

Capacity building strategies to support National Action Plans

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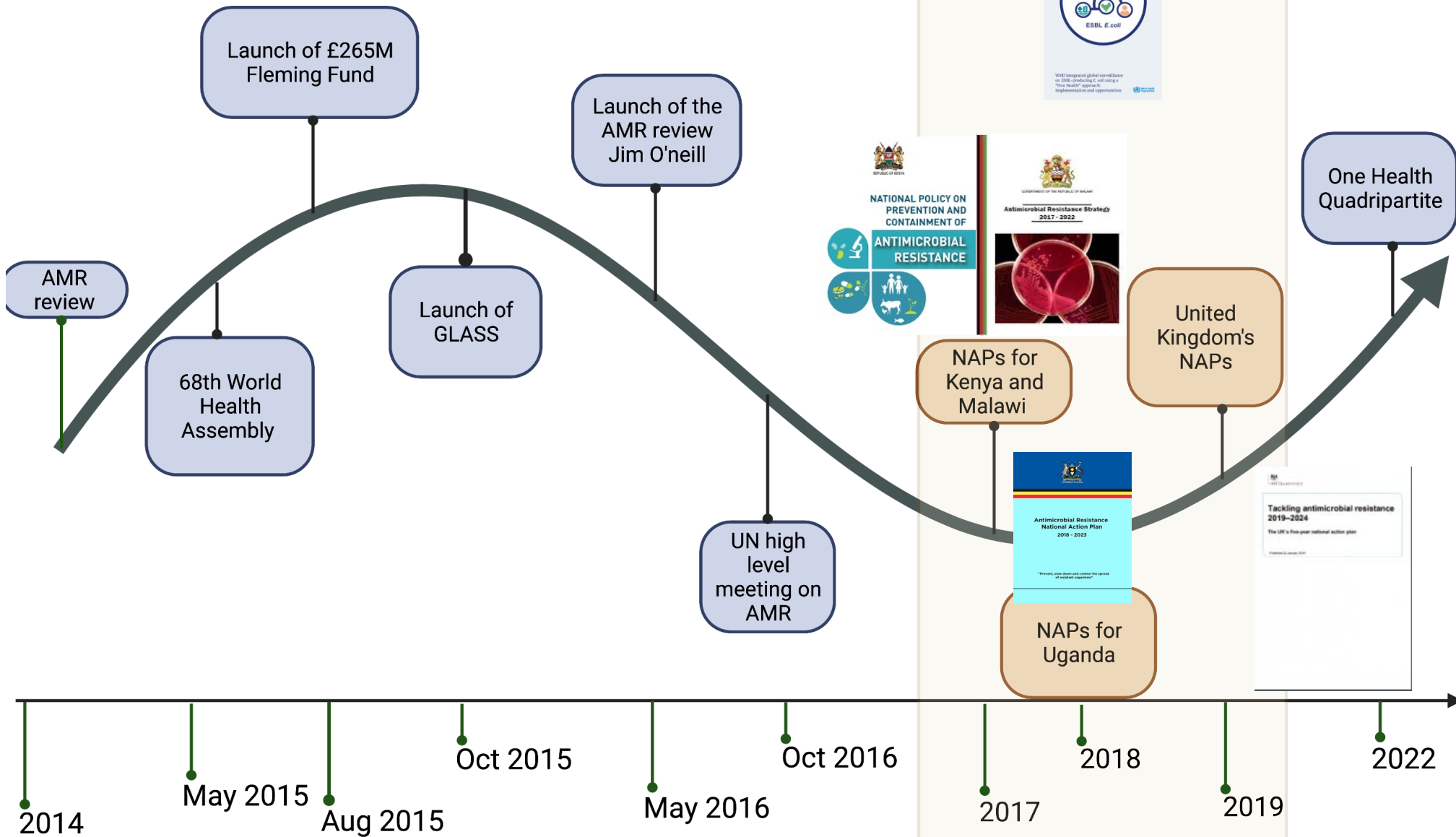


A brief history of NAPs



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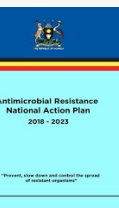
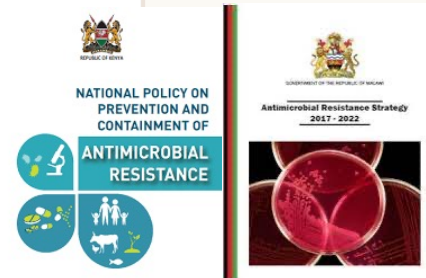




Action Plan on AMR

Endorsing One health Framework

National Action Plans



National strategy for AMR control



1) Improve awareness through effective training and education



2) Strengthen knowledge and evidence through surveillance & Research



3) Reduce the infection incidence



4) Optimise antimicrobial use in human and animal health



5) Develop an economic case for sustainable investment in new medicines, diagnostics and Vaccines

A 3D visualization of a network graph. The nodes are represented as teal, textured, cylindrical or spherical shapes of varying sizes. They are interconnected by a dense web of thin, light blue lines representing edges. The background is dark, making the teal nodes stand out. The overall appearance is that of a complex, interconnected network structure.

