



21st RUFORUM Annual General Meeting

CONCEPT NOTE FORUM I

RESILIENT AGRIFOOD SYSTEMS TRANSFORMATION

Date: Face to face: 3rd December 2025 Time: 08.30-14.30 SAT
Online: 17th to 22nd November 2025 : Online

Venue: GICC, Tsodilo, Gaborone; Botswana

Registration link for blended session: <https://bit.ly/3JDLuha>

Registration link for online session: <https://bit.ly/4oUuDWG>

Contact: Prof Majaliwa Mwanjalolo (m.majaliwa@ruforum.org)

BACKGROUND

Development stakeholders have increased their efforts and investments in food system transformation since the 2021 UN meeting on food systems, recognising their critical role in fulfilling the 2030 Agenda.

Many externalities exacerbate existing weaknesses in Africa's agrifood systems particularly in rural and marginalized communities (FAO, 2023; IPCC, 2022). Rising temperatures, erratic rainfall, prolonged droughts, and flooding reduce crop yields and livestock productivity, undermining food supply chains and local markets (AGRA, 2022). These disruptions have intensified food and nutrition insecurity and increased living costs for millions of African households, with women and youth in the informal agriculture sector particularly affected (UN Women, 2021).

To address these challenges, this forum focuses on building system-wide resilience through inclusive policies, climate-smart technologies, and institutional innovations. Integrated approaches are emphasized to protect agricultural productivity, promote income diversification, strengthen early warning systems, and ensure social safety nets for vulnerable populations (World Bank, 2021). Gender- and youth-responsive programming is crucial, as these groups are disproportionately impacted by shocks and are key agents of transformation in agri-food systems (CTA, 2019). By embedding resilience into agricultural development planning, countries can transition from reactive crisis responses to adaptive, anticipatory, and inclusive food systems transformation. Africa's agricultural sector is vital for economic growth, food security, and poverty alleviation, especially with Africa's population projected to reach approximately 2.5 billion by 2050, leading to a dramatic increase in food and feed demand (United Nations, 2022).

This forum brings together diverse stakeholders; including researchers, industry representatives, government officials, and NGOs; to tackle these pressing challenges and explore innovative solutions for enhancing productivity in food and feed production across Africa. Key areas of focus will include sustainable agricultural practices that improve crop yields while preserving natural resources and promoting biodiversity. Technological innovations, particularly in biotechnology, precision agriculture, and digital agriculture, will also be highlighted as



means to enhance productivity. Furthermore, the role of government policies in supporting agricultural development and creating an enabling investment environment will be critically assessed, along with the importance of improving market access for farmers and enhancing the efficiency of food and feed value chains. Advances in science, practice and policy will address the underlisted areas:

1. **Securing yields under climate change:** Climate-smart agricultural practices that enhance productivity, enhance soils and nutrient management; improve water for production use; deploy novel and emerging strategies to manage new and resurgent biotic stresses; highly productive, and resilient plant and animal breeds and species.
2. **Sustainable blue economy:** Sustainable aquaculture and marine management practices that enhance the environmental integrity of marine and freshwater ecosystems while simultaneously addressing food, nutrition, and income security in a land-efficient manner
3. **Bioeconomy:** Circular bioeconomy in agriculture underpinned by sustainable and efficient management of renewable biological resources from agriculture, fisheries, and forestry that converts byproducts and waste into valuable bio-based products that deliver a closed-loop and low-carbon systems.
4. **Early warning systems and risk management:** Community-based early warning systems, anticipatory action plans, and financial risk tools (e.g., weather-index insurance) to protect livelihoods.
5. **Inclusion and diversity in agri-food systems transformation:** Gender- and youth-responsive approaches to climate adaptation, food systems transitions that leave no one behind by enhancing production and access to food, food waste reduction and healthy diet promotion; resource governance.

OBJECTIVES

This forum will serve as a platform to discuss the critical topic of achieving savings of up to US 17 billion by 2040 through the widespread implementation of resilient agriculture. It examines the connection between resilient agricultural production systems and transitions to green energy. This session will facilitate connections among researchers, professionals, and practitioners to foster new collaborations. The forum will facilitate thorough discussions on policy implications, societal impacts, and ethical considerations arising from research, while also examining strategies for translating scientific findings into actionable policies for developmental impact.

