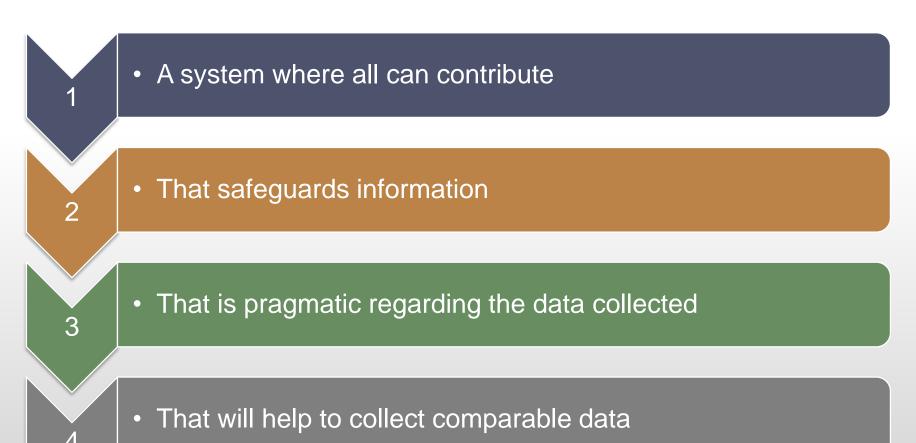
Dr Dante Mateo Chargé de mission with focus on aquatic animals Antimicrobial Resistance and Veterinary Products Department

OIE global database on antimicrobial use in animals – aquatic animals' data

OIE Sub-Regional Workshop on AMR in Aquaculture Durban, South Africa, 26-28 Nov. 2019



Monitoring the use of antimicrobials in animals based on OIE standards



History of the OIE AMU Data Collection

OIE Questionnaire

2012

To determine what actions are needed and to help the OIE to develop its strategy in the AMU field; To prepare the 1st OIE Global Conference on AMR

85% Participation
(152 Member Countries)

1st OIE Global Conference on the Responsible and Prudent Use of Antimicrobial Agents for Animals

2013

Member Countries agreed to collect harmonised quantitative data on the use of antimicrobial agents in animals with the view to establish a global database and submit them to the OIE.

OIE Template and Accompanying Documents

2014

2015

ЪřС

Created by the experts of the OIE *ad hoc* group on AMR – based on Chapters 6.9 and 6.3 of the Terrestrial and Aquatic Codes, respectively. Documents were discussed with the OIE National Focal Points for Veterinary Products in the Americas; Europe; and Asia, Far East and Oceania regions; Africa was asked by email.

1st Round of the OIE AMU Data Collection

Sent in October-November to all Member Countries. Deadline was on 1st of December 2015.



estverbad



Years of Reported data

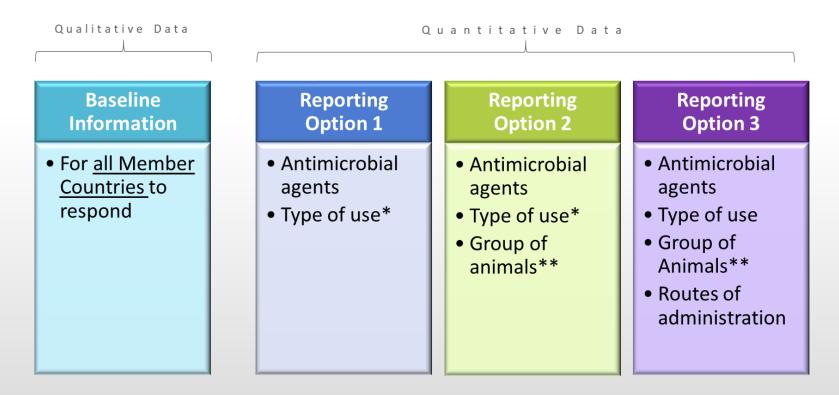




Oie

What data are being collected?

The sections of the OIE Template collect the quantities of antimicrobial agents intended for use in animals.



