

# Climate-Smart Agriculture Partnership: Exploring technologies and lessons learnt

Bringing together innovative people and organisations to promote climate-smart agriculture in Nigeria and Ghana

Joanna Scales, Jo Gosling, Chris Till



# Agenda

- 2.00 - 2.20** Programme and Projects
- 2.20 - 2.50** Panel 1- Developing and applying digital tools for on-farm monitoring and decision support
- 2.50 - 3.00** Break
- 3.00 - 3.30** Panel 2- Improving productivity and resilience
- 3.30 - 3.50** Networking
- 3.50 - 4.00** Closing Remarks



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# Programme Introduction

Áine McGowan

Food & Agriculture R&D Lead, Foreign,  
Commonwealth and Development Office  
(FCDO)



# Programme Activities

Joanna Scales, Innovate UK Business Connect



# Programme Activities

## Building relationships



Scoping Projects



Travel Grants

## Aligning and defining



Advisory Group

## Growing connections and innovating



Innovation Awards



# Scoping Projects



## **Sustainable Crops and Food Security**

Climate-smart Cowpea  
Microbial solutions for Cassava productivity  
Cocoa sustainability  
Nature-based pest control



## **Livestock & Pasture Systems**

Climate resilient livestock  
Agroforestry for livestock (silvopasture)  
Sustainable goat production



## **Agroforestry & Soil Health**

Regenerative landscapes  
Soil health science for productivity  
Sustainable oil palm options



## **Tech & Integrated Approaches**

Digital tools + data ecosystems



# Travel Grants

13 sets of partners travelling to explore innovation ideas and identify future collaborators.



Projects: **1 Aug 2025- 28 Feb 2026**

Funding: **£220,000**

Applications received: **39**

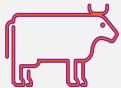


**26** organisations collaborating



Topic areas include:

- Biochar for improved soil fertility
- Agroforestry
- Grassland and livestock forage



# Innovation Awards

A cohort of 17 seven-month long **collaborative trilateral projects** to build international partnerships to enable technology transfer and development.



Projects: **1 Aug 2025- 28 Feb 2026**

Funding: **£1.62mil**

Applications received: **75**



**55** organisations collaborating

Wide range of innovations explored to support climate-smart agriculture and sustainable production including:

- bio-pesticides to reduce pests in pepper farms
- microbial biostimulants to increase cassava yields
- DNA sequencing technology to monitor disease and prevent disease outbreaks in fish farms



# What farming challenges are the projects helping to solve?

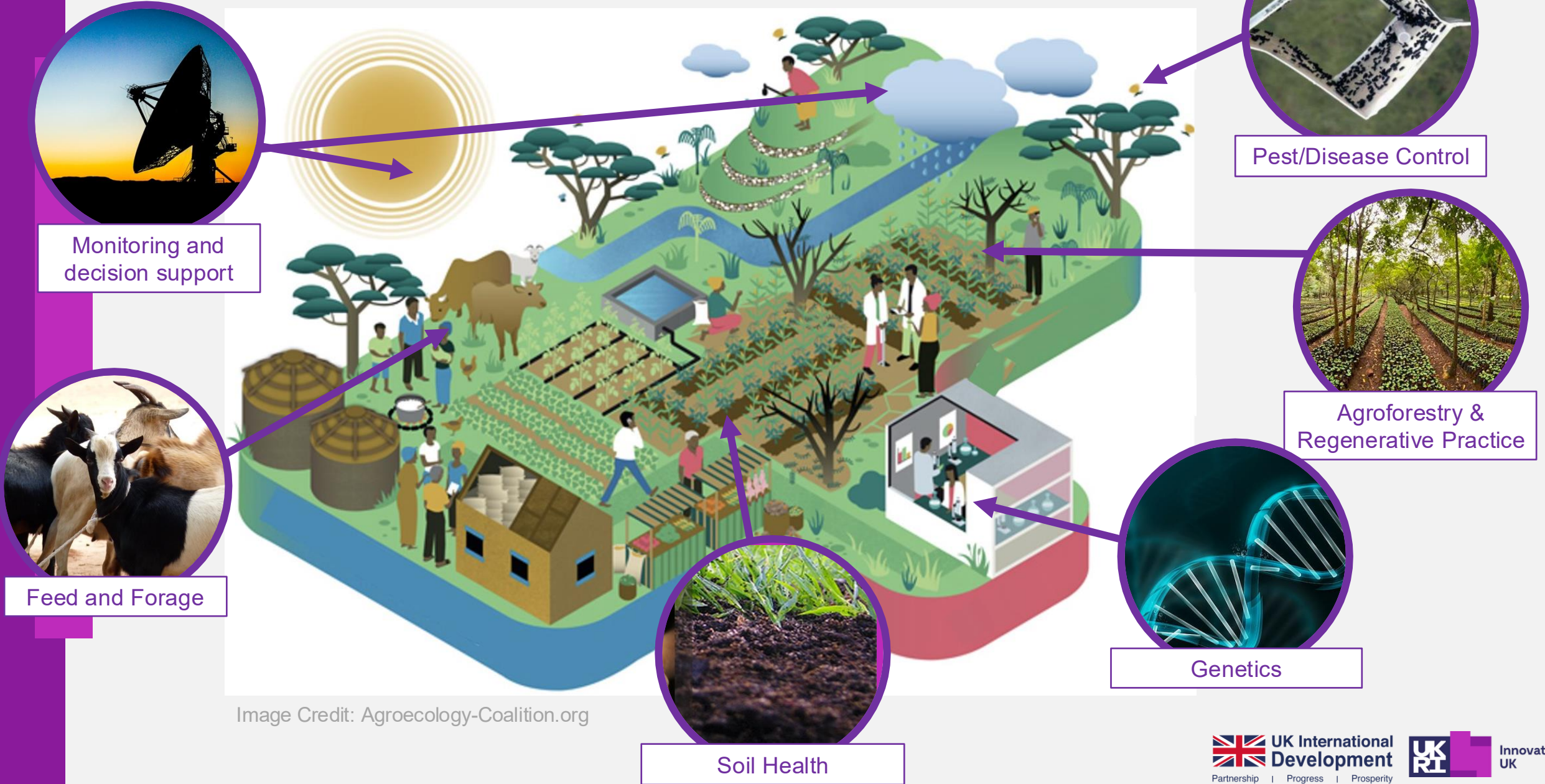


Image Credit: Agroecology-Coalition.org

# Early project outcomes

New technologies:

- Crop applications to reduce fertiliser requirements
- Biodegradable polymers for use in pheromone dispensers
- Water-sampling device that performs on-site DNA extraction to monitor aquatic pathogens
- Methodology combining environmental data from sensors and weather stations with computer vision to predict disease before it becomes visible.
- Seed coating to reduce water-logging impacts

# Programme outcomes to date

## The Partnership has:

- Identified the value of bringing together complementary trilateral expertise, and a strong desire for international collaboration
- Established a route from problem definition to early validation
- Demonstrated effective co-development and testing of technologies across climate-comparable geographies, producing credible early-stage evidence for future scale
- Enabled businesses to access new markets
- Accelerated the flow of knowledge from research-to-business.
- Identified topic areas for future focus

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# Thank you



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