APPROACH

The Forum will have a key note paper that will subsequently be discussed by selected research leaders. A facilitated panel discussion will be help to engage the wider audience and draw lessons from them, generating the forum message.

EXPECTED OUTCOMES

- Enhance knowledge sharing in resilient agri-food systems, fostering innovative solutions to tackle climate and economic challenges while promoting sustainable practices.
- Strengthen partnerships among researchers, policymakers, industry leaders, and farmers to encourage collaborative efforts in addressing vulnerabilities within agri-food systems.
- Inspire participants to engage in ongoing research, explore new avenues of study, and contribute to advancements that bolster resilience in agri-food systems.
- Support the formulation of policies that translate research insights into actionable practices, enhancing societal and environmental benefits in the face of shocks.



- Highlight the critical role of sustainability in food and feed production, ensuring long-term resilience against climate change and economic disruptions through collaborative initiatives.

PARTICIPANTS

Participants will include researchers, scientists, academics, development partners, policy makers and Government Officials, industry representatives, Non-Profit Organizations, professionals, and graduate students.

ORGANIZERS

The event is organized by RUFORUM, with support from the Government of Botswana and RUFORUM member universities in Botswana.

PROGRAMME FOR FACE TO FACE IN GABORONE

TUESDAY 3 rd December, 2025		
Venue: Tsodilo, Gaborone		
Registration Link: https://bit.ly/3JDLuha		
Session Chair: Professor Samodimo Ngako		
Rapporteurs: Waswa Moses, Emmanuel Okalany and Selma Ndapewa Nghituwamhata		
Time	Welcome Remarks from the Chair	
08:00-08:20	Arrival and registration	RUFORUM
08:20-08:25	Welcome Remarks from the Chair	
08:25-08:40	Lead paper 1: Reshaping Africa’s food and nutrition narrative: What are the priorities and what can we learn from other regions.	Prof. Lise Korsten, African Academy of Sciences/University of Pretoria, South Africa
08:40-08:55	Lead Paper 2: Securing Africa’s agriculture against invasive and endemic biological threats.	Dr. Morris Akiri, Senior Regional Director for Africa, CABI
Lead Discussants		
08:55-09:05	Securing yields under climate change: The role of climate-smart agricultural practices, novel technical and social innovations.	Dr. Chikoye David, IITA, Southern Africa
09:05-09:15	Sustainable blue economy: Sustainable aquaculture and marine management for environmental integrity, food, nutrition, and income security in a land-efficient manner	Prof Emmanuel Kaunda, LUANAR, Malawi
09:15-09:25	Bioeconomy: Circular bioeconomy in agriculture deliver a closed-loops and low-carbon systems.	Dr. Julius Echuru, ICIPE, Kenya
09:25-09:35	Inclusion and diversity: Practices that enhance production and access to food, reduce food waste and promote healthy diets and resource governance.	Dr. Michèle Mbo’o Tchouawou, AWARD-CGIAR, Kenya
09:35-09:50	Plenary discussions	



PROGRAMME FOR ONLINE PRESENTATION

Monday 17th to Friday 21st November 2025 from 8:30 to 17:00

Opening session for scientific Conference on 17th November 2025

Time (EAT)	Session	Responsible / Speaker
09:00 - 09:10	Opening and Welcome Remarks	Dr Florence Nakayiwa , Deputy Executive Secretary, RUFORUM
09:10 - 09:20	Remarks by the Dean, Botswana University of Agriculture and Natural Resources (BUAN)	Prof. Justin H Chepete Dean, BUAN
09:20 - 09:35	Key Speech - <i>Transforming African Higher Education through Collaborative Leadership</i>	Prof Mathias Fonteh ; Chair, RUFORUM Committee of Deans and Principals
09:35 - 10:00	Remarks by the Executive Secretary of RUFORUM	Prof. Patrick Okori , Executive Secretary, RUFORUM
10:00 - 10:30	Keynote Address - <i>Innovating for Africa's Agricultural Transformation: The Role of Universities</i>	Dr Tilahun Amede , Director; Climate Change, Sustainable productivity and Resilience at AGRA (Alliance for Green Revolution in Africa)
10:30 - 10:45	Health / Tea Break	
10:45 - 12:00	Panel Discussion: <i>Fostering Academic Excellence and Resource Mobilisation in African Universities</i>	Dr. Patrick Byakagaba: Panel Chair
	<ul style="list-style-type: none"> Panelists: Prof Rashid Serad (UM6P); Prof Bruce Sinsin (UAC); Robert Zougmore, Director, Alliance of Bioversity International and CIAT, Prof Luisa Santos (UEM, Mozambique and ACSS); Prof Emmanuel Kaunda (LUANAR); Prof Frans Swanepoel (University of Pretoria) 	
	<ul style="list-style-type: none"> Discussion guided by a Moderator 	
12:00 - 12:15	Synthesis of Key Messages and Way Forward	Majaliwa Mwanjalolo , Manager RID
12:15 - 12:30	Opening of the ONLINE Scientific Conference of RUFORUM	RUFORUM Secretariat



