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Data Sharing: Collaborative Data Synergies For Food System Transformation

KALRO Collaborative Data Initiatives

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KALRO

7th & 8th November
Nairobi, Kenya

#ALE2023 #AgriFinALE2023

Chapter 1: Introduction

Introduction

KALRO is a Kenyan government agency responsible for agricultural and livestock research. The organization conducts research in various areas, including crop and livestock improvement, sustainable agriculture, natural resource management, and agribusiness.

The mandate of KALRO as stated in the Act is to:

a) Promote, streamline, coordinate, and regulate Kenya research in crops, livestock, genetic resources, and biotechnology;

b) Promote, streamline, coordinate, and regulate research in crops and animal diseases;

c) **Expedite equitable access to research information, resources, and technology and promote the application of the rese arch findings and technology in the field of agriculture.**

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Why Share Data?

- Data sharing is crucial for fostering collaboration, enabling informed decision-making, and advancing research and innovation in food systems.

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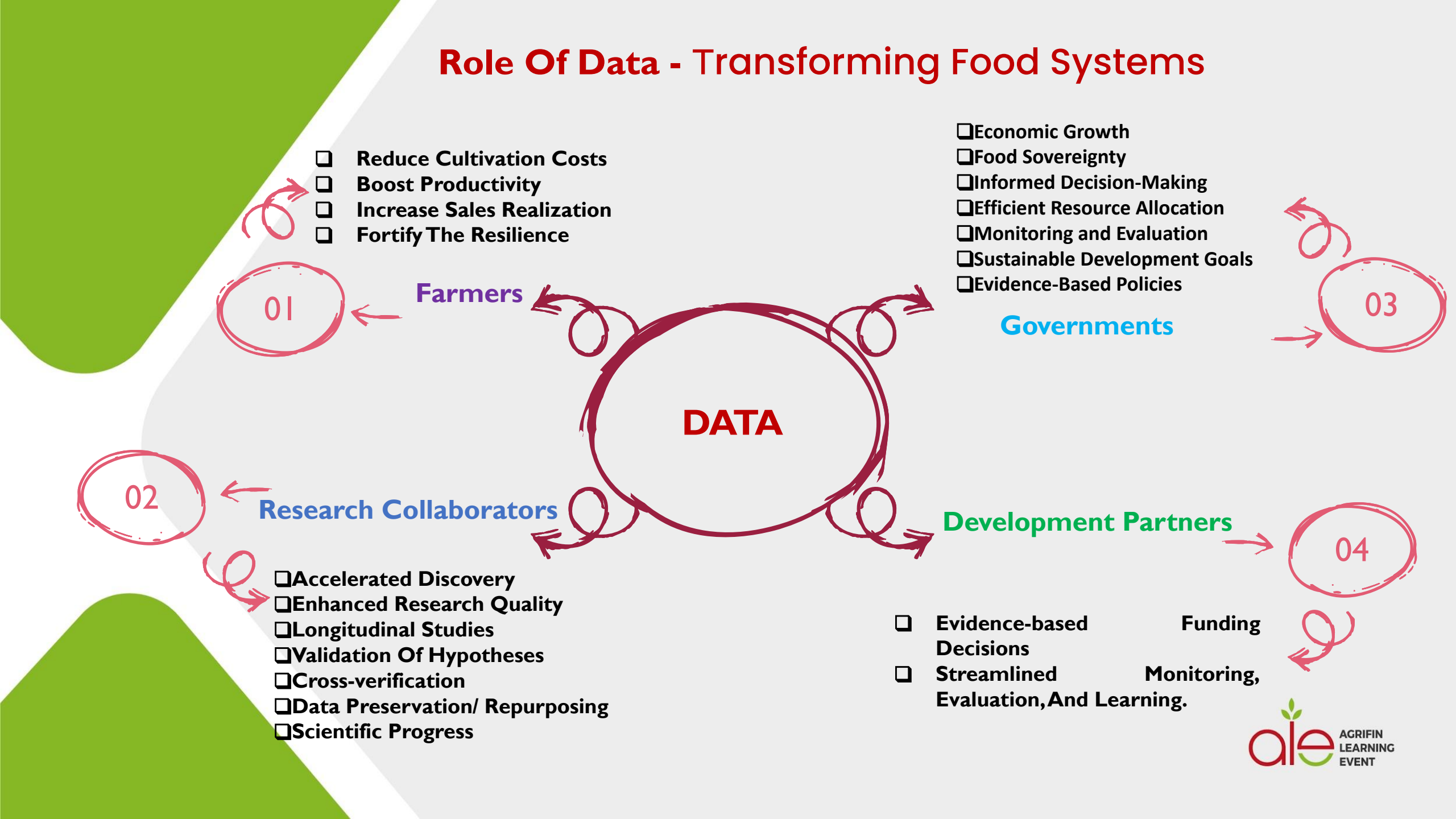
Role Of Data - Transforming Food Systems



