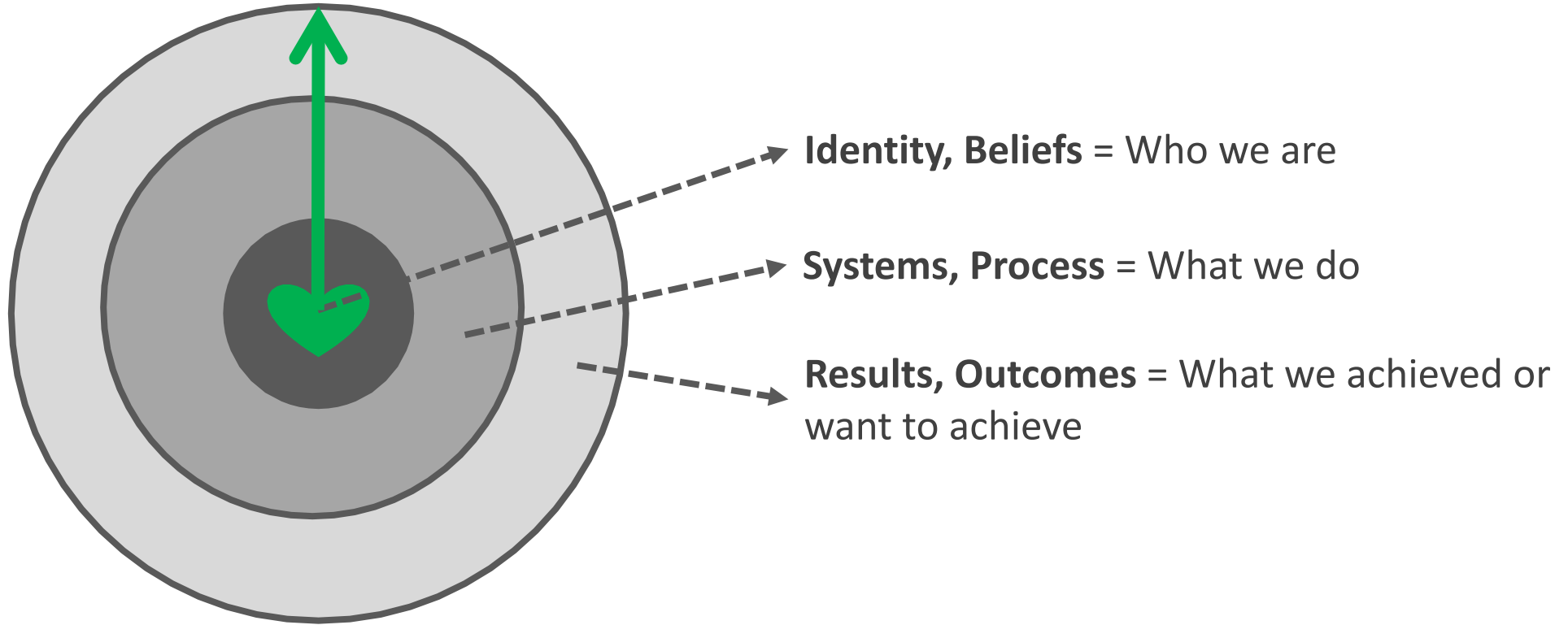


A critical lens to regulations around veterinary antimicrobial use across countries and species

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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