Building Resilient and Inclusive Agri-Food Systems in the Face of Climate and Economic Shocks

Registration Link: <https://bit.ly/4oUuDWG>

ONLINE DAY ONE : Monday, 17th November 2025

Session Chair: Prof Flora Josiane Chadare

Rapporteurs: Dr Hellen Gitonga, Dr Valence Mutwedu

Time		
12:30-13:45	Lunch Break	
13:45-13:50	Welcome Remarks from the Chair: Prof Flora Josiane Chadare	
	Topic	Presenter
13:50-14:05	Does trust in extension systems influence adoption of conservation agriculture in Southern Africa: Insights from lab in the field experiments	Mark Manyanga
14:05-14:20	Use of climate information services for early farm activities: evidence from smallholder vegetable farmers in Leribe District, Lesotho	Mojaki R. A
14:20-14:35	UTAUT2 estimation of the determinants influencing uptake and sustained use of ofsp value addition technologies in Teso Sub Region, North Eastern Uganda.	Ocilaje Otai Michael
14:35-14:50	Double-hurdle model estimation of uptake and intensity of use OFSP chipper processing technologies in Kumi and Serere, North Eastern Uganda	Ocilaje Otai Michael
14:50-15:05	Smart farming adoption among small scale farmers	Sanderson Abel
15:05-15:20	The impact of institutional factors on the adoption of climate-smart innovations by smallholder farmers in the Okavango Delta, Botswana	Tlhomamo Nthaba
15:20-15:35	Harnessing Intellectual Property to Protect and Promote Indigenous Knowledge Systems in Agriculture	Vincent Phemelo Rapoo
15:35-15:50	Effects of affordable inputs program on food poverty alleviation among smallholder farmers in Malawi	Rebecca Nkhoma
15:50-16:05	The Role of Women and Youth in Advancing Agroecology in Bungoma County	Cynthia Awuor Nyamuok
16:05-16:20	Health Break	
16:20-16:35	Beyond Yield: Evaluating White Maize Hybrids for Milling Quality and Nutritional Status in Zimbabwe's Small-Holder Farming Systems. A Review	Rachel Magaya
16:35-16:50	Enhancing Food Security and Climate Resilience through Bean-Based Climate-Smart Agriculture in Nakuru County, Kenya	Anne Gichangi
16:50: 17:00	Closing Remaks from the Chair and RUFORUM Representative.	



ONLINE DAY TWO : Tuesday, 18 th November 2025		
Session Chair: Dr Alice Mweetwa		
Rapporteurs: Dr Sarah Akello, Dr Geoffrey Gabiri		
08:00-08:05	Welcome Remarks from the Chair: Dr Alice Mweetwa	
08:05-08:20	Enhancing Resilience of Agrifood Systems in Africa	Keynoyte Speaker : Prof Bruce Sinsin
08:05-08:20	Harnessing Amaranthus for Climate-Resilient Agrifood Systems in southern Africa: Lessons from Physiology to Nutrition	PF Mhlanga
08:20-08:35	The effect of climate smart agricultural practices on household food security among smallholder farming households in Lesotho	Nthabeleng Nkoko
08:35-08:50	Exploring the significance of camels in enhancing food security and adaptability in a changing climate: A review	Ayana Angassa Abdeta
08:50-09:05	Where is the missing food? Characterizing food loss and waste along the urban, peri-urban, and rural settlement continuum: Implications for accelerated food system transformation in Zambia	Blessing Masamha
09:05-09:20	Benchmarking improved food security, rural incomes and agricultural development among countries: Kenya's lessons from other East African Countries	Francis Mwaura
09:20-09:35	Factors Associated with Food Stress and Nutritional Deficiencies in Resettled Women and Children after Cyclones	Francisco. C
09:35-09:50	Climate Change, Gender and Food Security in Malawi: A Cge Approach	Julius Mukarati
09:50-10:05	Harnessing traditional processing, storage and preparation of lake flies (Chaoborus and Chironomus sp) to strengthen inclusive food security and resilience in Lake Victoria region in Kenya	Mathews Laston Kambani
10:05-10:20	Agroforestry and Household Food Security: Evidence from Tephrosia improved fallow adoption at Chulu and Kaluluma Extension Planning Areas in Malawi	Maureen Phiri
10:20-10:35	Empowering youth through climate-smart vegetable production: enhancing food security and livelihoods in Gulu, Uganda	Ojuka Ambrose Abraham
10:35-10:50	Reconfiguring Food Systems and Primitive Capital Accumulation under Neoliberalism in Africa	Toendepi Shonhe
10:50-11:05	Physicochemical, nutritional and sensory characterisation of seven promising accessions of aromatic rice resilient to climate shocks in Benin	Valere Dansou