Do NAPs reflect the reality?

Capacity building

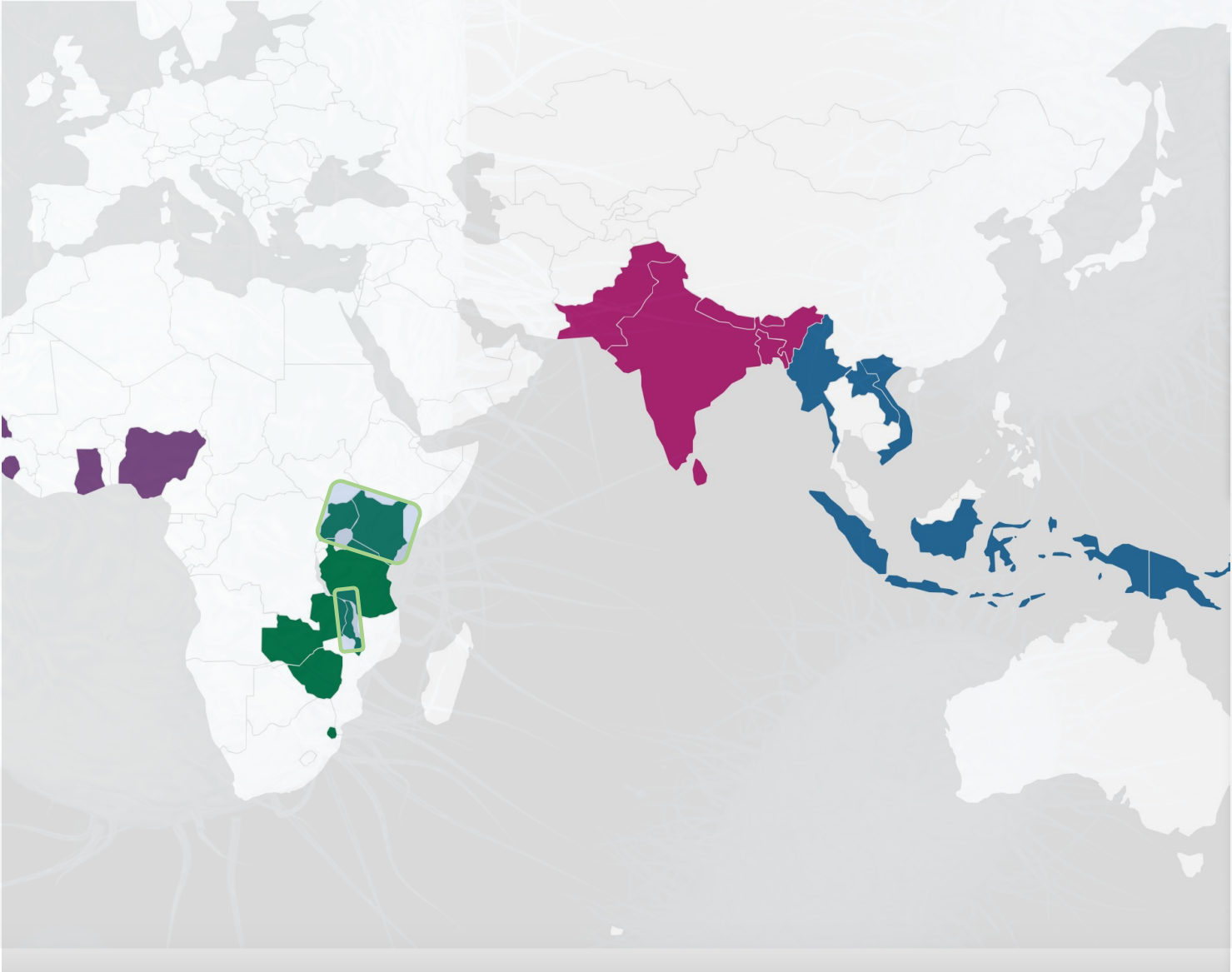


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Regions & Countries

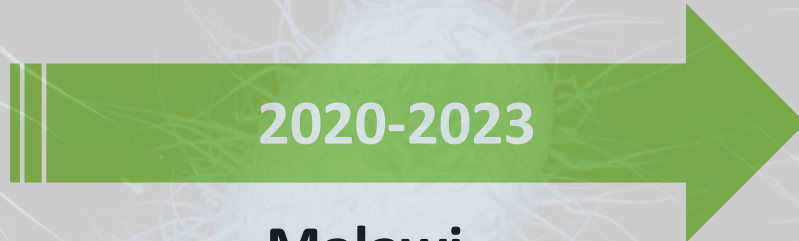
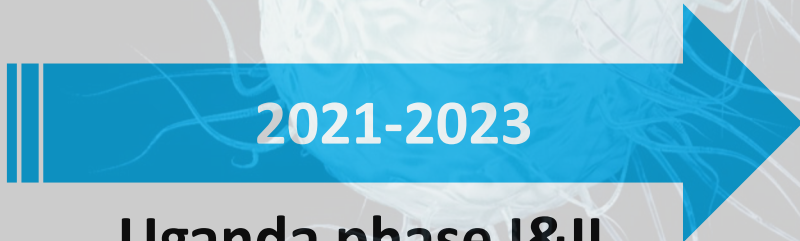
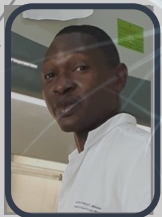
West Africa East and Southern Africa South Asia South East Asia



Our mission

To provide a comprehensive capacity building package tailored to fellows and the needs of their settings, to support the implementation and evaluation of AMR national action plans.





