

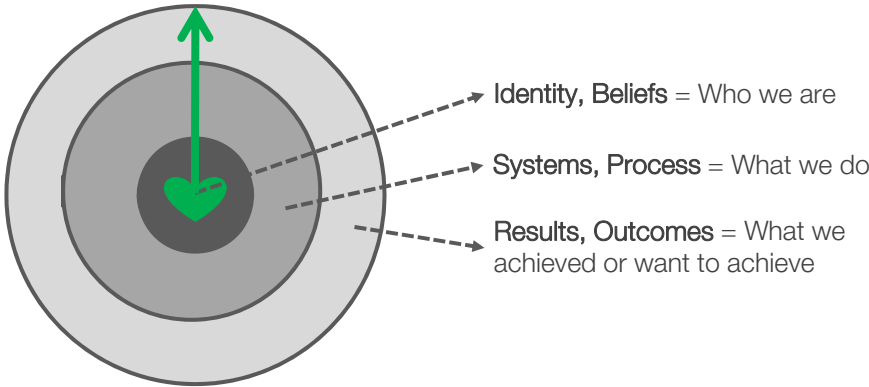
Optimizing global veterinary systems for antimicrobial stewardship

– A critical lens on Cross-Country Regulations

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”the system is greater than the goal”

- James Clear, Atomic Habits

- Antimicrobial resistance (AMR) affects our ability to achieve the sustainable development goals (SDGs)
- Thus AMR is a “wicked” “One Health” problem calling for multisector and interdisciplinary understanding and actions
- “Optimizing” global antimicrobial use (AMU) is seen as a critical part of solving the challenges faced by AMR
- National plans had been formulated/revised within countries with such goals in mind

The FAO-OIE-WHO Collaboration

Sharing responsibilities
and coordinating global activities
to address health risks at the
animal-human-ecosystems interfaces