* Type of use: veterinary medical use or growth promotion

**For the purposes of the OIE database, animal groups means: 'terrestrial food-producing animals', 'aquatic food-producing animals' or 'Companion animals'

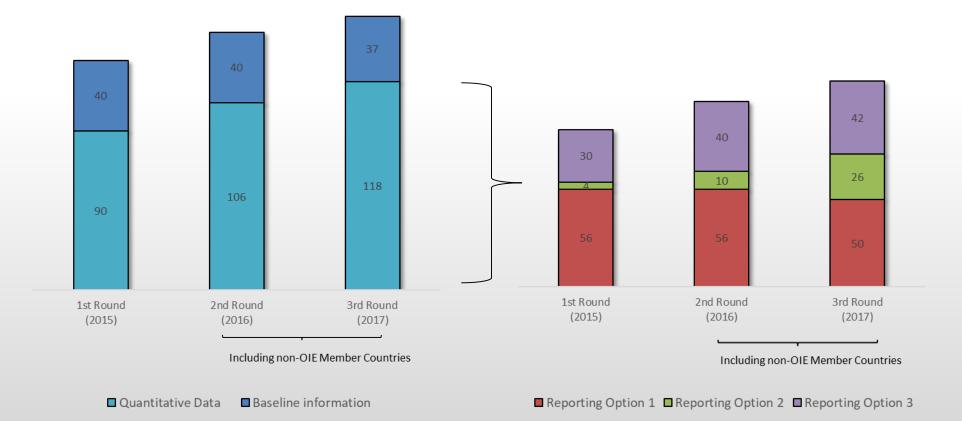


Firese refer to the Guidence document for further instructions	ins in bold are mandatory. Please provide prmation as requested. Ins in <i>grey Italics</i> are optional.	OIE Template				
A. Contact Person for Antimicrobial Agents Use Data Collection	provide the contact information of the					
inter text network	completing this template. He/she will be	•				
2 Name (First name, SURNAME) <a>href="https://www.surname.surn	ed by the OIE in case any clarifications on			Overall Amount:	Amount:	A
3 CIE Focal Point for Veterinary Products Please se CIE Focal Point for Veterinary Products to the OI	a are needed. select the appropriate 'Role with respect DIE' from the list.			Veterinary Medical Use +	Veterinary Medical Use	Amount: Growth Promotior
4 Organisation <free field="" text=""> 25 Food-pr</free>	roducing animal species covered by the	Cattle		Growth Promotion	(including <u>prevention</u> of clinical signs)	
Organisation's Address <free field="" text=""> informa</free>	ation on antimicrobial quantities	Pigs - commercial				
5 Country <free field="" text=""></free>				All animal species	All animal species	All animal species
8 Email Address <free field="" text=""></free>		Pigs - backyard	Antimicrobial Class	(kg)	(kg)	(kg)
B. General Information		Sheep		(Kg)	(Kg)	(Kg)
Questions 9 to 14 are related to the current situation in your country. Responses should not be linked to the		Goats	Aminoglycosides	0		
Are data on the amount of antimicrobial agents Amounts evaluate - Yes			Amphenicols	a		
intended for use in animals available?		Sheep and goats (mixed flocks)	Arsenicals	0		
Please indicate why the data are not available at		Layers - commercial production for eggs	Cephalosporins (all generations)		0	
this time in your country, if the answer to <free field="" text=""></free>			1-2 gen. cephalosporins		0	
Question 9 is 'No'		Broilers - commercial production for meat				
Are antimicrobial agents used for growth		Other commercial poultry	3-4 gen cephalosporins	0		
promotion purposes in animals in your country?		Poultry-backyard	Fluoroquinolones	0		
Does your country have legislation/regulations Legislation/regulation exists - Yes			Glycopeptides	0		
2 on antimicrobial agents as growth promoters in animals?		Buffaloes (excluding Syncerus caffer)	Glycophospholipids			
animaisr		Cervidae (farmed)	Lincosamides			
n your county has registerion regulation on a second				Ŭ		
animals, could you please indicate the		Camelidae	Macrolides	0		
appropriate case that applies in your country?		Equidae	Nitrofurans	0		
Please provide a list of antimicrobial agents		Rabbits	Orthosomycins	0		
4 used or authorised as growth promoters, if any <pre> </pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <td></td><td></td><td>Other quinolones</td><td></td><td></td><td></td></pre></pre></pre></pre></pre></pre></pre></pre>			Other quinolones			
your response to Question 9 is 'No', please kindly send this template, once validated by the OIE Delegate a		Bees Honey	Penicillins			
OIE Delegate in copy, to the OIE Antimicrobial Use Team at:		Fish - aquaculture production		U		
antimicrobialuse@oie.int			Pleuromutilins	0		
C. Data collection of Antimicrobial Agents Intended for Use in Animals	(Crustaceans - aquaculture production	Polypeptides	0		
*** Please provide data for 2016 If you have data for another year, please select the year from the list b		Molluses - aquaculture production	Quinoxalines	0		
			Streptogramins			
Year for which data apply		Amphibians	Sulfonamides (including			
(Please select only one year per template)		Reprint (og. crocodiles)	trimothonrim)	Ű		
		Other	Tetracyclines	0		
Baseline Information Reporting Option 1 Reporting Option 2 Reporting Option 3			Others	0		
			Aggregated class data			
			Total kg		0	

