



# AFRICA-KOREA

## AgTech Innovation Summit

— Program Guide 2023 —

CREATING AN INNOVATION ECOSYSTEM TO CONNECT AFRICAN  
FARMERS TO DISRUPTIVE AGRICULTURAL TECHNOLOGIES

FEBRUARY 8-9, 2023 | NAIROBI, KENYA

#DisruptiveAgTech

— In Partnership with —





# Introduction

The World Bank, with support from the Korea World Bank Partnership Facility (KWPF) and the Korean Green Growth Trust Fund (KGGTF), and in partnership with Plug and Play Tech Center, is hosting the Africa-Korea AgTech Innovation Summit on 8-9 February 2023 in Nairobi, Kenya, to showcase AgTech ventures from Africa, South Korea and the world. The Summit brings together the finalists of the Africa-Korea AgTech Innovation Challenge, through which the World Bank identified disruptive agricultural technologies (DATs) with the potential to transform agriculture in Africa, that will pitch to a Grand Jury.

The Summit draws upon the World Bank's earlier work on mapping and understanding the agricultural innovation ecosystems in Uganda, Kenya, and South Korea. In addition to DAT pitches, the Summit convenes policymakers, incubators, accelerators, and investors to discuss how to foster an enabling entrepreneurial environment and increase investment in technologies that benefit smallholders. During the Summit, DATs will engage in structured networking opportunities with their other country counterparts to size market opportunity, discuss possible collaborations and partnership models, and adapt technological solutions.



# About the One Million Farmer Platform, Kenya

Despite Kenya being the digital innovation hub of Africa and home to many of the continent's innovative start-ups on digital agriculture, many of Kenya's farmers have yet to benefit. Since 2019, a group of partners, led by the World Bank Group, has created a platform to identify Kenya's most promising agri-tech innovations to bring one million Kenyan farmers onto an impactful digital platform.

Technologies such as mobile apps, data analytics, and digital extension can be used to improve farmers' yields if deployed effectively and scaled dramatically. Technology can enable suppliers to aggregate farmers' demand for inputs like seeds and services like tractors, which can then cost-effectively be delivered to farmers at the farm gate. Other promising approaches include financial services, enterprise development, market access, and data analytics. Given the significant level of World Bank investment in agriculture with the Kenyan government, the application of robust technology solutions can also be a force to accelerate impacts.

The World Bank through two of its existing projects, the Kenya Climate Smart Agriculture (KCSAP) and the National Agriculture Inclusive Growth Project (NARIGP) is cumulatively investing 450 million USD to enhance productivity, resilience and profitability of the million farmers across all 45 rural counties in Kenya. As part of these projects, there are dedicated analog investments earmarked at the farm level and the producer organization level. In addition, dedicated teams across all 45 rural counties have been recruited and are working closely with the farmers.



# Africa-Korea AgTech Innovation Challenge | Summary

The Africa-Korea AgTech Innovation Challenge was launched in November 2022 by the World Bank, with support from the Korea World Bank Partnership Facility (KWPF) and the Korean Green Growth Trust Fund (KGGTF), and in partnership with Plug and Play Tech Center and Intellecap. The aim was to identify global disruptive agricultural technologies (DATs) interested in working in Africa.

The World Bank Group defines DATs as digital and non-digital innovations that enable smallholder farmers to leapfrog their current constraints and improve their yields, incomes, nutritional status, and climate resilience. These technologies range from mobile apps to digital identities for farmers, solar applications for agriculture, portable agriculture devices, and bio-fortified foods. DATs empower farmers by either (i) accelerating agri-food outcomes by multiple folds (3-5x) and/or by (ii) circumventing the conventions of the value chain to achieve the same/better results — but with a more efficient agri-food outcome.

Agriculture is a critical sector for Sub-Saharan Africa, employing the largest share of workers and contributing about 15 percent of the region's gross domestic product (GDP). Agriculture remains critical to livelihoods of majority of households, especially in rural areas, providing both income and food to smallholder farmers. The agri-food system is also key to unlocking the region's progress in reducing poverty, improving nutrition, achieving food security, and creating employment.

Disruptive Agricultural Technologies (DATs) have the potential to transform agricultural systems by enabling farmers and agribusiness entrepreneurs to leapfrog current methods to increase their productivity, efficiency, and competitiveness, thereby facilitating access to markets, improving nutritional outcomes, and enhancing resilience to climate change. Agri-tech solutions range from SMS-based weather alert systems to aerial drones and advanced robotics, reflecting the levels of mobile and internet penetration rates of their target markets.

South Korea has relevant experience for sharing with sub-Saharan Africa as its overall economic growth trajectory began with a heavy focus on agricultural and rural development. In addition, like Sub-Saharan Africa, much of Korea's field crop cultivation is centered on smallholders, while the lucrative horticulture and livestock value chains are centered around larger-scale and better resourced companies, much like Africa's top export crops such as coffee and cocoa. The Africa-Korea AgTech Innovation Challenge & Summit aims to provide a platform for knowledge exchange between these geographies.





