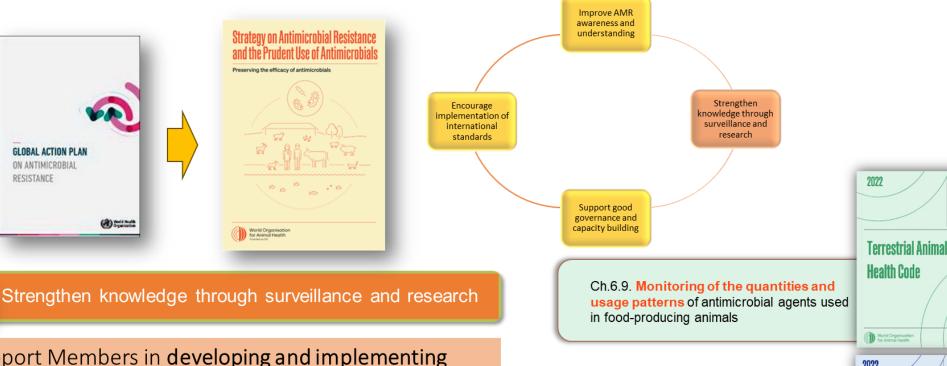


## World Organisation for Animal Health WOAH AMR Strategy – AMU surveillance







Support Members in developing and implementing monitoring and surveillance systems

Build and maintain a global database on the use of antimicrobial agents in food-producing and companion animals, with associated analysis and annual reporting Ch.6.3. Monitoring of the quantities and usage patterns of antimicrobial agents used in aquatic animals