11:05-11:20	Wonder multistorey gardens: strengthening urban food systems and advancing nutrition security in Nairobi, Kenya	Andrew Abiya
11:30-11:40	Health Break	
11:40-11:55	School-based nutrition and local food systems: Addressing malnourishment and protein deficiencies in rural Guatemala	Robert H. Stirling
11:55-12:10	Translating science to solve real-life farming community challenges: Implications for woody plant encroachment in southern Africa	Tlou Julius Tjelele
12:10-12:25	Coastal Preferences for Mangrove Forest Utilization in Ambanja District, Madagascar	Clifford William Fety
12:25-12:40	Seedling survival and plantation success in the drylands of Northern Ethiopia	Daniel Hagos Berhe
12:40-12:55	Enhancing forage production and mitigating greenhouse gas emissions through bioslurry fertilization	Akiber Chufu Wachemo
12:55-13:10	Influence of Holistic Planned Grazing on Greenhouse Gas Emission and Soil Properties in Mgeno Ranch, Kenya	Diramu Guyo Jattani
13:10-13:25	Modifying aspects of ruminal fermentation to mitigate enteric methane generation in goats through the use of saponin- and tannin- rich plant sources - A meta-analysis	Emmanuel Malematja
13:25-13:55	Health Break	
13:55-14:10	Effect of biochar, canola oil and garlic on in-vitro digestibility, volatile fatty acids and total gas production in selected dairy cattle feeds	Rachel Mutore
14:10-14:25	Phytochemical profiling, antioxidant, and androgenic effects of multi-solvent extracts of Ziziphus mucronata on mouse testicular TM3 Leydig cells	Nelisiwe Prenate Masuku
14:25-14:40	Establishment of a biobank for advancing livestock production in Botswana	Abdelkareem A. Ahmed
14:40-14:55	Sero-epidemiology and Risk factors of Foot and Mouth Disease (FMD) in the Eastern regions of DR Congo	Bantuzeko Kwankanaba Fabrice
14:55-15:10	Inclusion effects of graded levels of Amaranthus Cruentus forage on zootechnical parameters of broiler chickens	Chipo J. Mugova
15:10-15:25	Oxtoxins in Swine Feed and Their implications for Health and Production Systems in Southern Africa: A Review	Cyriaque Mfashwanayo
15:25-15:40	New approaches in the development of diluents for gamete preservation in African cattle breeds	Eddington Gororo
15:40-15:55	Azolla spp and Hermetia illucens meals as main protein sources for rabbit nutrition: impact on feed quality, growth performance and meat quality	Eyitayo A. Ogbon



15:55-15:10	Artificial Intelligence for Farm-Level Decision Support: A Synthesis of Emerging Innovations, Challenges, and Policy Imperatives in Kenya	Brigid K. Gesami
15:10-16:25	Sustainable Fish Farming Through old Jerrycan Pond Innovation: A Youth-Led Model for fish farming in Uganda	Ojuka Ambrose Abraham
16:25-16:40	Vulnerability of small-scale fishers' livelihoods to climate change in Binga, Zimbabwe	Tendai Maparara
16:40-16:55	Rainwater harvesting simulation models and their implications for GW resources in Africa: A systematic review	Thomas Sahinkuye
16:55: 17:00	Closing Remarks from the Chair and RUFORUM Representative.	