Uganda phase I&II
12 Fellows

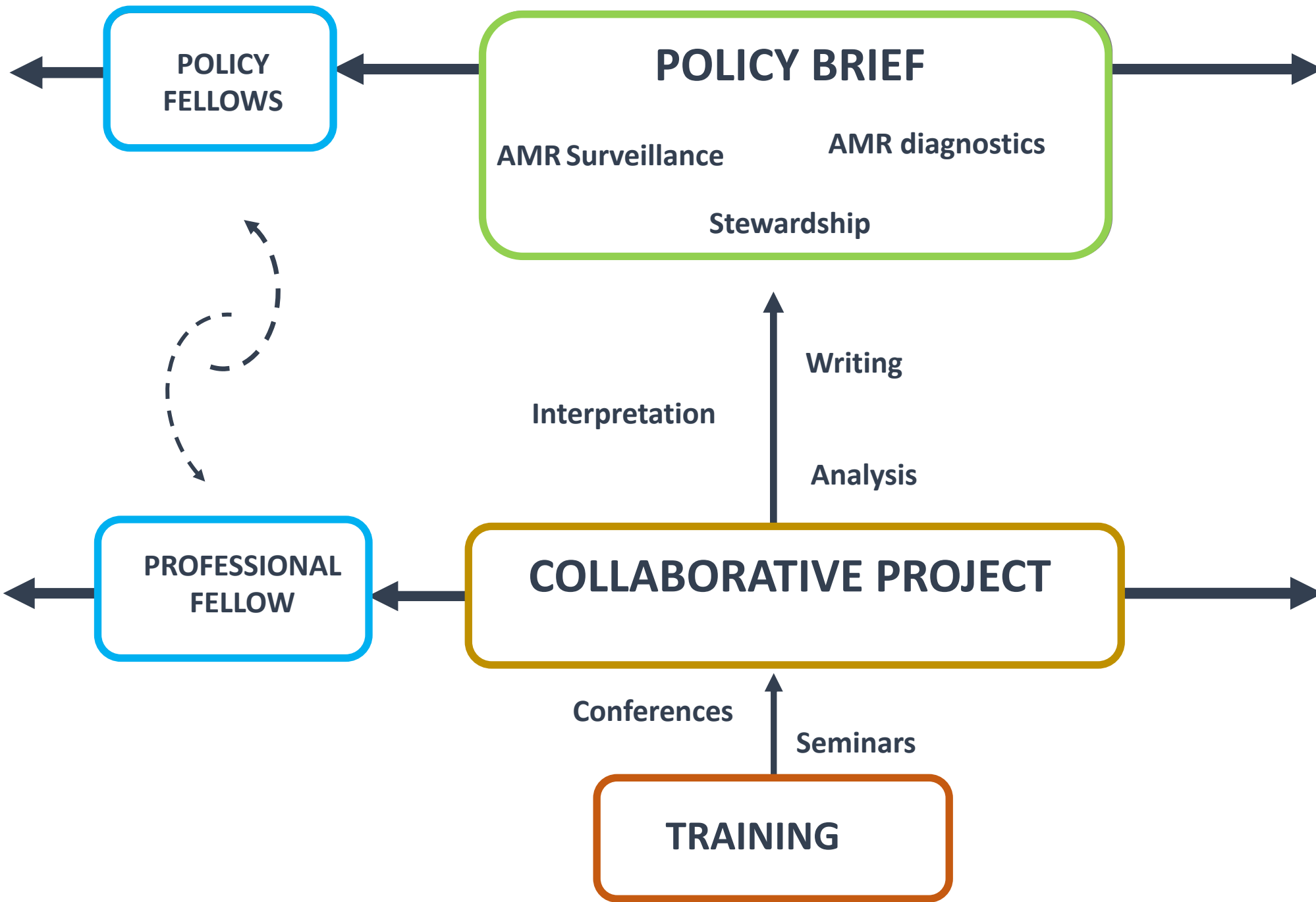
Malawi

Kenya

19 Fellows by 2023

AN UPDATE OF AMR NATIONAL ACTION PLAN

A BLUE-PRINT FOR ONE HEALTH AMR SURVEILLANCE



Designs for one health AMR surveillance in Uganda and Malawi



The
Fleming Fund
Fellowships

Piloting a one health surveillance plan in Uganda

Dr Micheal Omodo

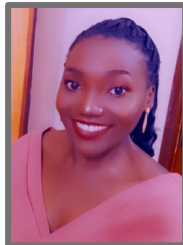


Community

AMR diagnostics



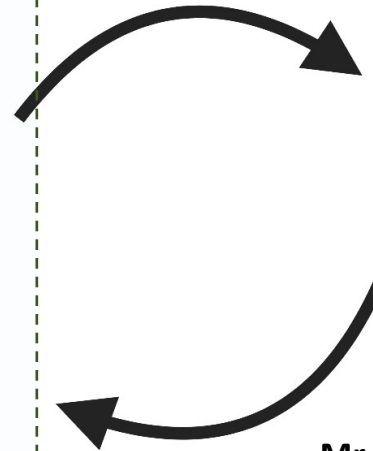
Dr Merab Acham