# Thematic Areas for Innovation Challenge

The challenge invited DATs whose solutions address one of the following three themes:

## 1 IMPROVING AGRICULTURAL PRODUCTIVITY AND EFFICIENCY

**Why:** Crop yields and livestock productivity in Sub-Saharan Africa are not rising fast enough to meet growing food demand. Growth in productivity has slowed due to increased climate events, reliance on rainfed agriculture, low uptake of advisory and extension services, lack of access to better inputs (seeds, fertilizer, pesticides) and low rates of mechanization.

**The Goal:** To increase productivity and/or quality of produce while optimizing inputs

**Examples:** Services providing information about weather, prices and inputs, extension and advisory services, learning platforms, pest and disease management tools, medical assistance tools for livestock, digital services that increase farmers' access to inputs and machinery.

## 2 IMPROVING MARKET ACCESS PROVIDING DOWNSTREAM & UPSTREAM LINKAGES

**Why:** Many smallholders in Sub-Saharan Africa sell their produce to the local community or to intermediaries since they lack information and connections to alternative buyers who could give them better prices and conditions. Obstacles to market access include lack of information on demand, prices and production volumes, lack of mechanisms to certify or guarantee product quality, lack of access to high quality buyers, and inability to get produce to the buyer in time due to logistical challenges and a lack of cold chain facilities.

**The Goal:** To improve market access and market integration for smallholder farmers, including providing links to better inputs and connecting farmers to buyers who can pay better prices.

**Examples:** platforms linking farmers with buyers, services providing price information, quality assurance and traceability solutions, virtual aggregation and logistics solutions.

## 3 FINANCIAL INCLUSION OF FARMERS

**Why:** Access to credit and insurance products can provide a safety net for farmers, who are highly vulnerable to climate events. However, only 1 percent of credit supply flows to farmers. Factors that constrain financial access include lack of reliable data to support agricultural lending decisions, lack of collateral to secure financing, high transaction costs for providing financial services to rural areas, and lack of data for assessing risk and delivering financial services (for example, high costs of traditional claims processing for agri-insurance). Additionally, the high cost of credit translates into a lack of demand for credit by farmers.

**The Goal:** Improving access to credit, insurance, and other financial instruments for smallholder farmers.

**Examples:** Services and solutions increasing access to crop insurance, generating credit scoring, e-wallet systems, and credit scoring services, digital credit services

The challenge received 155 applications across 25 countries. Twenty-one finalists were selected after a rigorous two-step evaluation process with each application being reviewed by three reviewers at each step. The finalists will have the opportunity to pitch their solutions at the Africa-Korea Agtech Innovation Summit.

The two-day Summit will provide the finalists a platform to showcase their innovations to key government officials from Kenya, Uganda and South Korea, World Bank stakeholders, prominent accelerators and venture capital firms (VCs). The winning solutions will also have the potential opportunity to join the **One Million Farmers Platform** in Kenya. This is in line with the World Bank's objective to create bridges between innovators and explore the potential to incorporate DATs into its larger agenda.



# Africa-Korea AgTech Innovation Challenge | Finalists

## Agribusiness Solutions | Kenya



Agribusiness Solutions Ltd. was founded in 2014 as a proprietorship consultancy firm, specializing in agribusiness financial literacy, but has evolved into a company with the goal to empower poor rural communities in arid and semi-arid areas in Africa. The company achieves this through manufacturing of avocado oil, briquettes, biodiesel, and black soldier fly farming.

## agriBORA | Kenya



Founded in March 2019, agriBORA is an agri-fintech company that aims to de-risk smallholder agriculture by balancing technology and human touch. The company is building a digitally-driven end-to-end ecosystem around smallholder farmers, bringing farming inputs, financial services, and output markets closer together in a way that makes the process affordable, convenient, and reliable for farmers and their business partners. agriBORA's platform provides farmers with access to a variety of farming inputs, such as seeds, fertilizers, and pesticides, at affordable prices. The goal of agriBORA is to make smallholder farmers more visible, accessible and bankable, by providing them with the necessary tools to improve their livelihoods and strengthen the agricultural supply chain.

## AgroCares | Netherlands



Established in 2019, AgroCares is a global Ag-Tech company based in the Netherlands, providing smart farming nutrient testing solutions and information services for soil. The company supports farmers with fact based on on-the-spot monitoring of nutrients to improve crop productivity and soil health through resource efficient management practices. The objective is to transform traditional nutrient and develop new international standards for sensor analysis affordable and accessible to everyone and everywhere

### AgroCenta | Ghana



Established in September 2016, AgroCenta is an agricultural technology company that uses alternative data to provide financial services to smallholder farmers. The company's platform connects farmers to a variety of services, such as access to weather information, crop management advice, and market prices for their produce. AgroCenta also provides farmers with access to agricultural inputs, such as seeds and fertilizers, at affordable prices. In addition, the company offers financial services, such as loans and savings accounts, to help farmers invest in their operations. The company's goal is to empower smallholder farmers and increase their productivity and income, while also promoting sustainable agricultural practices.