ONLINE DAY THREE : Wednesday 19th November 2025		
Session Chair: Prof Chinenye Anyadike		
Rapporteurs: Dr Judith Leo, Dr Catherine Mulinde		
08:00-08:05	Welcome Remarks from the Chair: Prof Chinenye Anyadike	
08:05-08:20	Leveraging Indigenous Brose Species for Climate-Resilient Goat Production: Rumen Microbial Responses to Seasonal Variations	France Phiri
08:20-08:35	Bush-Encroachment Plants as Feed and Their Effect on Meat Quality Parameters	Janse van Rensburg
08:35-08:50	A Review of The Fodder Production Situation in Botswana	Keletso Mopipi
08:50-09:05	Ivermectin Use in Livestock: Environmental Persistence, Impacts on Dung Beetles and Ecosystem Services, and Pathways Toward Sustainable Alternatives.	Mactildah Kadivirire
09:05-09:20	Characterization and evaluation of cicadas (<i>Platypleura haglundii</i>) as a feed protein source for commercial broiler chicken production under small scale production	Makaza H. E
09:20-09:35	Genome-wide association study of seropositivity to <i>Babesia bigemina</i> , <i>Babesia bovis</i> and <i>Ehrlichia ruminantium</i> in cattle	Malatji Dikeledi
09:35-09:50	Morphometric traits and structural indices of the small east african zebu and its crosses with tyrolean grey cattle under on-station conditions in aswa ranch and lusenke stock farm of Uganda	Mary Goretta Acila
09:50-10:05	Nixtamalization of White and Yellow Maize: Effects on Nutrition and Acceptability of Traditional Staples	Alba du Toit
10:05-10:20	Evaluating the antifungal efficacy of the resurrection bush (<i>Myrothamnus flabellifolius</i>) as a sustainable control method for tomato (<i>Solanum lycopersicum</i>) soft rot (<i>Rhizopus stolonifer</i>) to reduce postharvest losses and improve marketability of tomatoes in Zimbabwe smallholder farming systems	Velelia Nyanzira
10:20-10:35	Knowledge, attitude and practice regarding antibiotic use and residues among smallholder dairy producers in mbala and kasama, Zambia	Goliath Eneya Zulu
10:35-10:50	Plant Microbiomes as Unexplored African Heritages: Endophytic Bacteria from <i>Brachiaria</i> Grass as Tools for Climate-Resilient Agriculture	Goshu Misganaw
10:50-11:05	Morphological to molecular responses of potato to heat and drought stress: recent insights and developments	Hanyeleni Maluleke Mary



11:05-11:20	Assessment of small stock management practices and farmers' willingness to adopt new feed innovations	Nonofo Gotcha
11:20-11:40	Coffee Break	
11:40-11:55	Safflower (<i>Carthamus tinctorius</i>) Seeds as a Natural Feed Additive for Improving Poultry Semen Quality and Reproductive Performance: A Review and Future Research Directions	Onalenna Kereilwe
11:55-12:10	Bovine cysticercosis in Botswana: A call for a One Health Approach	Pfukenyi DM
12:10-12:25	Building Veterinary Capacity in Botswana: A proposal to establish a school of Veterinary Medicine in Botswana.	Solomon S Ramabu
12:25-12:40	Analysis of the Effects of Rainfall Variability on Natural Forage Resources and the Corresponding Livestock Production: Climate Variability and Livestock Dynamics in Botswana	Thabo S. Nketsang
12:40-12:55	Effect of feed form on performance and blood profiles of Ross 308 broiler chickens fed algae-based diets	Tlou Grace Manyelo
12:55-13:10	The influence of nutrient addition under different moisture levels on vegetation dynamics in a mesic grassland, South Africa	Yonela Maziko
13:10-13:25	Key trade barriers impeding market access for horticultural smallholders in Tanzania and Mozambique	Kayombo Aneth
13:25-13:55	Lunch Break	
13:55-14:10	Antibiotic residues in animal food matrices in Southern Africa development community: A systematic review (1976-2025).	Goliath Eneya Zulu
14:10-14:25	Lessons from Guinea Fowl Farming and Hidden Antimicrobial Risks in the Era of Climate Change	Nyararai Yvonne Olga
14:25-14:40	Assessment of antimicrobial resistance of <i>Escherichia coli</i> , <i>Salmonella</i> spp, and <i>Enterobacter</i> spp from chicken meat in Mzimba for public food safety	Abel Chipembo
14:40-14:55	Anthrax Resistance in Farmer Preferred Common Bean Market Classes in Uganda	Alipa Jorem
14:55-15:10	Antibiotic residues in raw cow milk collected from smallholder dairy producers in Kasama and Mbala, Zambia	Goliath Eneya Zulu
15:10-15:25	Coffee Break	
15:25-15:40	Impact of fermentation and extrusion on textural properties and water activity of pigeon pea (<i>Cajanus cajan</i> L.) products	Tamara Tumasile Chirambo