Dr Joseph Kungu



AMR and AMU surveillance



Hospital

Dr Joel Bazira



AMR diagnostics



Mr Ibrahim Mugerwa



Mr William Olum



AMR and AMU surveillance

Piloting a one health surveillance plan in Malawi

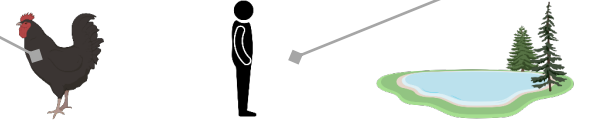
Dr. Catherine Kamwana



Dr. Ronald Chitatanga



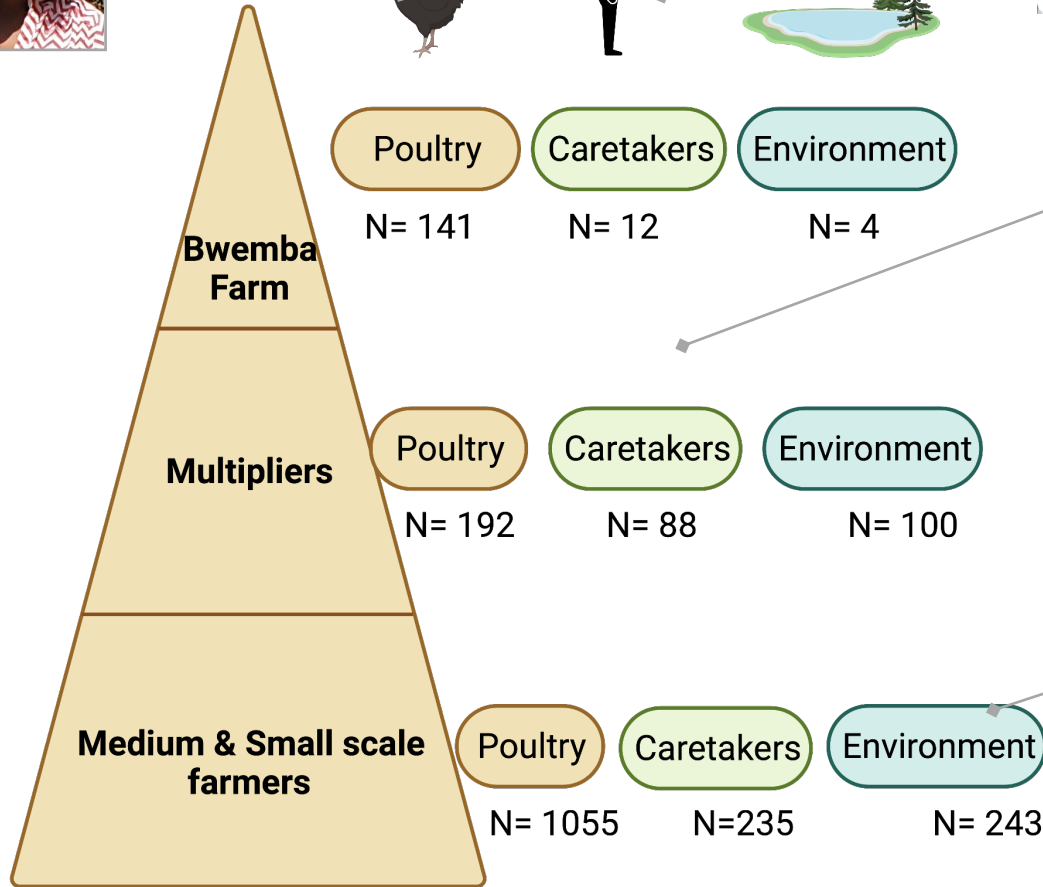
On farm



Consumer

- What is the AMR levels among care takers?
- Who does it change along the community breeding strata?
- What is the role of the environment?