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Chapter 2: Data Sharing and Collaboration

Strategic Collaborations

- To deliver on its core mandate of Expediting equitable access to research information. KALRO seeks and maintains partnerships with various stakeholders.
- **Some of these Stakeholders include:**
  - Other National and Regional Research Organizations
  - International Agricultural Research Centres (IARCs)
  - National/ International Universities
  - Development Partners
  - County Governments
  - Private Sector and Non-Governmental Organizations
  - Farmer Organizations, Faith Based Organizations, among others.

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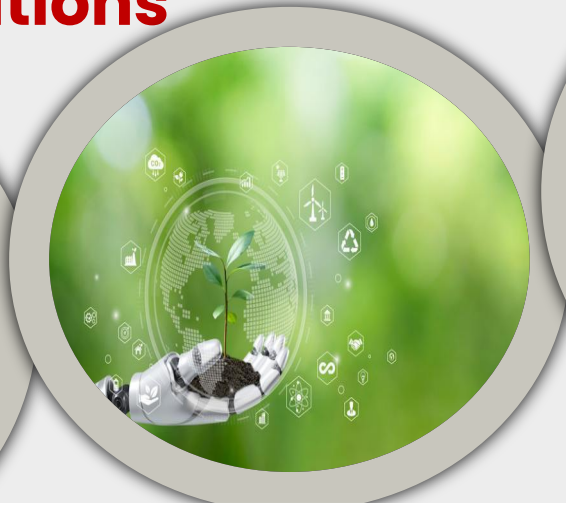
Impacts Of Collaborations



climate change
biodiversity conservation
enhanced food security
reduction of post
market access
value chain integration
economic growth
conflict resolution
harvest loss
knowledge sharing

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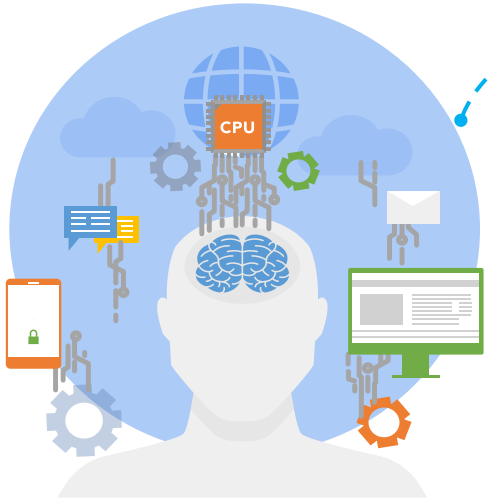
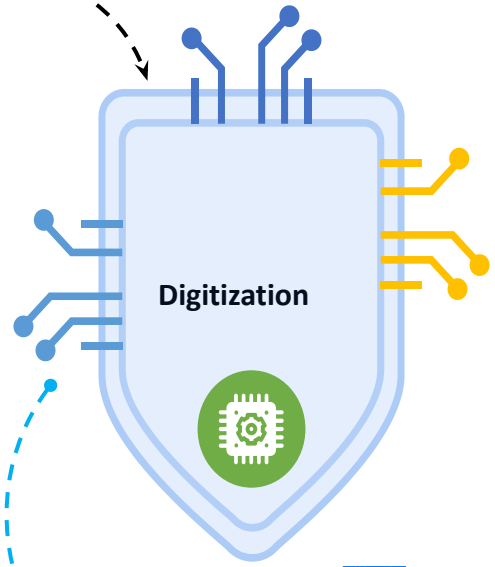
Chapter 3: Data Use Cases

Data Sharing: Where it Started

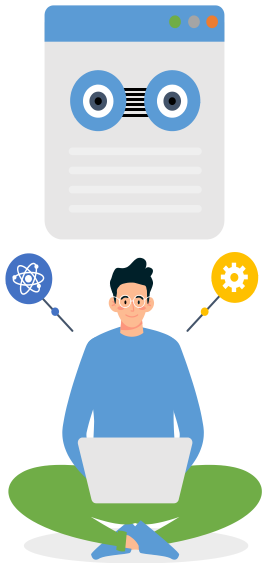


Innovations
(Big Data + Disruptive Technologies)

Integrating ICT+ Research + Emerging tools



Data Use Cases
(Products & Services)



Capacity Building

Scale

Data Sharing: Where are we!

