

# Monitoring of antimicrobial usage and translating results into action

<b>Objective</b>	To exchange and critically discuss the current state-of-the-art in approaches to the monitoring of antimicrobial usage in animals, both at national and herd level and translating this information into policy and stewardship advices. Exchange experience and build capacity to develop roadmaps suitable for participants' needs.
<b>Learning outcomes</b>	Participants will gain an overview of the current methodological state-of-the-art in monitoring of antimicrobial usage and the use of such data in developing national and herd level policy and antimicrobial stewardship initiatives. This will include the recognition of the limits to inference. Participants will be able to discuss and debate current monitoring programmes in a global context. Both experiences from more advanced systems as well as developing countries will be elaborated.
<b>Target audience</b>	Government regulatory, pharmaceutical and livestock industry, as well as academic professionals with a mandate or interest in monitoring of antimicrobial usage and linking such data to policy or stewardship measures.
<b>Required skills of participants</b>	General knowledge of veterinary medicine, no specific skills required; however, some knowledge of epidemiologic concepts may be helpful.
<b>History of workshop</b>	<p>A half-day workshop on a comparable topic was organised at SVEPM in 2016.</p> <p>The workshop is linked to a European research project <a href="#">EFFORT</a> as well as the <a href="#">JPI-AMR AACTING network</a> as well as to the CGIAR research programmes "<a href="#">Agriculture for Nutrition and Health</a>" and "<a href="#">Livestock</a>".</p>
<b>Date, venue</b>	10-11 November 2018, ISVEE Chiang Mai (2 days pre-conference)
<b>Participants</b>	Minimum: N=20, Maximum: N=50
<b>Contact</b>	Prof. Jeroen Dewulf, Ghent University, Belgium <a href="mailto:Jeroen.Dewulf@UGent.be">Jeroen.Dewulf@UGent.be</a> , Prof. Katharina Stärk, SAFOSO AG, Switzerland and Royal Veterinary College, London <a href="mailto:katharina.staerk@safoso.ch">katharina.staerk@safoso.ch</a>
<b>Additional contributors</b>	Dr. Barbara Wieland, International Livestock Research Institute ILRI, Addis Ababa, Ethiopia, Dr. Jorge Pinto Ferreira, OIE, Paris.
<b>Format</b>	<p>Contributions from the AACTING and EFFORT project</p> <ul style="list-style-type: none"><li>- Lectures</li><li>- Case presentations: These will include contributions from both the organisers as well as the participants. There will be a call for contributions once the participants have registered.</li><li>- Group discussions</li></ul>

## Content

An introduction to the measurement of usage and related standards will be provided. Different data sources will be considered and the challenges in data collection and the extent of bias discussed. Examples will be presented from current monitoring activities conducted in Europe and developing countries. Transfer of the approach to other regions will be explored. Participants will have the opportunity to share their own experience and discuss challenges related to their own country. Action plans will be discussed for each participant in relation to their own objectives.

## Schedule

Day 1	Antimicrobial usage
09.00-10.30h	Introduction <b>Input 1:</b> Design aspects of usage monitoring (Dewulf) a. Design options at national level, herd level, b. Data collection challenges c. Measures of quantification d. Advantages and disadvantages, bias e. Regulatory framework (from voluntary to legislated)
10.30-11.00	Coffee break
11.00-12.00	Country case studies (1) Each case study will include aspects of the legal basis, data sources, analytical outcomes, data ownership and publication.
12.00-13.00	Lunch
13.00-15.00	<b>Input 2:</b> Special challenges and solutions for low-income settings (Wieland, Stärk) a. Data collection challenges and data sources b. Measures of quantification c. Drug quality d. Knowledge, attitudes and practices e. Regulatory framework
15.00-15.30	Coffee break
15.30-17.00	Country case studies (2) Discussion and integration, data gaps, needs, levels of detail that can be achieved, reduction targets
Day 2	Linking usage data to policy and stewardship initiatives
09.00-10.30h	<b>Input 3:</b> Overview of AMU policies (Pinto Ferreira, Stärk) a. International standards b. National policies integrating surveillance and interventions c. Industry initiatives
10.30-11.00	Coffee break
11.00-12.00	Discussion of alternative policies, strengths and weaknesses as well as capacity building needs.
12.00-13.00	Lunch
13.00-15.00	<b>Input 4:</b> Overview of AMU stewardship initiatives including contributions from participants (Dewulf, Stärk)
15.00-15.30	Coffee break
15.30-17.00	General discussion, next steps, conclusions and recommendations Risks and benefits, avoiding misuse of data