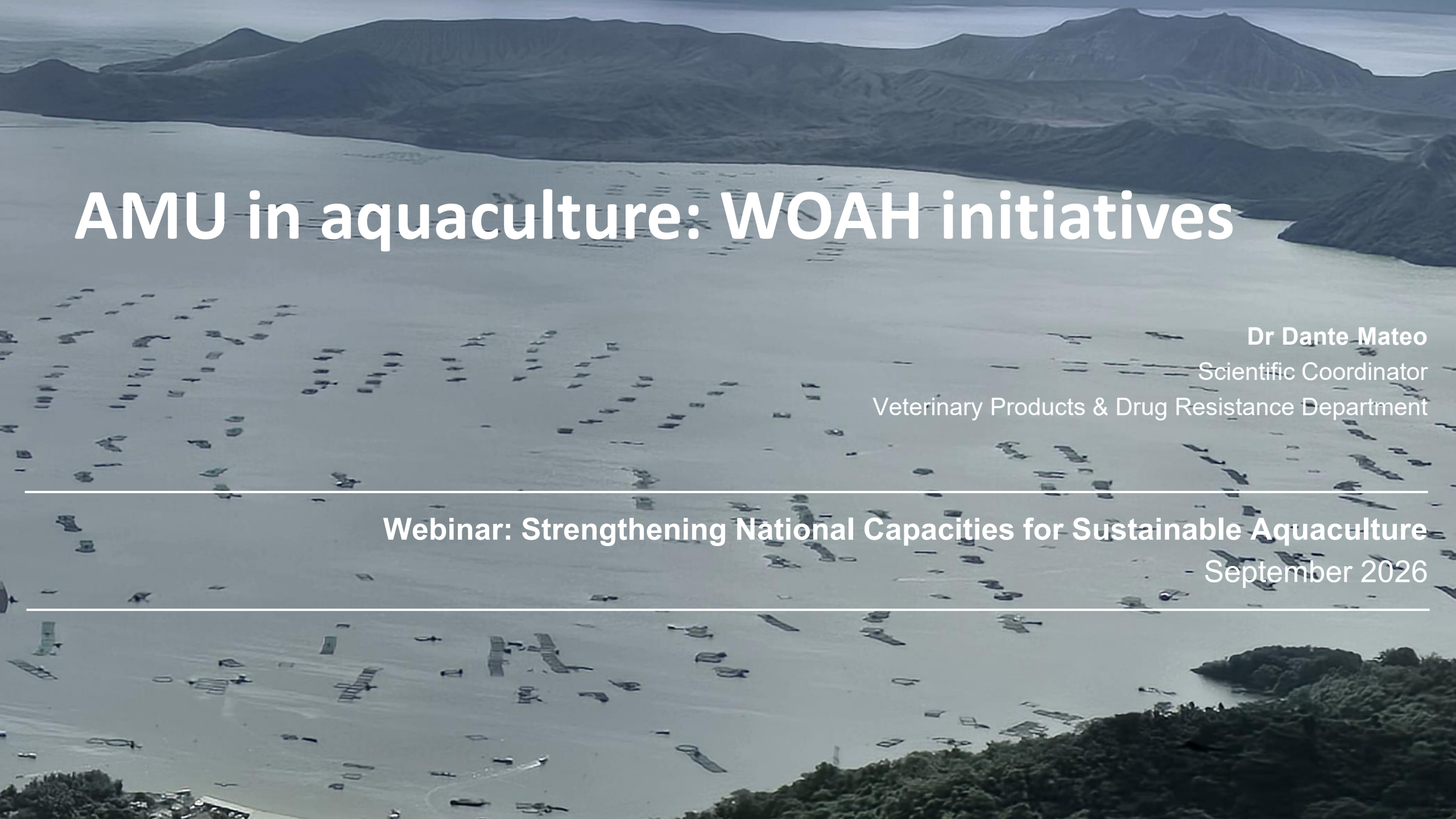




AMU in aquaculture: WOAH initiatives

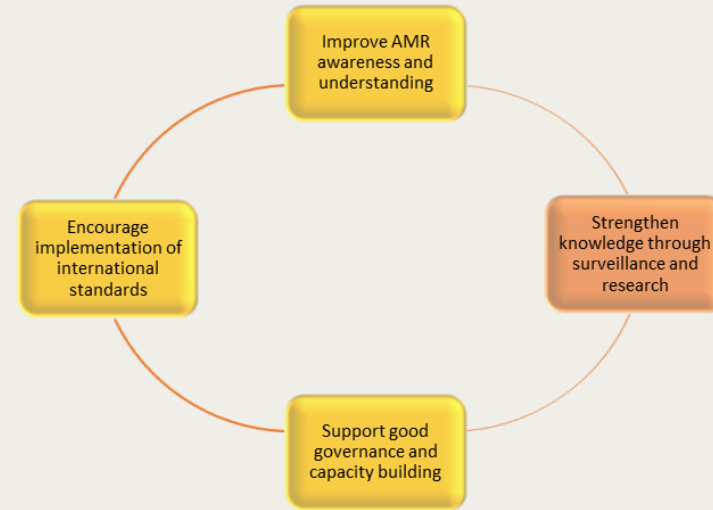
Dr Dante Mateo

Scientific Coordinator

Veterinary Products & Drug Resistance Department

Webinar: Strengthening National Capacities for Sustainable Aquaculture

September 2026

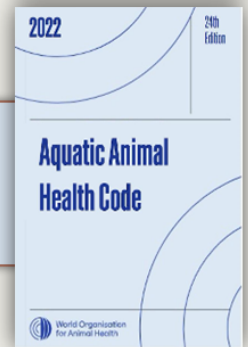
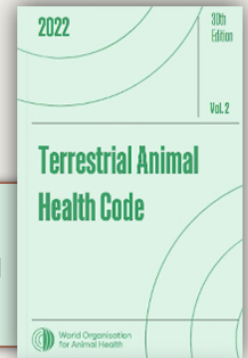


Strengthen knowledge through surveillance and research

- 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.6.9. **Monitoring of the quantities and usage patterns** of antimicrobial agents used in food-producing animals

