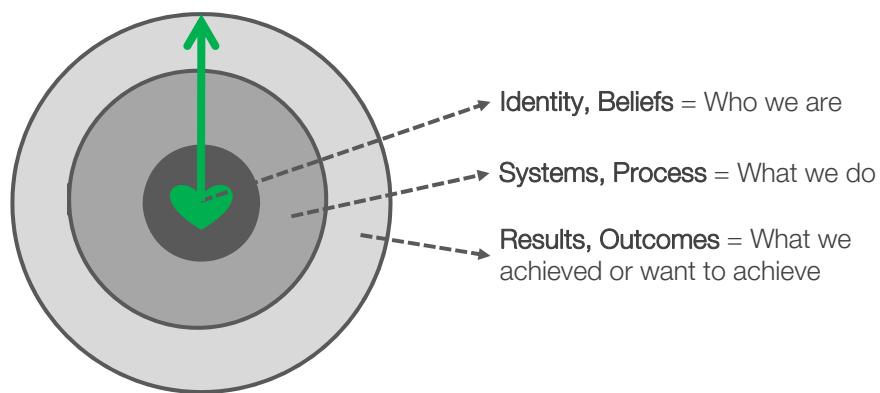


Optimizing global veterinary systems for antimicrobial stewardship – A critical lens on Cross-Country Regulations

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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

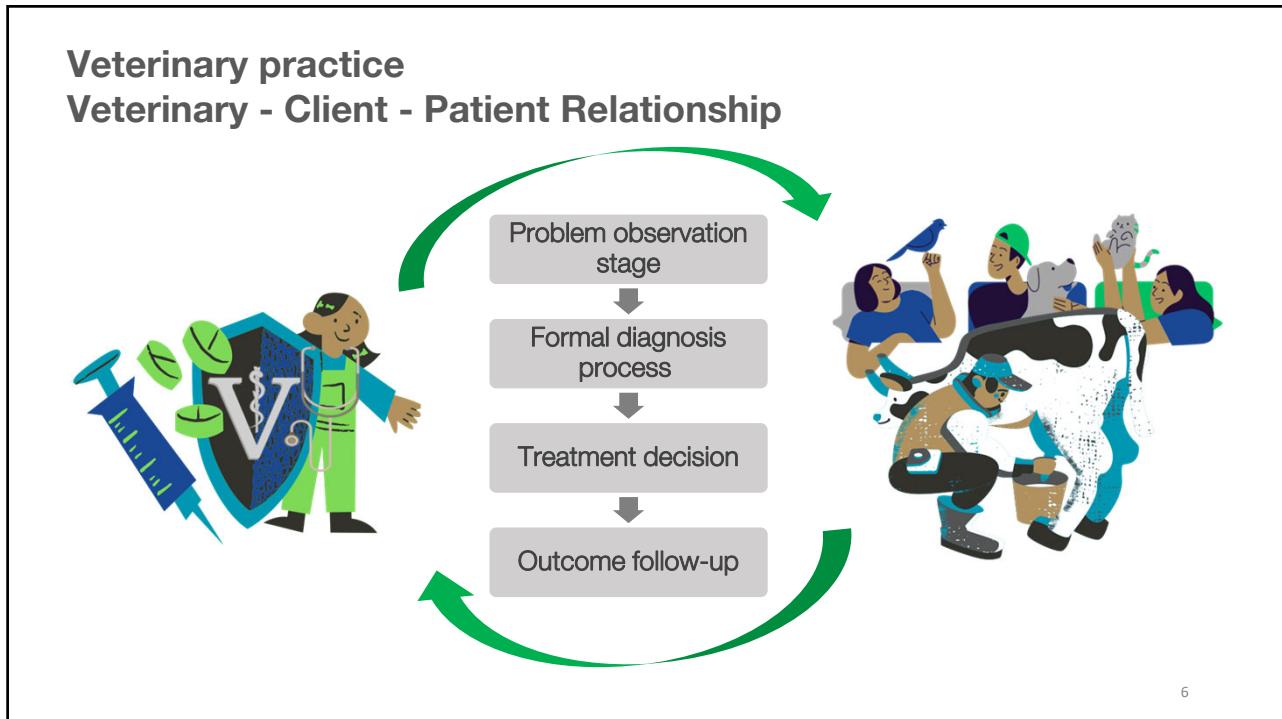
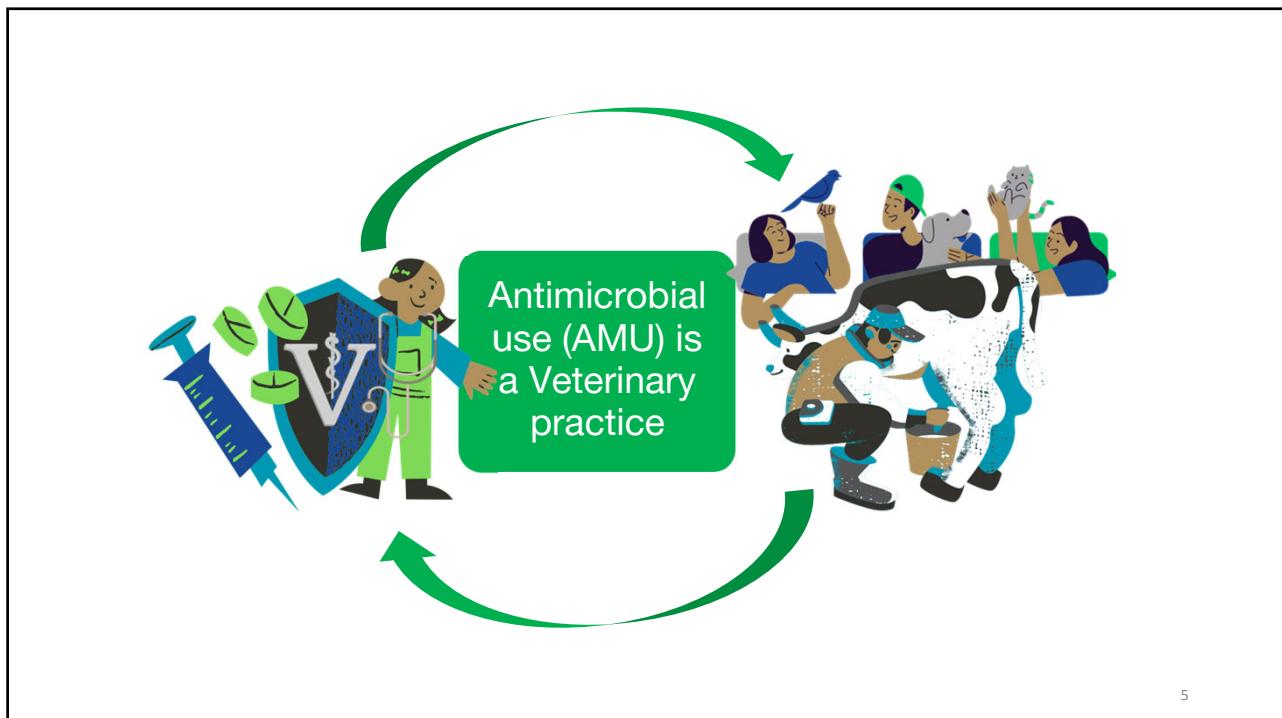