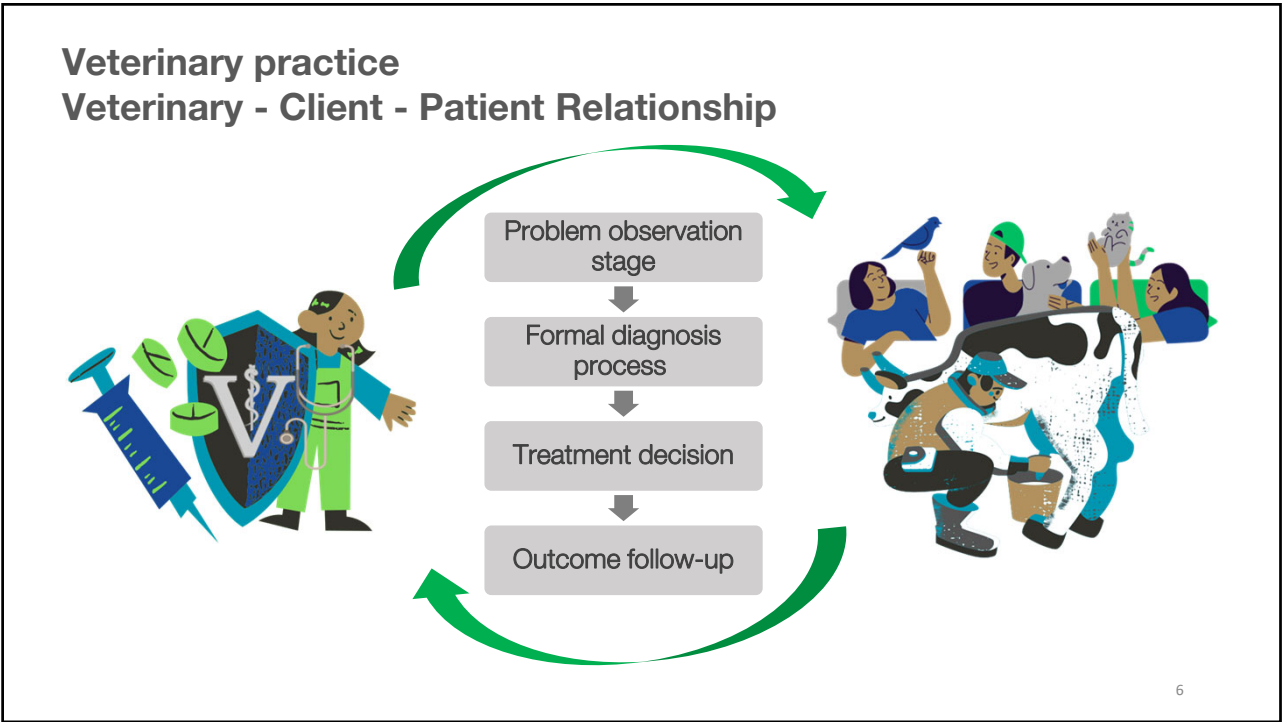
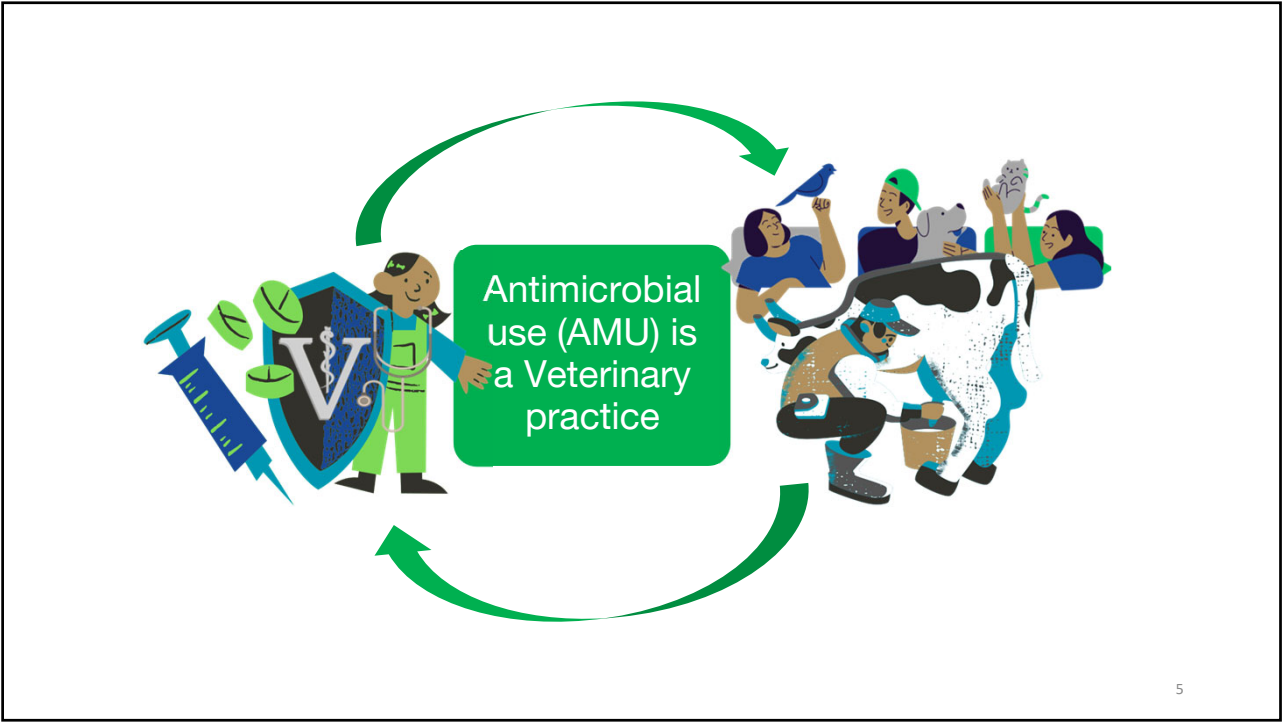
A Tripartite Concept Note