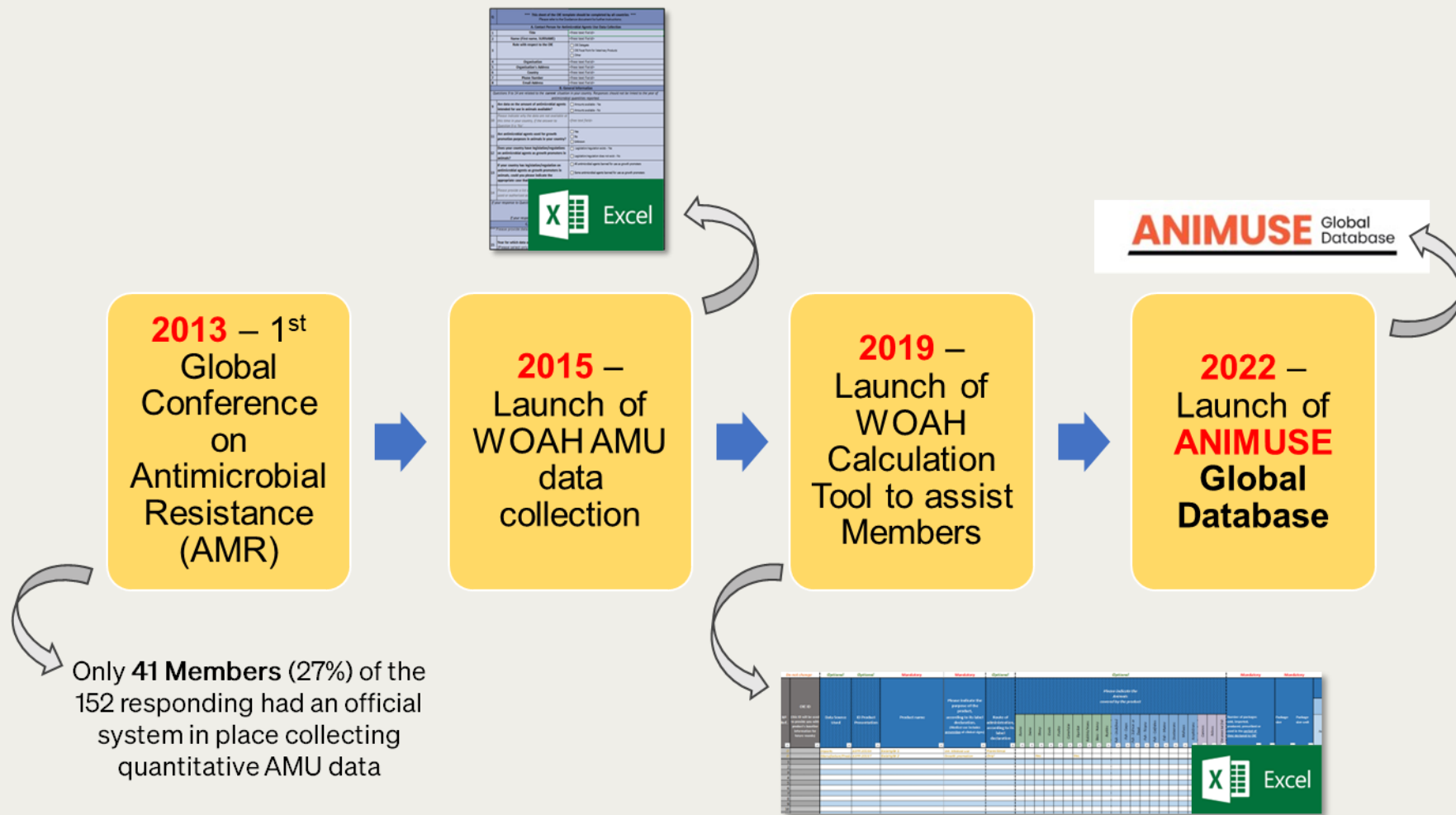
Ch.6.3. **Monitoring of the quantities and usage patterns** of antimicrobial agents used in aquatic animals