AMR/AMU
National Plan

What do these National
Plans mean to the everyday
AMU veterinary practice
(AMUVP)?



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



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AMU as a
Veterinary
practice



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Materials & methods

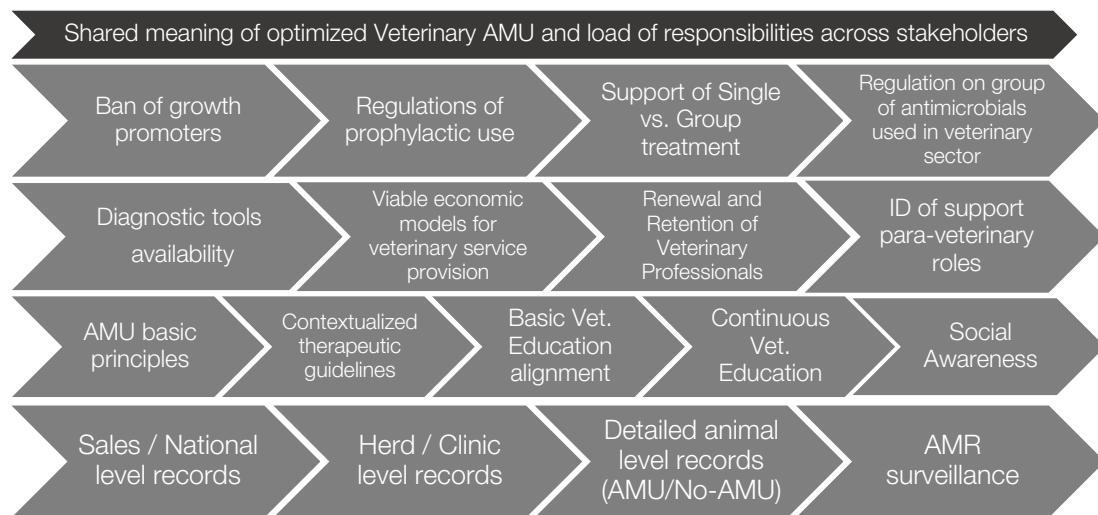
- NPs, legislation and treatment guidelines framing Veterinary AMU were critically appraised
- In-depth interviews (n=20) with dairy cattle and dog/cat veterinary specialists across countries:
- Interview transcriptions and documents were thematically analysed in terms of:
 - A. A shared understanding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