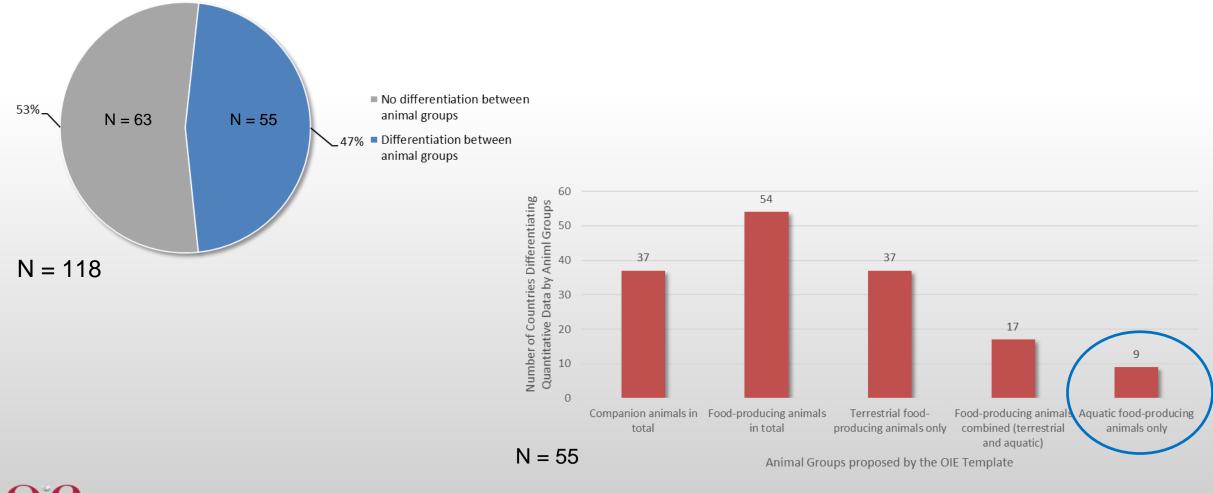
	Overall Amount: Veterinary Medical Use + Growth Promotion		Amount: Growth Promotion					
Antimicrobial Class	All animal species (kg)	All animal species (kg)	Companinon animals (kg)	All Food-producing animals (terrestrial & aquatic) (kg)	Terrestrial Ford- producing ani nals (kg)	Aquatic Food- producing animals (kg)	II Food-producing animals (terrestrial & aquatic) (kg)	
Aminoglycosides	C	0		C				
Amphenicols	C	0		C)			
Arsenicals	C	0		C)			An
Cephalosporins (all generations)	C	0	0	C	0	0	0	An
1-2 gen. cephalosporins		0		0	-		_	Ce
3-4 gen cephalosporins	0	0		0)			1
Fluoroquinolones		0		0				3
Glycopeptides	(0		0				Flu
Glycophospholipids	0	0						Gly
incosamides		0		0				GI
Macrolides		0						Lin
Nitrofurans	0	0		0				Ма
Orthosomycins		0						Nit
Other quinolones		0						Ort
Penicillins		0						Oth
Pleuromutilins		0						Pe
Polypeptides		0						Ple
Ouinoxalines		0						Pol
Streptogramins		0		L L				Qu
Sulfonamides (including trimethoprim)		-						Sul
Fetracyclines		0	-					tri
Others	U	0		C C				Tel
Aggregated class data	0	0		C				Oti
Aggregated class data Total kg	C	0		0				Ag

