20 October 2026

Innovations Session N°28

Digitalisation & AI in Agrifood: Tools for Efficiency and Market Access



INNOVATIONS SERIES

Global Gateway

Funded by the European Union

Digitalisation and AI in African agrifood

Tools for efficiency and market access



Dr Racine Ly
National Country Representative, Senegal
Director, Data Intelligence and Governance
AKADEMIYA2063

Crop mapping reveals where supply is growing

AKADEMIYA 2063

Satellite imagery

Google maps



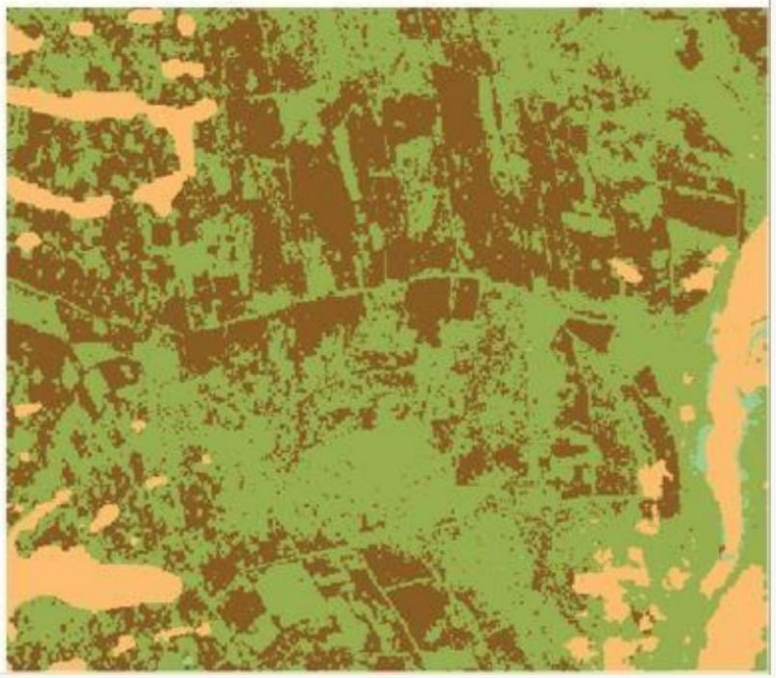
Cropland identification

Land Use
Croplands vs. noncroplands



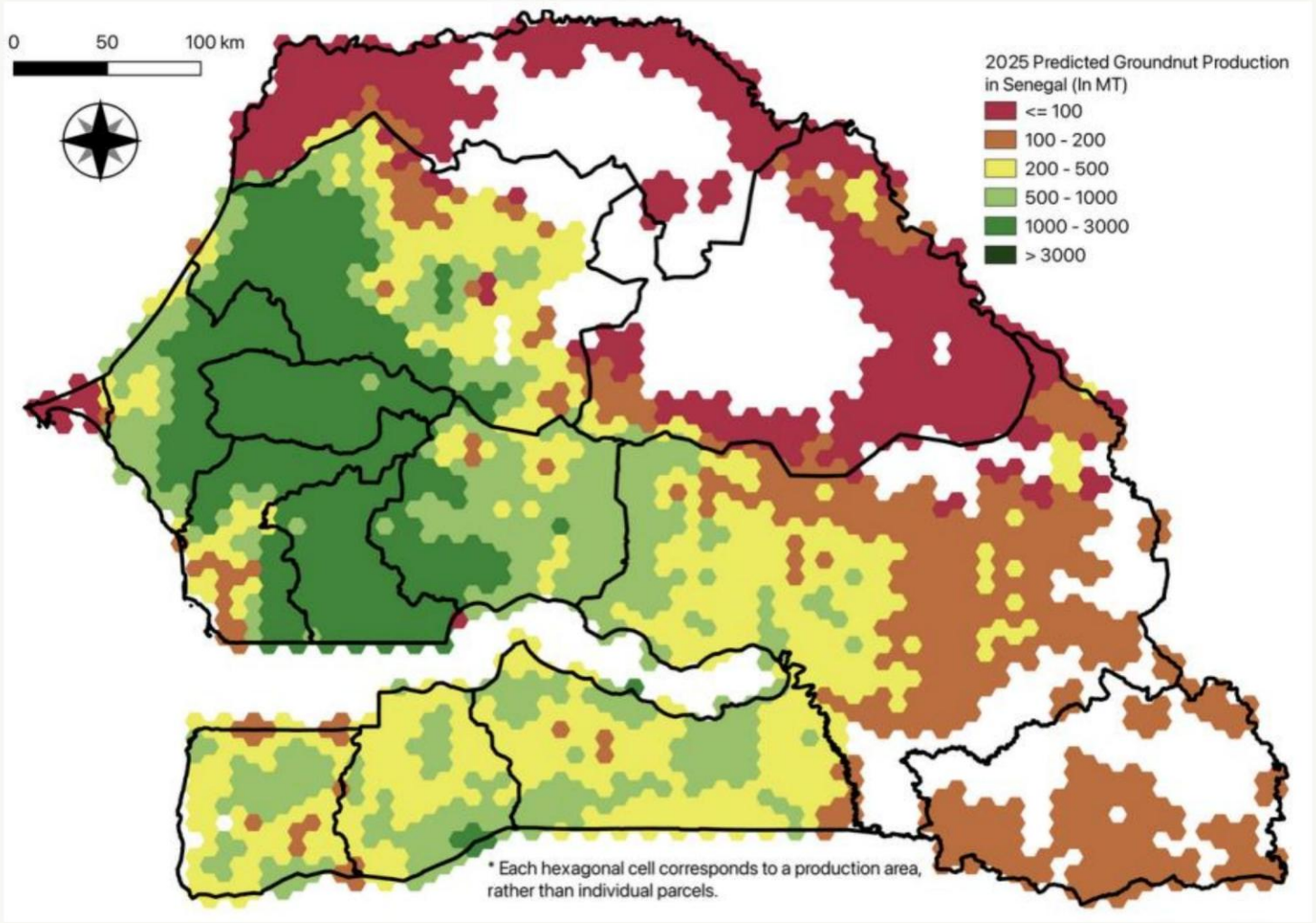
Crop classification

Maize Crop Map (brown)