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Outlook of NPs across countries

<ul style="list-style-type: none"> • Planning before 2000's • Driven by society <div style="display: flex; justify-content: space-around; align-items: flex-start;"> <div style="border: 1px solid black; padding: 5px; margin-right: 10px;"> National strategy </div> <div style="border: 1px solid black; padding: 5px; margin-right: 10px;"> Research </div> <div style="border: 1px solid black; padding: 5px; margin-right: 10px;"> Society </div> </div> <ul style="list-style-type: none"> • ALL ANIMALS • Legally binding prescriptions for all animals at the point of care • Special data sharing requirements for Herd level data 	<ul style="list-style-type: none"> • Preparation 2011 • 1st NP in 2014 • Driven by EU policy <div style="display: flex; justify-content: space-around; align-items: flex-start;"> <div style="border: 1px solid black; padding: 5px; margin-right: 10px;"> National Programme </div> <div style="border: 1px solid black; padding: 5px; margin-right: 10px;"> Human health </div> <div style="border: 1px solid black; padding: 5px; margin-right: 10px;"> Animal health </div> <div style="border: 1px solid black; padding: 5px; margin-right: 10px;"> Environment </div> </div> <ul style="list-style-type: none"> • 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 	<div style="display: flex; justify-content: space-around; align-items: flex-start;"> <div style="border: 1px solid black; padding: 5px; margin-right: 10px;"> Human health AMR actions (2006) </div> <div style="border: 1px solid black; padding: 5px; margin-right: 10px;"> One health National Plan (2018) </div> </div> <ul style="list-style-type: none"> • Driven by International policy • Focused actions in PIGS and POULTRY vs. Other species • Legally binding prescriptions for on-farm pharmacy / telemedicine • Undefined data sharing <div style="text-align: center;"> EXPORT </div> <p>10</p>
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Identified elements necessary to optimize AMU at a country level (aggregated gain approach)

