural Producivity
- Keynote Speaker 1: The Honourable Minister of State Agriculture and Food Security- Senator Dr Aliyu Sabi Abdullahi (CON) - Leveraging Seed Technology to Scale Up Africa's Agricultural Producivity
- Special Address and Event Opening: The Honourable Minister of Agriculture and Food Security- H.E Disinguished Senator Abubakar Kyari (CON)

#### 11:00 AM - 11:45 AM

#### **TEA/COFFEE BREAK & EXHIBITION TOUR**

Atendees explore exhibition booths showcasing the seed industry's latest products, technologies, and services.

#### 11:45 AM - 12:45 PM

#### Plenary Session 1 – The Future of Seed Technology in Africa

- Panel discussion with industry experts on the latest advancements in seed technology and their potenial to drive producivity.
- Topics: Innovaions in seed geneics, resilience to climate change, and the role of digital technology in seed research, development, and storage.
- Focus will be on:
- Seed Breeding & Biotechnology Innovaions and Challenges
- Policy and Regulaion Strengthening Seed Systems for Agricultural Growth.
- Climate-Resilient Seed Research and Development Tackling Climate Change through Seed Innovaion.
- Seed Storage Improving the shelf life of seeds through innovaive storage techniques.
- Panelists: The session to be facilitated by Prof. Mrs N. I. Odiaka and will comprise of the following:
- Breeder- Dr. Rufus Olaogbaju of NSPRI
- Dr Rufus Idris AGRA Country Director

- Mr Geofrey Nsofon TAAT Private Sector Specialist / ACLBC
- Mr Temidayo Owoeye MD SEEDCO Nigeria

#### 12:45 PM - 1:45 PM

#### PLENARY SESSION 2 - LEVERAGING TECHNOLOGY FOR SEED DISTRIBUTION AND ACCESS

- access challenges, and reducing seed costs for farmers.
- Focus of the session:
- Digital Tools for Seed Industry Transformation
- Partnerships in the Seed Industry Collaborations for Growth
- - Panelists: The session to be facilitated by Prof. Sola Ajayi will comprise the following:
  - Cecilia Mwangi Resourced Global
  - Mr David Onu INTERA
  - Dr Oyewale Ibitoye MD Premier Seeds Limited
  - Dr Samaila Aliyu Head Value Chain Development FMN PLC

#### 1:45 PM - 2:15 PM

LAUNCHING THE NIGERIA SEED PORTAL AND THE NATIONAL SEED ROADMAP DASHBOARD AND PRESENTING THE GAZETTED PLANT VARIETY PROTECTION **REGULATION FOR PUBLIC AWARENESS – CSP/NACGRAB/PVP TEAM.** 

#### 2:15 PM – 3:15 PM LUNCH AND NETWORKING

#### 3:15 PM - 3:30 PM

#### SEEDCONNECT DRAMA SERIES

- The drama will focus on the Nigeria Variety release and Plant Variety Protecion in promising varieies of crops for increased producivity and proitability for farmers and seed industry businesses.

#### 3:30 PM - 4:30 PM

#### PLENARY SESSION 3 – FARMER COMMUNITY-MANAGED SEED SYSTEM

- seeds for all.
- Panelists: Session to be chaired by Walter De Boef and will comprise of the following:
- Dr Sunday Aladele, Naional Centre for Geneic Resources and Biotechnology (NACGRAB)
- Inge Tenniglo, Agricultural Counsellor for Nigeria and Ghana.
- Malam Idris Dantsoho, Naional Agricultural Seed Council (NASC)
- Dr Lucky Omoigui, Internaional Insitute of Tropical Agriculture (IITA)

#### 4:30 PM - 5:00 PM

#### **RECOGNITION OF SPONSORS / PRESENTATION BY PLATINUM AND GOLD SPONSORS**

- Presentaion by the lead sponsors.
- The lead sponsors showcase their company
- Presenters: Representaives of the lead sponsors

Discussions on the role of technology in improving seed distribution, addressing

Financing Seed Innovaion – Access to Funding and Investment Opportunities

Portal established to simplify the variety release and protecion process to usher

**Focus of the session:** This will be an interacive session for industry stakeholders on the topic of a community-based seed system to ensure access to quality



#### 5:30 PM - 7:00 PM

#### GALA NIGHT SPONSORED BY GOLD SPONSOR OR ANY OTHER ORGANIZATION

A relaxed evening with refreshments, allowing atendees to meet and discuss potenial collaboraions and partnerships.