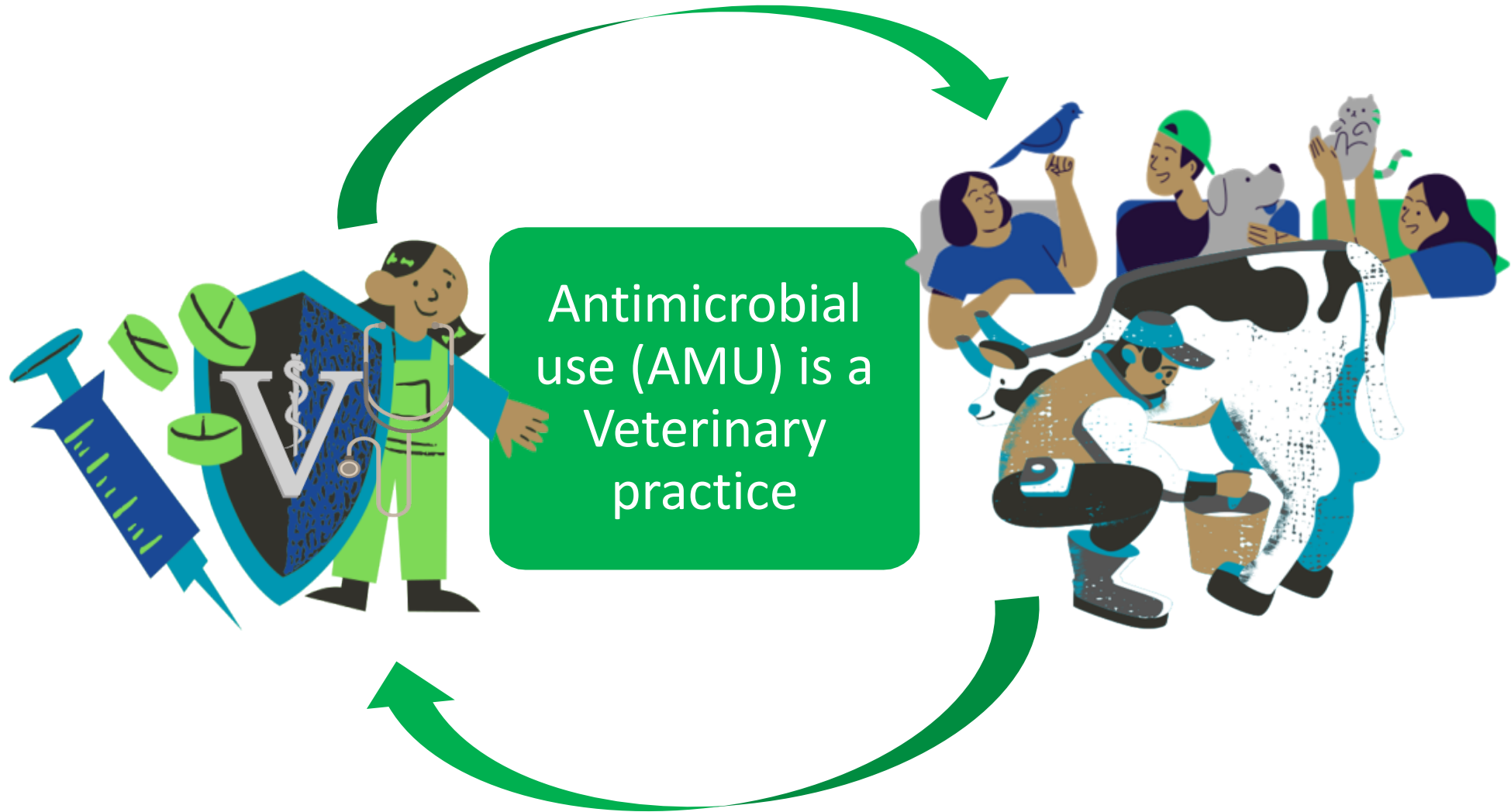
April 2010



AMR/AMU
National Plan

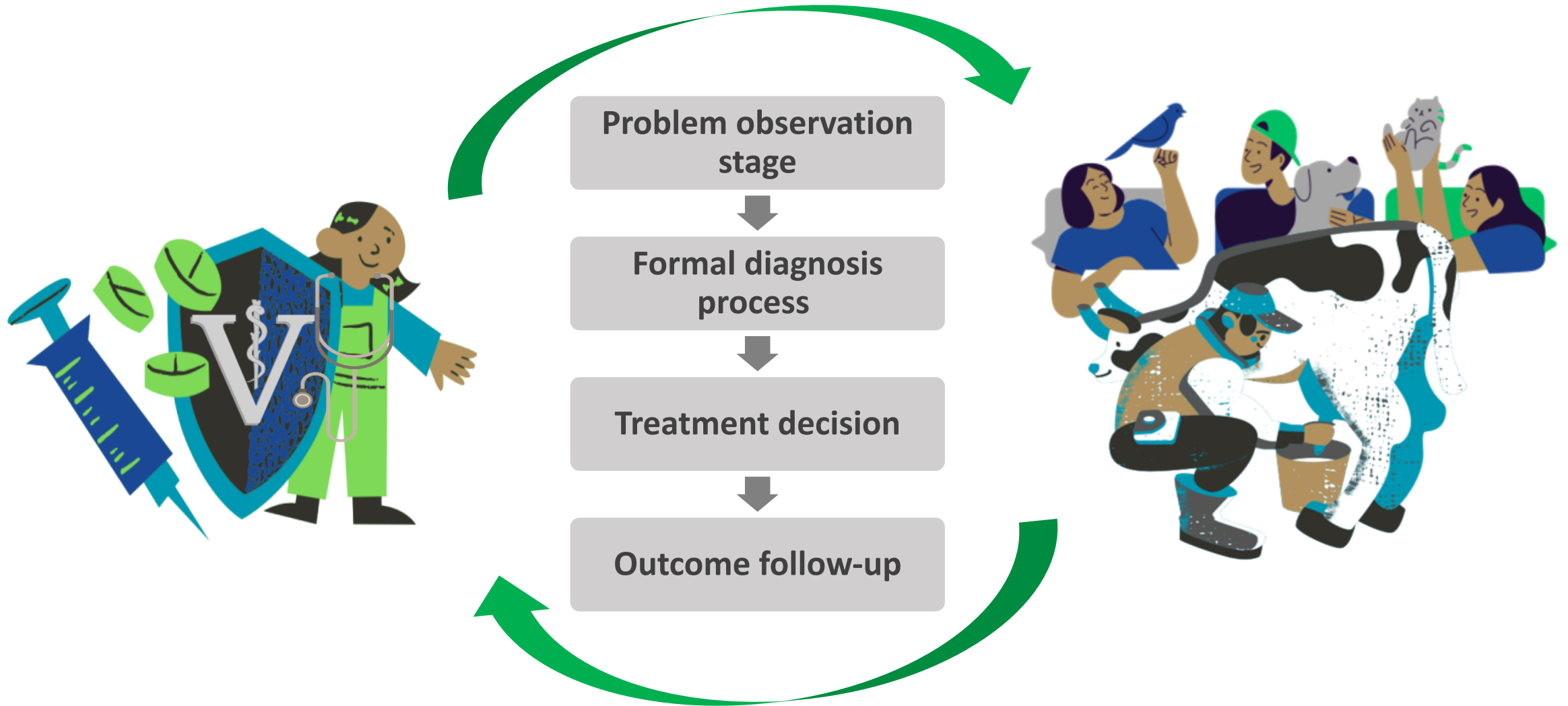
What do these National Plans