15:40-15:55	Industrial hemp as sustainable crop and a carbon sequestrater in the changing climate: A review	Mhlahlayazi Thembehle
15:55-16:10	The carbon footprint of the tea agrifood system in the context of SDG 13 (Climate action)	Mkumbukiy., A
16:10-16:25	Variability of soil organic carbon stocks across land cover types in Ilakala village, Tanzania	Pius Lugonja
16:25-16:40	Gender- and Youth-Responsive Approaches to Climate Adaptation and Resource Governance	Gailyne Muthoni
16:40-16:55	Unmasking hidden threats in quinoa's resilience to ozone and drought stress	Jacques M Berner
16:55-17:00	Closing Remarks from the Chair and RUFORUM Representative.	



ONLINE DAY FOUR : Thursday, 20 th November 2025		
Session Chair: Prof Folasade Ajayi		
Rapporteurs: Prof Chabi Adéyèmi Marc Sylvestre Djagoun, Prof Zelalem Bekeko		
08:00-08:05	Welcome Remarks from the Chair: Prof Folasade Ajayi	
08:05-08:20	Strain-Specific Fitness of <i>Spodoptera frugiperda</i> on Pearl Millet to support Resistance Screening	M. N. Kuboka
08:20-08:35	Knowledge, Attitude and Practices of Maize Farmers Fall Armyworm, <i>Spodoptera frugiperda</i> , Management: Implication for Extension Practices in Botswana	Garmonyou A. Sam
08:35-08:50	Credit Constraint, Unmet Fertilizer Needs and Climate- and Pest-related Crop Losses: Evidence from Three Selected Sub-Saharan African Countries	Jacob Nunoo
08:50-09:05	Efficacy of Bitter Leaf Powder (<i>Vernonia amygdalina</i>) against Root Knot Nematodes on Tomato in Borno State, Northern Nigeria	Kumshe, I.B.
09:05-09:20	Effects of insect meal as a substitute for commercial antibiotic growth promoter on gut microflora, haematology, and performance parameters in broiler chicks at starter phase	Monnye Mabelebele
09:20-09:35	Antibiotic resistance of lactic acid bacteria isolated from a maize-based fermented beverage (Kwete) consumed by ethnic communities in Northern Uganda	Prossy Nassanga
09:35-09:50	Bio-efficacy of phytopesticidal extracts of <i>Tagetes minuta</i> L. and <i>Melia azedarach</i> L. as protectant of Maize (<i>Zea mays</i>) against fall armyworm (<i>Spodoptera frugiperda</i>)	Shomari KIETE
09:50-10:05	Assessment of infestation, damage levels and eggs parasitism of fall armyworm (<i>spodoptera frugiperda</i>) in maize Moamba (sabie)	Wigner Tima Patrício
10:05-10:20	Identifying optimal lines for enhanced symbiotic performance in a mini-core collection of cowpeas [<i>vigna unguiculata</i> (L.) Walp]	Gelase Nkurunziza
10:20-10:35	Effectiveness of Raw Diatomaceous Earth alone or/in combination with permethrin dust against <i>Rhyzopertha dominica</i> (Coleoptera: Bostrychidae) on stored wheat (<i>Triticum</i> spp)	Bukar, A
10:35-10:50	Significance of pre-anthesis drought and heat stress on seed quality in diverse sorghum genotypes	Paulington Muguti
10:50-11:05	Genetic analysis of yield and yield traits in adapted finger millet germplasm	Mapako O. S