## **DAY TWO - WEDNESDAY 27, NOVEMBER 2024**

#### DEEP DIVE SESSIONS AND CLOSING

#### 8:30 AM - 9:00 AM **NETWORKING**

#### 9:00 AM - 10:00 PM

#### PLENARY SESSION 4 – INSTITUTIONAL MARKET SESSION

- Focus of the session: An interacive session for industry stakeholders on building a robust insituional market system.
- Panelists: The session to be facilitated by Chinedu Agbara will comprise the following:
- Dr William Malafwal, Program Manager, Oxfam
- Dr Samson Afolabi, Research and Producion Manager, Premier Seed Nig Ltd
- Dr Ebiarede Zidafamor, Director of Seed Coordinaion, Naional Agricultural Seed Council
- Prof. Bello Abubakar Zaki, Agricultural Research Council of Nigeria (ARCN)

#### 10:00 AM - 11:00 AM

#### PLENARY SESSION 5 - BEST PRACTICES IN SEED QUALITY ASSURANCE AND PRODUCTION FOR VEGETATIVELY PROPAGATED CROPS AND UNDERUTILIZED CROPS

An interacive session for industry stakeholders on ensuring quality assurance and producion of superior varieies of VPC and underuilized crops in Africa.

- The session will be preceded by a presentation by Peter Gildemacher (Managing Director SEPIA Netherlands), which will provide an overview of the challenges and opportuniies of the seed potato sector in Nigeria.
- Panelists: The session to be chaired by Prof Lateef Sanni ED NSPRI will comprise the following:
- Dr. Ibrahim Mohammed Arab Naional Program Coordinator (NPC) ATASP-1
- Prof Morufat Balogun PROSSIVA
- Dr Godwin Atser Country Director SASAKAWA/BASICS II
- Dr Damian Njoku NRCRI Umudike

11:00 AM <sup>-</sup> 12:00 AM **TEA/COFFEE BREAK & EXHIBITION TOUR** 

#### 12:00 AM - 1:00 PM

#### PLENARY SESSION 6 – THE ROLE OF ELECTRONIC /DIGITAL EXTENSION SERVICES TO **ENHANCE ADOPTION OF CERTIFIED SEEDS BY FARMERS**

An interacive session focusing on how electronic/ digital extension services can enhance farmers' adopion of ceriied seeds to enable increased yield and proitability.

- Panelists: The session to be chaired by Frank Ugbodaga will comprise the following:
  - Hadiza Yaro Country Manager East West Seeds
  - Prof Yusuf Ahmad Sani ED NAERLS
  - Dr Anthony Job Head Agronomy and Seed Development FMN PLC
  - Mr. Timothy Azakere– Team Lead Foundaion for Sustainable Smallholder Solutions

#### 1:00 PM - 2:00 PM LUNCH AND NETWORKING

#### 2:00 PM - 3:00 PM

#### CONNECTING THE DOTS- SEEDCONNECT SERIES PROGRESS AND UPDATE

- CONFERENCE.
- Presentaion to be made by the convener of SEEDCONNECT Dr Folarin Okelola.
- organizaions (AGRA, TASAI, CORAF, AFSTA, SEEDAN, etc).

#### 3:00 PM - 4:00 PM

#### PLENARY DISCUSSIONS - COLLABORATIVE SOLUTIONS TO AFRICA'S SEED SECTOR **CHALLENGES**

- ideas for collaboraive soluions to boost the African seed industry.
- Ms. Yewande Kazeem of Wandieville Media will facilitate the session.

#### 4:00 PM - 4:30 PM

#### **CLOSING PLENARY DISCUSSION – BUILDING A SUSTAINABLE SEED INDUSTRY IN AFRICA**

- The inal general discussion, featuring all paricipants , will discuss long-term strategies to strengthen the industry.
- who will be represented by Mr. Daniel Aghan, the AFSTA Communicaion Specialist,
- Other panelists include- TBD.

#### 4:30 PM - 5:00 PM

#### CLOSING CEREMONY AND PULLING OUT PARADE

- **Summary of Key Takeaways:** by the Lead Rapporteur.
- Pulling out Parade for reired Directors/ Seed Industry Giants.
- Vote of Thanks: Director NASC
- Event Closing: by the Permanent Secretary FMAFS.
- Announcement of Next Year's Theme and Locaion

#### 5:00 PM - 6:00 PM

#### FAREWELL NETWORKING SESSION

A inal chance for atendees to network, exchange contact information, and discuss potenial post -conference collaboraions.