mean to the everyday AMU
veterinary practice (AMUVP)?





Veterinary practice

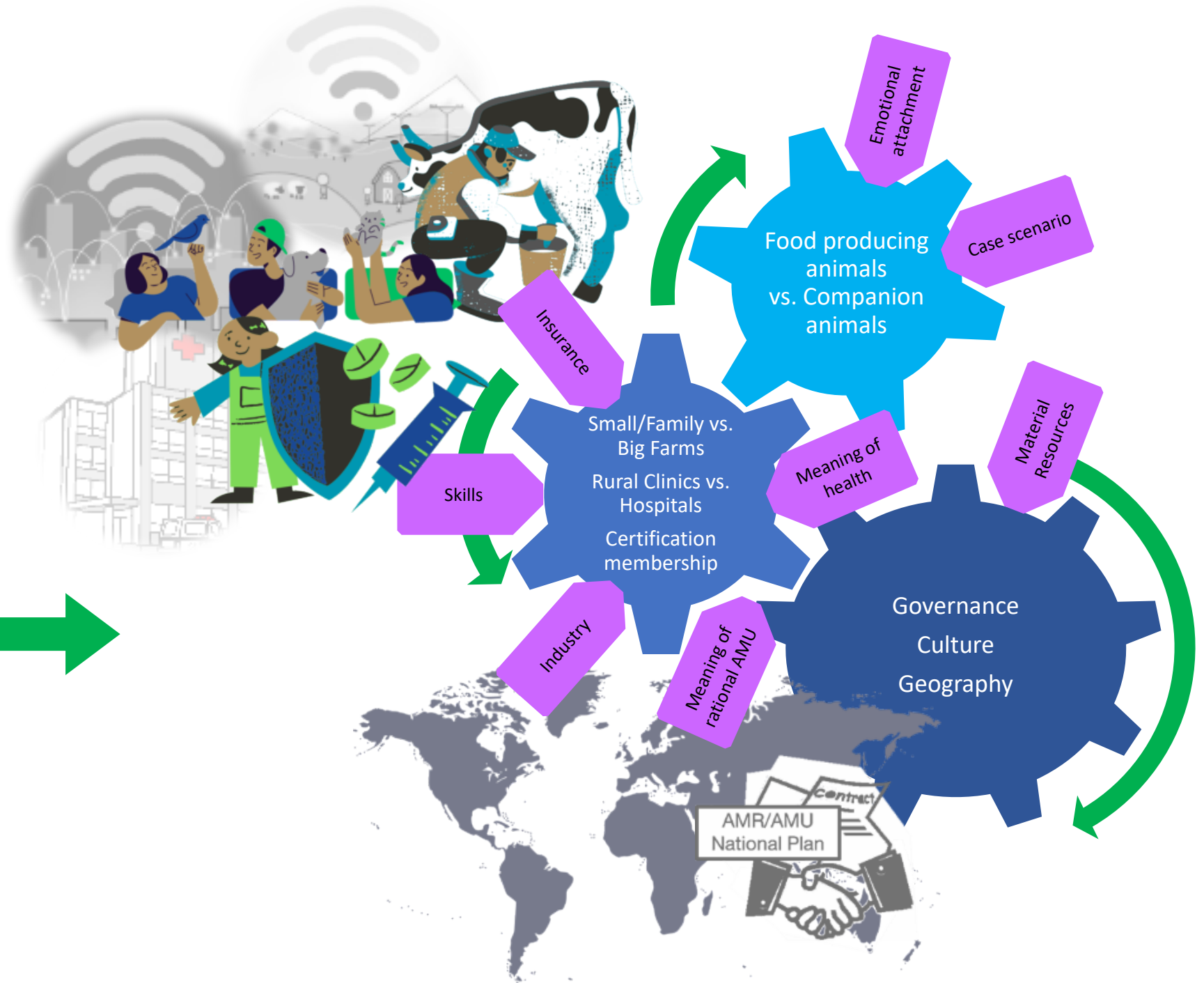
Veterinary - Client - Patient Relationship

