

CA18105



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Risk-based meat inspection and
integrated meat safety assurance

Prudent use of antimicrobials Farm Interventions Case Study 2

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- **Aim: Overview of antimicrobial use (AMU) surveillance and control systems & Introduction to Systems Thinking**

- Countries: Greece & Spain
- Selected livestock species: pigs
- 15 questions to address
- Q1-12: country-specific questions
- Q13-15 of particular interest for discussion
- Information retrieved mainly from the 11th ESVAC (European Surveillance of Veterinary Antimicrobial Consumption) report

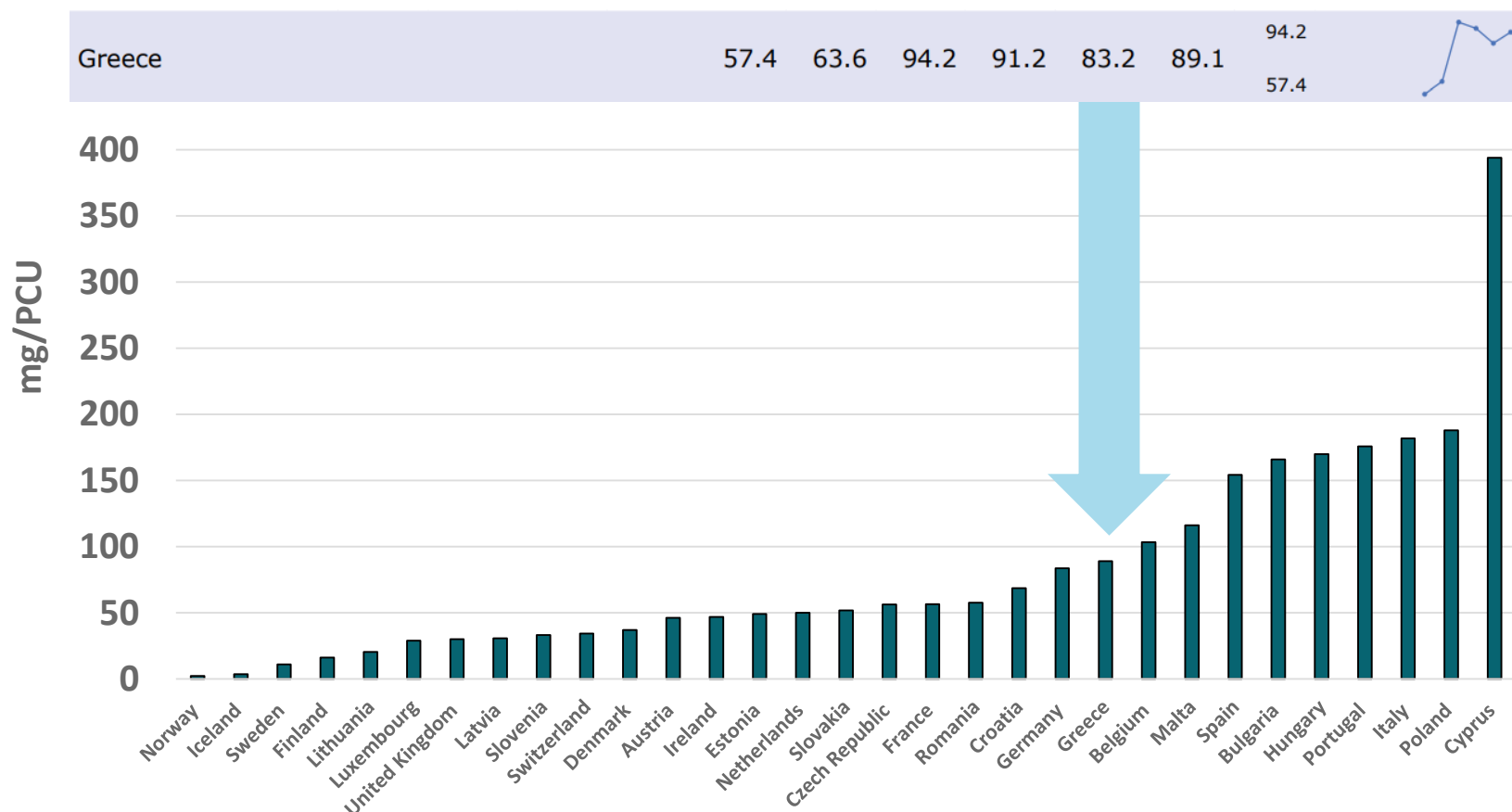


- Where is your country located (mg antimicrobials/PCU) on the ESVAC comparison figure?
- Has there been a change in the location on the figure during the last 6 years?
- Is monitoring for AMU in place in your country? If yes, since which year?
- Is it a monitoring programme or a surveillance programme?
- Is the use in the species subdivided into age groups? If so, how many groups are there?
- Are certain legal veterinary antimicrobials prohibited or limited in use?
- Are veterinarians earning parts of their income on selling antimicrobials? AMU by prescription only?
- Which actions have been taken at the producer, sectorial and national levels?