**Focus of the session:** This is an interacive session for industry stakeholders to explore the acion points from previous ediions of the SEEDCONNECT AFRICA

Dr. Olusegun Ojo, former DG NASC, will facilitate the session, which will feature tesimonials on the impact of SEEDCONNECT by selected speakers from various

General group discussions, in which paricipants share insights, challenges, and

The session will be facilitated by Dr. Yacouba Diallo (AFSTA Secretary General),









THE 7TH EDITION OF

# THANK YOU TO OUR PARTNERS,





## **Building a strong PVP system in Nigeria**

**CSP Topic: Plant Variety Protection** 

## Nigeria-Netherlands

#### Key challenges addressed under this topic

- Institutionalization and operationalization of the PVP Act
- Development of the capacity of the PVP office and relevant stakeholders in Nigeria

The need to develop and increase the awareness of the public towards Intellectual Property and Plant Breeders **Rights in Nigeria** 

## **Objectives of the CSP**

## topic team:

- Raising awareness of stakeholders on PVP
- Operationalization and establishment of the Nigerian Plant Variety Protection (PVP) office
- Develop capacity on Distinctiveness, Uniformity and Stability (DUS) testing

Develop the capacity of the NPVPO and relevant stakeholders on Plant Breeders Rights in Nigeria





#### Key on-going activities

**Development of the PVP Application System for the NPVPO**The PVP is currently in the beta stage of testing and would become fully operational by January 2024.

Secure the approval of the Presidency for the deposition of the instrument of accession to UPOV: The NPVPO is currently in the process of securing the approval for the deposition of the instrument of access from the presidency which would enable Nigeria to become a full member of UPOV.

SeedConnect Africa Conference & Exhibition: The SeedConnect is an annual event organized by NASC, in collaboration with the private seed sector

Secure the approval of Plant Variety Protection Guidelines and Regulations from the Federal Ministry of Justice and the Federal Minister of Agriculture and Food Security: The Guidelines and regulation for the PVP Act has already been developed and the office is currently in the process of securing its approval for use from the appropriate offices.

#### Key events during CSP under this topic

- Online training and backstopping to the PVP office staff: April, 2022
- Online training on DUS examination, testing. October, 2022
- Online Workshop on Quality Assurance System (audits): July & October, 2023
- Technical backstopping training for staffs of the NPVP at Naktuinbouw in the Netherlands: April, 2023 Fundamental of developing Testing Guidelines for the Nigeria PVP Office: July 2023
- Two Days of Empowering Training for DUS Technicians and Field Assistants: Training of the development
- of DUS testing guidelines for the Nigeria Plant Variety Protection Office: September 2023 DUS Field Management and Data Collection: October 2023

#### Meet the team

#### **CSP** Topic team members

- Folarin Okelola, NPVPO/NASC
- Laura Piñán González, Naktuinbouw
- Arnab Gupta, WCDI
- Toyosi Job, Value Seeds Nig Limited Afolabi Samson, Premier Seeds Nig Limited
- Dotun Ogunnivan, IART
- Adams Olosunde, NACGRAB
- Bunmi Ibitoye, NIHORT
- Muyideen Oyekunle, IAR
- Chidozie Egesi, NRCRI
- Dr Umar Umar, ARCN

#### Additional key partners

- Naktuinbouw UPOV
- WIPO
- NARIS (IAR, IART, NCRI, NRCRI, ARCN, NIHORT, NACGRAB)
- Various seed companie
- Various universities

DUS t ion of the PVP office

#### Key outcomes from activities under this topic:

- Establishment of the Nigeria Plant Variety Protection Office (NPVP)
- Conduct of 7 capacity building sessions and hand-on practical training for DUS technical staffs, plant breeders, researchers and other relevant stakeholders
- Development of the PVP application system.
- Development of the PVP regulations and guidelines

#### Our priorities for 2024

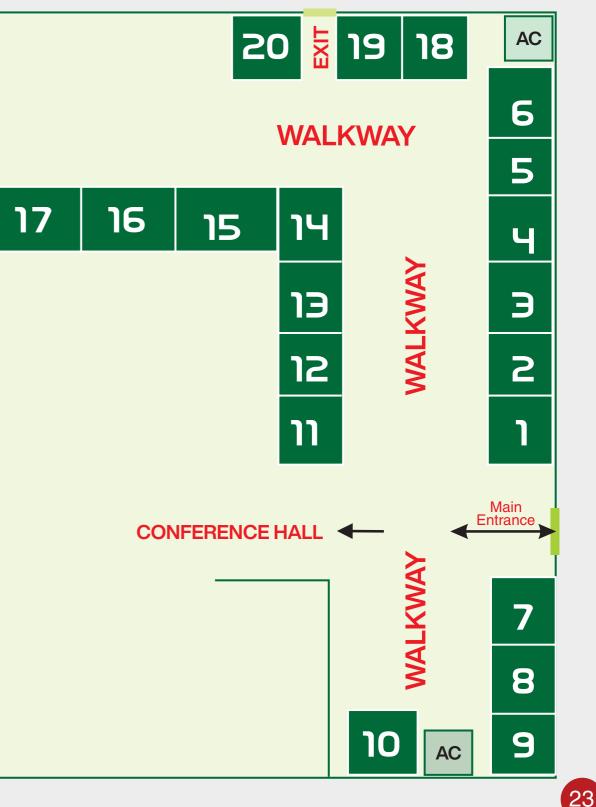
PVP Summer School for undergraduates and postgraduate student in Nigeria

