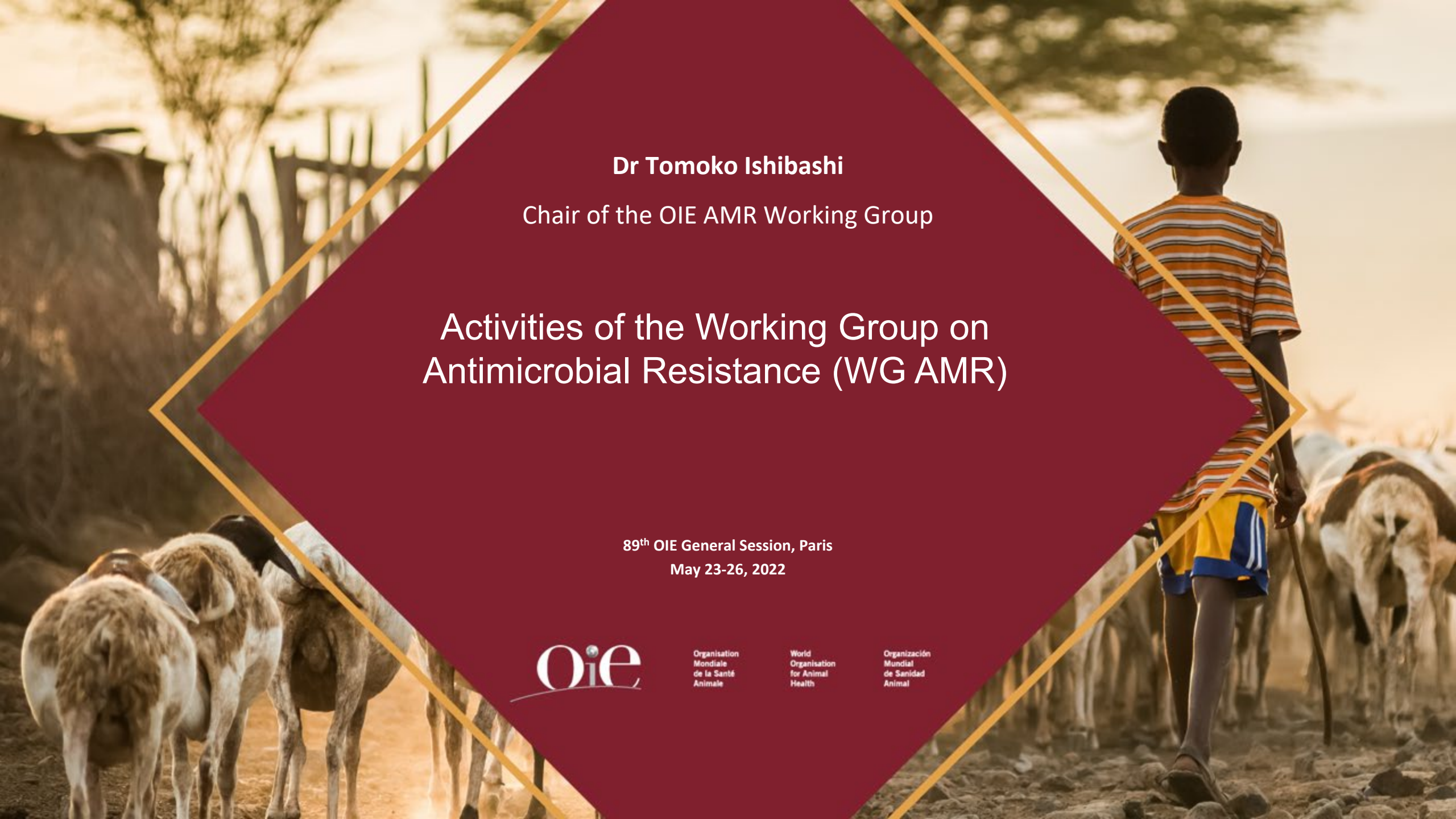

Dr Tomoko Ishibashi

Chair of the OIE AMR Working Group

Activities of the Working Group on Antimicrobial Resistance (WG AMR)

89th OIE General Session, Paris
May 23-26, 2022

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Activities of the Working Group on AMR

Background

- The Group was established by the Director General following the adoption of resolution 14 at the 87th OIE SG (2019)
- The Group assists in the implementation of
  - OIE Strategy on AMR and the Prudent Use of Antimicrobials
  - Recommendations of the 2nd OIE Global Conference on AMR and Prudent Use of Antimicrobials

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OIE Working Group on AMR

Chair

Dr Tomoko Ishibashi
(Japan)