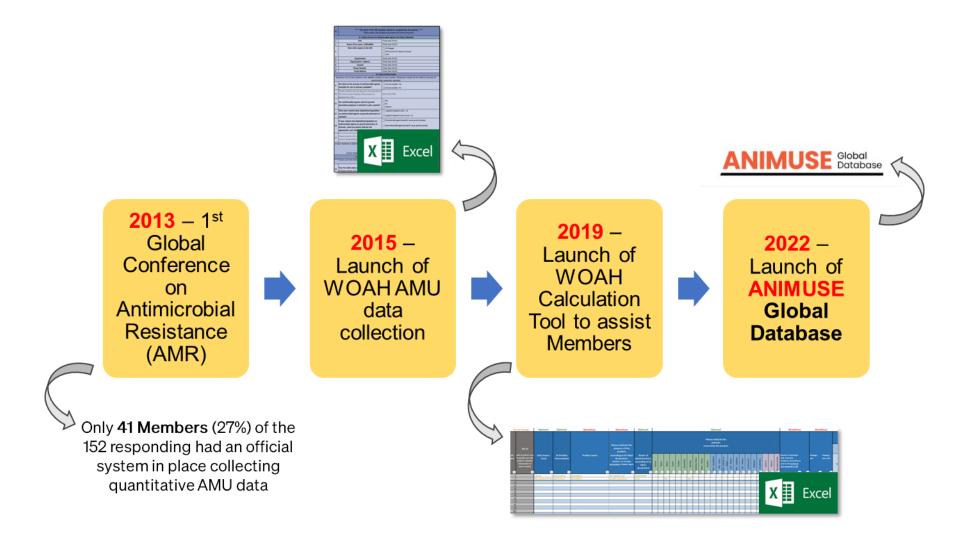






#### **WOAH AMU global data collection**



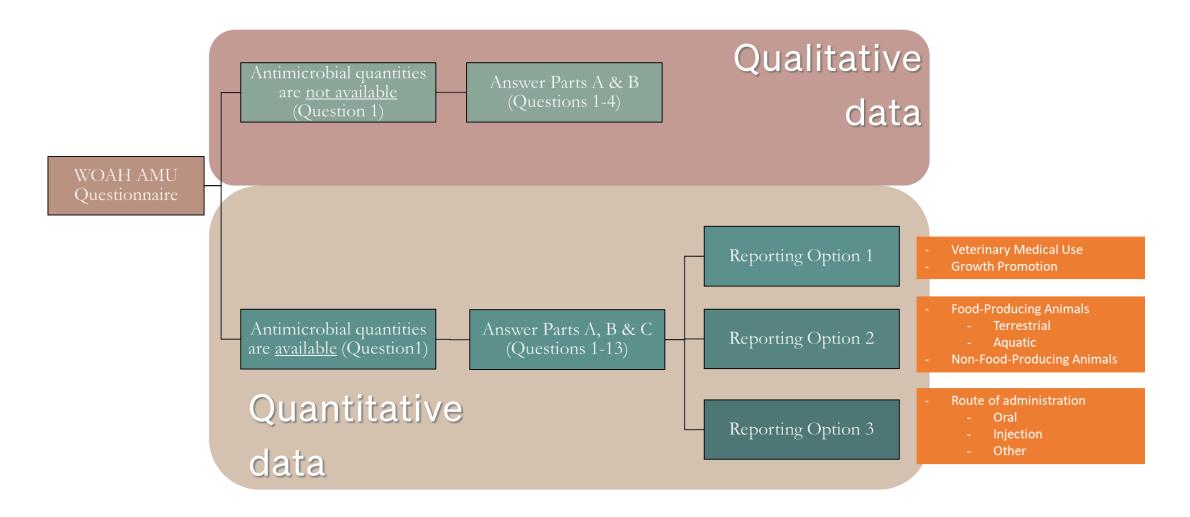






## World Organisation for Animal Health ANIMUSE: Qualitative & Quantitative data





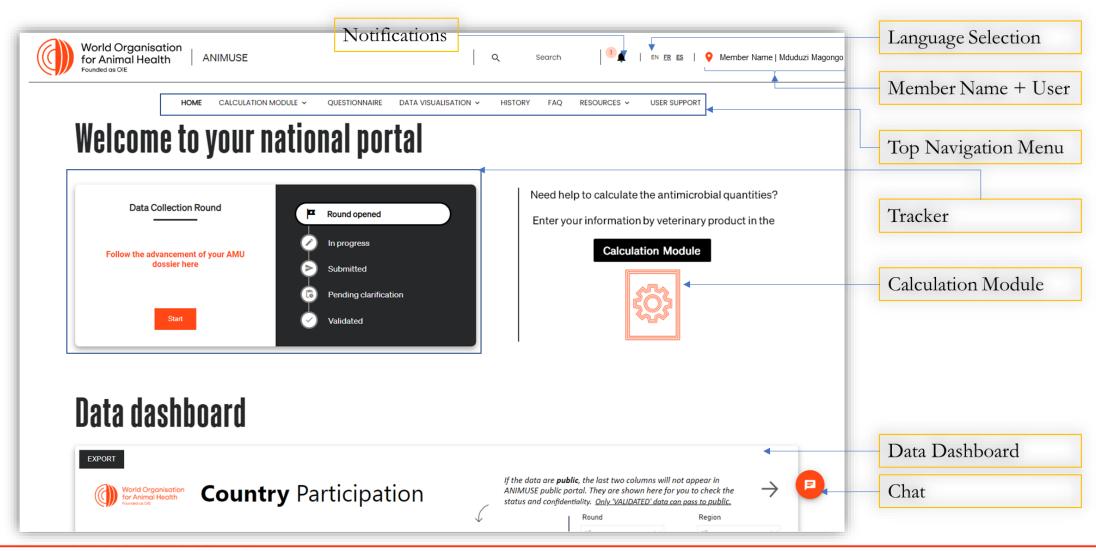






## World Organisation for Animal Health ANIMUSE - National portal: Home page





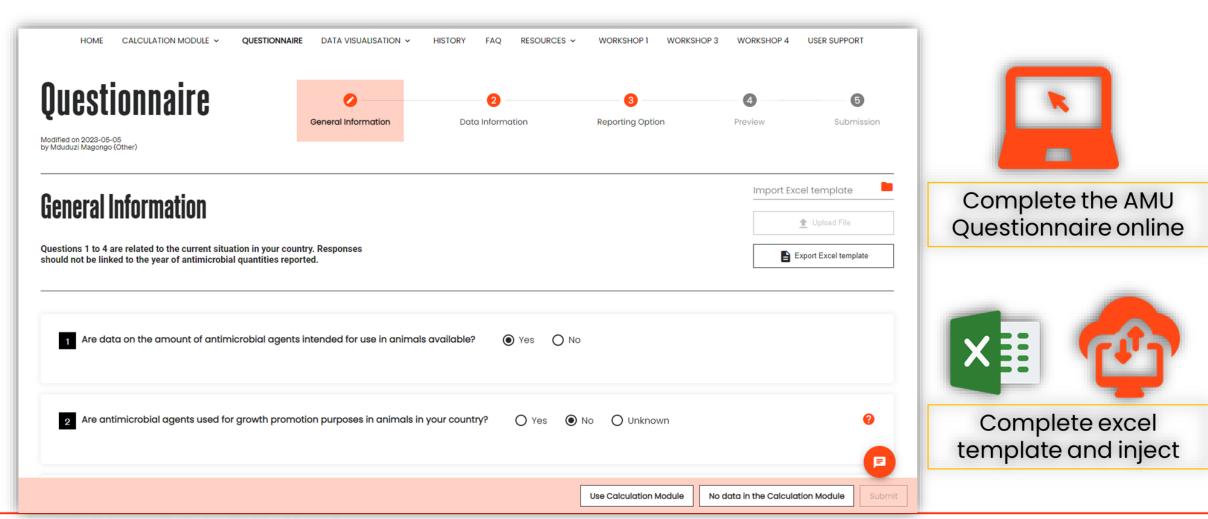






## World Organisation for Animal Health ANIMUSE — Questionnaire







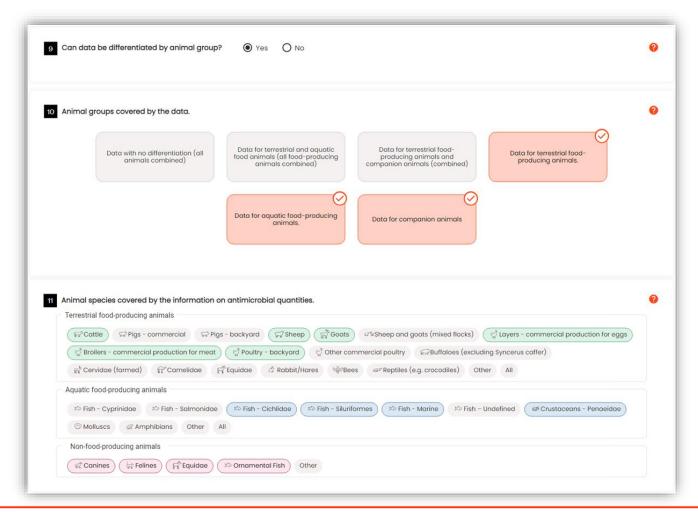






## World Organisation for Animal Health ANIMUSE — Questionnaire











## World Organisation for Animal Health ANIMUSE — Questionnaire



Veterinary Medical Use (including prevention of clinical signs)	Oral route (kg)	Injection route (kg)	Other routes (kg)
Terrestrial food-producing animals			
Aquatic food-producing animals			
All food-producing animals (terrestrial and aquatic)			
Non-food-producing animals			
All animal species			