	Overall Amount: Veterinary Medical Use + Growth Promotion	Amount: Veterinary Medical Use (induding <u>prevention</u> of clinical signs)													Amount: Growth Promotion			
	All Animal Species	All animal species			Companion animals			All food-producing animals (terrestrial and aquatic)			Terrestrial food-producing animals			Aquatic food-producing animals			All food-producing a (terrestrial and aq	
ntimicrobial Class	All routes (kg)	Oral route (kg)	Injection route (kg)	Other routes (kg)	Oral route (kg)	Injection route (kg)	Other routes (kg)	Oral route (kg)	Injection route (kg)	Other routes (kg)	Oral route (kg)	Injection route (kg)	Other rol tes (kg)	Oral route (kg)	Injection route (kg)	Other routes (kg)	All routes (kg)	
cosides	0	0	0	0				0	0	0								
cols	0	0	0	0				0	C	0								
s	0	0	C	0				0	C	0								
porins (all generations)	0	0	0	0	0	0	0	0	C	0	0	0	0	0	0	0		0
. cephalosporins	0	0	0	0				0	C	0								
cephalosporins	0	0	0	0				0	C	0								
inolones	0	0	0	0				0	C	0								
tides	0	0	C	0				0	C	0								
spholipids	0	0	0	0				0	0	0								
ides	0	0	C	0				0	C	0								
15	0	0	C	0				0	C	0								
ns	0	0	0	0				0	C	0								
lycins	0	0	0	0				0	C	0								
nolones	0	0	0	0				0	C	0								
8	0	0	0	0				0	C	0								
tilins	0	0	C	0				0	C	0								
des	0	0	0	0				0	C	0								
nes	0	0	C	0				0	C	0								
amins	0	0	0	0				0	C	0								
ides (including prim) ines	0	0	C	0				0	C	0								
ines	0	0	0	0				0	C	0								
	0	0	0	0				0	C	0								
ed class data	0	0	0	0				0	C	0								
Total kg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0

Data Types Reported in the OIE Data Collection



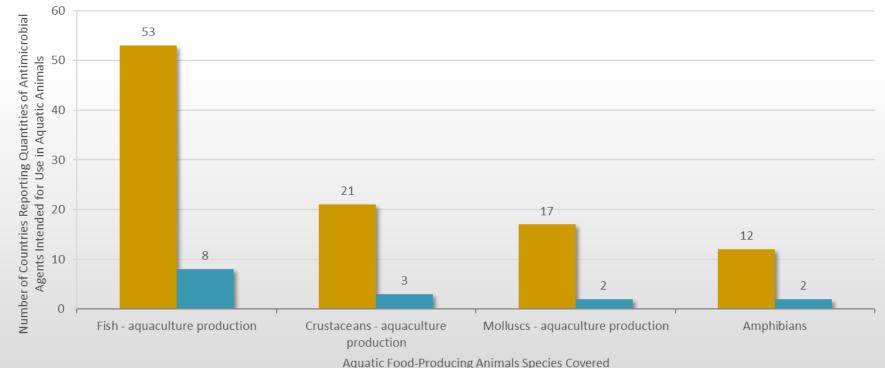
Differentiation by Animal Groups Among 118 Countries Reporting Quantitative Data from 2015 to 2017