11:05-11:20	Manipulation of spacing on sweet potato cultivar beauregard for exportable sizes in two agro-ecological zones in Ghana	Adu, E. O
11:20-11:40	Health Break	
11:40-11:55	Buhari Armiyau Khalid Effect of risk management on the performance of rice production supply chain in Kebbi state, Nigeria	
11:55-12:10	Buhari, Armiyau Khalid Risk mitigation in rice production performance in Kebbi state, Nigeria	
12:10-12:25	Chindomu, Y. A Kigelia 13fricana (lam.) Benth. Fruit powder as a sustainable natural supplement for broiler performance and health in Zimbabwe	
12:25-12:40	Clement Oteng Distributional impact of agricultural land tenure and contract systems on climate-smart agriculture intensification in Ghana	
12:40-12:55	Emmanuel Ogyiri Adu Assessing Biomass Accumulation of Three Cassava Varieties under Different Cutting Lengths and Growth Media	
12:55-13:10	Emmanuel Wilson Mhuru Diversity of Key Cannabinoids, Seed Nutritional Compounds and their Quantification methods in Cannabis	
13:10-13:25	Irya Junias Conservation Agriculture Practices for Resilient Maize Production under Soil Fertility Constraints in Kavango East, Namibia	
13:25-13:55	Health Break	
13:55-14:10	Green extraction of starch from pseudo cereals (quinoa and amaranth): A review	Jane Tafadzwa Muchekeza
14:10-14:25	Comparative antioxidant-mediated cold tolerance in safflower (Carthamus tinctorius L.) under artificial and natural cold stress conditions	Kereilwe, D.
14:25-14:40	Integrative effect of triple superphosphate, urea, and chicken manure on cabbage productivity in North-Central Namibia	Leuya H. Hamalwa
14:40-14:55	Investigating gender differences in sorghum variety selection and agricultural practices under climate change conditions in Masvingo District, Zimbabwe	Micheal Mubvuma



14:55-15:10	Evaluation of Soil Water Dynamics Using Selected Irrigation Water Management Tools under Two Irrigation Systems	Ronald Kgobe
15:10-15:25	A study on the effects of botanical rooting stimulants on the vegetative propagation of dragon fruit (<i>Hylocereous undatus</i>)	Madaure Jacqueline T
15:25-15:40	Growth Performance and Haematology of <i>Oreochromis Niloticus</i> (Linnaeus, 1758) Fed Phosphorus-Supplemented Feeds and Physiological Response of <i>Lactuca Sativa</i> (Linnaeus, 1753) in Aquaponic System	Manyor Batemanyor
15:40-15:55	Strengthening lead time flood forecasting with indigenous knowledge from smallholder farmers in Malawi's shire River Basin	Hussein Daniel
15:55-16:10	Spatial variation of climate change-induced heat stress risk for dairy cows in Botswana	Jonas Kwedibana
16:10-16:25	Assessment of physicochemical properties of soil under different flood patterns in flood recession farming in the Okavango Delta, Botswana	Modise Nthaba
16:25-16:40	Early Warning Systems and Risk Reduction Strategies	Nyasha Nyakuchena
16:40-16:55	Empowering smallholder farmers: unveiling the key drivers of climate smart agriculture adoption across Africa: a systematic review	Ramakgasha Molobe Joyce
16:55-17:00	Closing Remarks from the Chair and RUFORUM Representative.	



ONLINE DAY FIVE : Friday, 21 st November 2025		
Session Chair: Prof Moses Nyangito		
Rapporteurs: Dr Cyril Boateng, Dr Sera Gondwe		
08:00-08:05	Welcome Remarks from the Chair: Prof Moses Nyangito	
08:05-08:20	Climate-smart and inclusive strategies for enhancing sugarcane production under climate and market shocks in Uriri sub-county, Migori county	Nyakito Edward Alolo
08:20-08:35	Soil suitability assessment for sustainable upland rice productivity in western Liberia: Implications for food and nutrition security	Nyuma H. T
08:35-08:50	Breaking seed potato dormancy using Biostimulants for improved production in Uganda	Pauline Aarakit
08:50-09:05	Actor Roles in Scaling Improved Cassava Seed Varieties in Uganda	S. Kalimunjaye
09:05-09:20	Farmers' knowledge, practices and perceptions on grain postharvest management options in Botswana with special reference to the larger grain borer	Shaw Mlambo
09:20-09:35	Using the Yield-SAFE model to assess the impacts of climate change on yield of coffee (<i>Coffea arabica</i> L.) under agroforestry and monoculture systems	Tesfay Gidey Bezabeh
09:35-09:50	Effects of wheat and faba bean intercropping on yield, land-use efficiency and economic revenue in semi-arid areas	Tesfay Gidey Bezabeh
09:50-10:05	Development and Design of Suitable and Safe Starter Fertilizer Formulations for Improved Field Crop Establishment	William Makaza
10:05-10:20	From Pollution to Profit: Cost-Benefit Analysis of Circular Economy Adoption in Kenya's Agro-Processing Sector	Mogaka Hezron
10:20-10:35	Assessment of the Effect of Including Pigeon Pea (<i>Cajanus cajan</i>) on Growth Performance, Profitability and Meat Quality of <i>Oreochromis shiranus</i> (Boulenger, 1897)	Kutsanda K.
10:35-10:50	Potato Cutting Propagation for Optimum Yield and Profitability in Kabale, Uganda	M. Masiko
10:50-11:05	Enhancing smallholder resilience through climate-smart soil fertility management in Northern Nigeria	Kumshe I. B
11:05-11:20	Suitability of bio-digestate as a bio-fertiliser for agricultural applications	Baitshepi Keamogetse Gift
11:20-11:40	Health Break	