Black australorp community breeding



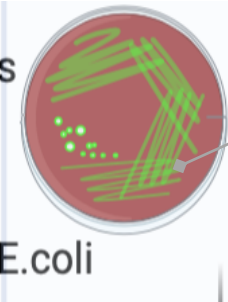
Ms Chikhu Chimwansa



Culture



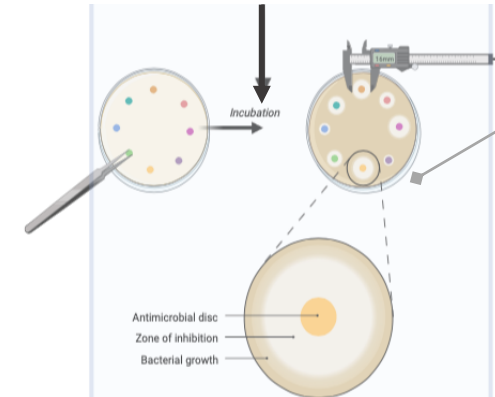
Sentinels



Mr. Harry Milala



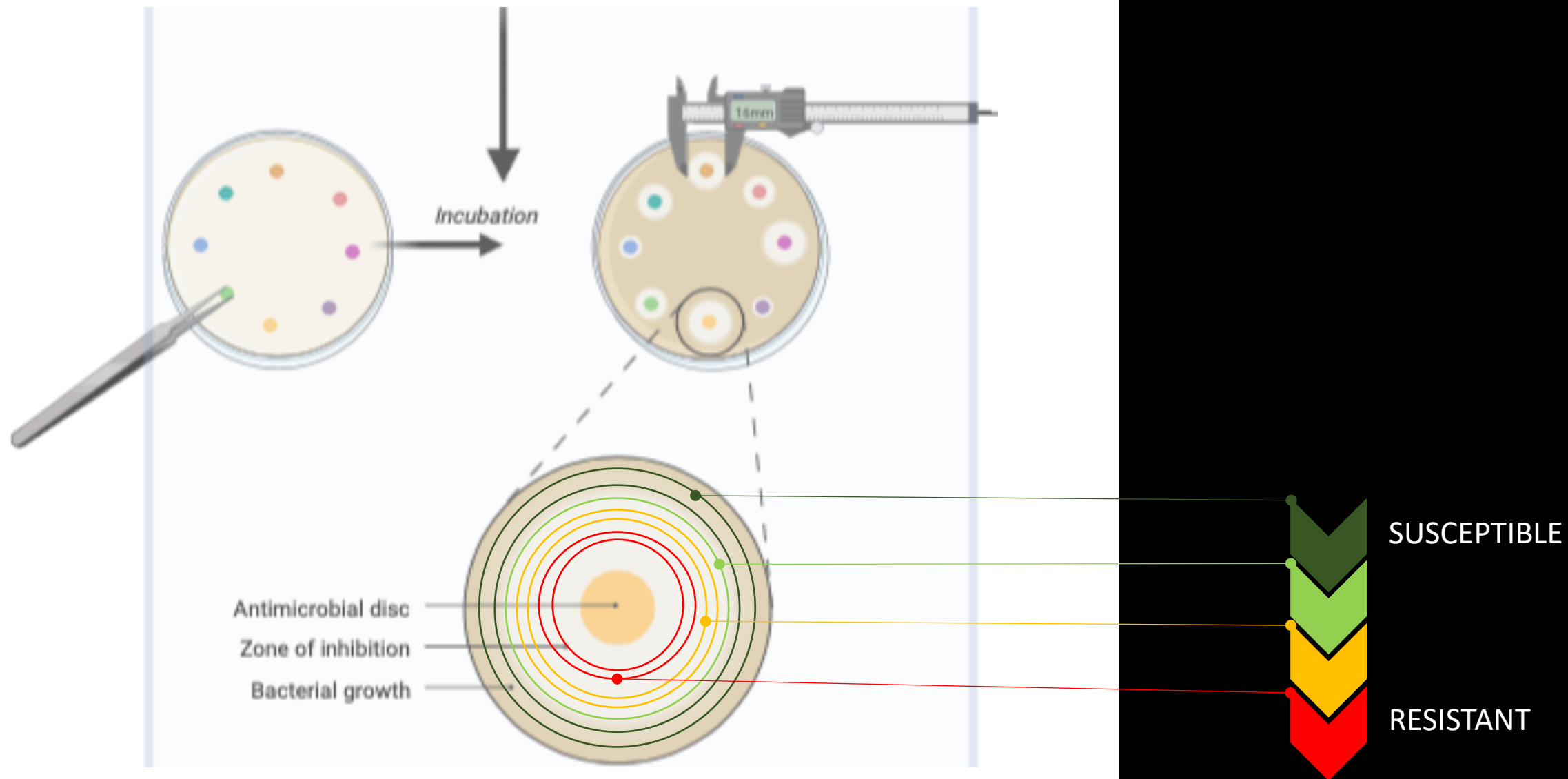