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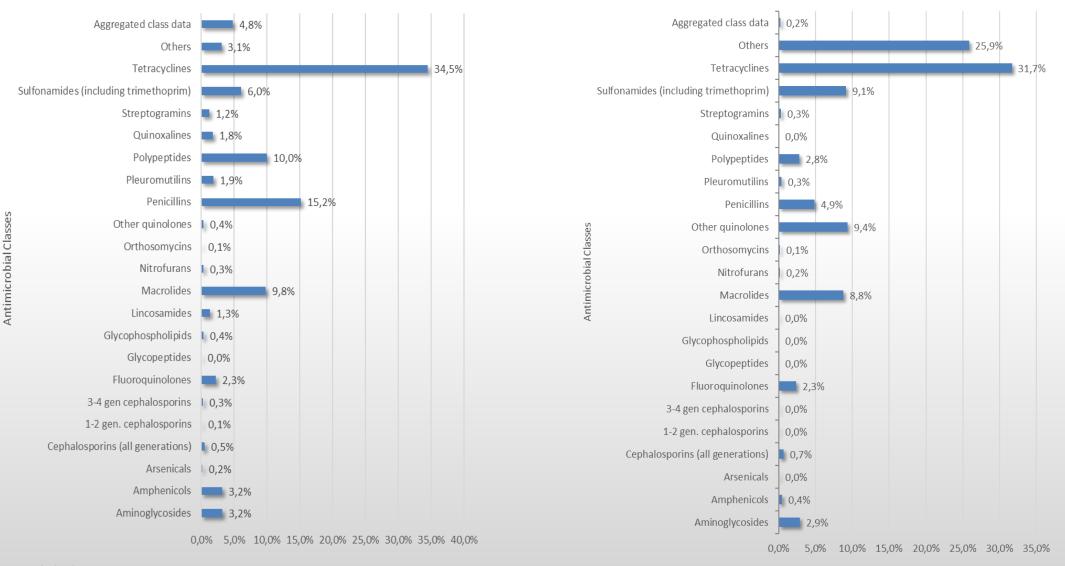
Aquatic Food-Producing Animals Included in Quantitative Data Reported by 62 Countries from 2015 to 2017



Quantitative data combined for terrestrial and aquatic food-producing animals

Quantitative data distinguished for aquatic food-producing animals

Proportion of Antimicrobial Quantities (by Antimicrobial Class) Reported for Use in Animals During the Third Round from 2015 to 2017



Global - Proportion of Antimicrobial Quantities Reported for Use in Animals

by 116 Countries

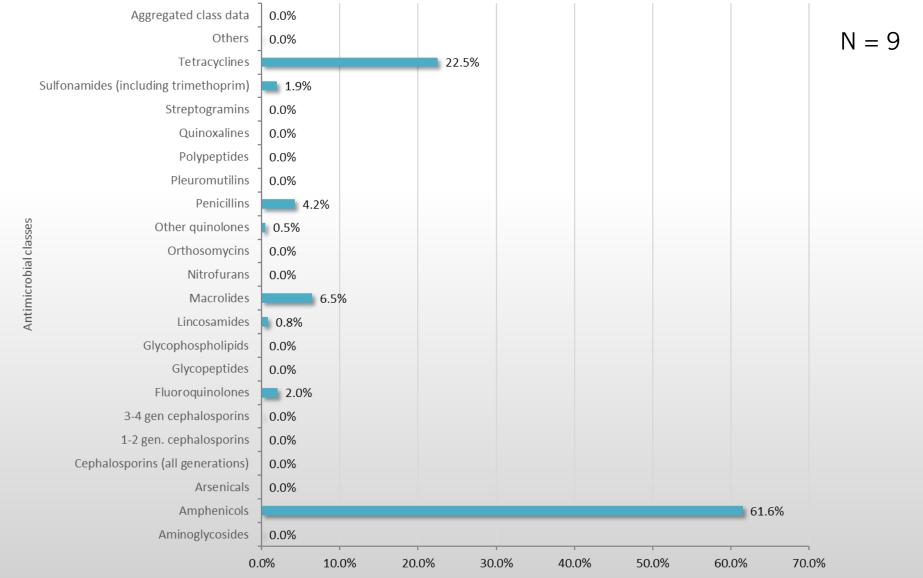
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Africa - Proportion of Antimicrobial Quantities Reported for Use in Animals by 32