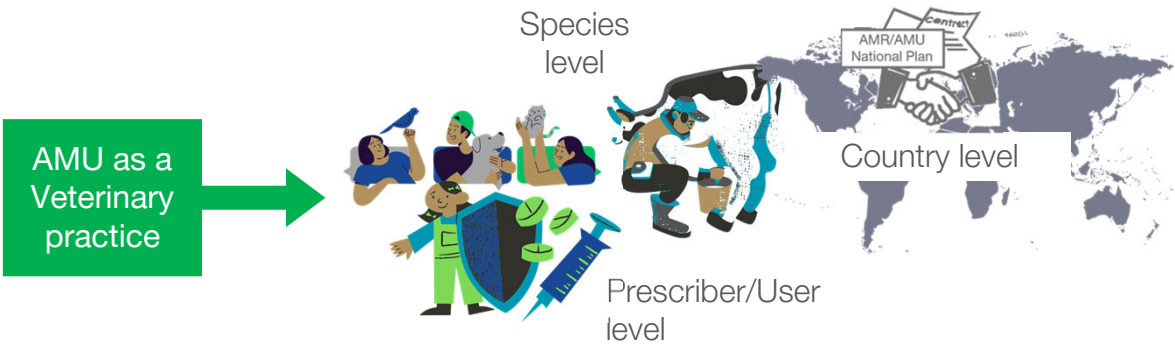
April 2010



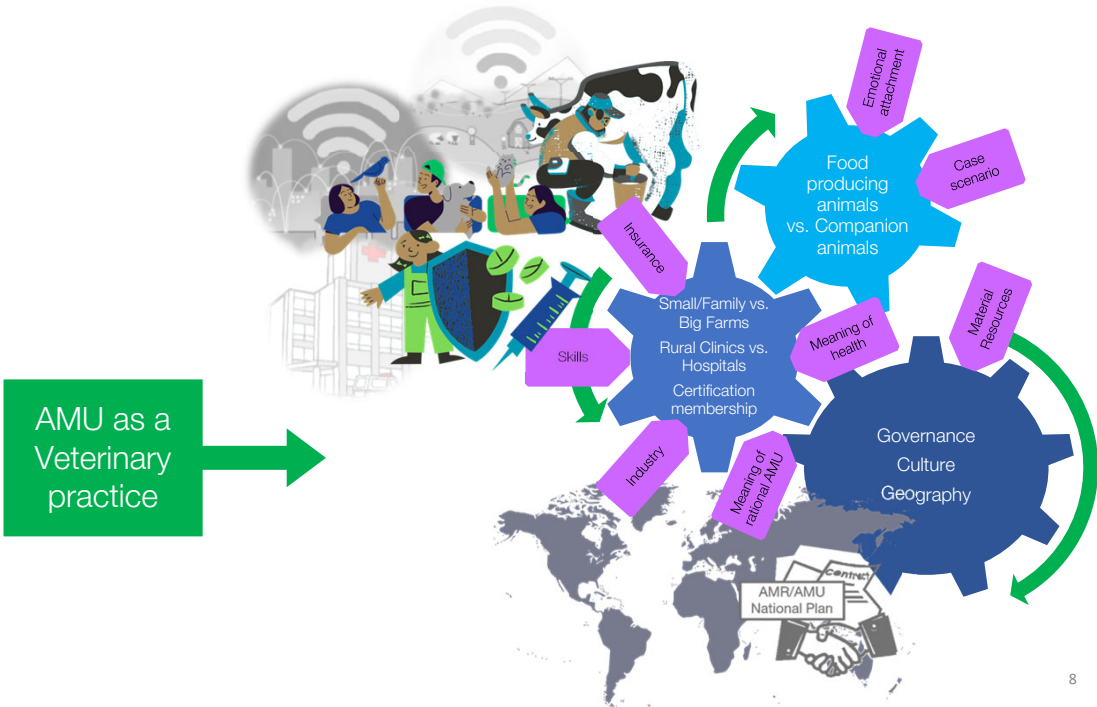
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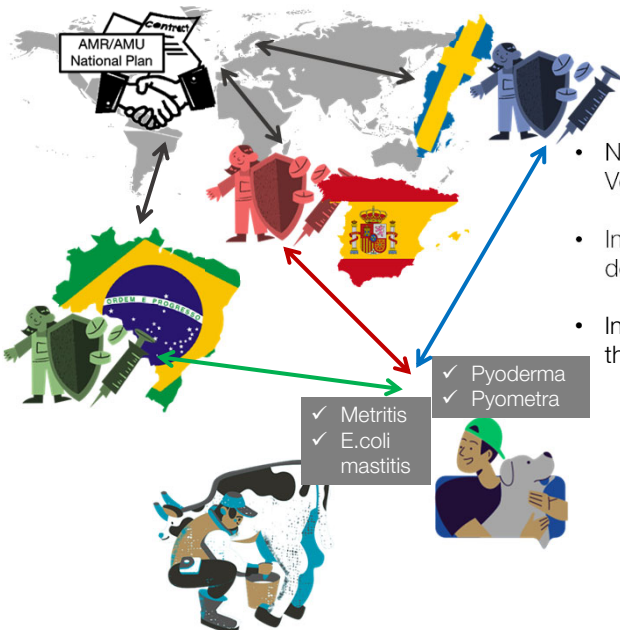
Analytical framework and point of departure =
“Social practice theory”