Member

Ms Barbara Freischem
(The Netherlands)

Member

Dr Donald Prater
(USA)

Member

Dr Fajur Al Saloom
(Bahrain)

Member

Dr Gérard Moulin
(France)

Member

Prof Moritz van Vuuren
(South Africa)

Member

Dr Stephen Page
(Australia)

Working Group activities

OIE AMR Working Group

Main work streams

- Recommendations from the 2nd OIE Global Conference on AMR, including:
  - Subdivision into animal species of the OIE List of Antimicrobial Agents of Veterinary Importance in Animals (the OIE List)
  - Updating standards in the OIE Terrestrial and Aquatic Codes
  - Further development of the OIE Antimicrobial Use (AMU) database

WG AMR meets every April and October

Next meetings
- **3rd August**
- **4-6th October**

Task-specific subgroups meet several times in between

WG AMR activities: Subdivision of OIE List into animal species

- **Development of species-specific Technical Reference Documents**

ANTIMICROBIAL AGENTS (CLASS, SUB-CLASS)	Categorisation			Molecules	Species	Used/not used in poultry
	VCIA	VHIA	VIA			
AMINOCOUMARIN			x	Novobiocin	AVI, BOV, CAP, OVI, PIS	Used
AMINOCYCLITOL	x			Spectinomycin	AVI, BOV, CAP, EQU, LEP, OVI, PIS, SUI	Used
AMINOGLYCOSIDES	x					
AMINOGLYCOSIDES + 2 DEOXYSTREPTAMINE	x					
AMPHENICOLS	x					
ANSAMYCINS - RIFAMYCINS		x				
ARSENICALS						
BICYCLOMYCIN						
CEPHALOSPORINS		x				
Cephalosporin 1st G						

Pathogens	Examples of diseases
Bacteria	
Avibacterium (Haemophilus) paragallinarum	Infectious coryza
Bordetella avium	Bordetellosis (Turkey coryza)
Brachyspira pilosicoli	Avian intestinal spirochaetosis
Chlamydia psittaci	
Clostridium spp.	
Gallibacterium anatis	
Riemerella anatipestifer	...septicaemia in ducklings; Respiratory disease, salpingitis

	Avibacterium paragallinarum infection	*Bordetella* spp. infection	*Brachyspira* spp. infection	*Chlamydia psittaci* infection	*Clostridium* spp. infection	*E. coli* infection	*Eimeria* spp. infection	*Enterococcus* spp. infection	*Erysipelothrix rhusiopathiae* infection	*Gallibacterium* spp. infection	*Histomonas* spp. infection	*Mycoplasma* spp. infection
AMINOCOUMARIN												
AMINOCYCLITOL						x						
AMINOGLYCOSIDES	x					x						
AMINOGLYCOSIDES + 2 DEOXYSTREPTAMINE	x				x	x					x	
AMPHENICOLS	x					x						x
CEPHALOSPORINS						x						
...NOPHORES							x					
...TICOCCIDIAL							x					
					x	x		x	x			x
					x	x						x
	x		x		x							x
												x
					x							
					x	x		x	x	x		
					x							
					x	x				x		
			x		x							x
					x	x						
					x							
						x				x		x
					x							
						x	x					
					x	x	x		x			
	x	x	x	x	x	x	x	x	x			x

As an **appendix** to the **OIE List of antimicrobial agents of veterinary importance**

WG AMR activities: Aquatic Animals Technical Reference Document

- AHG includes Drs Prater, Moulin and Prof Moritz van Vuuren
- Similar approach followed as per poultry
  - Inclusion of antimicrobial agents if authorized in at least 1 country
  - Exclusion of antimicrobials used off-label
  - Exclusion of disinfectants

but their use will be acknowledged in document as widespread in some countries

- Lack of authorized VMPs with antimicrobial agents
  - Identified in several countries
  - May also be an issue for other species
- Completion – October 2022

To be published in the October meeting report

VMP – Veterinary Medicinal Products

WG AMR activities: Swine Technical Reference Document

- Work started in 2021 => 3 online subgroup meetings
- Adapted methodology followed in poultry
  - Inclusion of antimicrobial agents if authorized in at least 1 country
  - Exclusion of off-label use → but their use will be acknowledged in document as widespread in some countries
  - Exclusion of growth promoters
  - Inclusion of combinations if well established and justified
  - Inclusion of anticoccidials with known antibacterial action
  - Revision and update of the nomenclature of sulphonamides
  - Adoption of International Non-Proprietary Names (INNs) for antimicrobial agents to harmonise with international standards