### Akorion Company (EzyAgric) | Uganda



Established in 2015, EzyAgric is an eCommerce platform for genuine and affordable agricultural inputs and services. EzyAgric app helps smallholder households in Uganda to purchase genuine inputs, access farm advisory and consistent market. Digitization provides a cost-effective and sustainable aggregation power that provides the needed products and services to unlock Africa's endless farming possibilities.

### Amtech Technologies | Kenya



Amtech started operations in 2007 specializing in ICT systems development in agriculture. Amtech operates a credit scores system that analyzes smallholder farmer datasets (this farm-level data is already present at the farmer organizations) using Amtech machine learning algorithm to produce relevant credit scores and decision tools that enable farmers' organizations to lend.

### DK Ecofarm | South Korea



Founded in 2016, DK Ecofarm Co Ltd. aims to become the leading agricultural solution company based on its sensor and control system differentiation capabilities, which are key components of smart farm solutions especially Controlled Environment Food Production systems. The company strives for the globalization of Korean agricultural technology for the purpose of stable supply of healthy agricultural products through advanced technology. DK Ecofarm utilizes ICT-based smart agriculture and collaboration with farm households based on consistent research and development in the field of Smart agriculture growth environment management.

### eProd Solutions | Kenya



eProd, established in October 2015, offers supply chain management ERP solutions to agricultural companies. The platform enables companies to create detailed farmer profiles, increase productivity through input provision and training, facilitate timely and accurate payments to farmers, and communicate through SMS, USSD, and reports. The platform also allows for stock management, creating a market system approach that leads to a transparent, traceable, and accountable supply chain.

### Farmer Connect | Switzerland



Founded in 2019, Farmer Connect is a Swiss based tech company delivering end-to-end traceability solutions. The company empowers action in the areas of digitalization, sustainability, transparency and identity for smallholder farmers across the world. The company that aims to improve the sustainability and traceability of the coffee supply chain using blockchain technology. The company's platform, called "Beanchain" allows coffee farmers to register and trace their beans from the farm to the consumer, providing transparency and traceability throughout the supply chain. The platform also allows farmers to access market information, connect with buyers, and receive payments directly and securely. Farmer Connect SA's goal is to empower coffee farmers by giving them more control over their supply chain, increase their income and promote sustainable agricultural practices.

### Farmerline | Ghana



Founded in 2015, Farmerline is a fast-growing Agtech company in Ghana that uses technology to improve the livelihoods of smallholder farmers. The company's platform connects farmers to a variety of services, such as access to weather information, crop management advice, and market prices for their produce. Farmerline also provides farmers with access to agricultural inputs, such as seeds and fertilizers, at affordable prices. In addition, the company offers financial services, such as loans and savings accounts, to help farmers invest in their operations. Farmerline's goal is to empower smallholder farmers and increase their productivity and income, while also promoting sustainable agricultural practices.

### Inputi | Uganda



Inputi was founded in 2020 with the mission of bridging the gap between smallholder farmers and the necessary resources for successful crop production. As a digital marketplace, Inputi connects farmers with a variety of high-quality and authentic farm inputs, such as seeds, fertilizers, and pesticides. In addition to providing access to inputs, Inputi also offers extension services and information to farmers. This includes valuable information on best practices for crop management, as well as access to markets for their produce and other value-added services. By connecting smallholder farmers to these resources, Inputi aims to empower farmers and improve their livelihoods, while also helping to strengthen the agricultural supply chain as a whole.



### Kuza Biashara | Kenya



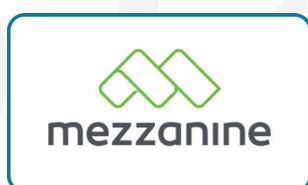
Kuza Biashara is a private limited company established in 2011 with the goal of empowering underserved communities by building their capacity as entrepreneurs. It focuses on youth, women, and small business owners by onboarding them to an online platform called Rural Entrepreneur Development Incubators (REDI). Agripreneurs on the platform offer bundled services such as crop advisory, market access, agricultural inputs, and credit to smallholder farmers within their communities, earning a commission in return. The company operates in five countries across Africa and Asia, and has a growing network of partners. It also offers its platform as a service to governments, multilaterals, and the private sector to incubate young agripreneurs. Kuza's OneNetwork, a curated digital marketplace, is used to onboard mission-aligned partners.

### M-Cash | Uganda



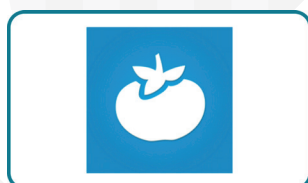
Established in 2010, M-Cash Uganda Limited is a fintech company that provides payment services to the banked and unbanked population of Uganda through partnerships with commercial banks. The company is licensed by the Bank of Uganda to operate as a payment service provider. M-Cash's technology is linked to mobile networks and financial institutions, and offers easy-to-use interfaces such as USSD, mobile apps, POS, ATM card, and e-banking solutions to its customers. This allows customers to easily access banking services such as cash deposits, withdrawals, and money transfers through their mobile phones. The company's goal is to increase financial inclusion by providing affordable and accessible payment services to underserved populations.