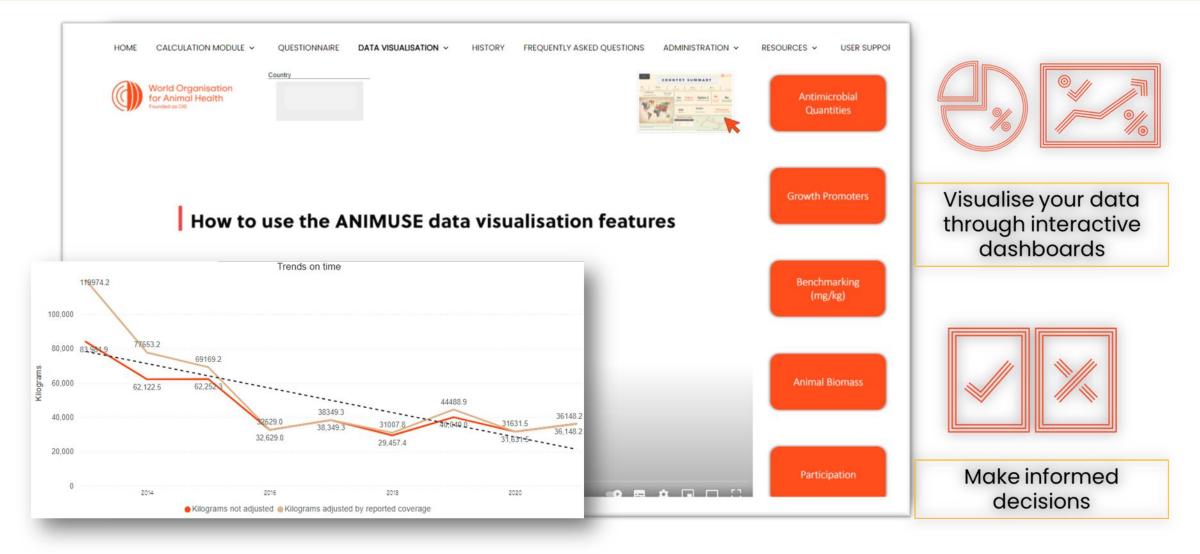






## World Organisation for Animal Health ANIMUSE — Data visualisation





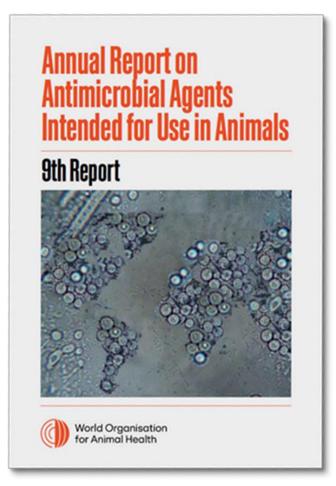






## World Organisation for Animal Health ANIMUSE — 9<sup>th</sup> AMU annual report





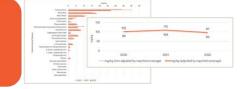
Results of the Ninth Rount (157 Participants)



2022 Analysis of Antimicrobial Quantities (107) Participants)



Trends from 2020 to 2022 (85 Participants)



Published in May 2025







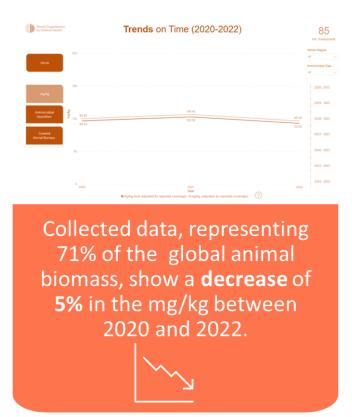


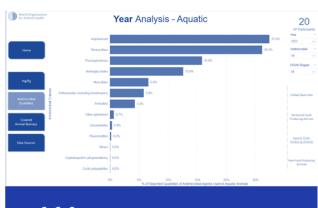
## World Organisation for Animal Health ANIMUSE — 9<sup>th</sup> AMU annual report





**75%** of Participants is now able to provide data by type of use, animals groups and routes of administration (Reporting Option 3)





**111** Participants provided quantitative data for 2022 and only 18 were able to provide specific data for aquatic animals.







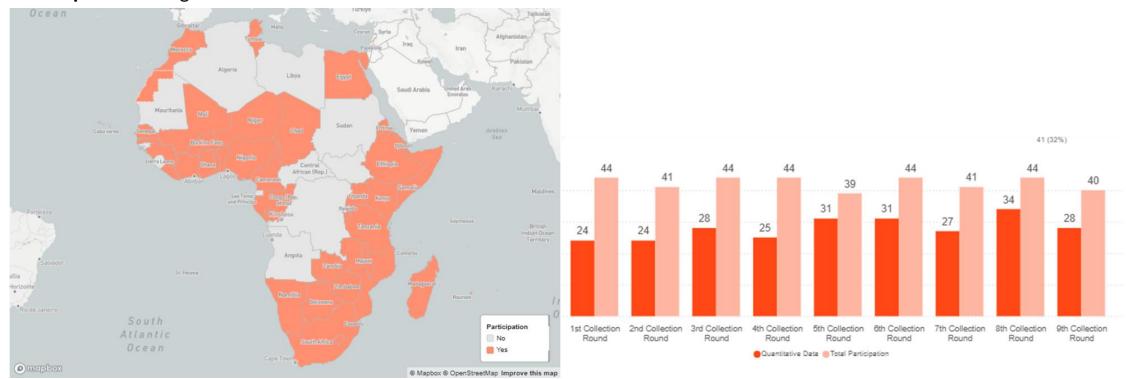


## World Organisation for Animal Health Africa's participation — 9<sup>th</sup> round



The overall participation rate in the current ninth data collection round has changed over time. **Three out of five submitted reports contain quantitative data**, representing a decrease in countries providing AMU reports, this could be explained due to alignment with countries to WOAH's target year.