WG AMR activities: Swine Technical Reference Document

- Consultation with 8 external swine experts from regions with pig production in March 2022
- Feedback from global stakeholders ongoing
  - HealthforAnimals
  - World Veterinary Association
- Completion - August 2022

To be published in the August meeting report

WG AMR activities: Updating OIE Standards

- Review of Ch 6.10. was requested by the Terrestrial Animal Health Standards Commission (the Code Commission) in 2019
- Review started in 2021- ongoing
  - Considering products of Codex TFAMR
    - Code of Practice to Minimize and Contain Foodborne AMR
    - Guidelines on Integrated Surveillance and Monitoring of AMR
  - Identifying areas to revise/update in April & October 2021 meetings
  - Consulting with Code Commission
- Draft to be sent to the Code Commission in August

WG AMR activities: Updating Ch.6.10.

Key discussion points

One Health approach

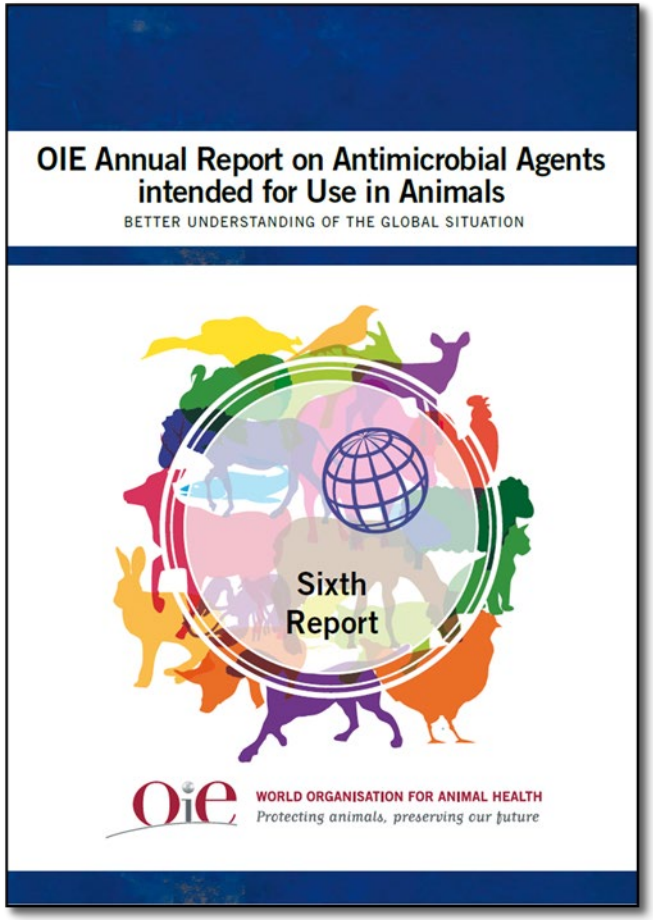
- Expansion of **environmental elements**
- Clear inclusion of **non-food producing animals**
- Reference to **National Action Plan**
- Revision of responsibilities
  - Competent Authority
  - Veterinarians (incl **v**eterinary **p**ara**p**rofessionals)
  - Drug manufacturers
  - Animal producers and Owners of non-food producing animals
  - Feed producers

Feedback from Code Commission and Members will inform future work of other AMR Chapters