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Materials & methods

- NPs, legislation and treatment guidelines framing Veterinary AMU were critically appraised
- In-depth interviews (n=20) with dairy cattle and dog/cat veterinary specialists across countries:
- Interview transcriptions and documents were thematically analysed in terms of:
 - A. A shared understanding of AMU/AMR challenges
 - B. Preparedness, adeptness and refinement of AMUVPs based on holistic feedback/outcomes
 - C. Infrastructure
 - D. Guidelines
 - E. Education

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Outlook of NPs across countries




- Planning before 2000's
- Driven by society


National strategy

Research

Society

- ALL ANIMALS
- Legally binding prescriptions for all animals at the point of care
- Special data sharing requirements for Herd level data





- Preparation 2011
- 1st NP in 2014
- Driven by EU policy



National Programme


Human health

Animal health

Environment

- ALL ANIMALS
- Legally binding prescriptions for all animals @ point of care, *telemedicine
- Enforcement focus on livestock
- Legally binding data sharing in the Livestock sector @ herd level





Human health AMR actions (2006)


One health National Plan (2018)

Human Health

Animal Health

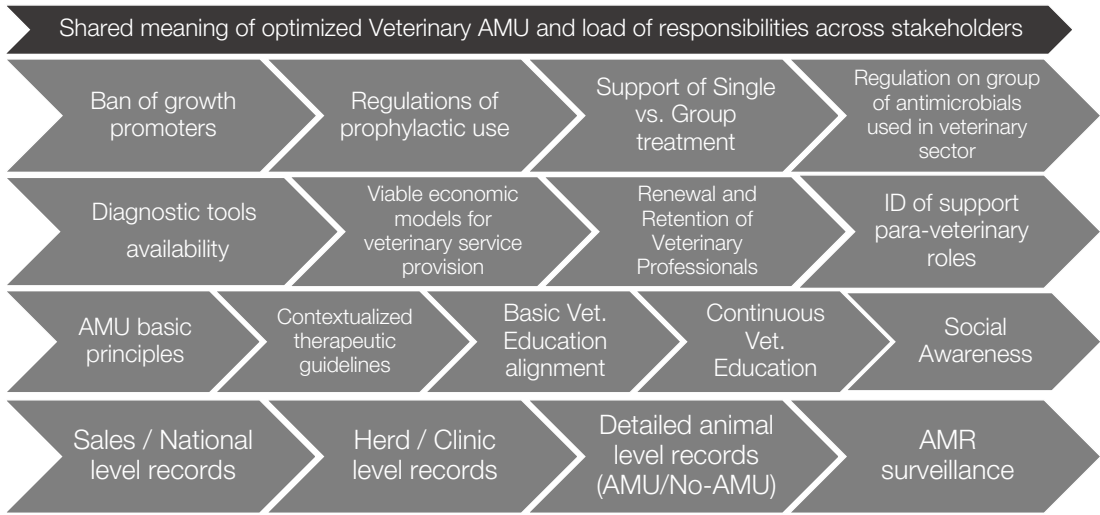
- Driven by International policy
- Focused actions in PIGS and POULTRY vs. Other species
- Legally binding prescriptions for on-farm pharmacy / telemedicine
- Undefined data sharing