11:40-11:55	Influence of Soil Fertility Management Practices on Yield of Nutrient Dense Crops in Refugee Settlements in South-Western Uganda	Flavia Tracy Nakanwagi
11:55-12:10	Effects of Weathered Rock Powders on Soil Fertility, Growth and Biomass of Banana and Carbon Turnover Under Acidic and Alkali soil Conditions	Andrew Agrey ABIYA
12:10-12:25	High-value safflower-derived biodegradable materials for application in water purification and formulation	Baghali Guys Mathapa
12:25-12:40	Genome-wide association study of biological nitrogen fixation traits in Mini-core cowpea germplasm	Gelase Nkurunziza
12:40-12:55	Land capability assessment for sustainable land use planning to reduce land degradation in Kalehe territory (Democratic Republic of Congo)	Jean Nacishali Nteranya
12:55-13:10	Enhancing pea production through the integrated use of arbuscular mycorrhizal fungi and phosphate-solubilizing bacteria in phosphorus-deficient soil of Lenye Eastern Cape, South Africa	Mjokwe Sthombe
13:10-13:25	Growth and yield response of brassicas to sewage contaminated soils	Wendy M. Chiota
11:40-11:55	Evaluation of the cytotoxicity of green synthesized CaCO ₃ , ZnO, and Fe ₂ O ₃ nanoparticles for agricultural usage	Thobo Motlhalamme
11:55-12:10	Systematic Review on Potato Tuber Cracking and Fracture Properties	Reason R Charachimwe
12:10-12:25	Consumer demand for plant-based snacks; a driver for employment in Ghana's agri-food system: a case study of crunchy protein bar in Sekyere East district of Ghana	Maxwell Amedi
12:25-12:40	An eco-friendly biofabrication of ZnO and ZnO/β-cyclodextrin nanocomposites using "Moritela Tshwene" extract for active food packaging and agriculture	Modiri D. Setlhoka
12:40-12:55	Value addition and its effect on vibrancy of orange-fleshed sweet-potato (ofsp) value chain in Serere and Kumi districts, North Eastern Uganda	Ocilaje Otai Michael
12:55-13:10	Water Stress Effect on Chlorophyll Content at Different Rice (Oryza sativa L.) Plant Growth Stages	A. B. O. Abdelmajid
13:10-13:25	Organoleptic, physicochemical and microbiological quality of yoghurt enriched with indigenous fruits of Botswana	Ompelege Keolopile Matenanga
13:10-13:55	Lunch Break	
13:55-14:10	Optimum polyethylene glycol level suitable for inducing water stress in potato (Solanum tuberosum L.) genotypes in Kenya	Judith Oggema



14:10-14:25	Enhancing access to quality agricultural services through public financing	Kayombo Aneth
14:25-14:40	Farmer's challenges and coping strategies to effective utilization of mobile phone for agricultural marketing in Lofa county, Liberia	Kiamue, Darius A.C.
14:40-14:55	Building the Why: Our Career Insights and Community Strategy	Craig Akiri
14:55-15:10	Assessing the Economic Viability of Black Soldier Fly Production for Waste Recycling and Greenhouse Gas Reduction in Uganda.	Wambona Martin
15:10-15:15	Closing Remarks from the Chair and RUFORUM Representative.	