■ **Greece:** not much changed during the last 5-years

- 2015: 57.4 mg/PCU
- 2020: 89.1 mg/PCU

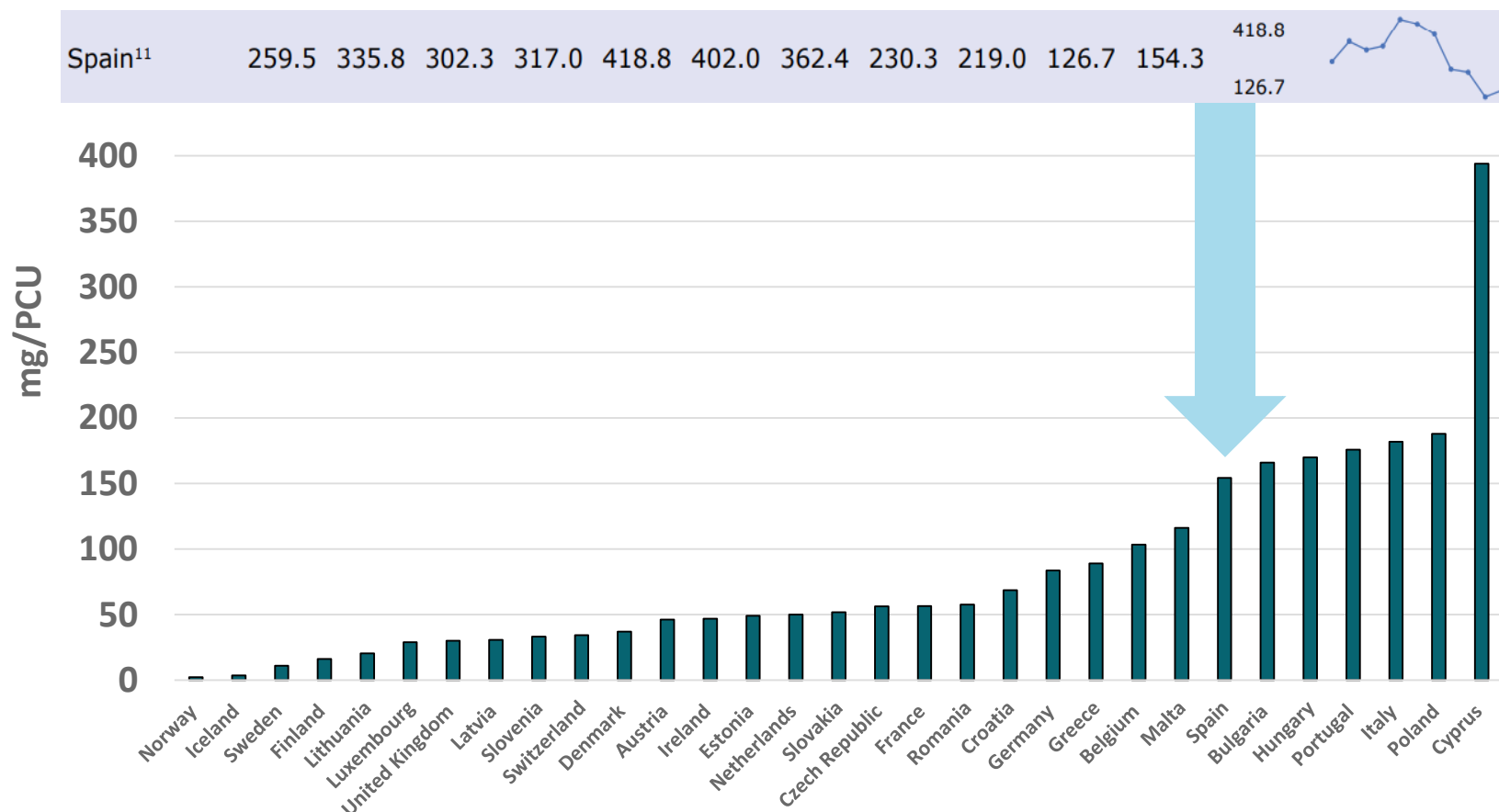
*PCU: population correction unit



■ **Spain:** great reduction observed during the last 5-years

- 2015: 420.0 mg/PCU
- 2020: 154.3 mg/PCU

*PCU: population correction unit

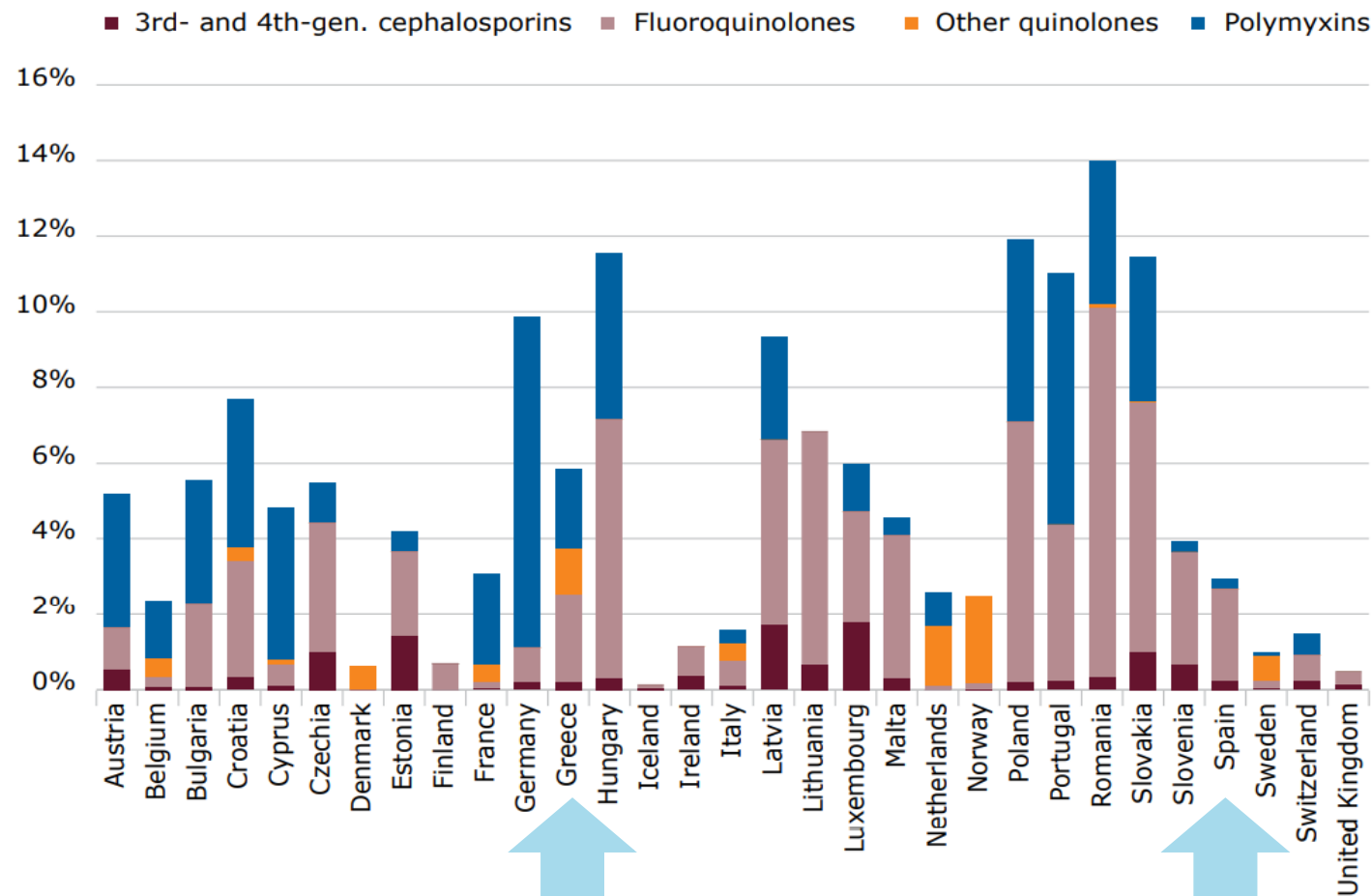


- Report is about the **sales of antimicrobials** per country → Limited information on:
 - Collection of species-specific AMU data - division into age groups (N)
 - Whether monitoring programmes are in place (N)
 - Actions taken at the livestock producer/sectorial/national levels (Greece: Y/Spain: ?)
 - Vets earn parts of their income on selling antimicrobials? (Greece: Y/Spain: ?)
 - AMU prescription-only? (Y)

- Vet. antimicrobials prohibited or limited in use?