Dr. Mike Luwe



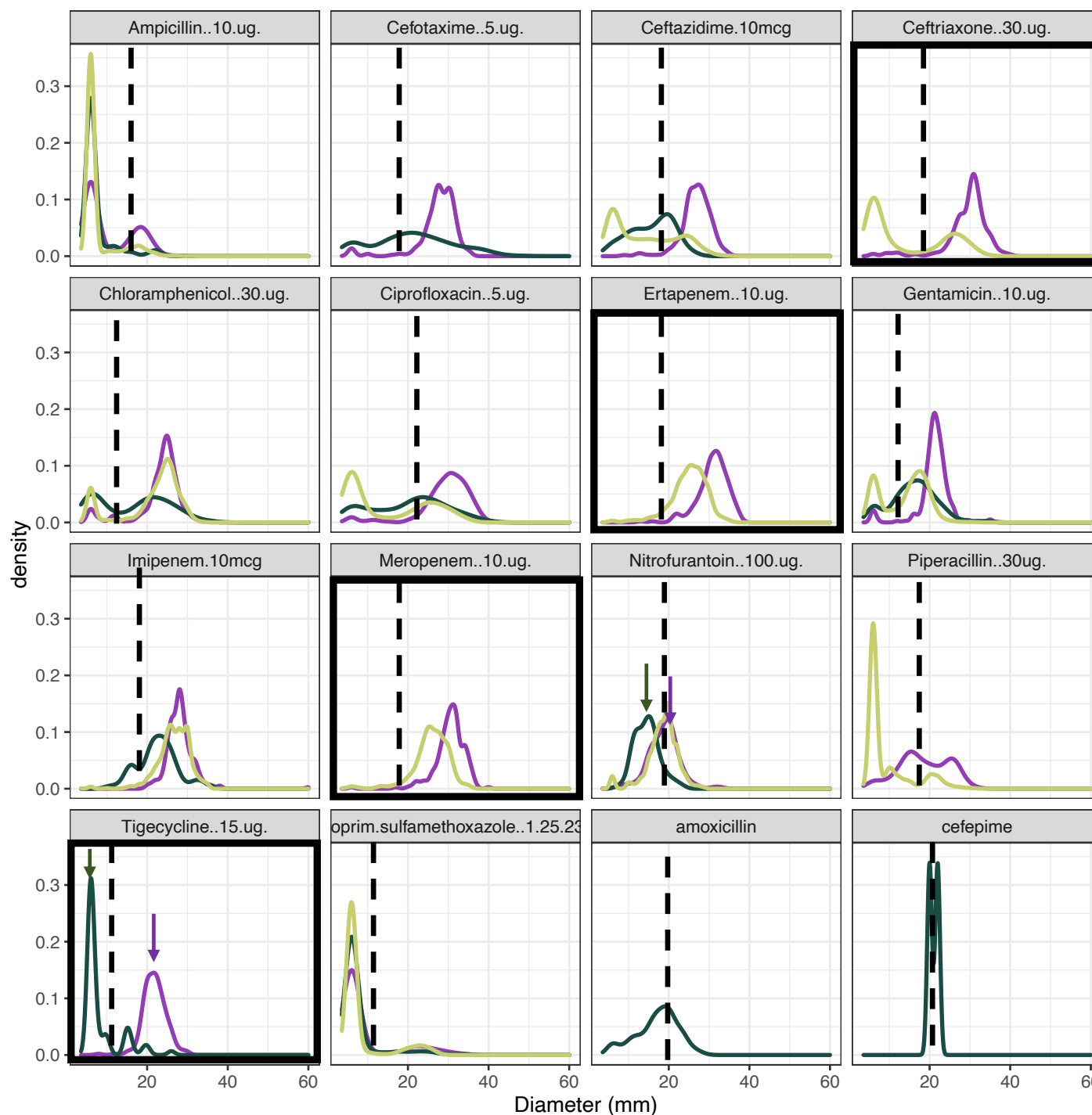
Dr. Williams Mwantoma

Black australorp value chain

Quantitatively and Qualitatively exploiting the disc diffusion diameter for AMR surveillance