EXPORT

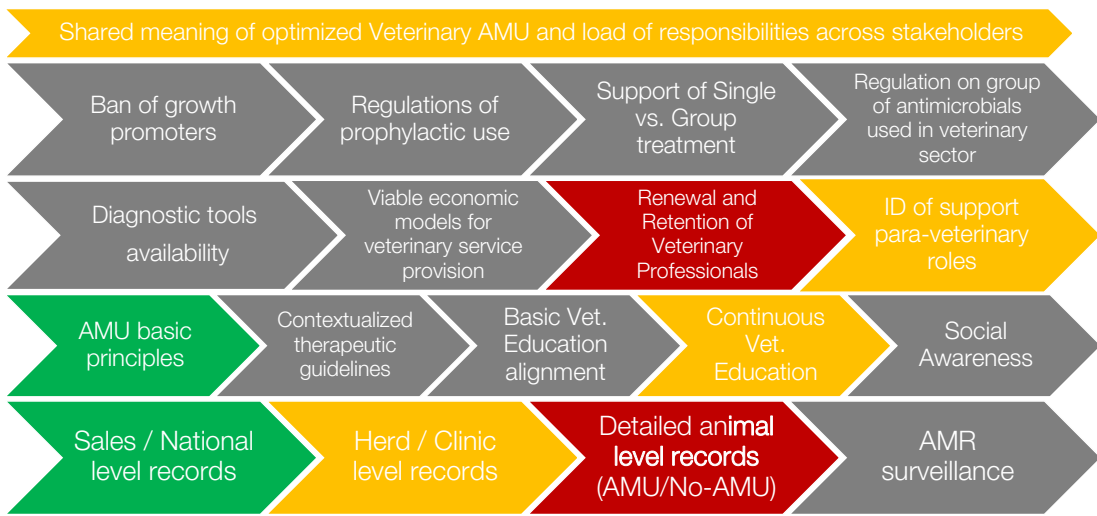


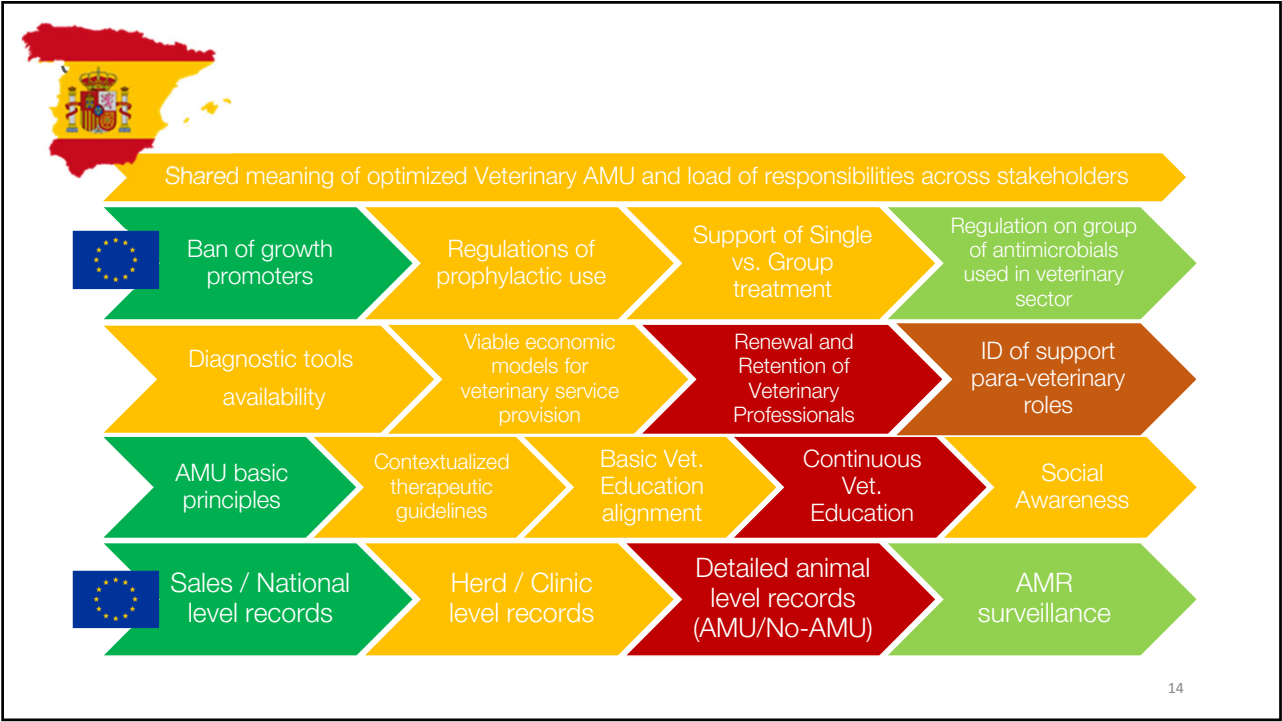
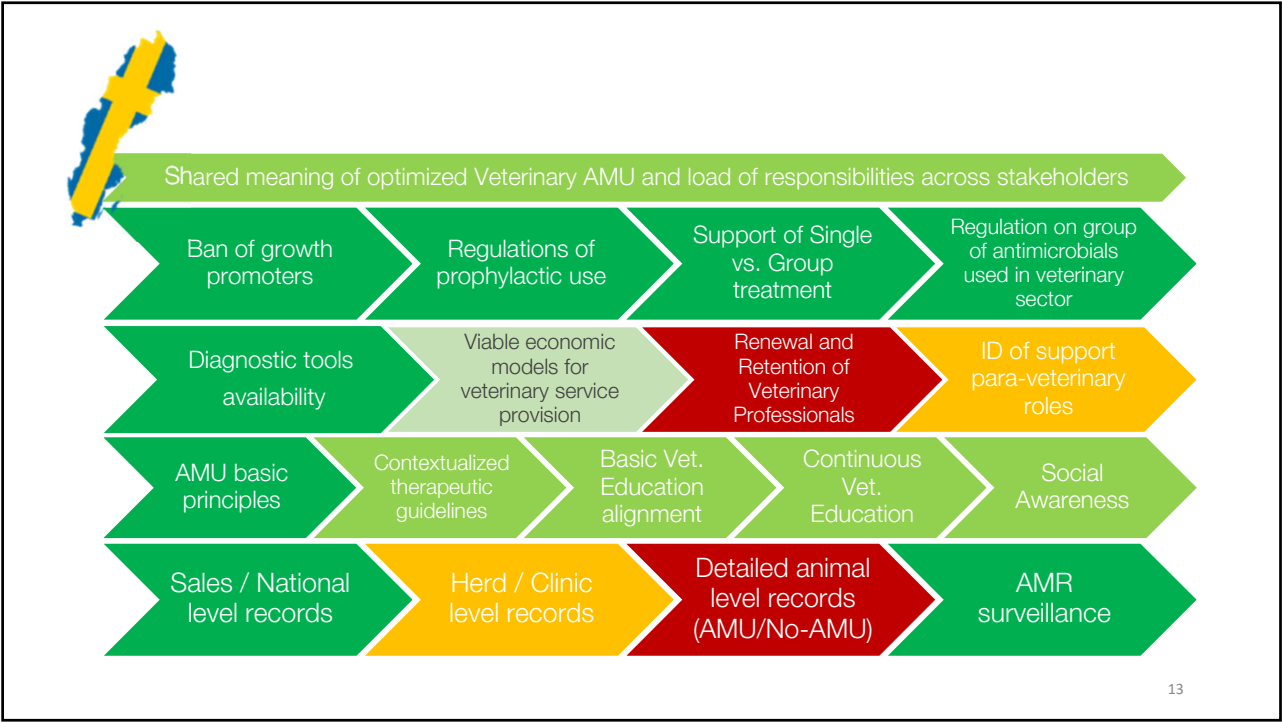
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