



Food and Agriculture
Organization of the
United Nations



Joint Actions on Operationalization of the Framework for Sustainable Agricultural Mechanization in Africa (F-SAMA)

VIRTUAL WEBINAR No. 4

Discussion Paper on Element 1 of F-SAMA: *Impact of Paradigm Shifts on the Development of Agricultural Mechanization in SSA: A Case Study of Farm Power*

Tuesday, 4th May 2021, 09:00 - 10:30 hrs (GMT)

Moderator



Mark Kofi Fynn is an Agro-Food Systems Specialist with FAO's Sub-regional Office for Southern Africa, Harare, Zimbabwe. Before joining FAO, he spent about 5 years as the Agribusiness Advisor at the African Union Commission in Addis Ababa, Ethiopia where he coordinated continental agribusiness-related interventions for the implementation of the 2014 Malabo Declaration on Accelerated Agricultural Growth and Transformation within the CAADP. Mark also worked with the German Agency for International Development in Ghana for 9 years.

Speakers



Geoffrey Mrema is a Professor of Agricultural Engineering at the Sokoine University of Agriculture in Morogoro, Tanzania. He retired from the FAO in April 2011 where he had been working as the Director of the Rural Infrastructure and Agro-industries Division at its headquarters in Rome Italy from 2001-2011 with two years [2005-06] serving as the FAO Representative in Eastern and Southern Africa based in Harare, Zimbabwe. Prior to joining FAO in 2001, he had served as the first CEO of ASARECA [1995-2001]. During 2016/18 he served as a senior adviser to FAO and AUC on developing the Framework for Sustainable Agricultural Mechanization in Africa [SAMA].



Professor Umezuruike Linus Opara is a chartered agricultural engineer, founding President of the Pan African Society for Agricultural Engineering, and Past President of the International Commission of Agricultural and Biosystems Engineering. He graduated with First Class Honours in Agricultural Engineering from the University of Nigeria, Nsukka – specialising in agricultural mechanisation, and PhD in Agricultural Engineering from Massey University in New Zealand. In 1988, he was a co-lead author of the Agricultural Mechanization Component of the Agricultural Development Plan of Nigeria (1989-2004), has consulted for the FAO of the UN as Mechanization Specialist in Iraq and Timor-Leste, respectively, and was a Visiting Postharvest Technology Specialist at the FAO in Rome. He is a Distinguished Professor at Stellenbosch University, South Africa, and was recognised in 2019 as a "Highly Cited Researcher" by the Web of

Science Group, which distinguishes the “world's most influential researchers of the past decade”. Prof Opara is a Laureate of the African Union Kwame Nkrumah Continental Award for Life and Earth Sciences – Africa’s highest research award for senior researchers, and winner of the Impact Research and Science in Africa (IMPRESSA) Award for “excellence in research & building Africa’s human resources capacity”.



Eng. Prof Lawrence Gumbe has a PhD, Ohio State University, USA, MSc, Cranfield University, UK, and a B.Sc., University of Nairobi. He has worked at the University of Nairobi, Technical University of Kenya, Kenyatta University and Log Associates. He has published widely and supervised many masters and doctoral candidates. He has written widely in the area of industrialisation and agricultural mechanisation.

He is a member of: Institution of Engineers of Kenya; Association of Consulting Engineers of Kenya; Architectural Association of Kenya; American Society of Civil Engineers; Member, American Society of Mechanical Engineers; Kenya Society of Environmental, Biological and Agricultural Engineers; American Society of Heating, Ventilating and Air-Conditioning Engineers; American Society of Agricultural and Biological Engineers; Institution of Agricultural Engineers, UK; and Kenya National Academy of Sciences.



Dr. Alioune Fall is the current Chairman of the Board of Directors of the Forum for Agricultural Research for Africa (FARA), President of the Scientific Council of CIRAD, National Coordinator of the flagship project “Development of 3 cereals - rice, millet and maize - corridors” of the Senegal emerging plan (PSE) since 2014, and President of the Senegalese Association of Agricultural Engineers (ASIA) since 2009. Dr Alioune Fall is former Director General of the Senegalese Agricultural Research Institute (ISRA), from 2013 to 2020. He served at different times as Coordinator of the ISRA post-harvest technology national research programme, Director of the Saint-Louis Agricultural Research Centre focused on rice production improvement, Chairman of the Board of Directors of CORAF and president of the Korea-Africa Food and Agriculture Cooperation Initiative (KAFACI). He holds an MSc. in Agriculture from Sam Houston State University (Texas, USA, 1983) and a PhD from Michigan State University (MSU), (East-Lansing, USA, 1997). His areas of specialization are agricultural technology and innovation management system (modelling, artificial intelligence), post-harvest technology & agricultural mechanization.