KAMIS

KALRO SELECTOR

KAOP

AI

Pest & Desiese Manageent

Yield Forecast

NDVI

Improved Productivity

DIGITIZATION

INNOVATIONS

DISRUPTIONS

AGRICULTURAL INTELLIGENCE

Use-Cases For Data Sharing

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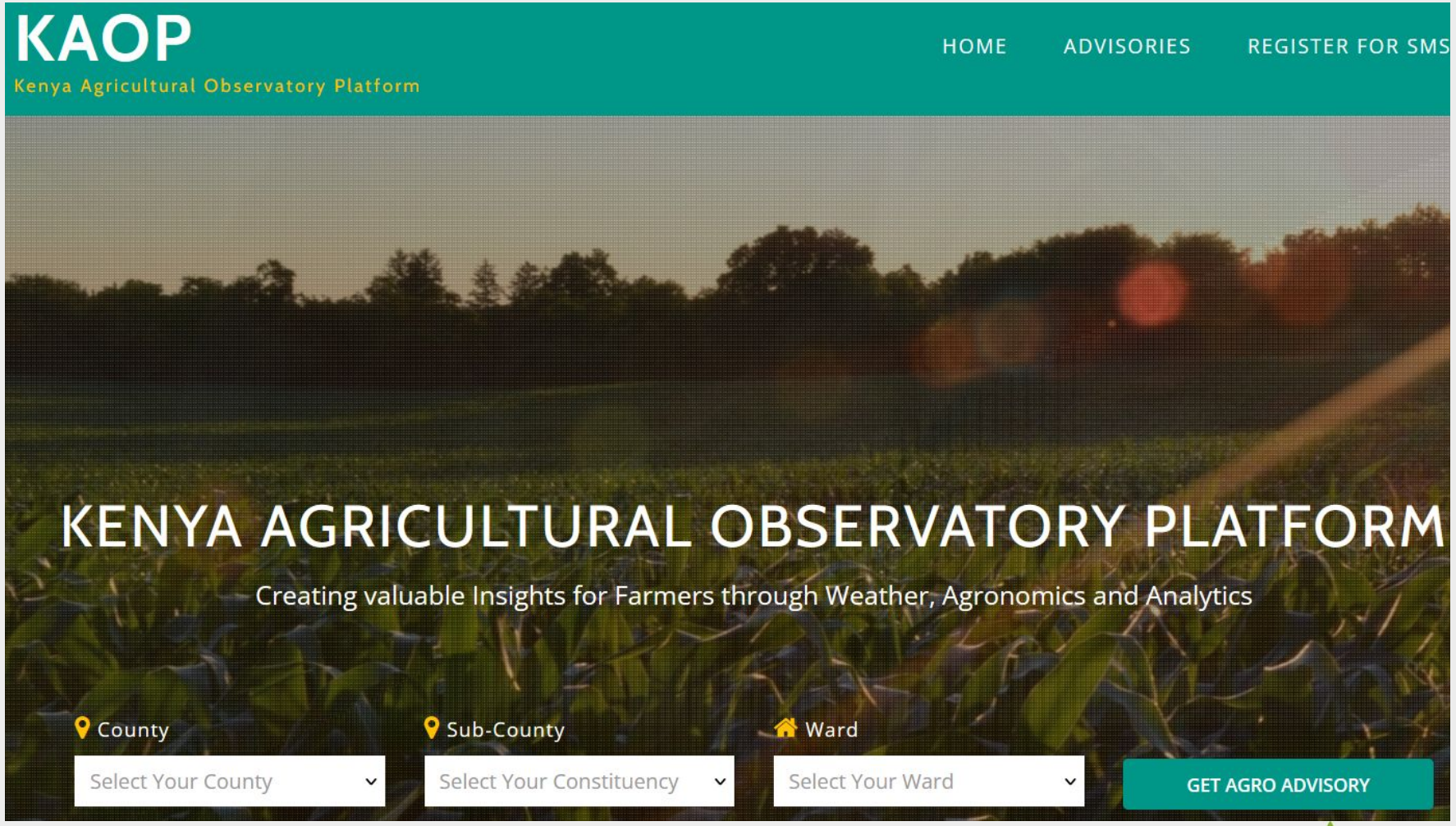
Collaborations: Where are we