#### Participation during the 9th round of ANIMUSE

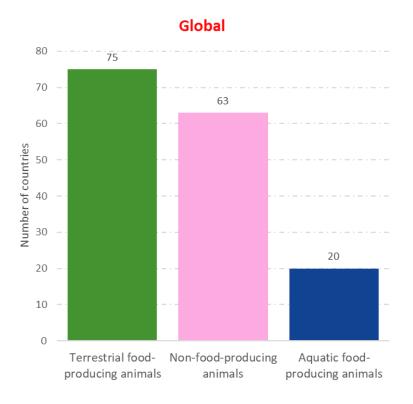


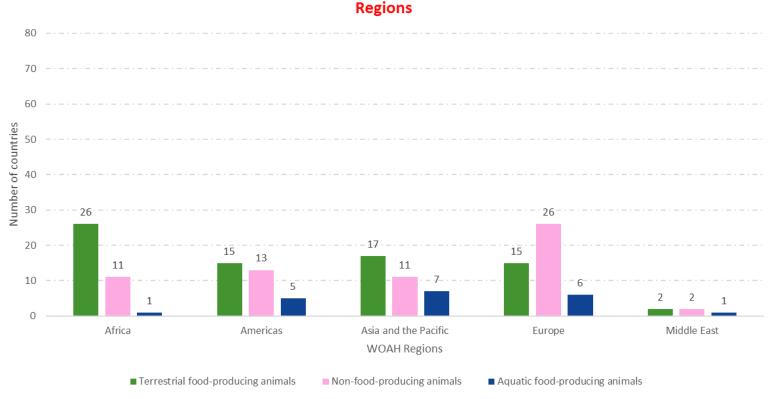




# World Organisation for Animal Health Differentiated quantities — animal groups — 2022









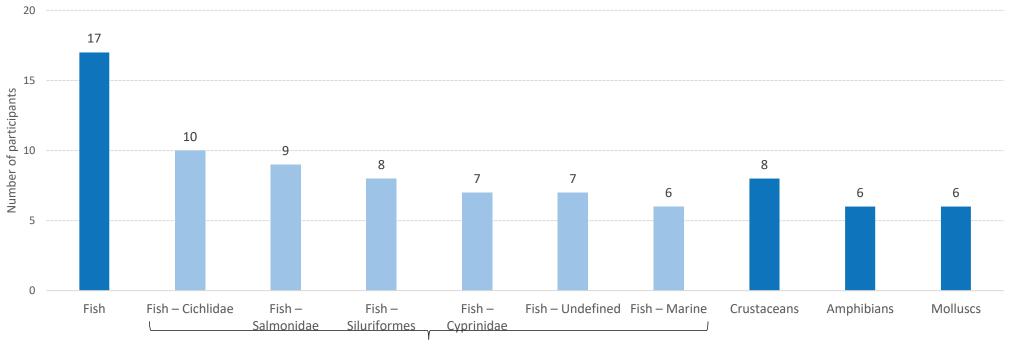




#### Aquatic food-producing animals – 2022



Of the 84 participants who provided quantitative data by animal group in 2022, 18 (n = 84; 21%) provided specific quantities for aquatic food-producing animals. These participants also listed animals covered by the antimicrobial quantities based on the veterinary product labels or known extra-label use.



Sub-categories of fish

Aquatic food-producing animals covered according to the label of the veterinary product