### Mezzanine | South Africa



Mezzanine started operations in 2009 as a subsidiary of the Vodacom Group. It operates as a tech start-up with the support of multinationals through Vodacom, and Vodafone. Mezzanine's purpose is to work with its customers and partners to enable a healthy, well-educated society with an economically active adult population. This definition guides their focus on health, education, and agriculture as priority industries.

### PlantVillage | Kenya



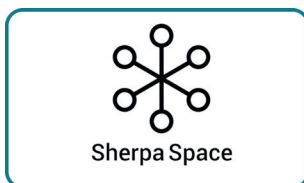
Established in 2012, PlantVillage is a nonprofit entity that developed a mobile application called Nuru that farmers use to identify disease symptoms and pest damage on plants. The app uses Tensor flow image detection technology to detect objects on plant leaves and patterns indicating disease outbreak. The AI-powered tool is trained using images of healthy and diseased leaves to enable diagnosis. The mobile app also provides weather forecasts and can be used offline and online.

### Satyukt Analytics | India



Satyukt Analytics, founded in 2018, aims to reduce the high cost of production and crop losses in farming by providing data-driven insights on issues such as unscientific input usage, pests and diseases, irrigation efficiency, and natural risks like floods, droughts, and hailstorms. Satyukt Analytics focuses on developing actionable insights and making them accessible to most farm holders, including small and marginal farmers.

### Sherpa Space | South Korea



Sherpa Space was established in 2016 to provide smart farm solutions to users by utilizing artificial lights to support plant growth and productivity. The company provides an adjustable combination of narrow-band light-emitting diodes (LEDs) that are used to provide different plants with their preferred light components at different growth stages. The technology can load and customize light recipes based on customization options such as nutrient and chemical contents.

### SourceTrace Systems | India



Established in 2013, SourceTrace Systems offers digital solutions for agriculture and food businesses, including farm management software, data management, traceability, and supply chain management. The platform offers full visibility throughout the agriculture value chain and promotes transparency and traceability in the food trade. Additionally, the platform is customizable to integrate financial solutions such as ERPs, e-payment gateways, and data management systems, making farming more efficient for farmers.

### SunCulture | Kenya



SunCulture Kenya Ltd. has been operating since 2013 and provides efficient, clean and reliable irrigation solutions for smallholder farmers. SunCulture operates in Kenya and Uganda as well as internationally through distributors in Ethiopia, Togo and Ivory Coast. SunCulture's solar-powered irrigation systems are designed to be easy to use and maintain, and they are made with locally-sourced materials to ensure that they are affordable and accessible to small-scale farmers. SunCulture Kenya also provides training and support to farmers to help them effectively use and maintain their irrigation systems.

### ThriveAgric | Nigeria



ThriveAgric was established in 2017 as a technology led agricultural social enterprise driven by ensuring food security through improving Africa's agriculture sector while creating rural job opportunities for young people. The company offers a full range of agricultural technology solutions that ensure maximum value at affordable costs to smallholder farmers and other stakeholders. These services include input financing, post harvest services, market access, development and training

### USOMI | Kenya



USOMI was established in 2013 with the goal of transforming smallholder farming into profitable commercial enterprises. The organization works towards this goal by providing farmers with access to technologies, training, and forward contracts. USOMI's mission is to empower smallholder farmers in Africa to produce high-quality and traceable food, promote sustainable farming systems, improve livelihoods and contribute to the overall food security in Africa. The company does this by providing farmers with access to the latest technologies, training programs and forward contracts which enables them to meet the increasing demand for high-quality food. USOMI's approach is designed to be holistic and sustainable, and it is intended to improve the overall standard of living for smallholder farmers in Africa.

# Africa-Korea AgTech Innovation Challenge | Grand Jury



## Amos Mpungu

Principal IT Officer

Ministry of Information and Communications Technology and National Guidance (MICT), Uganda

Amos is an ICT professional with 15 years of experience. He has been at the centre of integrating the use of ICTs in the operations of the Government in Uganda. He has led digital projects that have introduced the application of ICT in agricultural data collection; re-engineering business processes; and the development of functional systems in advisory, input distribution, traceability, and quality assurance. He currently heads the research and development team at Ministry of ICT.



## Bakang Moetse

Corporate Partnerships Manager - Africa

Plug and Play Tech Center

Bakang self-identifies as a Botswana-born, Pan-African feminist with an ardent passion for sustainable development and social justice. She believes that her role in Africa's socioeconomic development story lies within the nexus of entrepreneurship promotion, corporate innovation strategy and impact investing. At present, Bakang leads the South African office of Plug and Play, a Silicon Valley headquartered company specialising in Corporate Innovation and Venture Capital.