WG AMR activities: Support further development of OIE AMU database

Updated timeline

OIE AMU 6th Annual Report

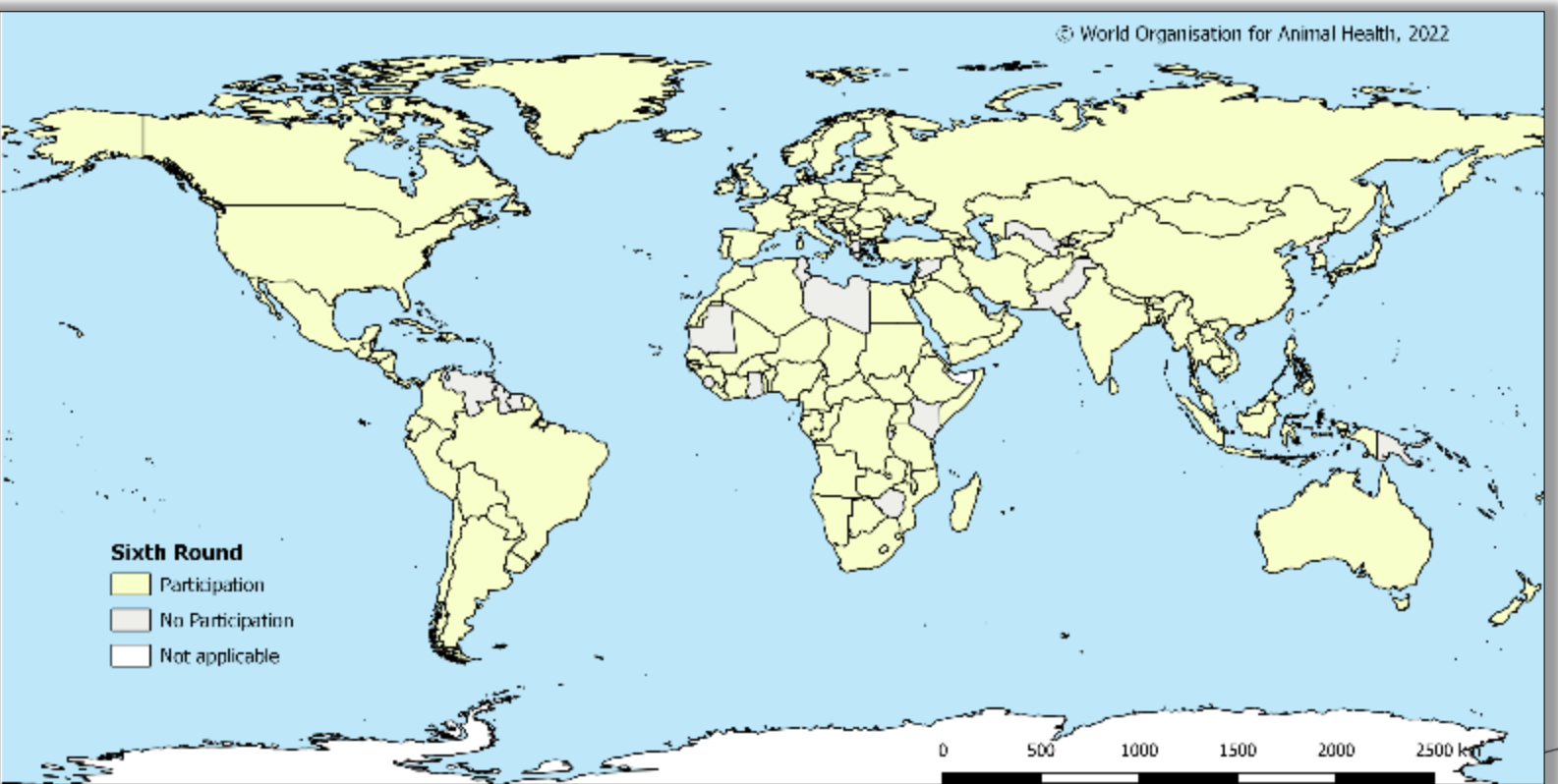


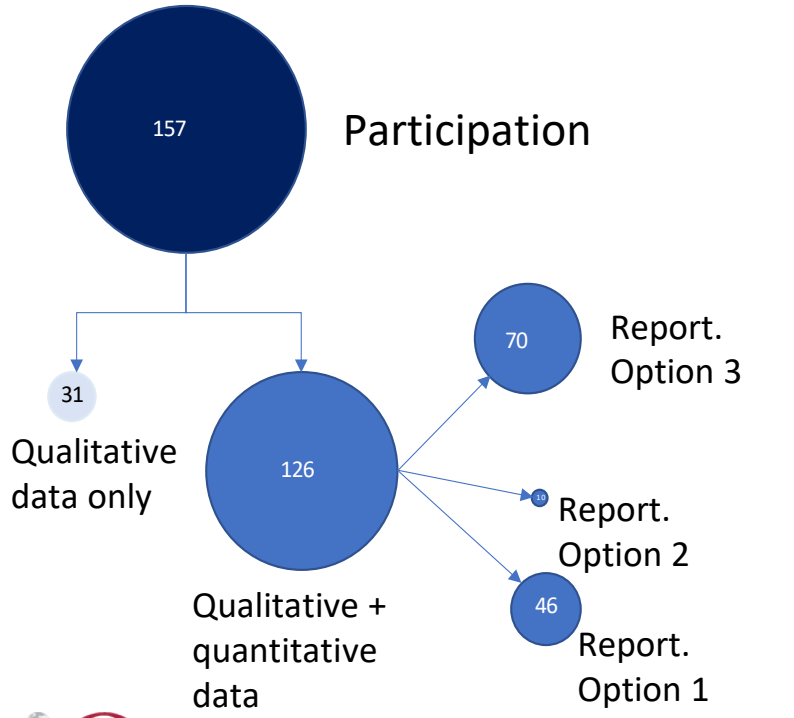
- To be released in May 2022
- Communication campaign in June 2022