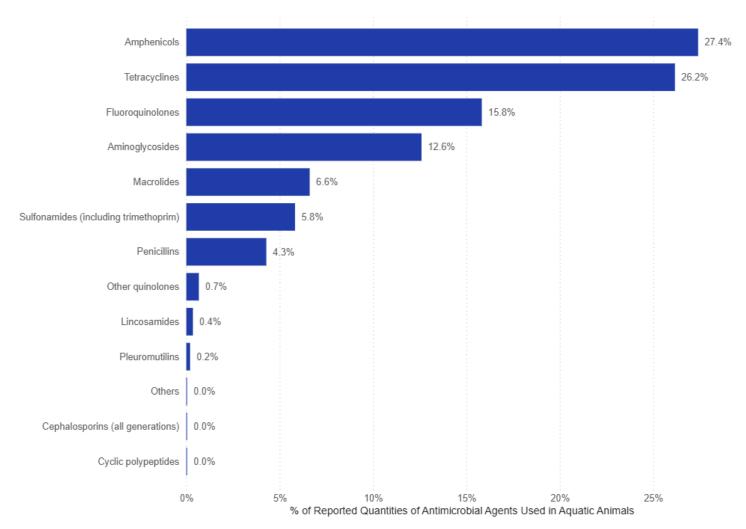




### Antimicrobial classes – aquatic animals – 2022



#### (20 Members)





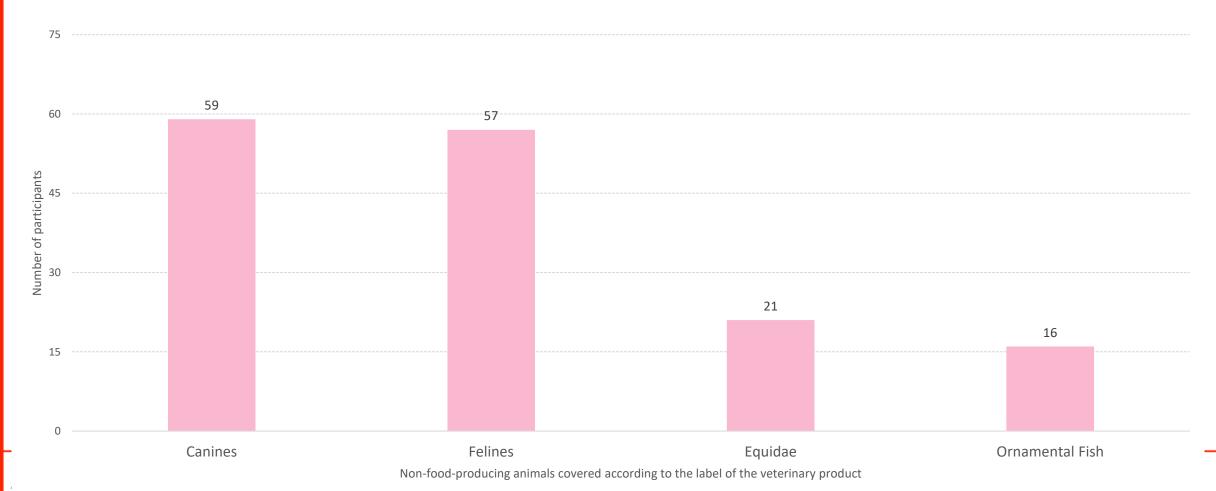




#### Non food-producing animals – 2022



Of the 84 participants able to provide antimicrobial quantities by animal group, 61 (n = 84; 73%) provided specific quantities for non-food-producing animals. All 61 participants were asked to provide a list of animals covered by those quantities, based on the veterinary product labels or known extra-label use.









#### Antimicrobial quantities (numerator) and 💆



#### animal biomass (denominator)

Antimicrobial use is expressed in mg/kg of animal biomass. It is determined by adjusting the quantity of antimicrobial agents reported (mg) by the live domestic animal biomass (kg) each year. This indicator can be compared between regions and over time.



Animal biomass (kg)