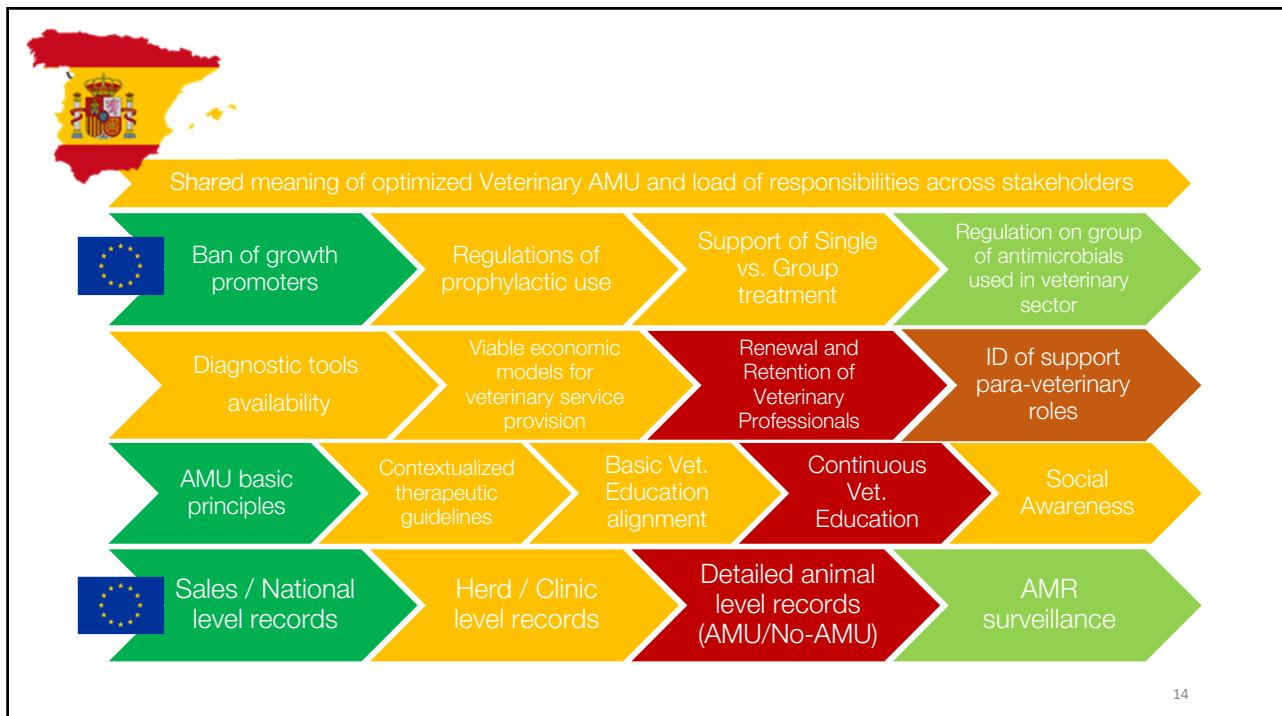
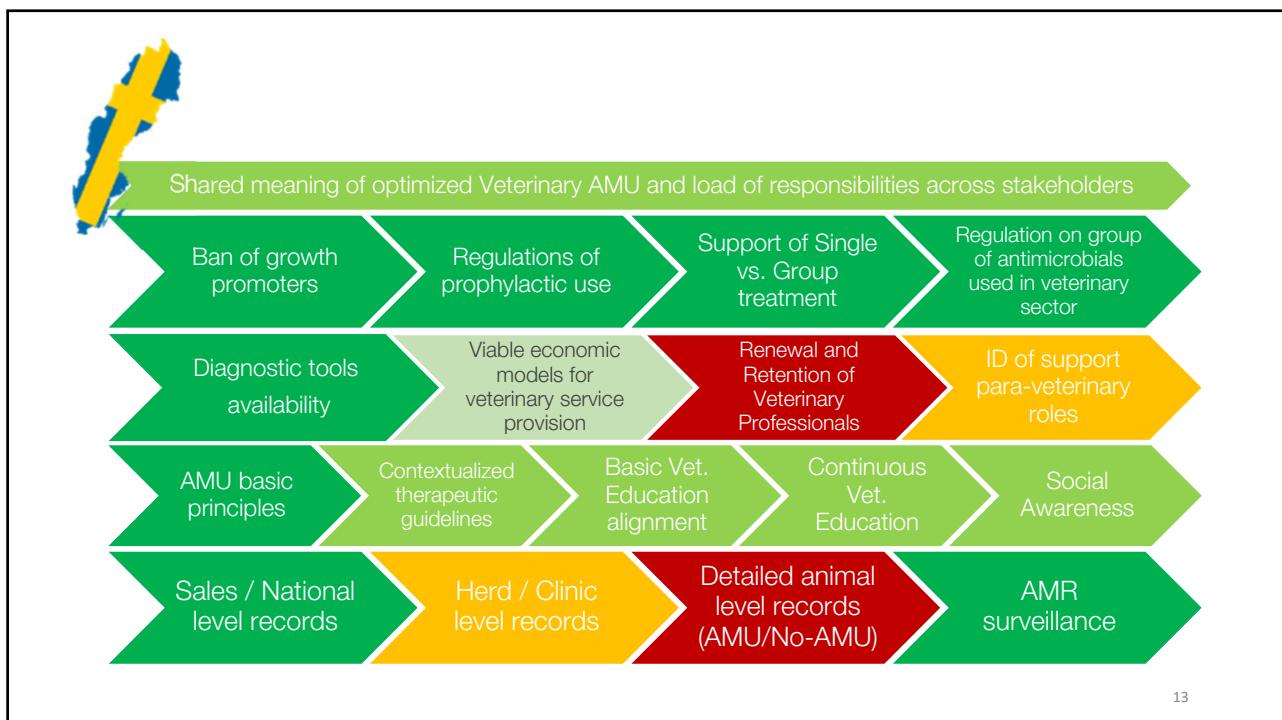