- 3rd/4th gen. cephalosp.
- Quinolones/fluoroq.
- Polymyxins

HPCIAAs (WHO)
&
Category B
"Restrict" (EMA)



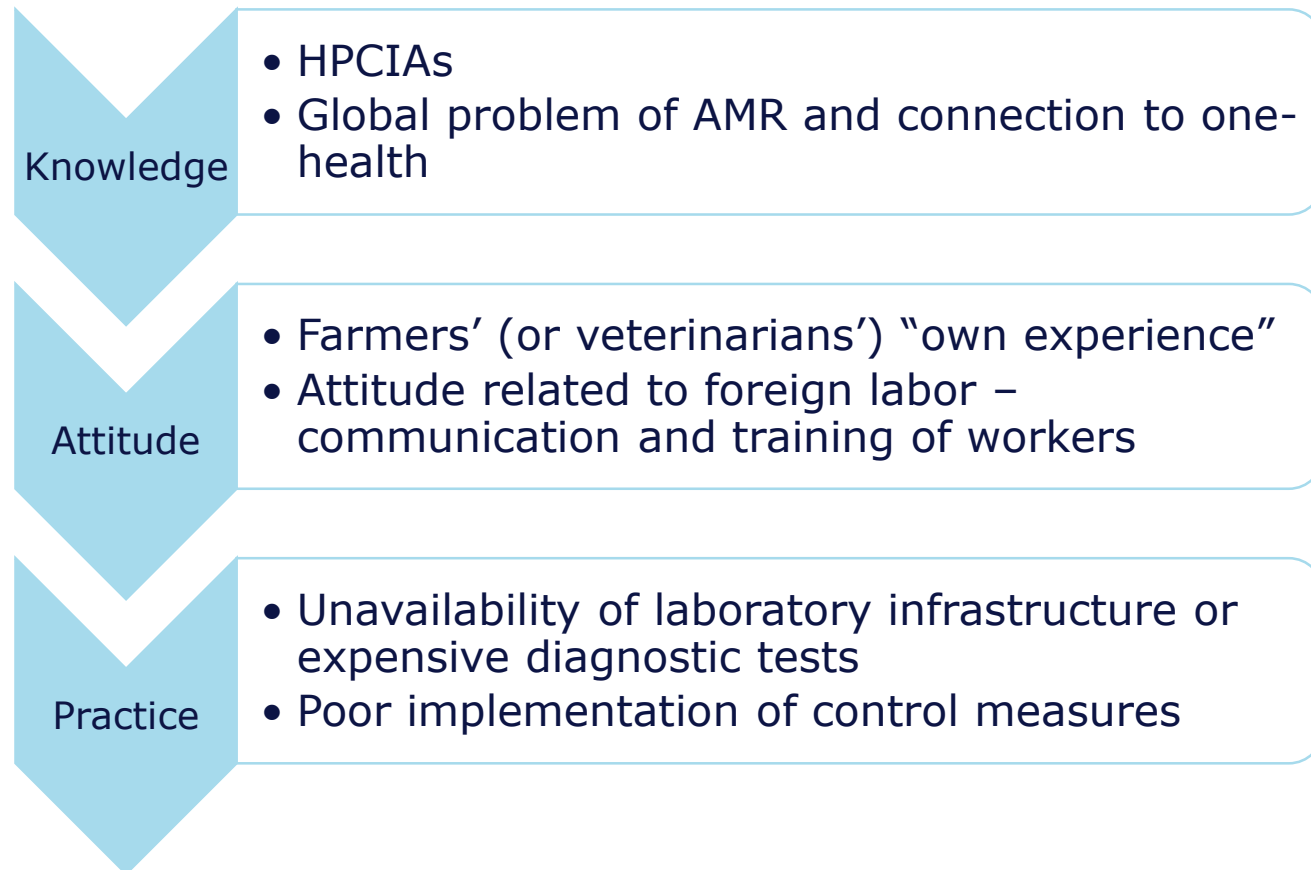
- What are three most important barriers against reduction in AMU in your country?