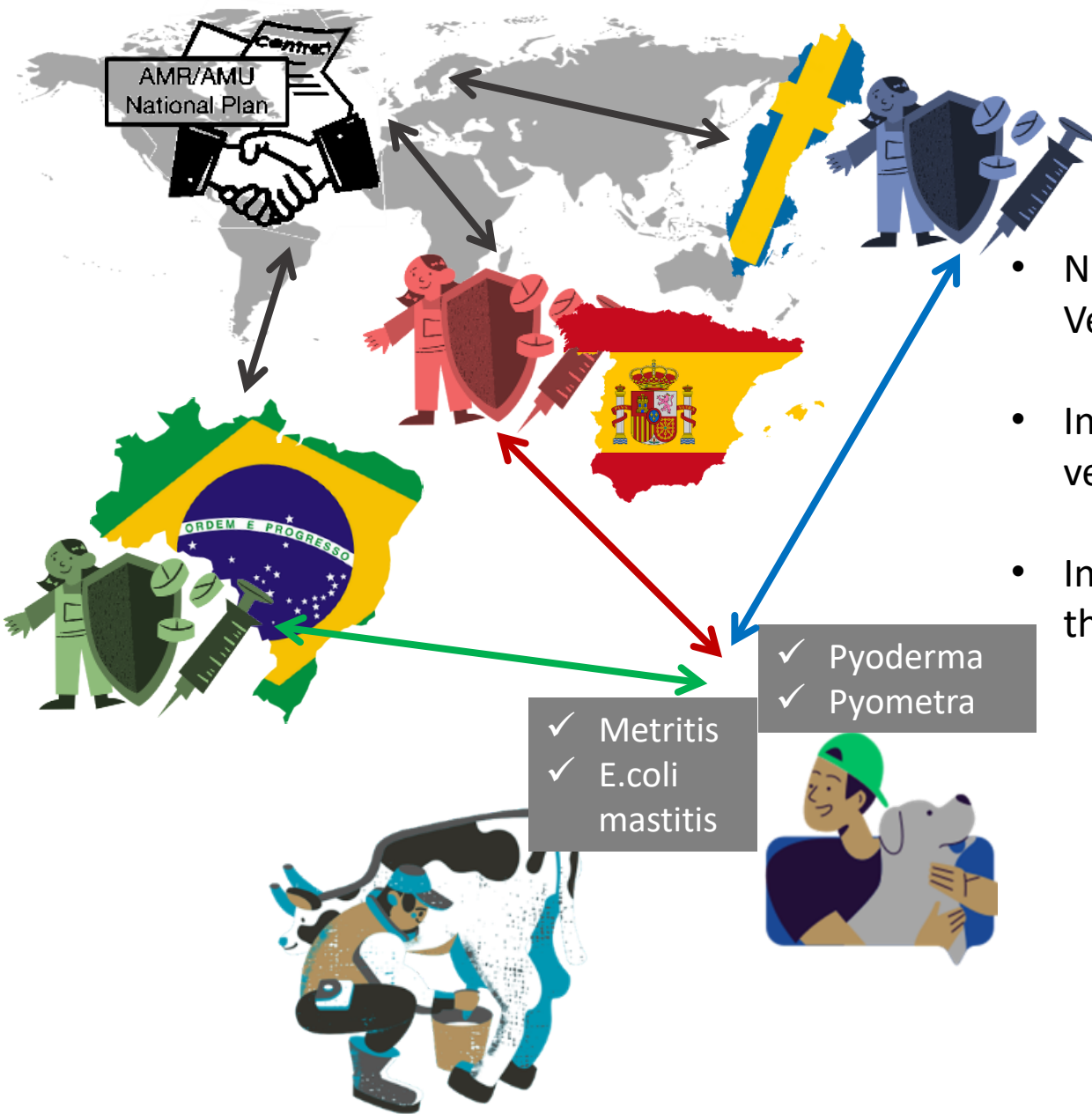


Analytical framework and point of departure = “Social practice theory”



AMU as a
Veterinary
practice





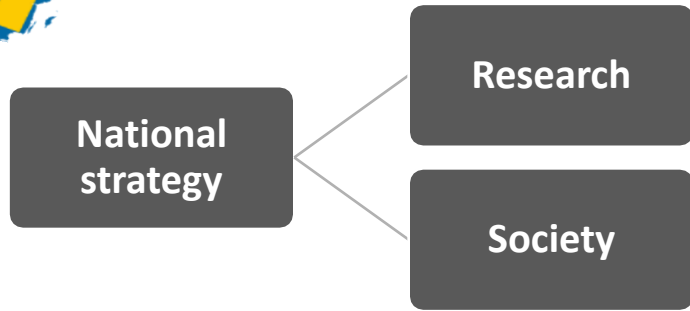
Materials & methods

- 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**

Outlook of NPs across countries