Use-Cases From Collaborations

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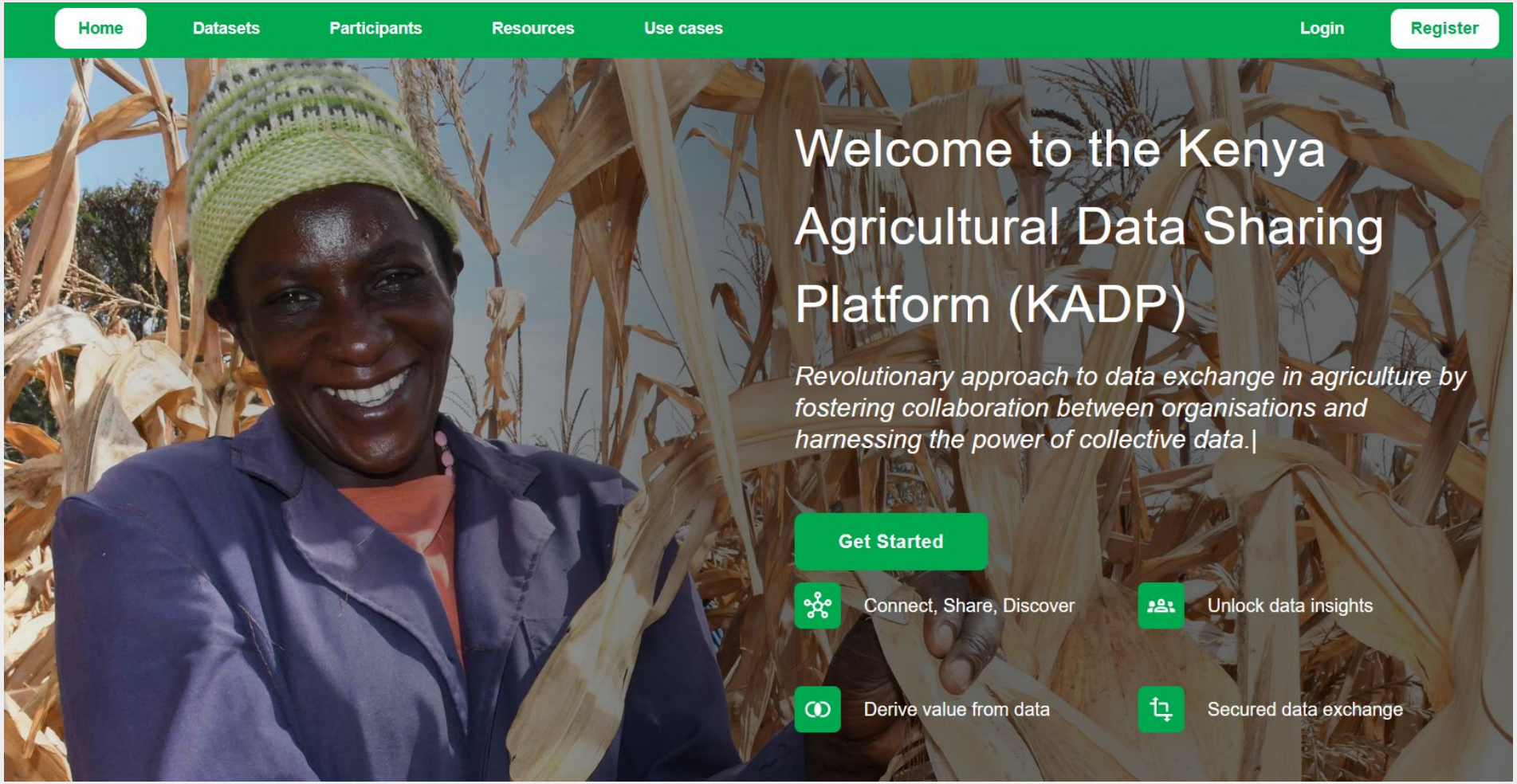
Collaborations: Where are we