- Results of the Sixth Round (**157** Countries)
- 2018 Analysis of Antimicrobial Quantities (**109** Countries)
- Trends from 2016 to 2018 (**72** Countries)
- Regional Information (Annexes 1 – 5)

Results of the Sixth Round (157 Countries)

- **56%** of countries that provided data used **Reporting Option 3** (highest details of data)
- Lack of a regulatory framework, human resource constraints and COVID-19 pandemic, were primarily identified as **barriers** to report the antimicrobial quantities.
- Antimicrobial growth promoters are not longer used in nearly three-quarters of participating countries (108).





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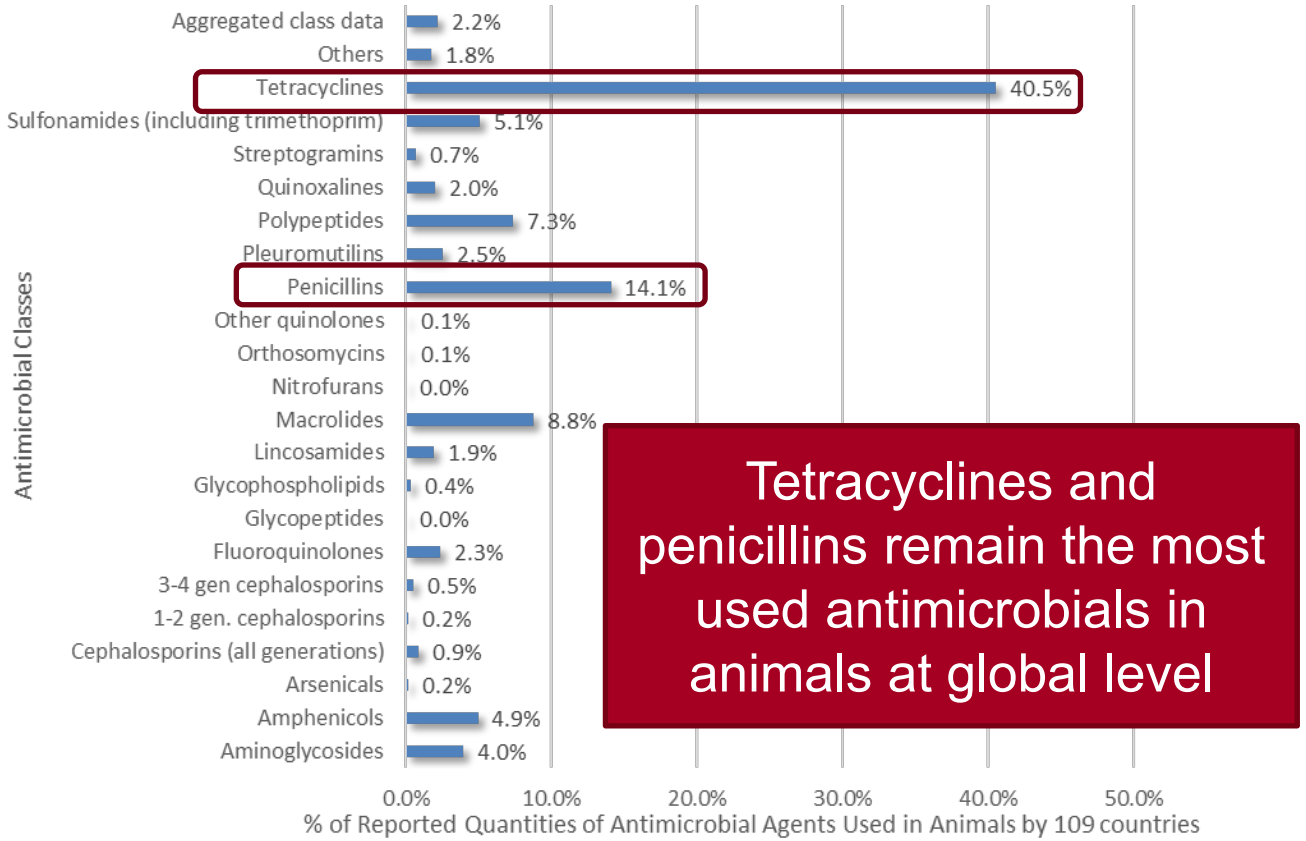
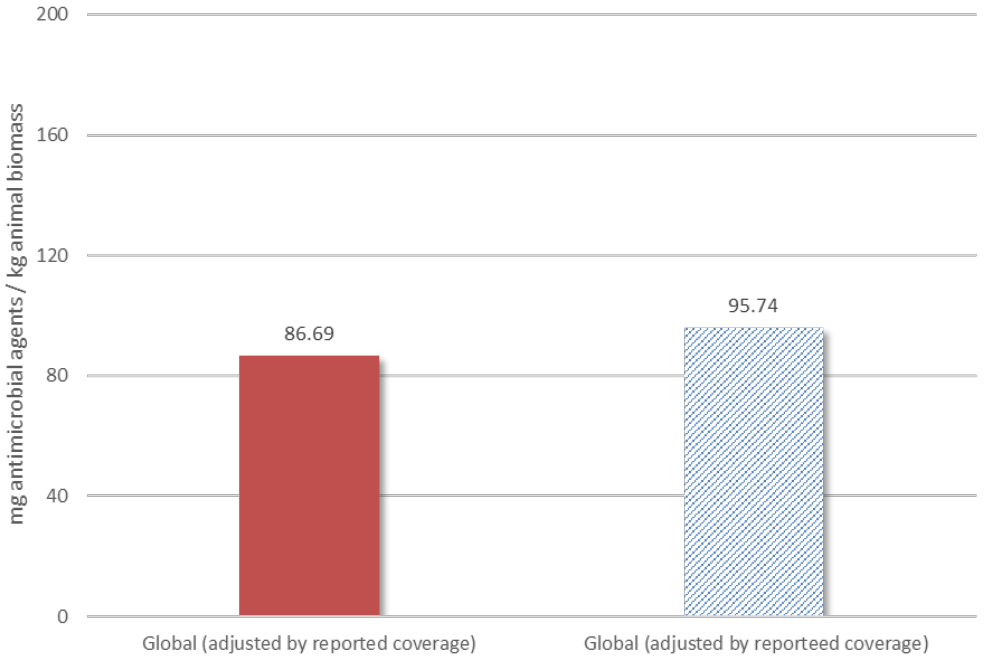
2018 Analysis of Antimicrobial Quantities (109 Countries)