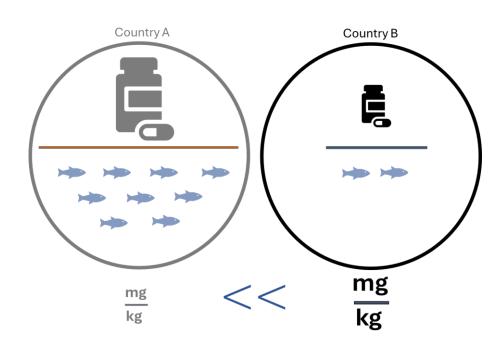


Total weight of food-producing animals in the target year

As reported by the country to WOAH data collection for the target

year

Calculated Animal Biomass of a country for the target year





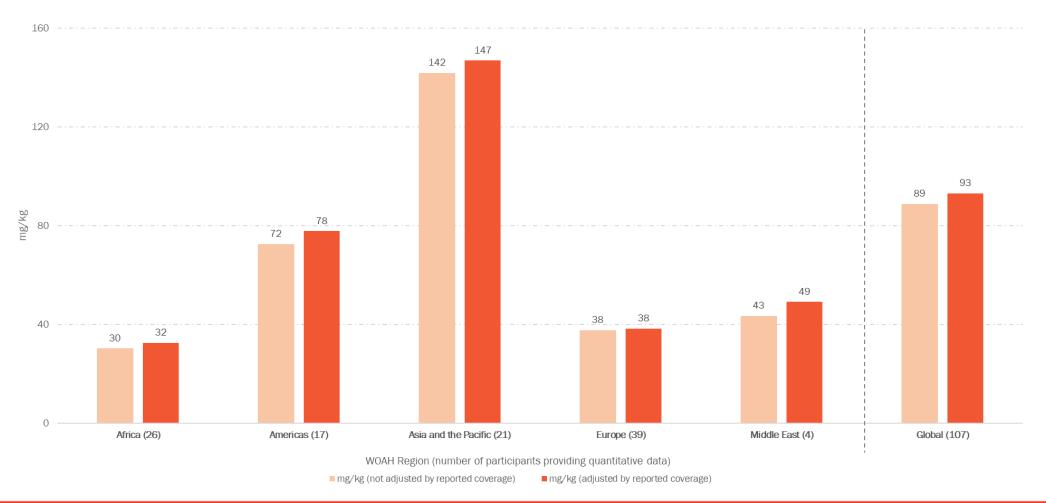




#### AMU adjusted by animal biomass -



### Global & regional – 2022









## AMU terrestrial vs aquatic animals – 2022 🖄

Table 5. Antimicrobial quantities, adjusted by animal biomass, for terrestrial animals and aquatic animals in 2022.

Animal group	Number of participants	mg/kg*	Median (mg/kg)*	Standard deviation (mg/kg)*	Minimum (mg/kg)*	Maximum (mg/kg)*
Terrestrial food-	71	95.37	11.87	73.68	0.001	470.53
producing animals		(98.16)	(15.48)	(77.26)	(0.001)	(470.53)
Aquatic food-	17	20.64	12.71	232.99	0.08	895.40
producing animals		(20.92)	(14.95)	(259.03)	(0.09)	(942.52)

<sup>\*</sup>Adjusted estimated data coverage in brackets.

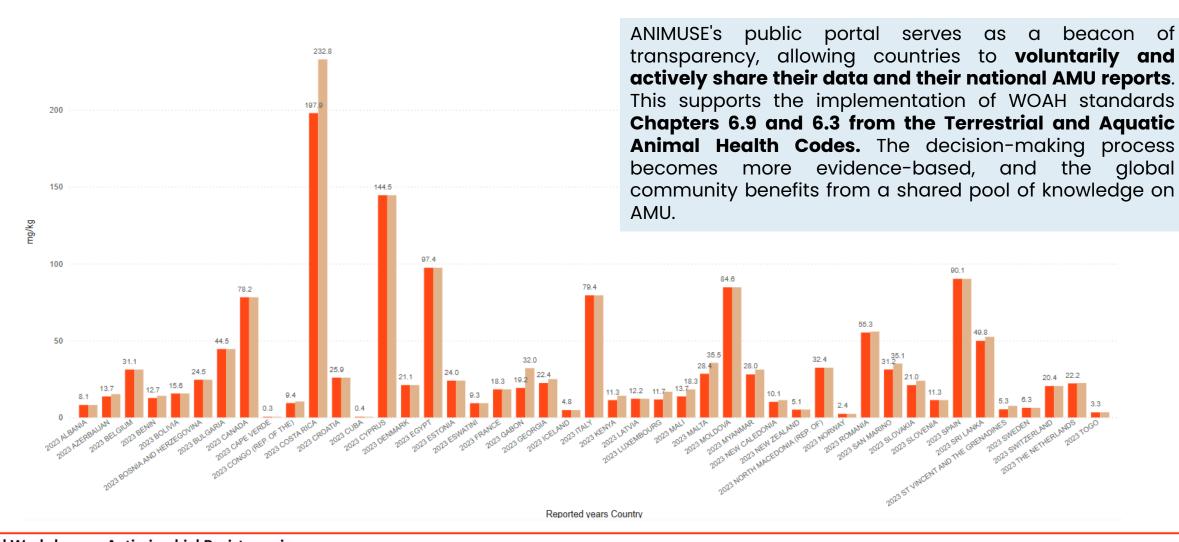






#### **National AMU reports in ANIMUSE**











## Thank you!

Dante Mateo
AMR&VPD - WOAH
d.mateo@woah.org