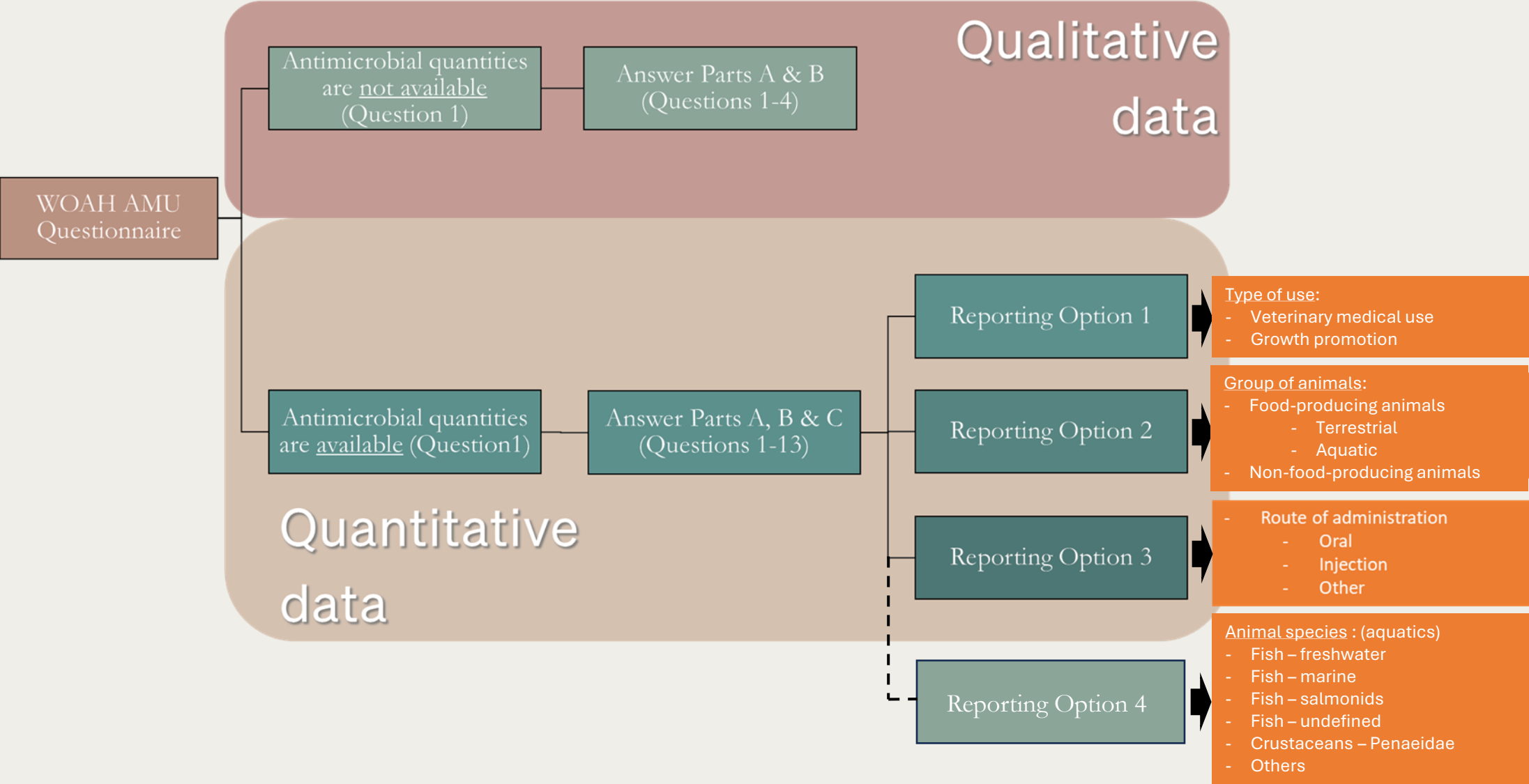




WOAH AMU global data collection

3







ANIMUSE – National portal: Home page

5

The screenshot displays the ANIMUSE National portal Home page. The page features a header with the World Organisation for Animal Health logo and the ANIMUSE title. A search bar and a language selection dropdown (EN, FR, ES) are present. The member name 'Mduuzi Magongo' is displayed. A top navigation menu includes links for HOME, CALCULATION MODULE, QUESTIONNAIRE, DATA VISUALISATION, HISTORY, FAQ, RESOURCES, and USER SUPPORT. The main content area is divided into two sections. The left section, titled 'Welcome to your national portal', contains a 'Data Collection Round' section with a 'Start' button and a 'Round opened' status indicator. The right section, titled 'Need help to calculate the antimicrobial quantities?', contains a 'Calculation Module' button and a gear icon. The bottom section, titled 'Data dashboard', contains an 'EXPORT' button and a 'Country Participation' section. A chat icon is located in the bottom right corner. Annotations with arrows point to various elements: 'Notifications' points to the bell icon; 'Language Selection' points to the language dropdown; 'Member Name + User' points to the member name; 'Top Navigation Menu' points to the navigation bar; 'Tracker' points to the 'Data Collection Round' section; 'Calculation Module' points to the gear icon; 'Data Dashboard' points to the 'EXPORT' button; and 'Chat' points to the chat icon.

World Organisation for Animal Health
Founded as OIE

ANIMUSE

Search

EN FR ES

Member Name | Mduuzi Magongo

HOME CALCULATION MODULE QUESTIONNAIRE DATA VISUALISATION HISTORY FAQ RESOURCES USER SUPPORT

Welcome to your national portal

Data Collection Round

Follow the advancement of your AMU dossier here

Start

Round opened

In progress

Submitted

Pending clarification

Validated

Need help to calculate the antimicrobial quantities?