#### Organize a series of capacity building trainings on DUS examination, testing and administration



# **FLOOR PLAN**

# **EXHIBITION BOOTH (3X2m)** FOR SEEDCONNECT 2024









# Seed production and distribution in the world of digital science, precision agriculture and ailing economy

Samuel A. Olakojo\*, Okelola Folarin, Oloruntoba O. Olakojo and Olisa Babafemi

#### Introduction

Agricultural practices in the 60s and 70s were labour intensive, human-energy demanded, error-prone, and, of minimal accuracy. But, in 1980s and 90s agricultural space was dominated by mechanization. Presently, use of artificial intelligence, computational science and ICT are taking over. The application of these technologies makes farming activities and seed production very fascinating in the western



Introduction cont'd

Computer Applications Technology is the study of the integrated components of a computer system (hardware and software) and the practical techniques for their efficient use, and, application to solve everyday problem;



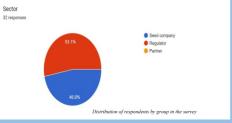


#### Methodology

- A total of 32 people responded across representative of major seed companies, seed the regulatory agency, and development partners.
- The google form harvested information, cleaned it up and analyzed using simple descriptive statistics in graphical form for easy interpretation and reporting.

S/N	Focus Crop	Area	% area harvested to	S/N	Factor considered	Manual	ICT/Digital
		harvest(ha)	cereals, pulses and oils	1	Time required	72hrs	10 Minutes
				2	Material used	N5,000.00	N100.00
				3	Efficacy	50%	98%
				4	Storability of information	50%	90%
1	Maize	6,205,340	21.0	5	Opportunity for review	30%	100%
2	Sorghum	5,931,100	21.0	6	Extent of seed need forecast	4%	100%
3	Rice	4,321,130	16.0	7	Continuity from one person to another	40%	100%
4	Soybean	1,262,280	4.0	8	Ease of data and information sharing	40%	100%
	Total		62.0	9	Degree of possible error	< 50%	<5%
				10	Final rating	40%	100%

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data.

at 6th Position.

A lot of field activities are being carried out using robot, drones, mechatronic operated gadgets and electronically calibrated farm machines and implements using computer systems and software designed for specific functions.

□Performance of Nigeria Seed system in Africa as at 2023 using evidence-base

Nigeria seed performance, against other African countries, Nigeria was placed

Although, the performance was not so bad, but if accurate information was captured using seed portal and reported

as appropriate, Nigeria might be probably in a better position.

From the comparative analysis

Advances in seed science









tente and apparative a subject that performs intransport managers in second use chain that allows breaders, seed producers, firmers, marketers, and cessors, to work together under what is described as citizen-base ence.

Also, there are software and apps now a days that permits multiple stakeholders in seed value chain that allows breeders, seed producers, farmer marketers, and processors, to work together under what is described as citizen-base science.
The necessary metrics for each stakeholder is factored into it at the onset to promote high adoption, quick and easy evaluation, reduced time release, in an holistic nature in Nigeria
Although, many of the smart farming applications can be found in developed countries, there are also examples from developing countries.

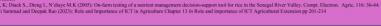
- For example, Saito et al. (2015) developed a cloud-base decision-support tool to provide field-specific fertilizer recommendations to farmers Senegal.
- Shruti Samadder and Deepak Rao (2023) were of the view that Information and Communication Technologies (ICT) has the potential to providing real-time information on weather, market price and crop management, to enable farmers make more informed decisions about crop increase and productivity.

#### Conclusion

served that the feature d production and ion system in Nigeria is and will transform tess and bring forth the deliverables in no me.

veral authors have also identified th the efficiency and the efficacy the use of ICT in transforming riculture and by extension the geria Seed System Production cost per unit area or operation will be reduced, tim required will be reduced, efficiency will be higher, quality of see produced will be high, feedback from relevant players will be robus and agricultural production and

It is therefore imperative of the nat seed system and her stakeholder adopt the use of the newly devel seed portal for the benefit of companies, farmers, regulatory ag and national and regional seed t expansion, to revolutionize the Nig





Digital Science in this generation is rapidly transforming agriculture with high efficiency by precision, accuracy, speed, economic and resultoriented output