



oNe hEalth SusTainabiLity partnership between EU-AFRICA for food sEcuRity

NESTLER is a joint project between the EU and African member states designed to promote One-Health sustainable partnership.

VISION



IoT sensors deployed across fields to continuously monitor the environmental and animal well-being



Precision farming develops robust management system for high productivity and quality of crop yields



AI/ML Algorithms to reveal intelligent insights into the interdependencies of crop cultivation with the environmental factors as well as the epidemiological outbreaks



GIS Systems for accurate mapping and data modeling obtained from sensors plotted on geographical maps



Feed Industry studies to upkeep of livestock and aquaculture

Animal health

- Promote improved farming practices
- Regulate use of wildlife
- Regulate antimicrobial use and prescription
- Regulate food supply chains and processing
- Expand research into emerging diseases

Human health

- Manage urbanization
- Reduce human conflict
- Regulate antimicrobial use and prescription
- Address socioeconomic inequalities
- Expand research into emerging diseases

Environmental health

- Reduce deforestation and promote conservation
- Limit environmental pollution
- Improve housing
- Improve waste management
- Expand research into climate change

Integrated cloud-edge digital platform

Smart farming sensors & Remote sensing technologies

Crop quality assessment and pest control management

Insect protein production technology on the circular economy

One-health EU-Africa policy framework

NESTLER Pilots in 6 African countries



Cameroon



Uganda



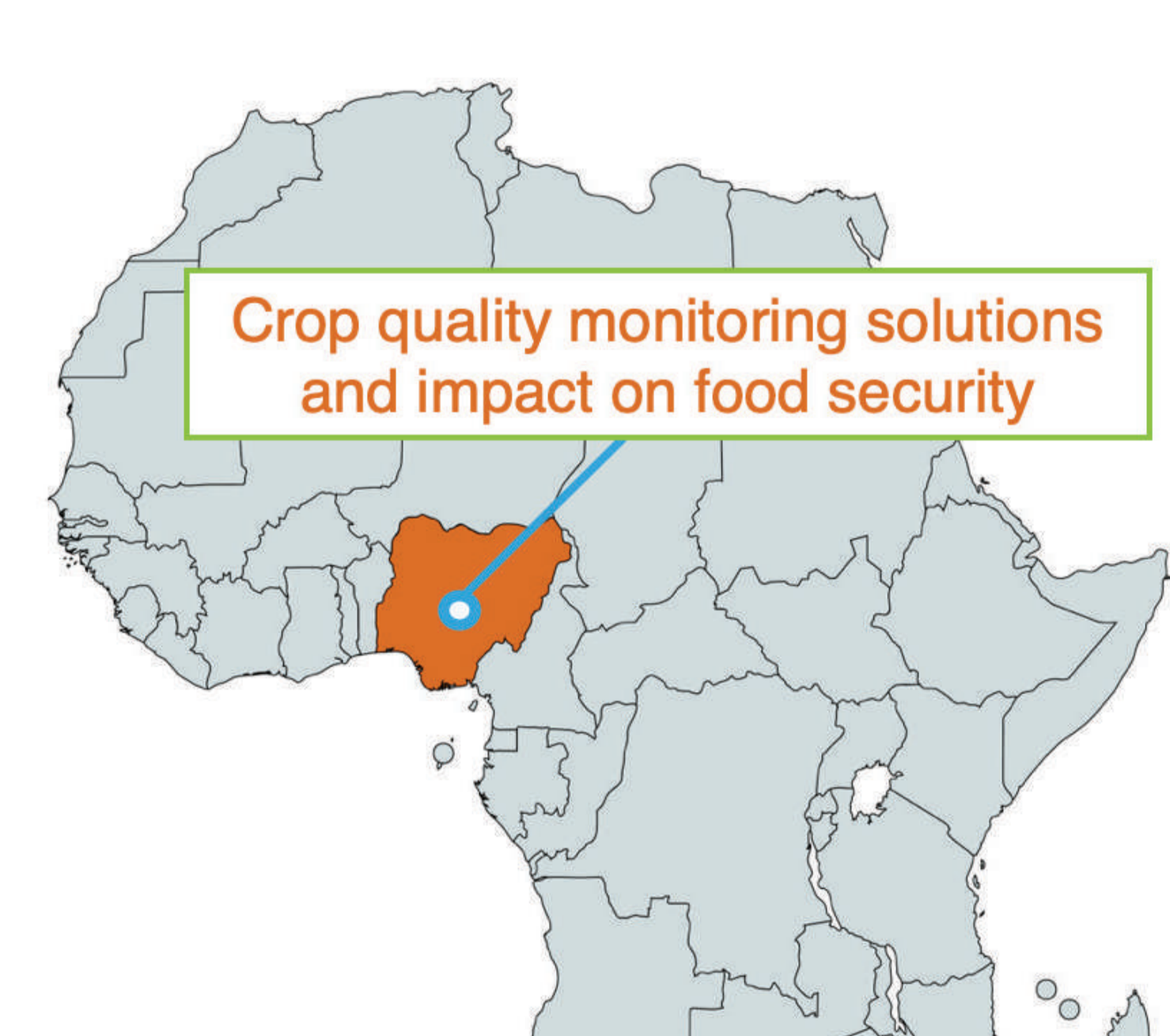
Ethiopia



Rwanda



Kenya



Nigeria

Consortium Partners:



Duration

October 2022 — September 2025

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