



BUILD AMR

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Stars of the AMR team



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MSc at University of
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Steven Kakooza



Research questions

- What are the drivers of AMU amongst poultry farmers? (Cross-sectional 1)
- What is the prevalence of AMR in poultry farms? (Cross-sectional 1)
- What AMR hazards are consumers of poultry exposed to? (Cross-sectional 2)
- What are the modes of transmission of AMR in a farm? (Longitudinal)
- Is there a dominant AMR clone persisting on a farm? (Longitudinal)

- What are the capacity development needs of different poultry value chain actors?
- How can interventions can mitigate AMR?

AMU and AMR capacity needs assessment in value chain actors

Study 1: Cross-sectional in 2 districts (n=360 farms):
- AMUSE tool to understand drivers
- Microbiology to determine AMR prevalence in poultry

Study 2: Cross-sectional
-chickenmeat and/or eggs at retail
-AMR and antibiotic residues

Study 3: Longitudinal-transmission study
• Different farm types
• Multiple visits
• Sample from poultry, workers and environment
• Monitor AMU and production data
• Map transmission pathway

Risk assessment for AMR at different nodes

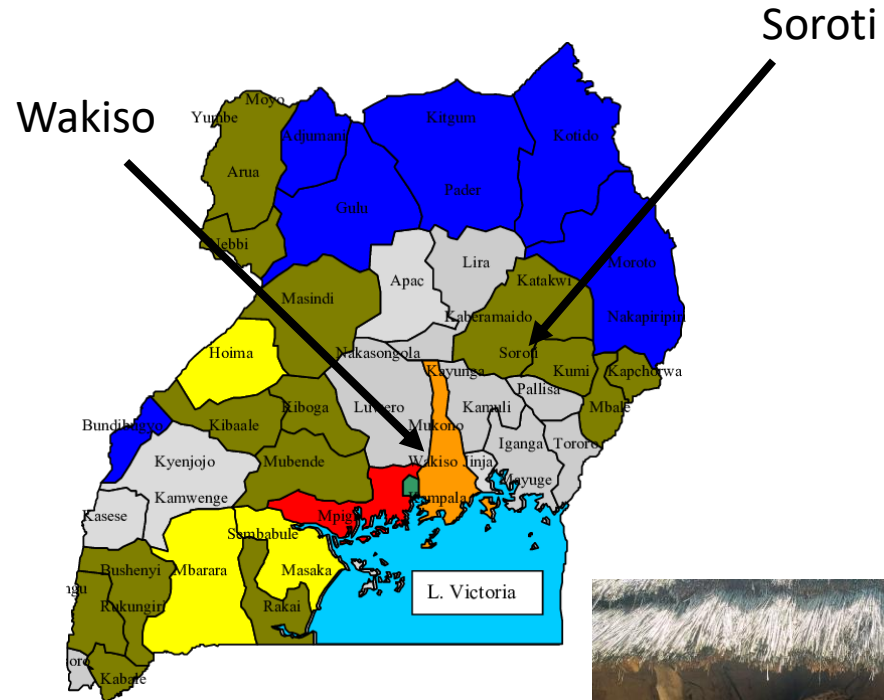
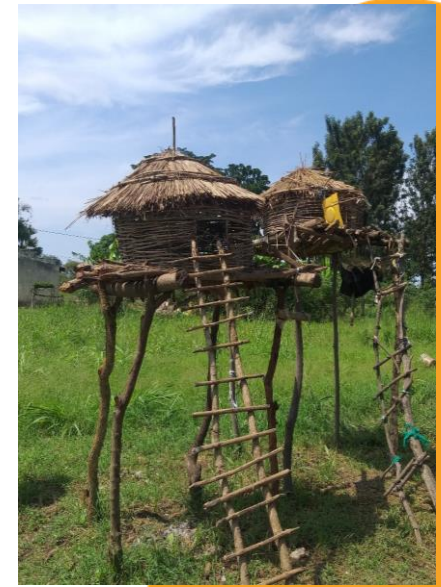
Develop training materials

Training on AMU and other interventions to mitigate AMR
- Monitor changes in KAP
- Monitor changes in AMR and production parameters

Value of training/interventions as a risk mitigation measure

Actionable evidence to mitigate AMR in poultry production

Study Sites



Our favourite organisms!

Salmonella

E. coli

Enterococci

1. Quantitative AMR data
2. Selection and persistence
3. Transmission of specific AMR-pathogens combinations



Where we are?

- Ready to start cross-sectional study 1 in early October
- Consultant
 - Literature review & Retrospective dive into biorepository
- 17Triggers project started in August



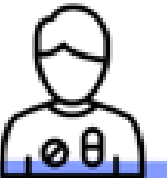
Current Vision of Perfect



Seventeen
Triggers



We want farmers to use AM only when necessary **so that** the development of resistance is reduced.



We want stockists to sell AM to farmers only when necessary **so that** farmers do not use AM inappropriately.

Next steps

- Plan Cross-sectional study at retail markets
- In collaboration with MAAIF on WAAW 2021
- Support MAAIF to convene an AMR scientific meeting: April 2022
 - Bring together AMR project leaders in Uganda (one health projects)
 - Finding synergy between on going projects