## Dr. Dominic Menjo

Food Security Advisor

Office of the President, Kenya

Dominic is a food security advisor at the Office of the President (Presidential economic transformation secretariat). He is an agricultural value chain analyst with a PhD in animal science. Before that, he was an economic advisor for food security at the office of the Deputy President and an East African Dairy Development program team leader under the Bill Gates Foundation. He is also a lecturer at JKUAT university.



## Dr. Kiplimo Araap Lagat

County Executive Committee Member  
Nandi County, Kenya

Dr. Lagat is a seasoned development economist with a wealth of experience in consulting, research, & training in both the public and private sectors. He holds a Ph.D. in Agricultural Economics & Resource Management from Moi University, as well as an MSC & BSc in Agric Economics from the same institution. Currently, he serves as the CECM for Agriculture Nandi & Chair of the Agric CECMs Caucus.



## Dr. Samuel Guto

Agronomist  
Agriculture and Rural Development Institution

A Soil Scientist by training with specialization in soil and water management for smallholder farming systems. Dr. Samuel has 25 years' experience in the agriculture sector initially as an agricultural extension officer at the grassroot level followed by coordination of various initiatives at the National level such as the development of a bill to regulate land size for agricultural production. He also has publications in refereed journals and has supervised MSc. Students in Conservation Agriculture. He is currently deployed as the National Project Coordinator for National Agricultural Rural Inclusive Growth Project (NARIGP) and the recently launched National Agricultural Value Chain Development Project (NAVCDP).



## Federico Naccarato

Head of Innovation  
World Food Programme

Federico is a manager with over a decade of professional experience in management, entrepreneurship and innovation. He joined the United Nations World Food Programme in 2016 and since then, He has been working in over 12 countries across Africa, MENA and LatAm, including three emergencies: South Sudan, DR Congo and Afghanistan. In 2021, he joined WFP Kenya as Head of the Innovation Office.



## Jamie Anderson

Senior Financial Sector Specialist  
International Finance Corporation

Jamie Anderson leads CGAP's work on rural and agricultural livelihoods, which focuses on women and the critical roles they play in food and financial systems. Before joining CGAP, Jamie worked at the UN International Fund for Agricultural Development, the University of California Small Farm Center, and on-farm in fresh-market organic vegetable production.





## Marc Garrigasait

Investments Manager  
Panda Ag Fund

Marc is an investment manager of Panda Agriculture & Water Fund, the first Spanish agricultural mutual fund, and the first European to invest in Agriculture & Water. He holds a global agribusiness & water listed companies (plantations, farms, livestock, agricultural machinery, fertilizers, probiotics & water companies). He is also an associate Lecturer in finance at Barcelona School of Management.



## Mukami Kariuki

Country Manager, Uganda  
World Bank Group

Mukami Kariuki is the Country Manager for Uganda. She is working closely with the Government of Uganda and other stakeholders to provide products and services that respond to Uganda's development challenges and contribute to achieving sustainable economic growth and poverty reduction. Ms. Kariuki has served in several positions at the World Bank including Country Manager for Zimbabwe and Global Lead for Urban Development and Poverty among others.



## Natalia Olson-Urtecho

Director of Government Partnerships & Institutions  
Plug and Play Tech Center

Natalia is a serial entrepreneur with more than 20 years of experience working in the U.S., Latin America, Europe and Asia. She is the Government & Institutions Director at Plug and Play. She was President Obama's Presidential Appointee from 2010-2017, overseeing 180 offices & \$34 billion, appointed to the U.S. Innovation Advisory Board to advise Congress & the White House on competitiveness and innovation.



## Parmesh Shah

Global Lead, Data and Digital Agriculture  
World Bank Group

Parmesh Shah is the Global Lead for Data Driven Digital Agriculture at the World Bank. He provides leadership and supports the development of global knowledge and learning in these areas to offer solutions to clients and other development partners. His current areas of interest are social entrepreneurship, digital and data-based innovations in agriculture and rural development.



## Priscilla Muiruri

Senior Advisor  
Cabinet Secretary's Office, Kenya

Mrs. Priscilla Wambui Muiruri is the Coordinator for Agro-weather, Market, Climate and Advisory Services at the Kenya Climate Smart Agriculture Project in the Ministry of Agriculture and Livestock Development. She also supports the Cabinet Secretary's Office as a Technical Advisor. She is a member of the Committee on Data of the International Science Council (CODATA), Agriculture Data Task Group. She has played a pivotal role in the development of the Big Data System for Agriculture in Kenya and spearheaded the delivery of integrated agro-weather and market advisories to farmers using digital platforms.



## Sanghyuk Lucas Lee

Director of Agri-Tech Start-up Incubator Center  
Korea Agriculture Technology Promotion Agency (KOAT)

Lucas heads the startup acceleration program at KOAT, the main government agency for supporting agricultural ventures. Prior to this, Lucas worked on ODA collaboration projects between KOAT partner organisations such as RDA, KOICA and UN agencies.