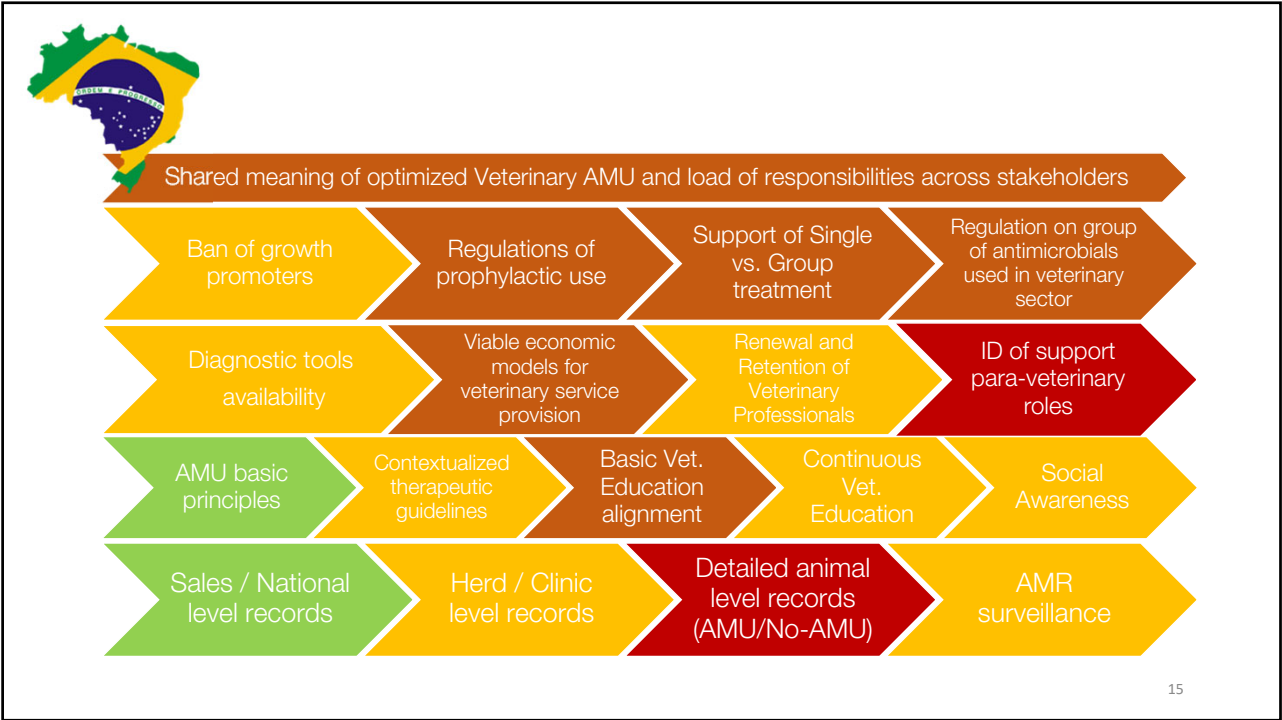
Identified elements necessary to optimize AMU at a country level (aggregated gain approach)



