

Mobile phone-based surveillance system for slaughterhouses to report and monitor livestock diseases and syndromes in Uganda

Project Title: P340 - Technological and institutional innovations for assessing, communicating and mitigating food safety risks designed and tested, with capacity building (Product Lines)

Description of the innovation: ILRI with partners designed a mobile phone-based syndromic surveillance system for livestock diseases as part of meat inspection in slaughterhouses. An electronic meat inspection form, in lieu of the paper-based format, captures information on animal demographics and any eventual condemnations, and makes information available in real-time. Over time, routine slaughterhouse inspection data could be used to inform thresholds for expected values within an early detection and warning system for diseases of public health concern.

New Innovation: No

Stage of innovation: Stage 1: discovery/proof of concept (PC - end of research phase)

Innovation type: Research and Communication Methodologies and Tools

Geographic Scope: Sub-national

Number of individual improved lines/varieties: <Not Applicable>

Country(ies):

- Uganda

Description of Stage reached: The innovation was tested in Western Kenya (link #1) and is now being tested in Uganda across different livestock species, coupled with meat inspector trainings and consultations (link #2). High-level government and authoritative bodies are involved in the testing to improve sustainability and to improve evidence-based decisionmaking.

Name of lead organization/entity to take innovation to this stage: <Not Defined>

Names of top five contributing organizations/entities to this stage:

- MAAIF - Ministry of Agriculture Animal Industry and Fisheries (Uganda)
- University of Liverpool
- Makerere University
- ILRI - International Livestock Research Institute

Milestones: No milestones associated

Sub-IDs:

- 18 - Appropriate regulatory environment for food safety
- 17 - Reduced biological and chemical hazards in the food system

Contributing Centers/PPA partners:

- ILRI - International Livestock Research Institute

Evidence link:

- <https://doi.org/10.1038/s41598-021-98495-7>
- <https://tinyurl.com/yxtvglst>

Deliverables associated: <Not Defined>

Contributing CRPs/Platforms:

- A4NH - Agriculture for Nutrition and Health
- Livestock - Livestock