Enter your information by veterinary product in the

Calculation Module

Data dashboard

EXPORT

World Organisation for Animal Health
Founded as OIE

Country Participation

If the data are **public**, the last two columns will not appear in ANIMUSE public portal. They are shown here for you to check the status and confidentiality. *Only 'VALIDATED' data can pass to public.*

Round Region

Chat



6 Data sources ?

Sales Data

Wholesalers

Retailers

Marketing authorisation holders

Registration Authorities

Feed mills

Pharmacies

Farm shops / Agricultural Suppliers

Industry Trade Associations

Purchase Data

Wholesalers

Retailers

Feed mills

Pharmacies

Agricultural Cooperatives

Producer Organisations

Antimicrobial use data

Farm records

Import Data - Customs declarations

Veterinary Medicinal Product

Active Ingredient

Veterinary data - Sales

Sales

Prescriptions

Other data source(s)

Other



[HOME](#) [CALCULATION MODULE](#) [QUESTIONNAIRE](#) [DATA VISUALISATION](#) [HISTORY](#) [FAQ](#) [RESOURCES](#) [WORKSHOP 1](#) [WORKSHOP 3](#) [WORKSHOP 4](#) [USER SUPPORT](#)

Questionnaire

Modified on 2023-05-05
by Mduzuzi Magongo (Other)

1
General Information

2
Data Information

3
Reporting Option

4
Preview

5
Submission

General Information

Questions 1 to 4 are related to the current situation in your country. Responses should not be linked to the year of antimicrobial quantities reported.

[Import Excel template](#)
[Upload File](#)
[Export Excel template](#)

1

Are data on the amount of antimicrobial agents intended for use in animals available?

☒ Yes ☐ No

2

Are antimicrobial agents used for growth promotion purposes in animals in your country?

☐ Yes ☒ No ☐ Unknown

?

Use Calculation Module

No data in the Calculation Module

Submit



Complete the AMU
Questionnaire online



Complete excel
template and inject



9 Can data be differentiated by animal group? ☒ Yes ☐ No

10 Animal groups covered by the data.

Data with no differentiation (all animals combined)

Data for terrestrial and aquatic food animals (all food-producing animals combined)

Data for terrestrial food-producing animals and companion animals (combined)

Data for terrestrial food-producing animals.

Data for aquatic food-producing animals.

Data for companion animals

11 Animal species covered by the information on antimicrobial quantities.

Terrestrial food-producing animals

☒ Cattle ☒ Pigs - commercial ☒ Pigs - backyard ☒ Sheep ☒ Goats ☒ Sheep and goats (mixed flocks) ☒ Layers - commercial production for eggs
☒ Broilers - commercial production for meat ☒ Poultry - backyard ☒ Other commercial poultry ☒ Buffaloes (excluding Syncerus caffer)
☒ Cervidae (farmed) ☒ Camelidae ☒ Equidae ☒ Rabbit/Hares ☒ Bees ☒ Reptiles (e.g. crocodiles) ☒ Other ☒ All

Aquatic food-producing animals

☒ Fish - Cyprinidae ☒ Fish - Salmonidae ☒ Fish - Cichlidae ☒ Fish - Siluriformes ☒ Fish - Marine ☒ Fish - Undefined ☒ Crustaceans - Penaeidae
☒ Molluscs ☒ Amphibians ☒ Other ☒ All