AMR prevalence in Eastern & Southern Africa



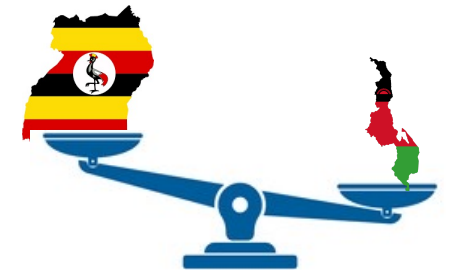
• Hospital versus community resistance

- Ceftriaxone
- Entapenem
- Meropenem
- Tigecycline






• Uganda versus Malawi

- Tigecycline
- Nitrofurantoin



Source

-  Human.community.Malawi
-  Human.community.Uganda
-  Human.Hospital.Uganda

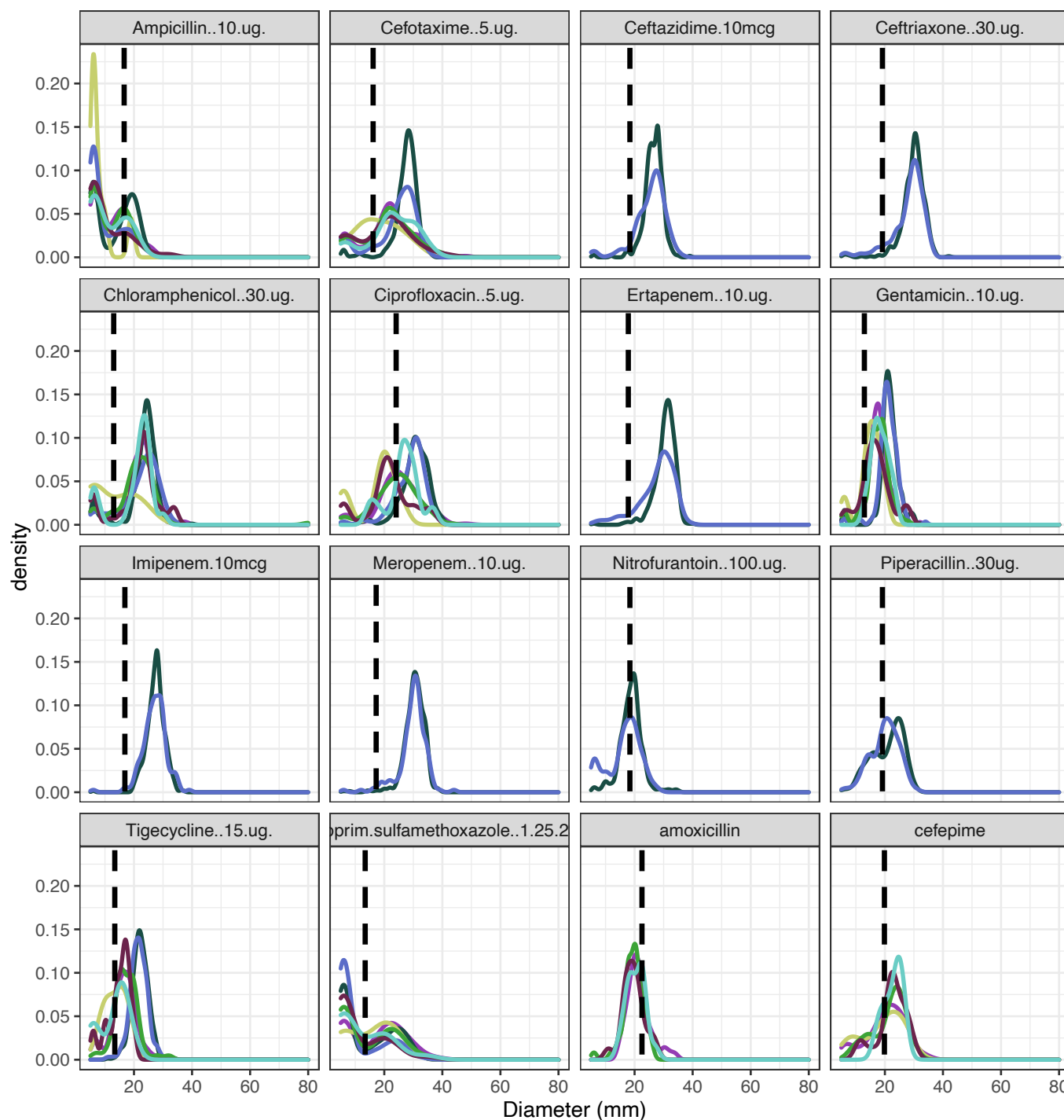
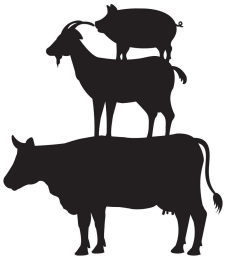


AMR prevalence in Eastern & Southern Africa

- Resistance is much lower in Livestock
- Lower variation between Livestock species
- Lower variation between Countries
- AMR in Environment is comparable to chicken in Malawi and higher in some cases

Source

-  Cattle.community.Uganda
-  Chicken.community.Malawi
-  Chicken.community.Uganda
-  Community.environment.Malawi
-  Goat.community.Uganda
-  Pig.community.Uganda
-  Sheep.community.Uganda