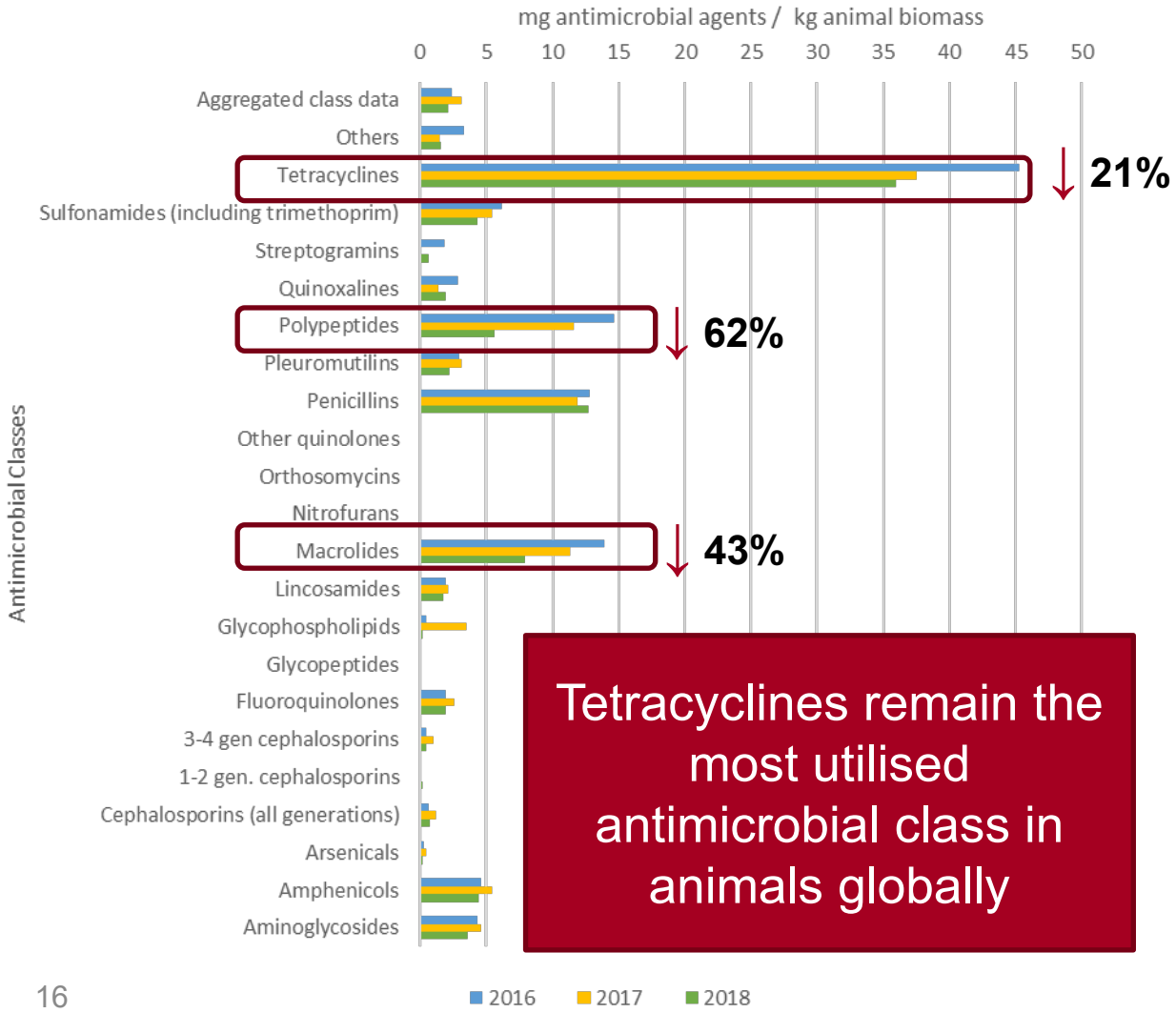
Tetracyclines and penicillins remain the most used antimicrobials in animals at global level