Shared items across countries

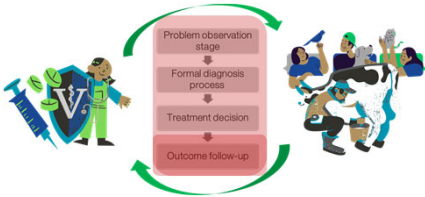






Conclusions

- A cross-country theme is a call to follow the basic principles of AMU, which are based on the assumption that there is a valid veterinary client-patient relationship
- However, **failures are found on at least one of the many steps for such a relationship to be successfully achieved (e.g. recording of outcome follow-up)**

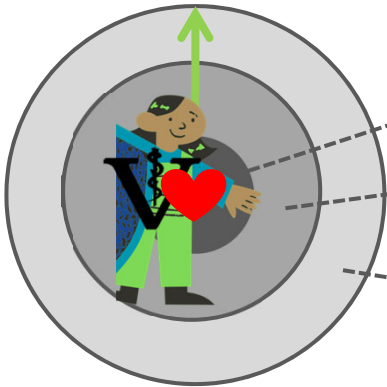


Conclusions



- Guidelines are often based on assumptions unaligned with the prevalent practices or heterogeneity of conditions within their respective countries
- Our finding supports the need for National Plans to be revised based on contextual knowledge of specific settings to be meaningful and practical

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Identity, Beliefs = Who we are

Systems, Process = What we do?
/ How we do it?

Results, Outcomes = What we
achieved or want to achieve

”Strengthen the veterinary system,
and the goal will follow”

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The team



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Henry Buller
(1956 -2023)
Saudade infinita!



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Thanks,
happy to take questions!



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