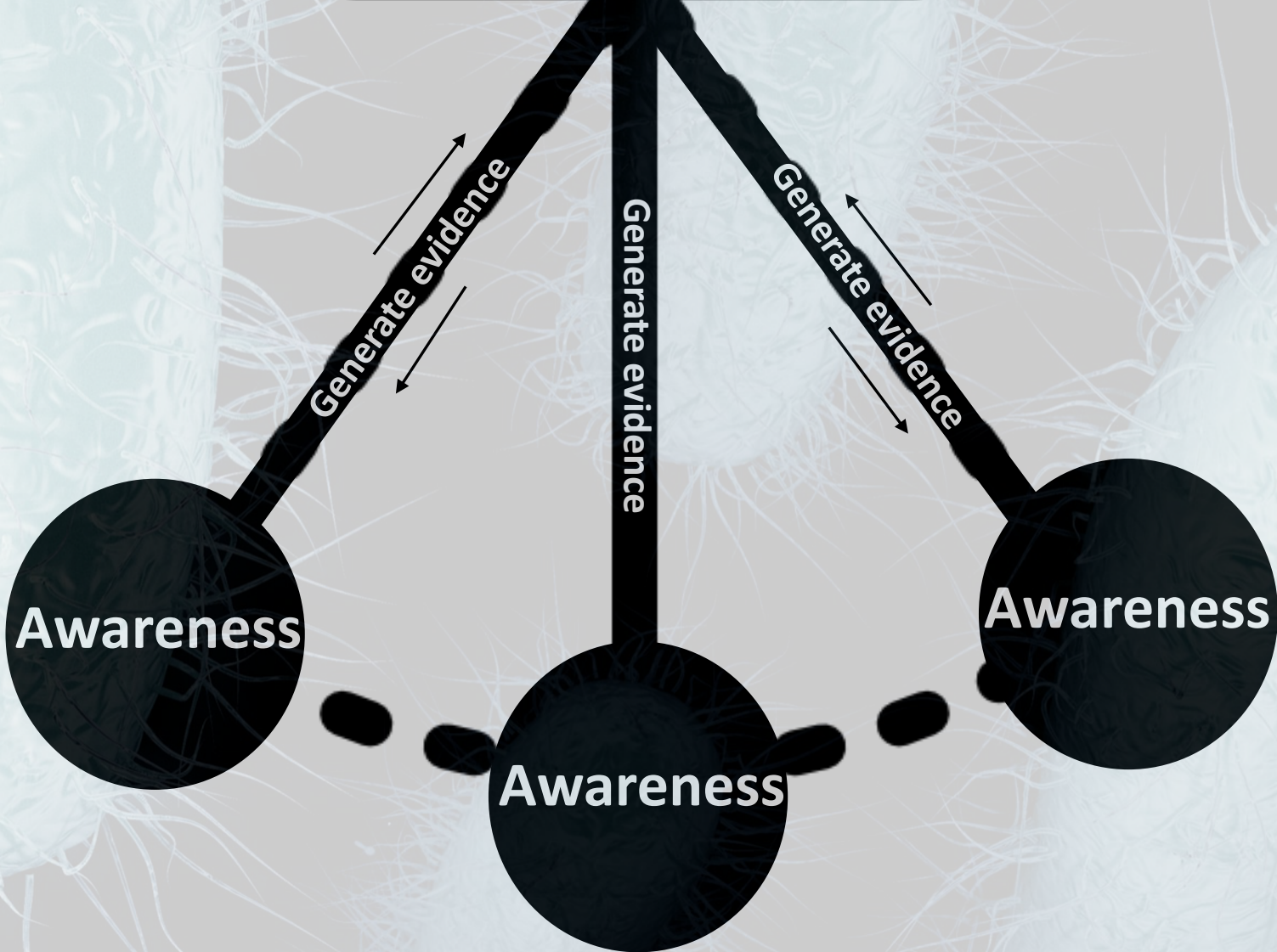


The background of the slide features a complex, microscopic-like structure. It consists of numerous thin, white, fibrous strands that are intertwined and radiate outwards from several larger, more rounded, blue-tinted structures. These structures resemble biological cells or perhaps a network of fibers, creating a dense and intricate pattern. The overall color palette is a mix of light blue, white, and a very light grey background.

What is the true scale of the problem in the Livestock sector?

How can we sustain surveillance in the livestock sector?

Capacity building



Fleming Fellowship team at University of Edinburgh

- Prof. Ross Fitzgerald
- Dr. Adrian Muwonge
- Dr. Hilary Snaith
- Ms Romana Gorjanc
- Prof Mark Bronsvoot
- Prof. Mark Woolhouse
- Dr. Gavin Paterson
- Dr. Thibaud Porphyre
- Dr. Stella Mazeri
- Dr. Alexander Corbishley



- Prof. David Gally
- Dr. Thamarai Schneiders
- Dr. Bryan Wee
- Dr. Kate Templeton
- Dr. Diego Robledo
- Prof. Liz Grant
- Prof. Lisa Boden
- Prof. Till Bachmann
- Prof. Rebecca Reynolds



Thank you for listening



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