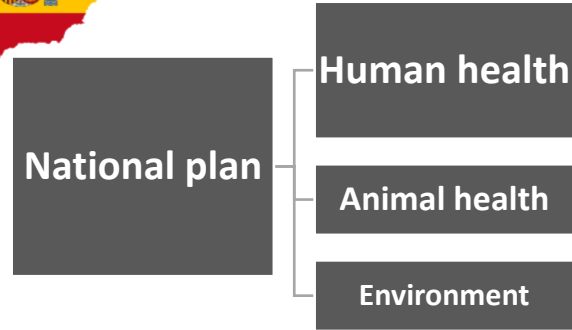
- Planning before 2000's
- Driven by society



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



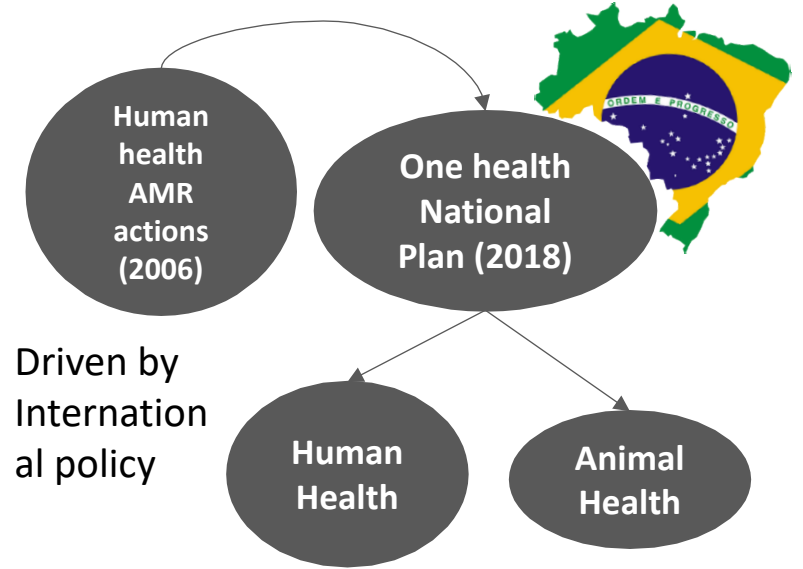
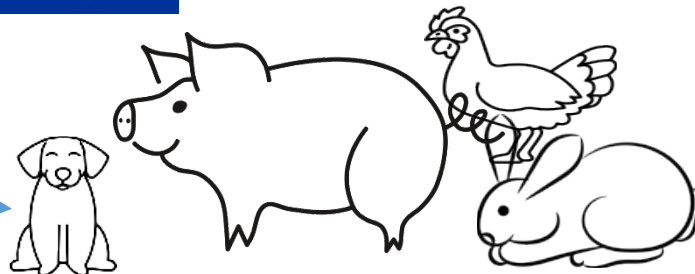
- Preparation 2011
- 1st NP in 2014
- Driven by EU policy



