

Digitally Enabled Resilience and Nutrition Policy Innovations (**DERPIn**)

Harnessing Data and Evidence for Decision-making



Continental Policy Dialogue



July 23, 2025



14:30–16:30 CAT



Virtual Event

Digitally Enabled Resilience and Nutrition Policy Innovations (DERPIn)

Harnessing Data and Evidence for Decision-making



1. Background and Context

Africa's agrifood systems face increasing challenges related to climate change, market volatility, and other shocks, which are exacerbated by persistent vulnerability and malnutrition, as well as limited access to reliable, disaggregated data for informed decision-making. The Digitally Enabled Resilience and Nutrition Policy Innovations (DERPIn) project was initiated to strengthen the resilience of African agrifood systems by leveraging digital tools and data analytics to support evidence-based, inclusive, and gender-sensitive policy- and decision-making. The project aims to empower policymakers, farmers, researchers, and private sector actors with timely, actionable data and tools that can strengthen food system resilience and improve nutrition outcomes.

To achieve this, DERPIn offers a variety of data products and policy-relevant analyses, including:

- **Vulnerability assessments:** Maps and metrics of household vulnerability to economic, climatic, and social shocks
- **Satellite-based agricultural statistics:** Real-time crop type maps, production and yield forecasting, crop suitability maps, greenhouse gas emissions monitoring, tracking of crop growth and weather anomalies
- **Nutrient adequacy maps:** Estimates of household adequacy for energy, protein, and 11 micronutrients; identification of key food sources; and sensitivity of demand to changes in income and price

Outputs are designed to support agrifood system decisions and strategies by guiding resource allocation and planning, supporting market intelligence, and strengthening early warning systems and resilience-building interventions, among other applications. Findings are shared through digital platforms and policy-oriented knowledge products that are accessible to national and regional stakeholders.

With the current phase of the DERPIn project coming to a close on August 31, 2025, AKADEMIYA2063 and its project partners are organizing a virtual continental policy dialogue to share findings and lessons from the project, discuss potential implications and uses for the analysis, and reflect on potential future extensions of the project. The event will provide an opportunity for exchange between DERPIn countries and other African countries interested in exploring opportunities to meet agrifood system data and evidence needs.

2. Objectives of the Continental Policy Dialogue

The continental policy dialogue will serve as a platform to:

- Share emerging findings from DERPIn's multi-country analyses, focusing on practical implications for agriculture, nutrition, resilience, and policy development
- Demonstrate DERPIn tools and data products, including real-time satellite-derived agricultural statistics, vulnerability maps, and nutrient adequacy information
- Encourage dialogue across countries about how project outputs can address the needs of various stakeholders, including policymakers, farmers, private sector actors, researchers, civil society organizations, and development partners
- Identify the policy implications of DERPIn findings for food and nutrition security, climate adaptation, and inclusive economic growth

- Gather stakeholder feedback on possible applications of DERPin data and analytics in their specific sectors and regions
- Explore opportunities to scale and replicate DERPin approaches in other countries or subnational contexts

The event will provide an opportunity for participants to identify entry points for integrating DERPin outputs into their own work, share reflections on how DERPin can address local information gaps, contribute ideas to shape possible future extensions of the project, and foster cross-country and cross-sector collaboration on data use for agrifood system resilience.

Provisional Agenda

Time (CAT)	Agenda Item
Moderator: Mr. Bagoré Bathily , Director General, La Laiterie du Berger	
14:30 – 14:40	Welcome and Opening Remarks <ul style="list-style-type: none"> • Moderator: Mr. Bagoré Bathily, Director General, La Laiterie du Berger • Dr. Babafemi Oyewole, CEO, Pan African Farmers Organization • Mr. Michael Dürr, Component Lead, Fund for Promotion of Innovation in Agriculture (i4Ag), GIZ
14:40 – 14:50	DERPin Overview - Project background, goals, and progress to date <ul style="list-style-type: none"> • Ms. Julie Collins, Senior Associate Scientist, AKADEMIYA2063
14:50 – 15:25	Presentation of Key Findings and Tools <ul style="list-style-type: none"> • Nutrient adequacy and vulnerability: Dr. Mahamadou Tankari, Deputy Director; Head, Policy Modeling Unit, AKADEMIYA2063 • Agricultural statistics based on remote sensing data: Dr. Jean Paul Faye, Machine Learning Specialist, AKADEMIYA2063
15:25 – 15:55	Panel Discussion - Reflections from DERPin partners and stakeholders <ul style="list-style-type: none"> • Mr. Naveen Garg, Advisor, GIZ • Dr. Jonathan Serugunda, Lecturer, Department of Electrical and Computer Engineering, Makerere University • Ms. Martha Haile, Founder and CEO, Abze • Dr. Mamadou Dieng Ngom, Statistician, Directorate of Agricultural Analysis, Forecasting, and Statistics, Minister of Agriculture, Food Sovereignty and Livestock, Senegal • Ms. Peninah Jotaba, Regional Women Representative, Eastern Africa Farmers Federation
15:55 – 16:20	Open Dialogue and Q&A - Participant input and cross-country insights
16:20 – 16:30	Closing: Key messages and roadmap for continued engagement <ul style="list-style-type: none"> • Dr. Racine Ly, Director, Data Management, Digital Products and Technology, AKADEMIYA2063

DERPIn is implemented by AKADEMIYA2063 on behalf of the Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ), in collaboration with the Pan-African Farmers' Organization (PAFO) and national research partners in Benin, Ghana, Malawi, Senegal, and Uganda.

Inquiries

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