



ReSAKSS
Regional Strategic Analysis and Knowledge Support System
by AKADEMIYA2063



SIDE EVENTS

2023 ReSAKSS CONFERENCE

African Food Systems Transformation and the Post-Malabo Agenda

November 27-29

Kigali Marriott Hotel, Kigali-Rwanda



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Side Event #1 10.00–11.30 (CAT)

“Climate Change Initiatives in Africa: Challenges and Opportunities for Implementation”

Side Event #2 12.00–13.30 (CAT)

“Harnessing Artificial Intelligence, Remote Sensing, and Data Analytics for African Food Systems Transformation”

Organizer AKADEMIYA2063 | **Room** Kilimanjaro 3

SIDE EVENT #1: Climate Change Initiatives in Africa: Challenges and Opportunities for Implementation

🔗 [Join us online](#)

Room: Kilimanjaro 3 **Time:** 10.00 – 11.30 CAT

Organized By: AKADEMIYA2063

Contact Person: Dr. Getaw Tadesse

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ABSTRACT AND OBJECTIVES

Since adopting the Paris Agreement in 2015, African leaders are enthusiastically engaging in global efforts to combat climate change and its adverse effects. Nearly all African countries have established Nationally Determined Contributions (NDCs) outlining their climate mitigation commitments, and many have developed National Adaptation Plans (NAPs) identifying their adaptation goals. In 2022, the African Union adopted a Climate Change and Resilience Development Strategy (CCDRS) and Action Plan (2022–2032). Despite the enthusiasm and ambitions reflected in many of these climate change initiatives, the extent of implementation has been hindered by several challenges ranging from weak climate governance capacity to limited financial resources to invest in proposed actions. Luckily, global opportunities and interests have grown to help countries build capacities, implement their climate ambitions and commitments, and track their progress.

AKADEMIYA2063 will host a side event during the 2023 ReSAKSS Conference that brings together a broad group of stakeholders involved and interested in implementing climate change initiatives in Africa to explore the challenges of operationalizing the different initiatives and the options for tapping into emerging opportunities; and identify policy and programmatic changes that are required for countries to accelerate the implementation of their climate change strategies and plans. More importantly, the side event aims to seek lessons from the implementation of the Comprehensive Africa Agriculture Development Programme (CAADP) and the Comprehensive Action for Climate Change Initiative (CACCI) that supports the implementation of continental and national climate change initiatives.

The event is organized by AKADEMIYA2063 as part of the Comprehensive Action for Climate Change Initiative (CACCI) project that strives to help accelerate implementation of NDCs and NAPs by meeting country needs for data and analytics as well as supporting institutional and coordination capacities. In Africa, AKADEMIYA2063 and the African Network of Agricultural Policy Research Institutes (ANAPRI) are leading efforts under CACCI in close collaboration with the African Union Commission and climate stakeholders in selected countries. The initiative is helping to inform countries' climate change planning with data and evidence and strengthening capacities for evidence-based climate policy design, implementation, and tracking.

PROGRAM

Welcome and Introduction

Moderator: Ms. Julie Collins, Senior Associate Scientist, AKADEMIYA2063

Opening Remarks (5 minutes)

- » Dr. Ousmane Badiane, Executive Chairperson, AKADEMIYA2063

Presentation "Setting the scene on climate change initiatives in Africa, objectives of the side event, and lessons from CACCI" (15 minutes)

- » Dr. Getaw Tadesse, Director, Department of Operational Support, AKADEMIYA2063

Panel Discussion (40 minutes)

- » Dr. Antony Chapoto*, ANAPRI, on "Stakeholders engagement: lessons from CACCI"
- » Dr. Greenwell Matchaya, ReSAKSS-Eastern and Southern Africa Lead, on "Mutual accountability lessons from CAADP"
- » Dr. Moumini Savadogo, Managing Director, AKADEMIYA2063, on "Climate service and innovation for guiding actions"
- » Ms. Emilie Uwase, Climate Finance Analyst, Rwanda Green Fund (FONERWA), on "Climate finance"
- » Mr. Lao Kenao, CAADP M&E Advisor, on "The role of data and analytics for program implementation lessons from CAADP"

Open Discussion (20 minutes)

Key Takeaways & Closing Remarks (5 minutes)

- » Dr. Augustin Wambo Yamdjeu, Director, Knowledge Systems, AKADEMIYA2063

SIDE EVENT #2: “Harnessing Artificial Intelligence, Remote Sensing, and Data Analytics for African Food Systems Transformation”

1 Join us online

Room: Kilimanjaro 3 **Time:** 12.00 – 13.30 CAT

Organized by: AKADEMIYA2063

Contact Person: Mr. Babacar Ceesay

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ABSTRACT AND OBJECTIVES

Agriculture serves as the backbone of many African economies, providing livelihoods for most of the population. Despite this, across the world, countries in Africa are among the most vulnerable to climate shocks. Increasingly, erratic rainfall regimes, droughts, and temperature spikes, as well as more frequent and more intense weather shocks disrupt activities in productive sectors such as agriculture, destroy assets, and upend livelihoods. In the agricultural sector, in particular, the consequences are uncertainties in planting periods and poor yield performance, among others, which in turn negatively impact communities' food security and nutrition status, in both rural and urban areas.

Achieving sustainable and resilient agricultural systems in Africa requires innovative approaches, and the utilization of cutting-edge technologies such as machine learning and earth observation has gained prominence. Machine learning techniques can analyze real-time and historical data to predict potential yield fluctuations. Earth observation technologies, encompassing satellite imagery, remote sensing, and data analytics, offer unprecedented capabilities to monitor and manage agricultural landscapes. These tools enable accurate and real-time assessments of crop health, land use, and environmental conditions, providing valuable insights for decision-makers and stakeholders.

AKADEMIYA2063 is pleased to host a side event during the 2023 ReSAKSS Conference, which will bring together a diverse array of stakeholders with a keen interest in earth observation for food crop systems production. The side-event aims to delve into the transformative potential of earth observation in food crop production systems, focusing on the specific case studies of Rwanda and Senegal. In an era where technology plays a pivotal role in agriculture, understanding the impact and application of earth observation in crop mapping is crucial for sustainable and efficient food production.

PROGRAM

Welcome and Introduction

Moderator: Mr. Babacar Ceesay, Senior Manager, Information Systems, AKADEMIYA2063

Opening Remarks (5 minutes)

» **Dr. Ousmane Badiane**, Executive Chairperson, AKADEMIYA2063

Presentations: “The use of earth observation for food crop production systems transformation – The case of crop mapping in Rwanda and Senegal” (25 minutes)

» **Dr. Jean Paul Faye**, Machine Learning Specialist, AKADEMIYA2063

Panel Discussion (40 minutes)

- » **Ms. Lilian Ndungu**, AgTech Advisor, Ministry of Agriculture and Animal Resources (MINAGRI), Rwanda
- » **Dr. Yves Hategekimana**, Head of Department, Earth Observation, Rwanda Space Agency (RSA), Rwanda (invited)
- » **Mr. Eric Nsabimana**, GIS specialist, Rwanda Agriculture and Animal Resources Development Board (RAB), Rwanda
- » **Mr. Andre Gatete**, Agro-Industry Solutions Manager, Esri Rwanda Ltd

Open Discussion (15 minutes)

Key Takeaways & Closing Remarks (5 minutes)

- » **Dr. Augustin Wambo Yamdjeu**, Director, Knowledge Systems, AKADEMIYA2063