- 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



EXPORT



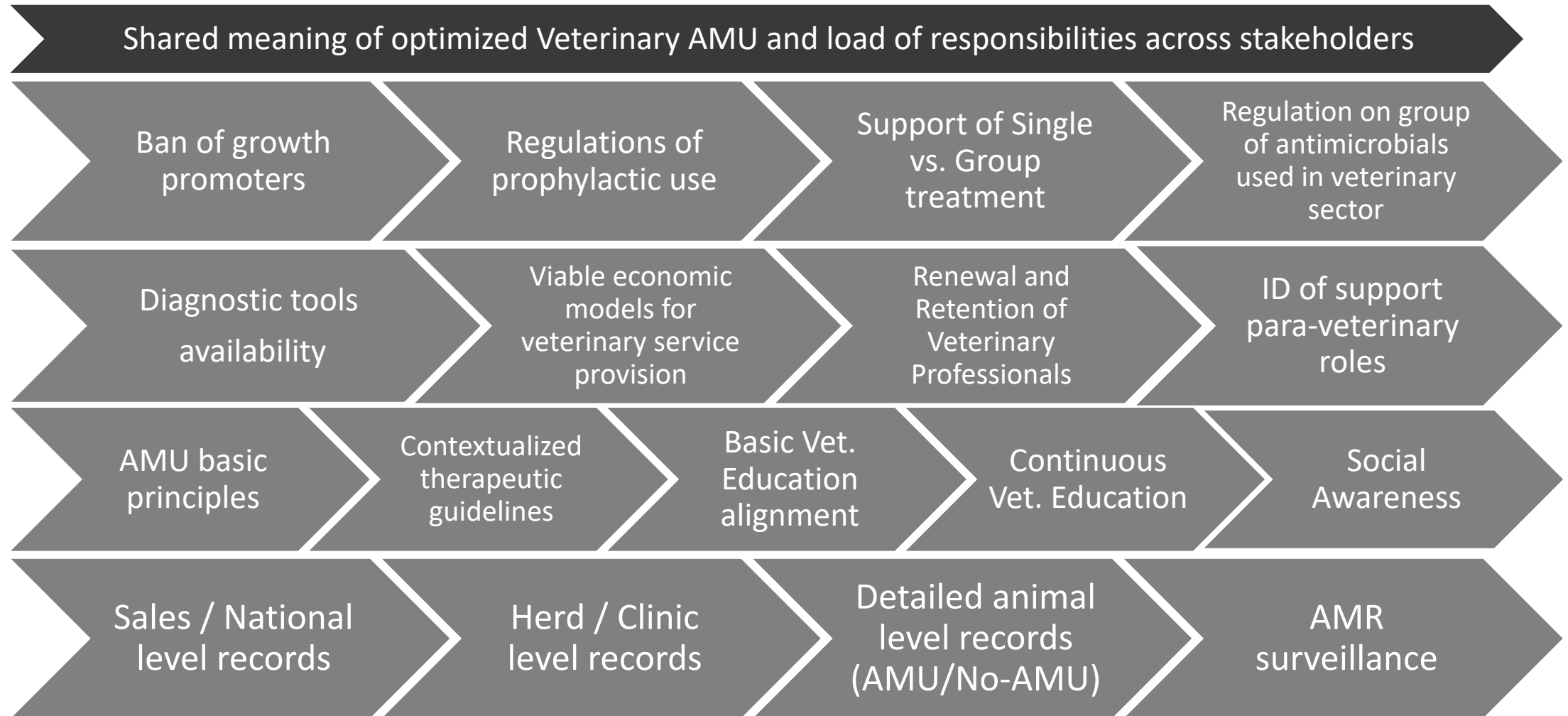
- Driven by International policy

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

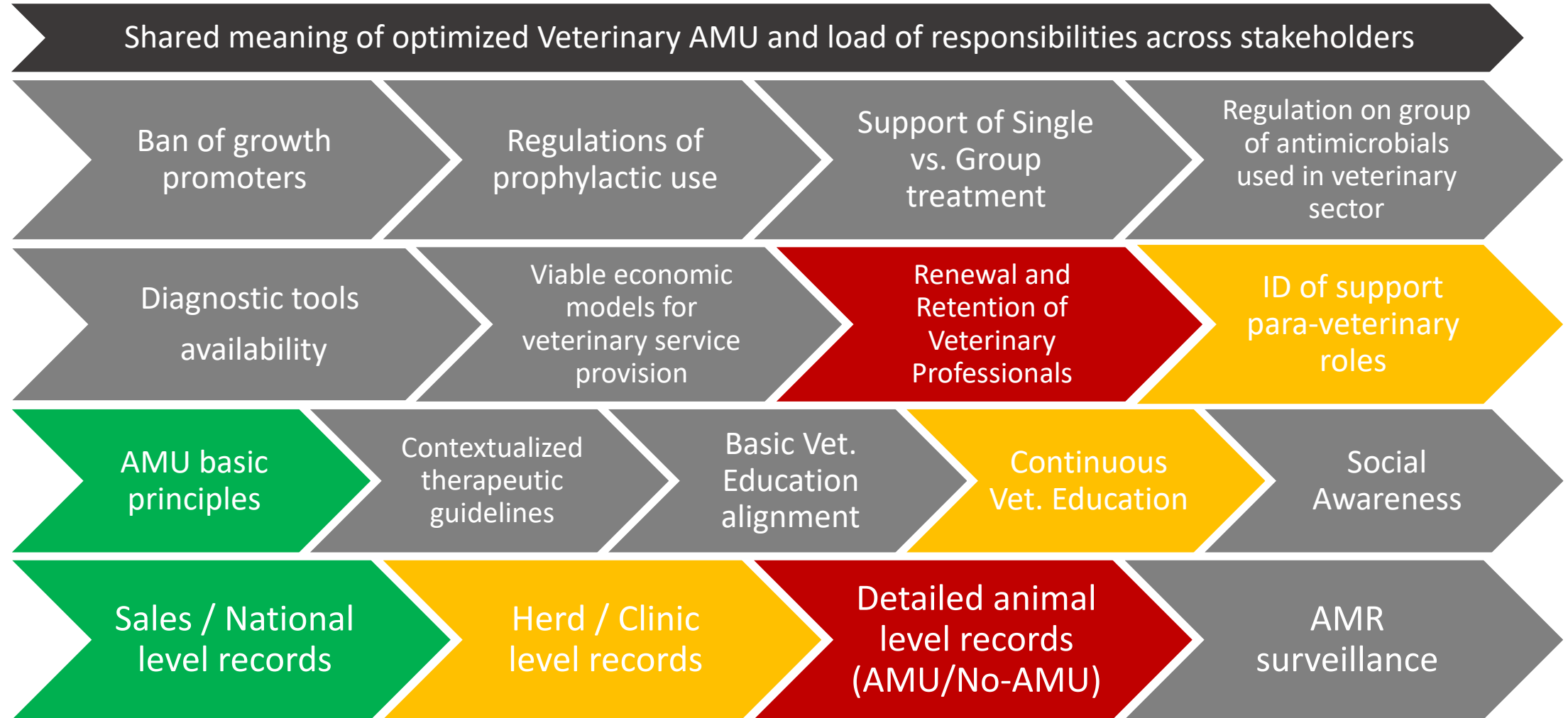
EXPORT



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



Shared items across countries





Shared meaning of optimized Veterinary AMU and load of responsibilities across stakeholders

Ban of growth promoters

Regulations of prophylactic use

Support of Single vs. Group treatment

Regulation on group of antimicrobials used in veterinary sector