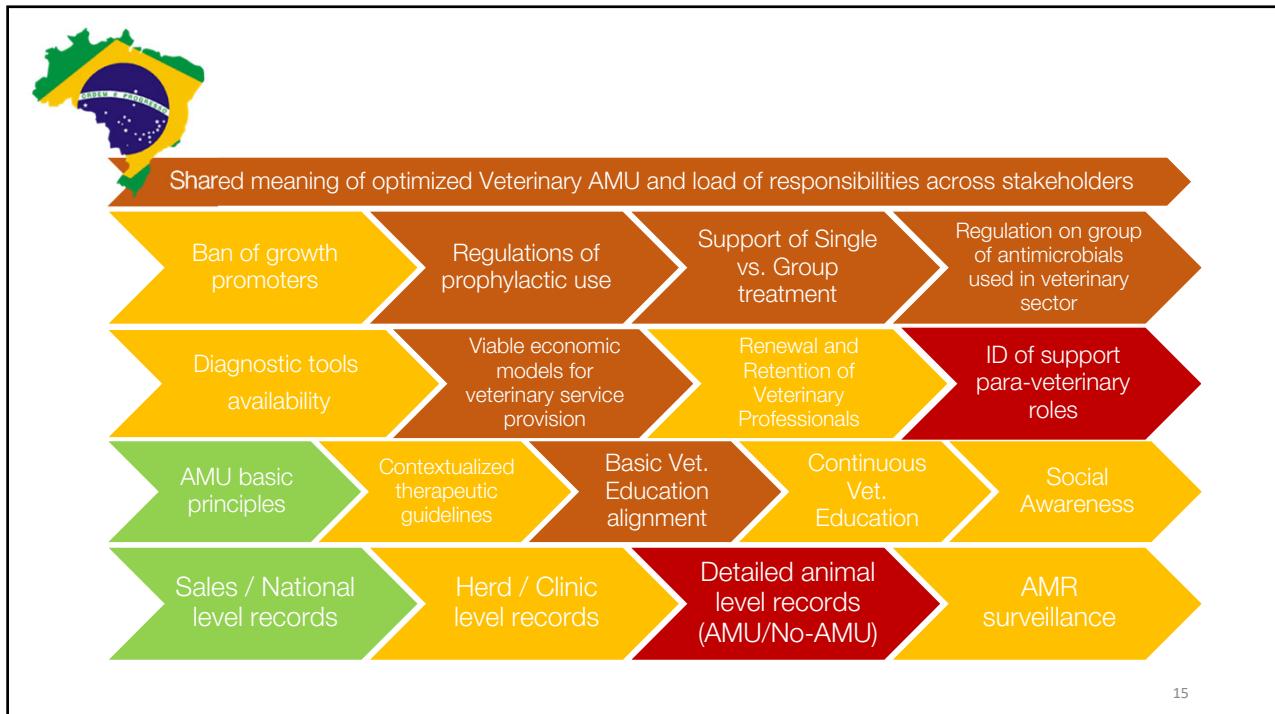
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Shared items across countries



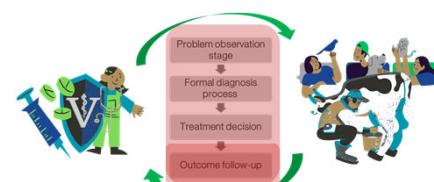
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Conclusions

- 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)**



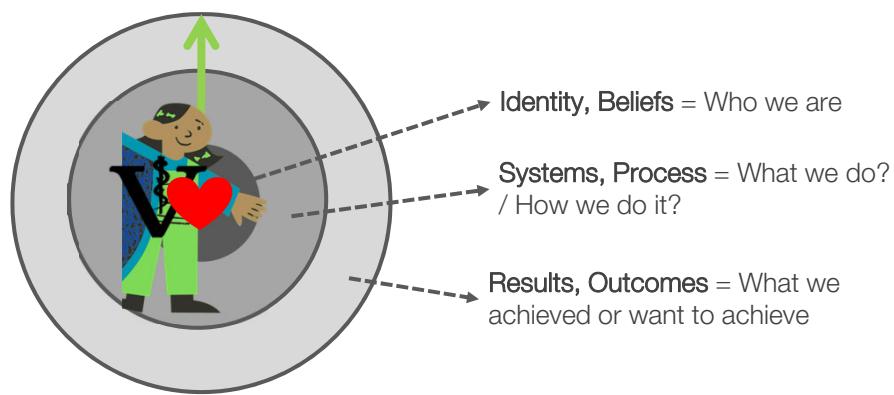
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Conclusions



- 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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**"Strengthen the veterinary system,
and the goal will follow"**

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The team

Rita de Albernaz
Gonçalves da Silva

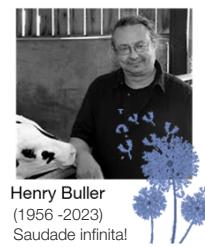
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Saudade infinita!

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Funded by



Thanks,
happy to take questions!



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