Member Countries in Africa

Proportion of Antimicrobial Quantities (by Antimicrobial Class) Reported for Use in Animals During the Third Round from 2015 to 2017

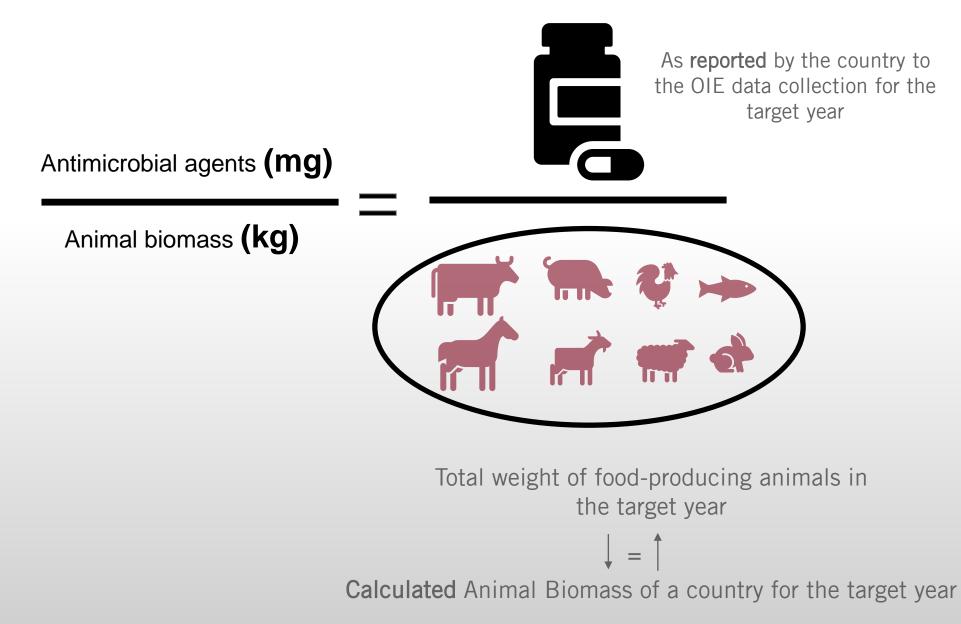


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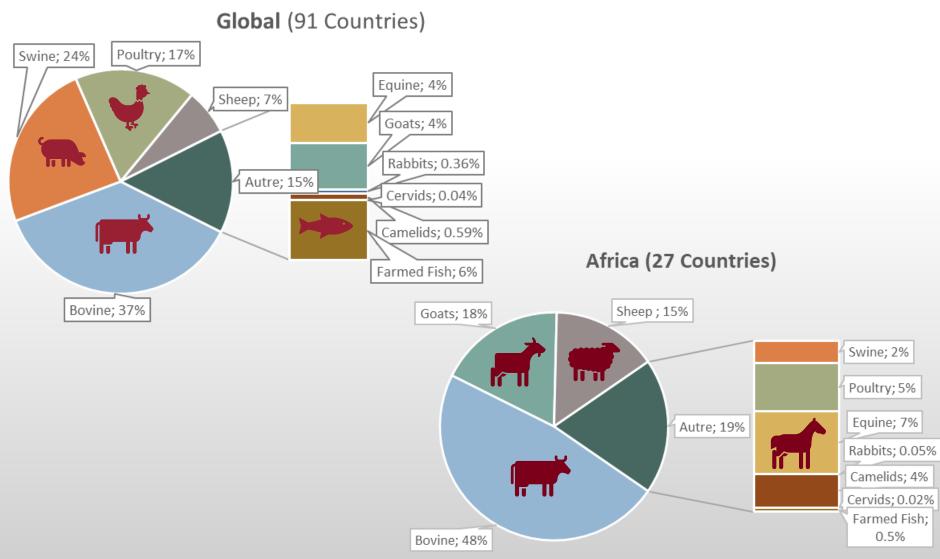
% of reported quantities of antimicrobial agents used in animals by 9 Countries