Non-food-producing animals

☒ Canines ☒ Felines ☒ Equidae ☒ Ornamental Fish ☒ Other



ANIMUSE – Questionnaire

For each type of
antimicrobial class

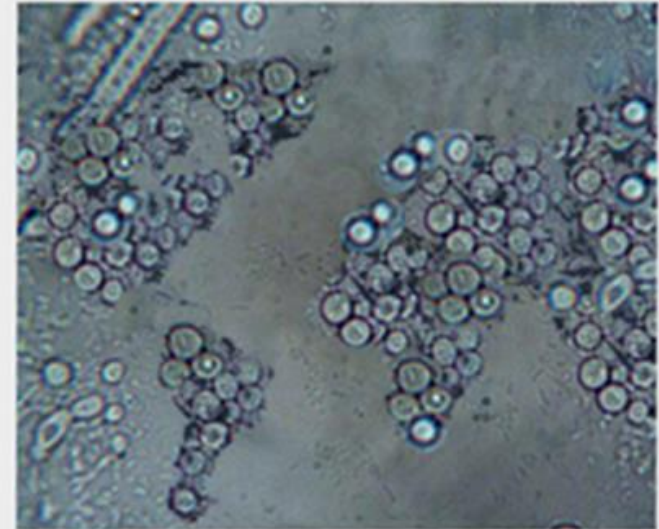


Veterinary Medical Use <i>(including prevention of clinical signs)</i>	Oral route <i>(kg)</i>	Injection route <i>(kg)</i>	Other routes <i>(kg)</i>
Terrestrial food-producing animals			