## Stewart Collis

Senior Program Officer, Digital Solutions  
Bill & Melinda Gates Foundation

Stewart Collis is Senior Program Officer for Digital Agriculture Solutions at the Bill and Melinda Gates Foundation focusing on digital farmer services, smart farming and digital support systems for small scale crop and livestock producers in low and middle income countries.



## Stuart Tippins

Information Technology Officer (CSI - Digitalization and Informatics Division)  
Food and Agriculture Organization (FAO)

Stuart is IT professional with over 30 years of experience working in International organizations, designing and successfully delivering large-scale, complex ICT infrastructure and software development projects. Have led teams in all fields of ICT from networking, software development to IT Security. More recently focused on delivering Digital Agriculture solutions throughout Africa and Asia Pacific regions for FAO.

# Africa-Korea AgTech Innovation Summit | Agenda at a Glance

**Master of Ceremonies for the Summit: Muthoni Muta** - Information and Communication Specialist, Kenya Climate Smart Agriculture Project (KCSAP)-NPCU

Day 1: 8<sup>th</sup> February, 2023 (Wednesday)

Time	Segment	Activity/Session Name
Registration and Welcome Tea	7:15 – 8:30 am	Registration for Summit delegates
Opening Plenary Introduction to World Bank's Disruptive Agricultural Technology (DAT) work in Africa	8:45 - 9:45 am 60 minutes	<p><b>Moderator:</b> James Musinga – Senior Agriculture Economist, World Bank</p> <p>Welcome Address by Keith E. Hansen - Country Director, World Bank and Ragini Dalal - Sector Leader, World Bank and Shobha Shetty - Practice Manager, World Bank</p> <p>Objectives of the World Bank's Digital Agriculture and Disruptive Agricultural Technology (DAT) work by Parmesh Shah – Global Lead, Data and Digital Agriculture, World Bank</p> <p>Video message from the Korea World Bank Partnership Facility (KWPF) - Alexandra Pugachevsky, KWPF Program Manager</p> <p>Introduction of the Africa-Korea AgTech Innovation Challenge &amp; World Bank - One Million Farmer initiative by Vinay Vutukuru - Senior Agriculture Economist, World Bank</p> <p>County Governments experience of being part of the One Million Famer Platform in Kenya– Ken Lusaka - Governor, County of Bungoma</p> <p>Keynote by Hon. Franklin Mithika Linturi, Cabinet Secretary, Ministry of Agriculture and Livestock Development, Kenya and Chair CEC Agriculture Caucus highlighting significance of enabling policies and regulations for developing the DAT ecosystem</p>

<p>Panel Discussion</p>	<p>9:45 - 10:45 am 60 minutes</p>	<p><b>Session Title:</b> Transforming African agriculture through Disruptive Agriculture Technologies (DAT) – The role of Government</p> <p><b>Moderator and Speakers:</b></p> <p>Moderator: Beryl Agengo – Digital Agriculture Specialist, World Bank</p> <p>Speaker on Video: Dr. Jae-hoon Sung – Head of Digital Agriculture Taskforce, Rural Development Administration, South Korea</p> <p>Speaker 1: Hon. Frank Tumwebaze - Minister of Agriculture, Government of Uganda</p> <p>Speaker 2: Dr. Henry Nakelet Opolot - Project coordinator for ACDP and Assistant commissioner at Ministry of Agriculture, Animal Industry and Fisheries, Government of Uganda</p> <p>Speaker 3: Dr. Keejong Kim - Director, Korea Project on International Agriculture (KOPIA), Kenya</p> <p>Speaker 4: Stuart Tippins – Information Technology Officer, FAO</p>
<p>Networking Time</p>	<p>10:45 - 11:15 am 30 minutes</p>	<p>Tea / Coffee Break</p>

<p>Panel Discussion</p>	<p>11:15 am - 12:15 pm 60 minutes</p>	<p><b>Session Title:</b> Experiences and learnings from successful agriculture innovation ecosystems - Learnings from Korea/ France/ USA/Israel</p> <p><b>Moderator and Speakers:</b></p> <p>Moderator: John Ilukor – Agriculture Economist, World Bank</p> <p>Speaker 1: Eitan Hatzor - MASHAV Specialist, Embassy of Israel in Kenya</p> <p>Speaker 2: Natalia Olson-Urtecho - Director of Government Partnerships &amp; Institutions, Plug and Play Tech Center, USA</p> <p>Speaker 3: Sanghyuk Lucas Lee - Director of Agri-tech Start-up Incubator Center, KOAT, Korea</p> <p>Speaker 4: Vincent ABT - Agricultural and Food Counsellor for East Africa and the Indian Ocean, Embassy of France in Kenya</p>
<p>Panel Discussion</p>	<p>12:15 – 1:30 pm 75 minutes</p>	<p><b>Session Title:</b> Boosting gender equity through digital agricultural innovations</p> <p><b>Moderator and Speakers:</b></p> <p>Moderator: Jamie Anderson - Senior Financial Sector Specialist, Rural and Agricultural Livelihoods, CGAP/World Bank</p> <p>Speaker 1: Peninah Wanja – Founder &amp; MD, DigiCow – Kenya</p> <p>Speaker 2: Yeongmin You – Chief of Staff, GreenLabs – Korea</p>
<p>Networking Time</p>	<p>1:30 – 2:30 pm 60 minutes</p>	<p>Lunch Break</p>



