A participatory assessment of strategies and technologies to reduce antibiotic use: drafting the European State-of-the-Art

disarm

Ilias Chantziaras[1], Lisa Morgans[2], Helena Ferreira[3], Francesca Neijenhuis[4], Marc Bracke[4]

[1] Veterinary Epidemiology Unit, Ghent University, [2] Innovation for Agriculture, United Kingdom, [3]Flanders Research Institute for Food and Agriculture, [4]Wageningen University and Research

Why?

to reduce antimicrobial use (AMU) and improve animal health on farms, including strategies and technologies developed by farmers, industry and researchers.

What?

A library of **open access** information has been developed, which can be used by farmers and their advisors to access information on strategies to reduce antimicrobial use and subsequently antimicrobial resistance.

Process

Data inclusion

Multi-participatory approach

Included:

- ✓ Farm innovations
- ✓ Industry innovations
- ✓ Research
- ✓ Tools & checklists

511 entries

Data subdivided in 10 primary categories

- Biosecurity
- Breeding
- Pathogen management
- Specific alternatives
- Housing and welfare
- AMU reduction strategies
- Feed/ Gut Health
- Prudent Use
- Precision Livestock Farming
- Water management

State of the Art

- ✓ Online
- ✓ Freely available
- ✓ EU content
- ✓ Accessible database

Each entry includes data on:

- ✓ Animal species
- ✓ Location (country)
- ✓ Cost benefit (€ £)
- ✓ Applicability / practicality
- ✓ Innovation rating
- ✓ ….

Report

Communication, dissemination and exploitation

- Best practice abstracts
- Videos
- Cross-border exchange
- Best practice guides
- Web and social media content
- Events & workshops

Remarks

- A participatory approach, input from:
  - ✓ consortium
  - ✓ community of practice (>500 members)
- Most entries for “AMU reduction strategies” and “prudent use of AMs”
- Beef cattle and sheep/goat are underrepresented in the database

Get Involved

Join our Community of Practice

Join our Facebook Group

Follow us on Twitter

About DISARM

DISARM is a Horizon2020 thematic network project (2019-2021). It works with multiple actors to develop a community of practice and disseminate widely the most cost- effective and beneficial strategies to reduce antibiotic resistance.

DISARM partners, coordinated by ILVO

www.disarmproject.eu

This project has received funding from the European Union’s Horizon 2020 research and innovation programme under Grant Agreement No 817591