Mr. Helmut Anschuetz is working as the Team Leader of the Zambian-German Agricultural Knowledge and Training Centre (AKTC) in Zambia. At AKTC he focuses on farmer trainings on agricultural machinery, farming as a business, field demonstrations and research on mechanized conservation agriculture. He worked in the private sector as a farm manager in Kenya and Tanzania. Working for GIZ in Zimbabwe he promoted conservation agriculture as an advisor. All in all, he has over 22 years of professional experience in Eastern and Southern Africa. He studied tropical and subtropical agriculture and agricultural management in Germany and England.

Organizing Committee



Josef Kienzle is currently leading the sustainable agricultural mechanization group in the Plant Production and Protection Division of the Food and Agriculture Organization of the United Nations (FAO), based in Rome. Mr Kienzle's work emphasizes the crucial role of farm power and of innovative and efficient mechanization solutions and the importance of appropriating them to the context of smallholder farmers in developing countries. His work also highlights the important role that the public and private sectors play in mechanization input supply chains and capacity building for mechanization service providers.



Joseph Mpagalile is an Agricultural Engineer at the FAO Regional Office for Africa (RAF) in Accra. His areas of work include mechanization along the value chain including production, post-harvest handling, value addition, agro-processing and logistics. Before joining RAF, he worked as an Agro-Industry Officer at the FAO headquarters in Rome. Prior to that, he worked as an Associate Professor of Agro-food Processing Engineering and Technology Transfer Coordinator at the Sokoine University of Agriculture and as the Southern Africa Regional Representative of the US-based McKnight Foundation's Collaborative Crop Research Program.



Professor Afeikhena Jerome has over two decades' experience working on policy issues in Africa. He is currently Special Advisor to the Commissioner for Rural Economy and Agriculture, African Union Commission, Addis Ababa, Ethiopia as well as Visiting Professor of Economics at Igbinedion University, Okada, Nigeria. He has held several distinguished positions including Visiting Scholar, International Monetary Fund; Visiting Fellow, the World Bank; and Senior Associate Member, St. Anthony's College, Oxford University. He has consulted extensively for the World Bank, African Development Bank, FAO, UNIDO, Brookings Institute and ACBF.



Saidi Mkomwa is the Executive Director of the African Conservation Tillage Network (ACT). As CEO of ACT, Saidi has efficiently managed development projects supporting smallholders in Burkina Faso, Ethiopia, Kenya, Niger, Tanzania, Uganda and Zimbabwe with development partners including AGRA, CFGB, COMESA, European Union, FAO, IFAD and NORAD. Previously, Saidi worked with the Ministry of Agriculture in Tanzania as Senior Agricultural Engineering Researcher. He is the coordinator of the Africa-Mechanize Platform Secretariat supporting knowledge management, capacity building and Networking in operationalization of the Framework for Sustainable Agricultural Mechanization in Africa (F-SAMA).



Nomathemba Mhlanga-Akubia has been with FAO since 2008. She was first based in the FAO HQ in Rome, Italy and moved to the sub-regional Office for Eastern Africa (SFE) in 2016. In the sub-region, she leads the organization's normative and field programme on agribusiness/value chain development, that touches on youth in agriculture, post-harvest management, agro-processing and agricultural finance/investment. Before joining FAO, she worked as a Research Officer at ICRISAT's Socio-Economics and Policy Programme. Noma was the FAO lead technical officer for the development of the SAMA Framework



Karim Houmy is an Agricultural Engineer and works as an international consultant. He has worked for more than 30 years as a Professor in the Department of Agricultural Engineering at the Hassan II Institute of Agronomy and Veterinary Medicine, Rabat, Morocco. He has been involved in several FAO projects, particularly in formulating agricultural mechanization strategies for African countries and has participated in events related to the operationalization of the Framework for Sustainable Agricultural Mechanization in Africa (F-SAMA).