Fireside Chat	2:30 - 3:00 pm 30 minutes	<p><b>Session Title:</b> Fireside Chat with successful companies employing disruptive innovation in alternative energy for agriculture</p> <p><b>Moderator and Speakers:</b></p> <p>Moderator: Juvenal Muhumuza - Commissioner Development Assistance, Ministry of Finance Planning and Economic Development, Uganda</p> <p>Speaker 1: Denis Karema - CEO, Soko Fresh Kenya</p> <p>Speaker 2: Douglas Baguma - CEO, Innovex Uganda</p> <p>Speaker 3: Francis Nderitu - CEO, RainoTech4Impact, Kenya</p>
TED Talk	3:00 - 3:10 pm 10 minutes	<p><b>Session Title:</b> Improving agricultural productivity and efficiency - Why it matters</p> <p><b>Speaker:</b> Brenda Gunde - Global Senior Technical Specialist ICT4D, IFAD</p>
Pitching Session for Challenge Area 1	3:10 - 4:45 pm 95 minutes	<p><b>Session Title:</b> Pitches by Finalists in thematic area - Improving Agricultural Productivity and Efficiency</p> <p><b>Finalists:</b></p> <ol style="list-style-type: none"> <li>1. Agribusiness Solutions Ltd</li> <li>2. AgroCares</li> <li>3. DK Ecofarm Co. Ltd</li> <li>4. Akorion Company LTD (EzyAgric)</li> <li>5. PlantVillage</li> <li>6. Satyukt Analytics Private Limited</li> <li>7. Sherpa Space</li> <li>8. Sunculture</li> </ol>
Day's Round up	4:45 - 5:00 pm 15 minutes	<p>Summary of the day and closing remarks</p> <p><b>Speaker</b> - John Nginyangi - National Project Coordinator, Kenya Climate Smart Agriculture Project (KCSAP)</p>
Networking Time	6:00 – 8:00 pm 120 minutes	Cocktail reception

## Day 2: 9<sup>th</sup> February, 2023 (Thursday)

Time	Segment	Activity/Session Name
Registration	7:15 – 8:30 am	Registration for Summit delegates
Plenary	8:30 – 8:45 am 15 minutes	Welcome Address by Vinay Vutukuru - Senior Agriculture Economist, World Bank
TED Talk	8:45 – 8:55 am 10 minutes	<b>Session Title:</b> Improving market access and providing downstream and upstream linkages - Why it matters  <b>Speaker:</b> John Nginyangi - National Project Coordinator, Kenya Climate Smart Agriculture Project (KCSAP)
Pitching Session for Challenge Area 2	8:55 - 10:15 am 80 minutes	<b>Session Title:</b> Pitches by finalists in thematic area - Improving market access and providing downstream and upstream linkages  <b>Finalists:</b> <ol style="list-style-type: none"> <li>1. eProd Solutions Ltd</li> <li>2. Inputi Limited</li> <li>3. Kuza Biashara Limited</li> <li>4. SourceTrace Systems India Private Limited</li> <li>5. ThriveAgric</li> <li>6. USOMI Limited</li> </ol>
Networking Time	10:15 - 10:30 am 15 minutes	Tea/Coffee Break
TED Talk	10:30 – 10:40 am 10 minutes	<b>Session Title:</b> Financial inclusion of farmers - Why it matters  <b>Speaker:</b> Peter Muthii - Senior Manager, Expansion Operation and Government Relations, Apollo Agriculture