Aquatic food-producing animals			
All food-producing animals <i>(terrestrial and aquatic)</i>			
Non-food-producing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

Key Figures & 2022 Analysis

Annual Report on Antimicrobial Agents Intended for Use in Animals

9th Report



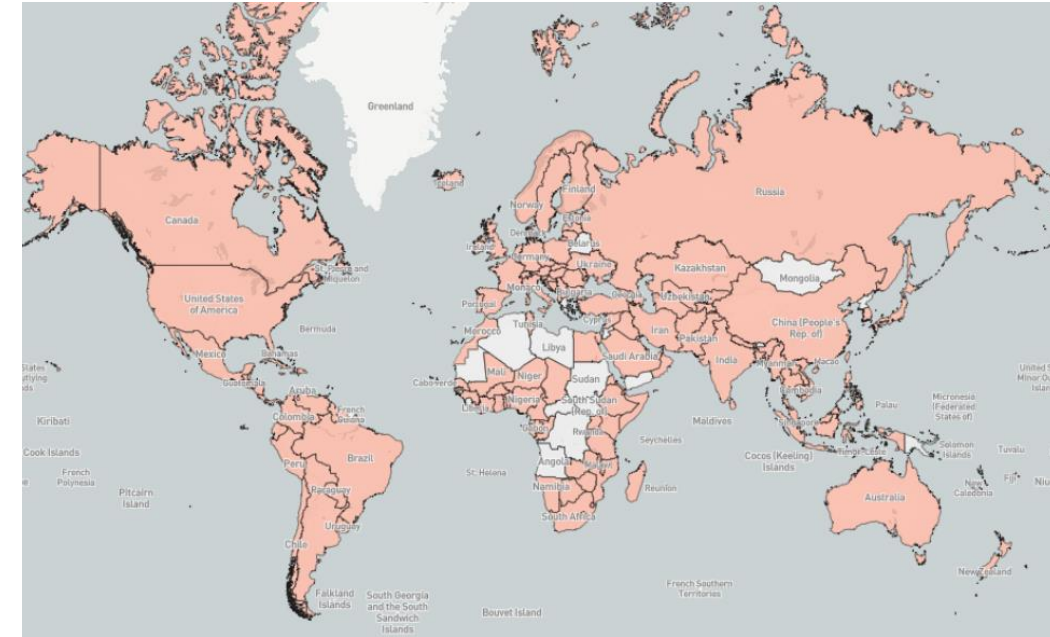
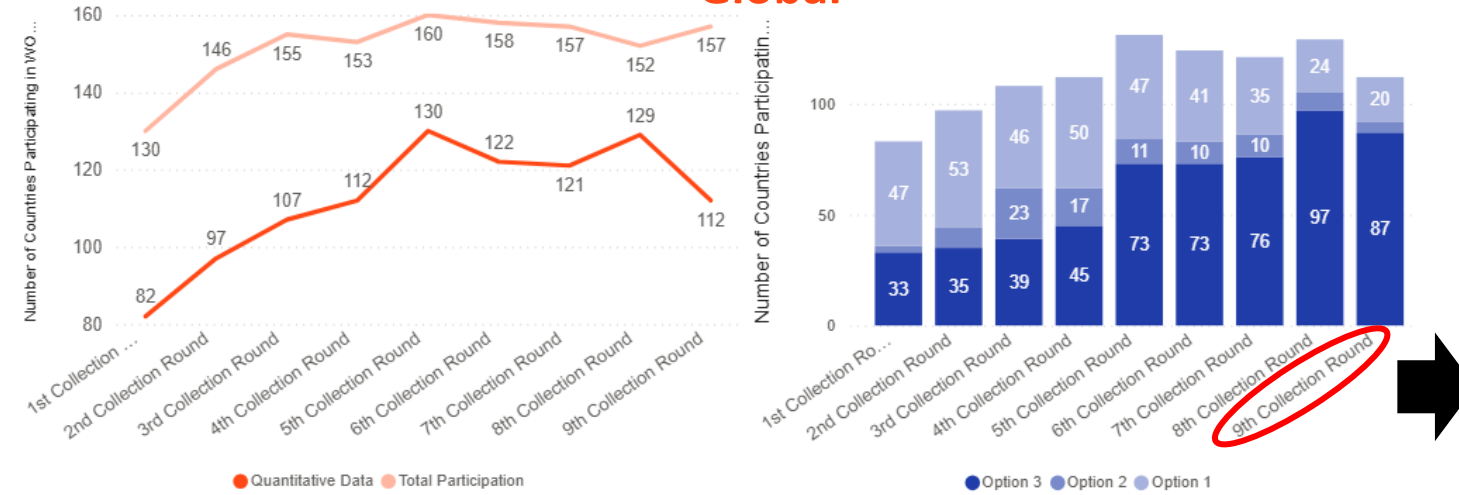
World Organisation
for Animal Health