Aquatic food-producing animals

Antimicrobial Agent Quantities (mg) Adjusted by Animal Biomass (kg)



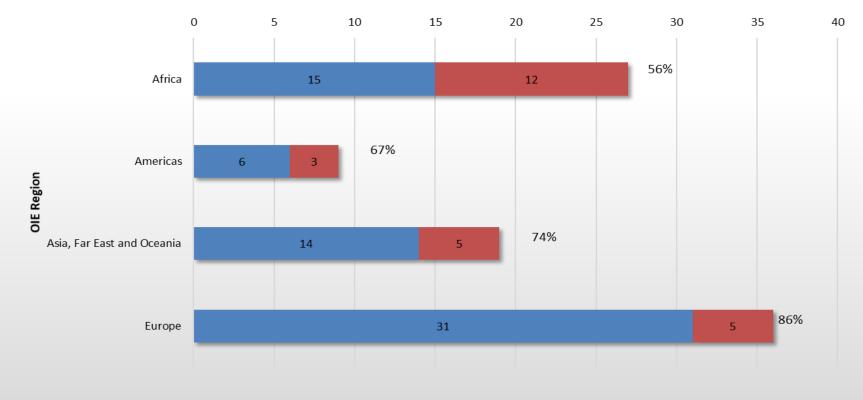
Species Composition in weight of Animal Biomass for Countries Reporting Quantitative Data for 2015



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Countries Including Aquatic Food-Producing Animal Species in Quantitative Data for 2015



Number of Countries

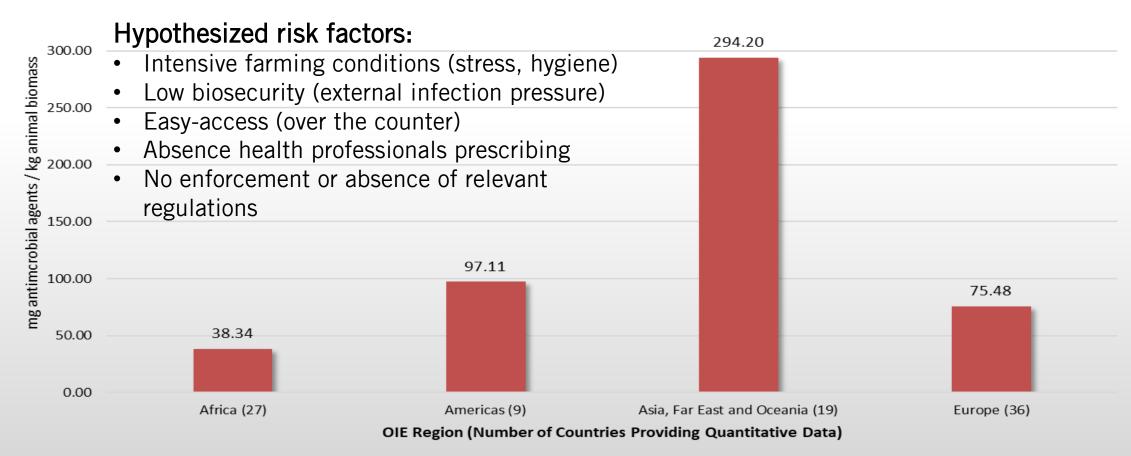


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Regional Antimicrobial Use (mg / kg) 2015

350.00



Global (not adjusted by reported coverage)

Where can you find the reports?