<p>Pitching Session for Challenge Area 3</p> 	<p>10:40 am - 12:15 pm</p> <p>95 minutes</p>	<p><b>Session Title:</b> Pitches by Finalists in thematic area - Financial inclusion of farmers</p> <p><b>Finalists:</b></p> <ol style="list-style-type: none"> <li>1. agriBORA Kenya Ltd</li> <li>2. AgroCenta Limited</li> <li>3. Amtech Technologies Limited</li> <li>4. Farmer Connect SA</li> <li>5. Farmerline Limited</li> <li>6. M-Cash Uganda Limited</li> <li>7. Mezzanineware Limited</li> </ol>
<p>Panel Discussion</p>	<p>12:15 – 1:15 pm</p> <p>60 minutes</p>	<p><b>Session Title:</b> Drivers for Investments in global &amp; African DAT Ecosystem – trends &amp; opportunities in the DAT investment landscape</p> <p><b>Moderator and Speakers:</b></p> <p>Moderator - Natalia Olson-Urtecho - Director of Government Partnerships and Institutions, Plug and Play Tech Center, USA</p> <p>Speaker 1: Bakang Moetse - Corporate Partnerships Manager – Africa, Plug and Play Tech Center</p> <p>Speaker 2: Lucie Pluschke– East Africa Hub Manager for Water and Energy for Food (WE4F), GIZ</p> <p>Speaker 3: Martin Karanja – Director, GSMA Innovation Fund &amp; Ecosystem Accelerator</p> <p>Speaker 4: Patrick Sampao – Chief Product Officer, Shamba Pride</p> <p>Speaker 5: Teymour Dajani - Associate Investment Officer - Disruptive Technologies &amp; Venture Capital, IFC</p>
<p>Networking Time</p>	<p>1:15 – 2:15 pm</p> <p>60 minutes</p>	<p>Lunch Break</p>

Fireside Chat	2:15 – 2:45 pm 30 minutes	<p><b>Session Title:</b> Fireside Chat with successful companies employing disruptive innovation in livestock</p> <p><b>Moderator and Speakers:</b></p> <p>Moderator: Karnika Yadav – Partner &amp; Director – Intellectap Africa</p> <p>Speaker 1: Peninah Wanja - Founder &amp; MD, DigiCow</p> <p>Speaker 2; Tracy Kimathi - Founder and Director, Baridi</p> <p>Speaker 3: Yeongmin You - Chief of Staff, GreenLabs</p>
Showcase	2:45 – 3:00 pm 15 minutes	<p><b>Session Title:</b> One Million Farmer Initiative</p> <p><b>Speaker:</b> Beryl Agengo - Digital Agriculture Specialist, World Bank</p>
Networking Time	3:00 - 3:30 pm 30 minutes	Tea/Coffee Break
Announcement of Innovation Challenge Winners	3:30 - 4:00 pm 30 minutes	<p><b>Session Title:</b> Africa-Korea AgTech Innovation challenge 2022 Winner announcement</p> <p><b>Speaker:</b> Parmesh Shah – Global Lead, Data and Digital Agriculture, World Bank</p>
Closing Remarks	4:00 – 4:15 p.m. 15 minutes	<p>Closing remarks and vote of thanks</p> <p><b>Speaker:</b> Phillip Kello Harsama - Principal Secretary, Ministry of Agriculture and Livestock Development, Government of Kenya</p>

# About the Partners

## About the World Bank Group



The World Bank works with low and middle-income countries and partners to provide innovation and resources so that the food system lifts people out of poverty, produces safe and nutritious food for all, and is more sustainable and resilient in the face of resource constraints and climate change.

Learn more: [www.worldbank.org/agriculture](http://www.worldbank.org/agriculture)

## About the Korea-World Bank Partnership Facility



The Korea-World Bank Group Partnership Facility (KWPF), established in May 2013, is an initiative to strengthen ties between the Republic of Korea's Ministry of Economy and Finance (MoEF) and the World Bank Group (WBG). The facility's overall objective is to assist developing member countries of the WBG in achieving inclusive and sustainable economic growth and to foster broader dialogue on economic development issues. The facility supports a

broad range of economic development opportunities with a focus on promoting best practices by leveraging the WBG's knowledge and convening power and Korea's expertise. The Government of Korea provided US \$90 million from FY14 to FY16 and a replenishment of US \$90 million from FY17 to FY19 through this facility.

Learn more: <http://www.worldbank.org/en/programs/korea-world-bank-group-partnership-facility>

## About the Korea Green Growth



The Korea Green Growth Trust Fund (KGGTF) is a partnership between the World Bank Group (WBG) and the Republic of Korea. As a technology-driven and implementation-focused trust fund, the partnership supports countries in their innovative and sustainable growth strategies and investments. In response to COVID-19 and the economic crisis, KGGTF is fully committed to greening the post-COVID recovery and supporting multi-sectoral initiatives for Green, Inclusive, and Resilient Development (GRID).

Learn more: <http://www.worldbank.org/en/programs/korea-world-bank-group-partnership-facility>

## About Plug and Play Tech Center





## PLUGANDPLAY

Plug and Play is the leading innovation platform, connecting startups, corporations, venture capital firms, universities, and government agencies. Headquartered in Silicon Valley, we're present in 50+ locations across 5 continents. We offer corporate innovation programs and help our corporate partners in every stage of their innovation journey, from education to execution.

We also organize startup acceleration programs and have built an in-house VC to drive innovation across multiple industries where we've invested in hundreds of successful companies including Dropbox, Guardant Health, Honey, Lending Club, N26, PayPal, and Rappi.

**For more information, visit <https://www.plugandplaytechcenter.com/>**

# Notes

Handwriting practice lines consisting of a solid top line, a dashed middle line, and a solid bottom line. The page contains 12 sets of these lines, with a large, faint, stylized plant graphic in the background.