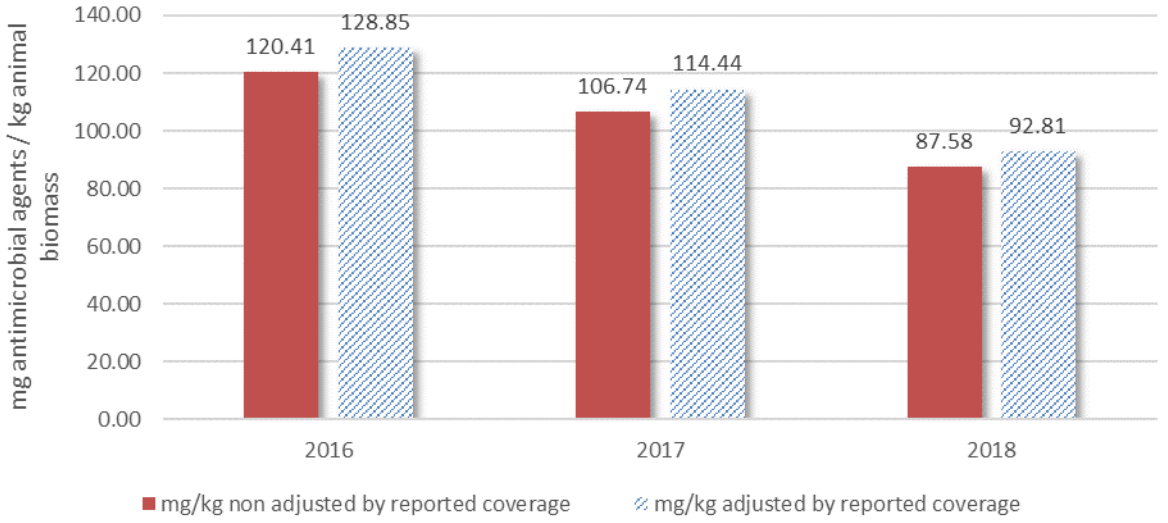
Analysis for 2018 represents AMU in 72% of total animal biomass worldwide

- **Penicillins** and **tetracyclines** are **VCIAs in the OIE list** but **not High Priority-Critically Important Antimicrobials** in the WHO list

Trends from 2016 to 2018 (72 Countries)



Tetracyclines remain the most utilised antimicrobial class in animals globally



A decrease of 27% of AMU in animals was observed at global level between 2016 and 2018