- Divide into underlying structures and mental models

- **KAP model**

- **Importance of:**

- Economics
- Culture



- Which 6 actions do you think should be put in place at individual, sectorial and national level, respectively, to effectively reduce the AMU in the species of interest?
 - Divide into underlying structures and mental models

Individual

- Biosecurity
- Probiotics (and other alternatives)
- AMR data collection & sharing among farmers

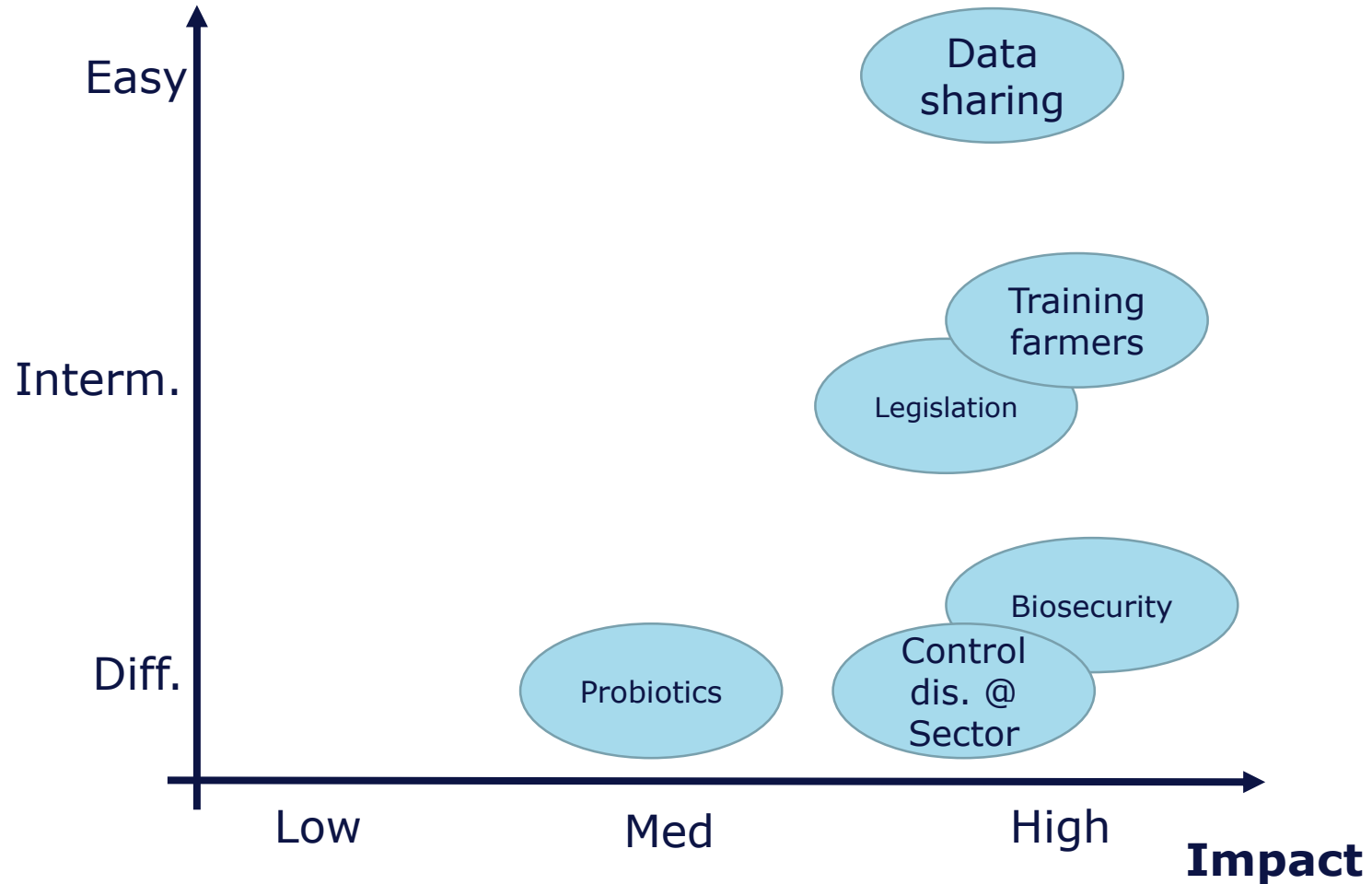
Sectorial

- Cooperation of local farmers for disease control (e.g., SPF, diagnostics, feed/water microbiological testing, etc.)

National

- Training of farmers
- Legislation framework (e.g., to prohibit/reduce the use of HPClAs)

- For each of the 6 actions, please insert them in an x-y coordinate system, where x is impact and y is feasibility including costs.

Feasibility

- Design and implementation of actions towards prudent AMU is challenging and efforts should be focused on different levels.
 - National level: measures to “force” implementation of critical actions, equally for all farmers, associated training programmes
 - Sectorial level: initiatives based on farms’ common characteristics
 - Individual level: common practices & veterinarians’ advisory work
- Discrepancies can be observed among countries/organisations involved.
- Establishment of monitoring programmes and continuous feedback on AMU in European countries for corrective measures.

Thank you for the attention.
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Funded by the 2020 Framework Programme
of the European Union

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