Diagnostic tools availability

Viable economic models for veterinary service provision

Renewal and Retention of Veterinary Professionals

ID of support para-veterinary roles

AMU basic principles

Contextualized therapeutic guidelines

Basic Vet. Education alignment

Continuous Vet. Education

Social Awareness

Sales / National level records

Herd / Clinic level records

Detailed animal level records (AMU/No-AMU)

AMR surveillance



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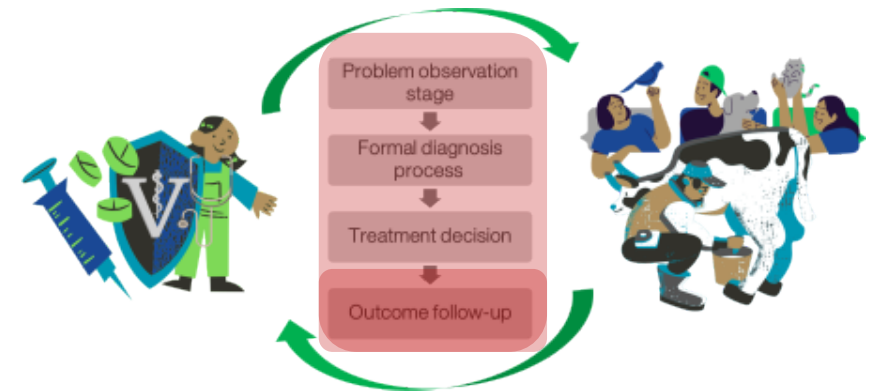
Herd / Clinic level records