Use-Cases From Collaborations

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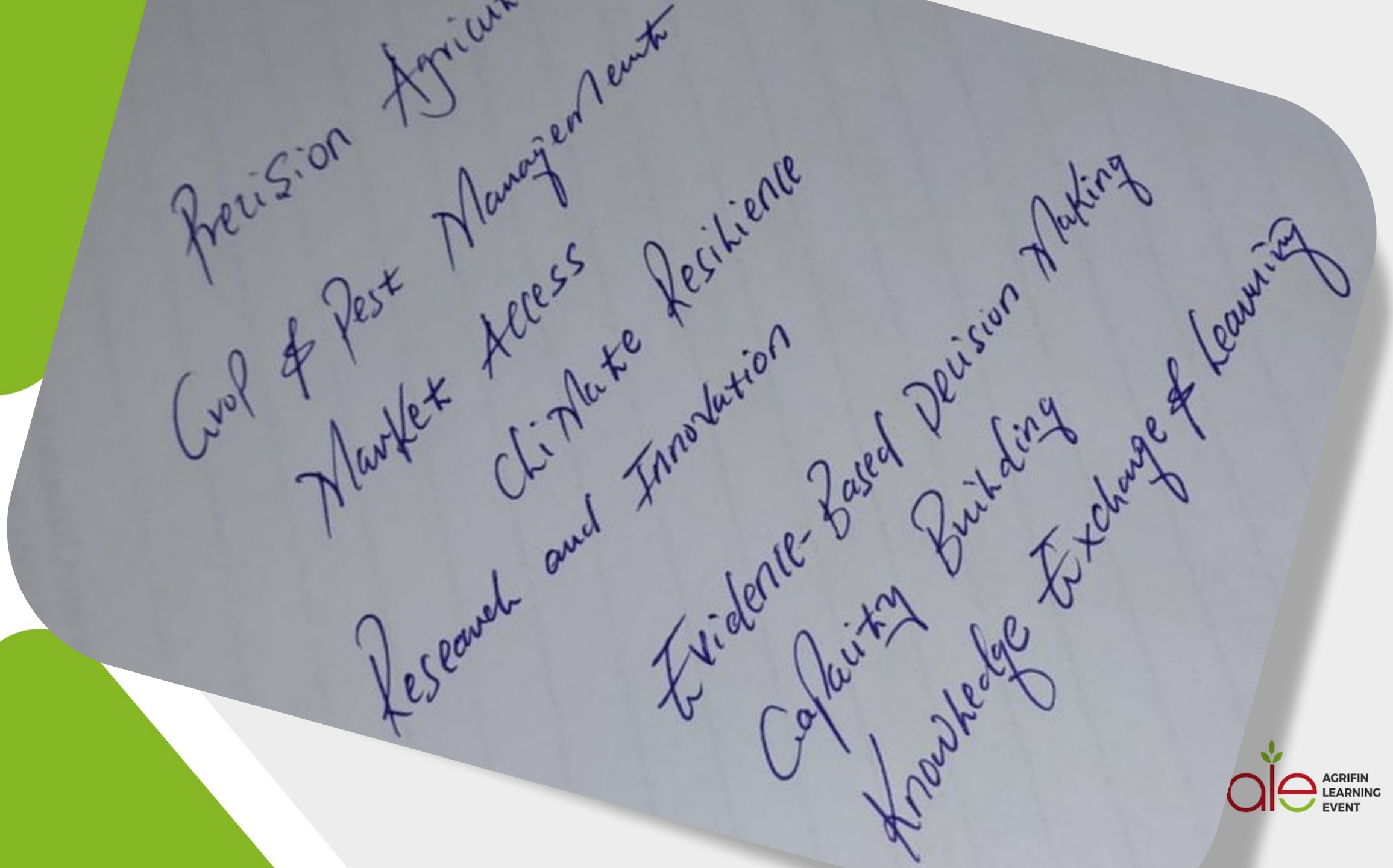
Chapter 4: Challenges To Collaborating And The Opportunities For Data Sharing



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Appreciate The Challenges To Collaborating

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As a society, we tend to do things the way we've been taught without questioning it.

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Thank You!