1st Round

• 1st Report Published in Dec. 2016

- From Oct. 2016 to May 2017
- Data ranging from 2013 to 2016
- 2nd Report published in Dec. 2017

3rd Round

- From Oct. 2017 to May 2018
- Data ranging from 2015 to 2017
- 3rd Report published in Feb. 2019

4th Round

- From Sept. 2018 to May 2019
- Focus analysis in 2016 data
- 4th Report will be published in early 2020

5th Round

- From Sept. 2019 to May 2020
- Focus análisis in 2017 data

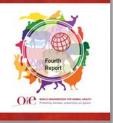
Reports available at: https://www.oie.int/en/scientificexpertise/veterinary-products/antimicrobials/















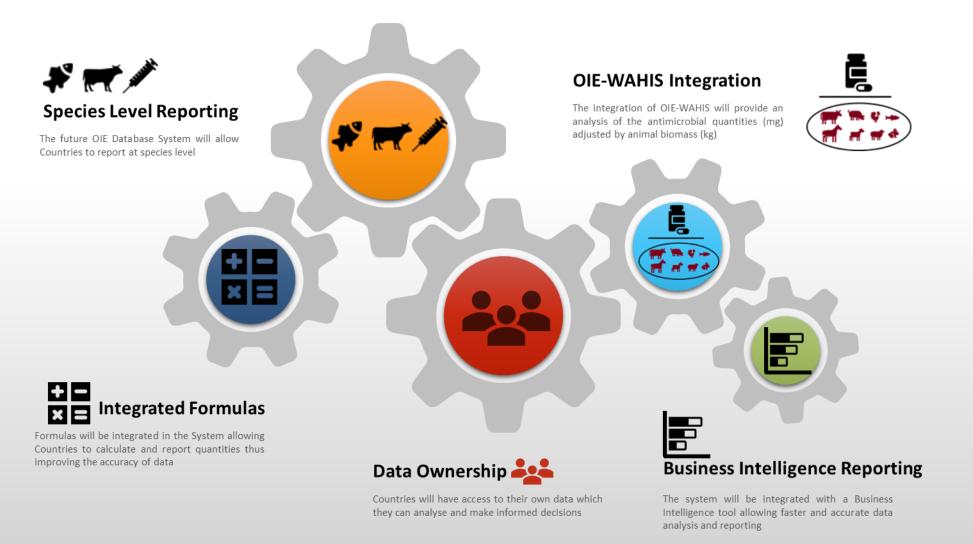


What do we want to achieve?



(Data are discrete, objective facts that have no meaning in isolation)

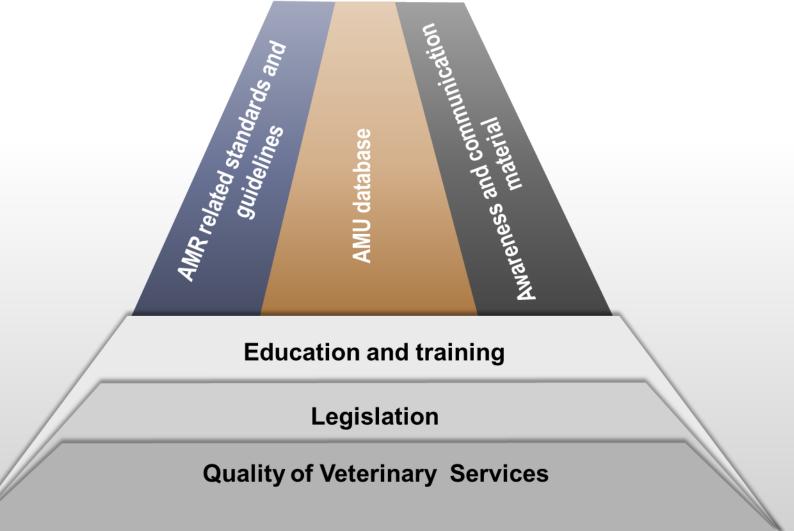
Future of the OIE Database Collection



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OIE Strategy on Antimicrobial Resistance and the Prudent Use of Antimicrobials



Thank you for your attention





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12, rue de Prony, 75017 Paris, France www.oie.int media@oie.int - oie@oie.int