Potential uses: collection planning, sourcing and targeted field support

Production forecasts create time to prepare



2025

Groundnut forecast

Plan collection and storage before harvest

Rice monitoring adds evidence to operational planning

Senegal River Valley · reported 2026 cultivation figures · hectares



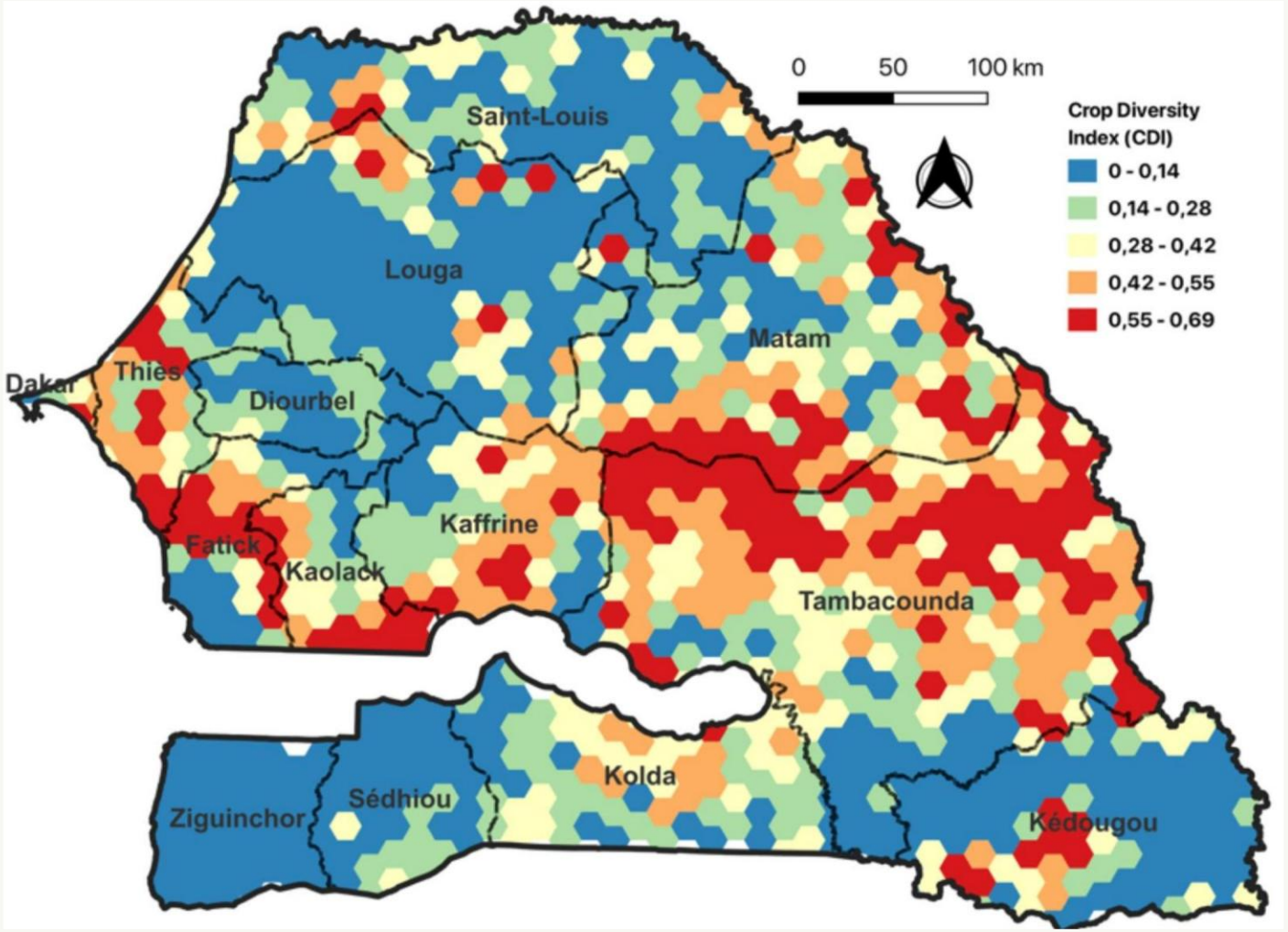
+8.0%

Mapped area versus target

Area is one input to harvest and processing plans

Satellite-derived area estimate; harvested output requires yield and loss information.

Crop patterns help target climate-risk support



Different crop patterns

Different advisory and sourcing needs

Diversity is an indicator, not proof of resilience.

Producer organisations connect intelligence to markets



AgriConneXions concept

Cooperative management

Members, activities and business records

Commercial transactions

Produce, inputs, transport and storage

Finance and advice

Credit, insurance and technical services

Adoption depends on affordable, trusted services

AKADEMIYA

Business relevance

A decision worth improving, agreed with users.

Accessible delivery

Affordable information, in time and in a usable format.

Trust and data governance

Clear permissions, benefits and explanations.

Continued service

Skills, partnerships and finance for recurring costs.

Success means better outcomes for farmers and businesses

Which decision improves?

Who can act on the information?

What benefit can we measure?

Lower losses and costs
More reliable deliveries and payments
Higher producer income after costs

THANK YOU



Dr Racine Ly
National Country Representative, Senegal
Director, Data Intelligence and Governance
AKADEMIYA2063

This event was organised by COLEAD within the framework of the FFM Africa 2030 programme ("FFM Africa"), funded by the European Union under the NDICI–Global Europe instrument. Its content is the sole responsibility of COLEAD and does not necessarily reflect the views of the European Union.

This publication has been developed by COLEAD within the framework of the FFM Africa 2030 programme ("FFM Africa"), funded by the European Union under the NDICI–Global Europe instrument. Its content is the sole responsibility of COLEAD and does not necessarily reflect the views of the European Union.

Global Gateway

Funded by the European Union

Thank you