Detailed animal level records (AMU/No-AMU)

AMR surveillance

Conclusions

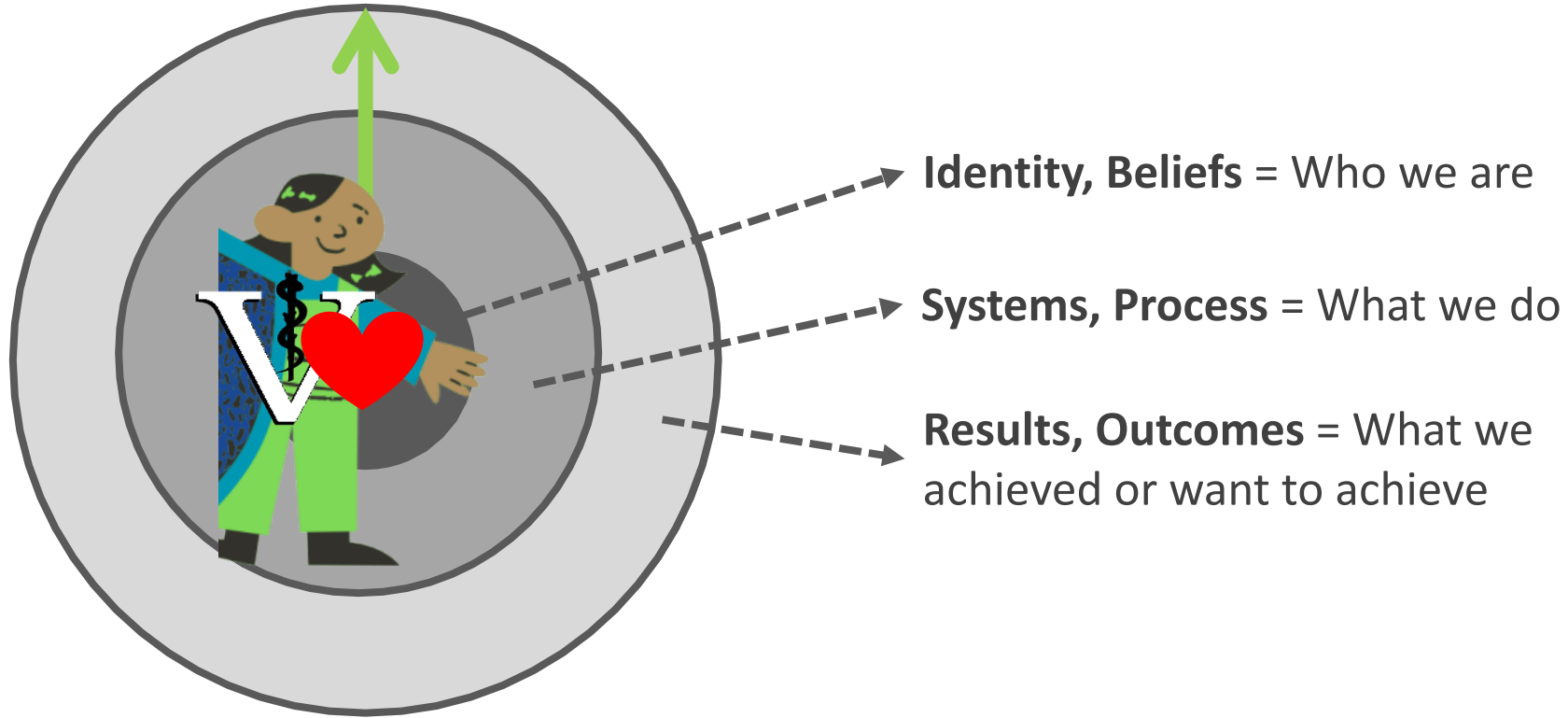
- A cross-country theme is a call to follow the basic principles of AMU, which are based on the assumption that there is a valid veterinary client-patient relationship
- However, **failures are found on at least one of the many steps for such a relationship to be successfully achieved (e.g. recording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



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

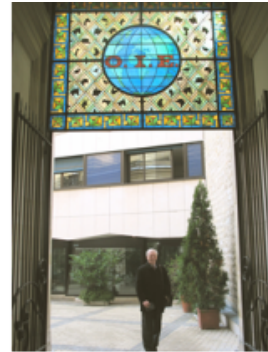
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Henry Buller
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Saudade infinita!



Miguel A. Moreno



Jo Hockenull



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Thanks,
happy to take questions!



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SUSTAINABLE
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