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Workplan AMR WG

Subject	Issue/Action	Status	Timeline
OIE List of Antimicrobial Agents of Veterinary Importance, subdivision by species	poultry subdivision pilot exercise, including development of pilot methodology	completed	April 2021
	discussion on the addition of companion animal	completed	April 2021
	swine	ongoing	August 2022
	aquatics	ongoing	October 2022
	Large ruminants	future work	Start October 2022
	Companion animals (cats and dogs)	future work	Start October 2022
	Discussion on camelids	future work	October 2022
	Discussion of review of the Main OIE List	future work	October 2022
OIE Global AMU database	transition of data collection from spreadsheet to a database system, expert advice	IT project ongoing	October 2022
	refinement of the numerator, denominator (biomass), and reporting	ongoing	Possible update in October 2022
	having a quantitative reporting option on species level	future work	April 2023
Field level data	reflection on obtaining field level data	ongoing	Draft report in October 2022
Terrestrial and Aquatic OIE Code chapters related to AMR	Submission of first draft of revised TAHC Chapter 6.10 to Code Commission	ongoing	August 2022
	discussion of update of other TAHC chapters	future work	October 2022
	update of the Chapters: TAHC 6.10	ongoing	October 2023, tbc

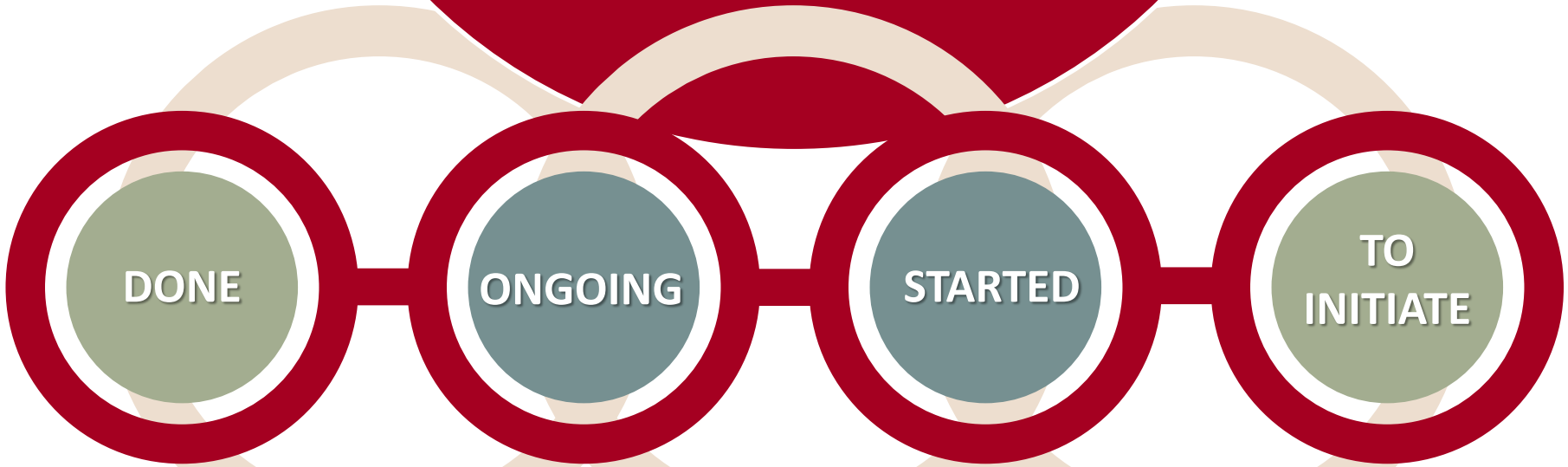
Workplan is aligned with the recommendations of OIE 2nd Global Conference – several activities to be completed in 2022

Brainstorming session in October to discuss activities for the next 5 years (2023-2028)

2nd OIE Global Conference on Antimicrobial Resistance

Recommendations status

1. ***OIE standards***
2. ***Capacity Building***
3. ***List of Antimicrobial Agents***
4. ***OIE AMU Database***
5. ***Global repository of clinical treatment guidelines***
6. ***Substandard & Falsified***
7. ***Research***
8. ***Autogenous vaccines***
9. ***Monitoring & Evaluation***
10. ***NAPs - Support to Countries***



#4 - Interactive online system for OIE AMU Global Data Collection coming this fall !

#1 - Chapter 6.10 update almost completed for Code Commission

#3 - Poultry list completed; swine underway; large ruminants, & companion animals to start Oct 22

#9 - M&E system developed and running. First report coming this fall!

#2 - CCII-9 AMR & AMU in PVS tool to be piloted in Indonesia & Mozambique

- AMR Legislation tool in pilot phase

#6 - Pilot ongoing. Scale up planned

#7 - OIE sitting in key consortia advisory boards

#10 - Ten countries under AMR MPTF Programs. OIE leading in Kenya

#5 & #8 - Exploratory work

Thank you for your attention

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