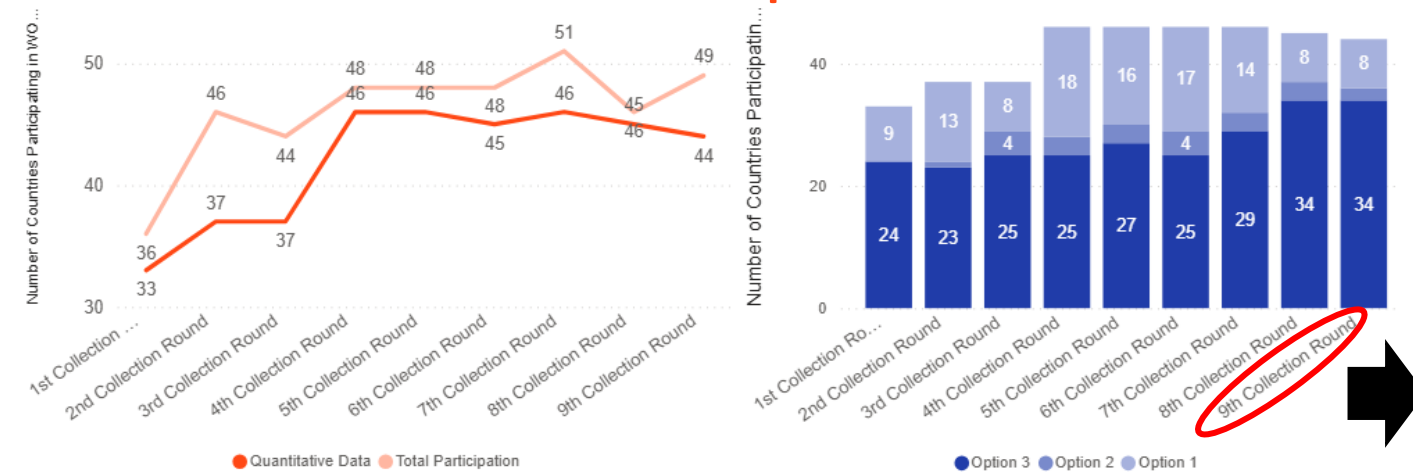
Participation in ANIMUSE – 9th Round

11

Global



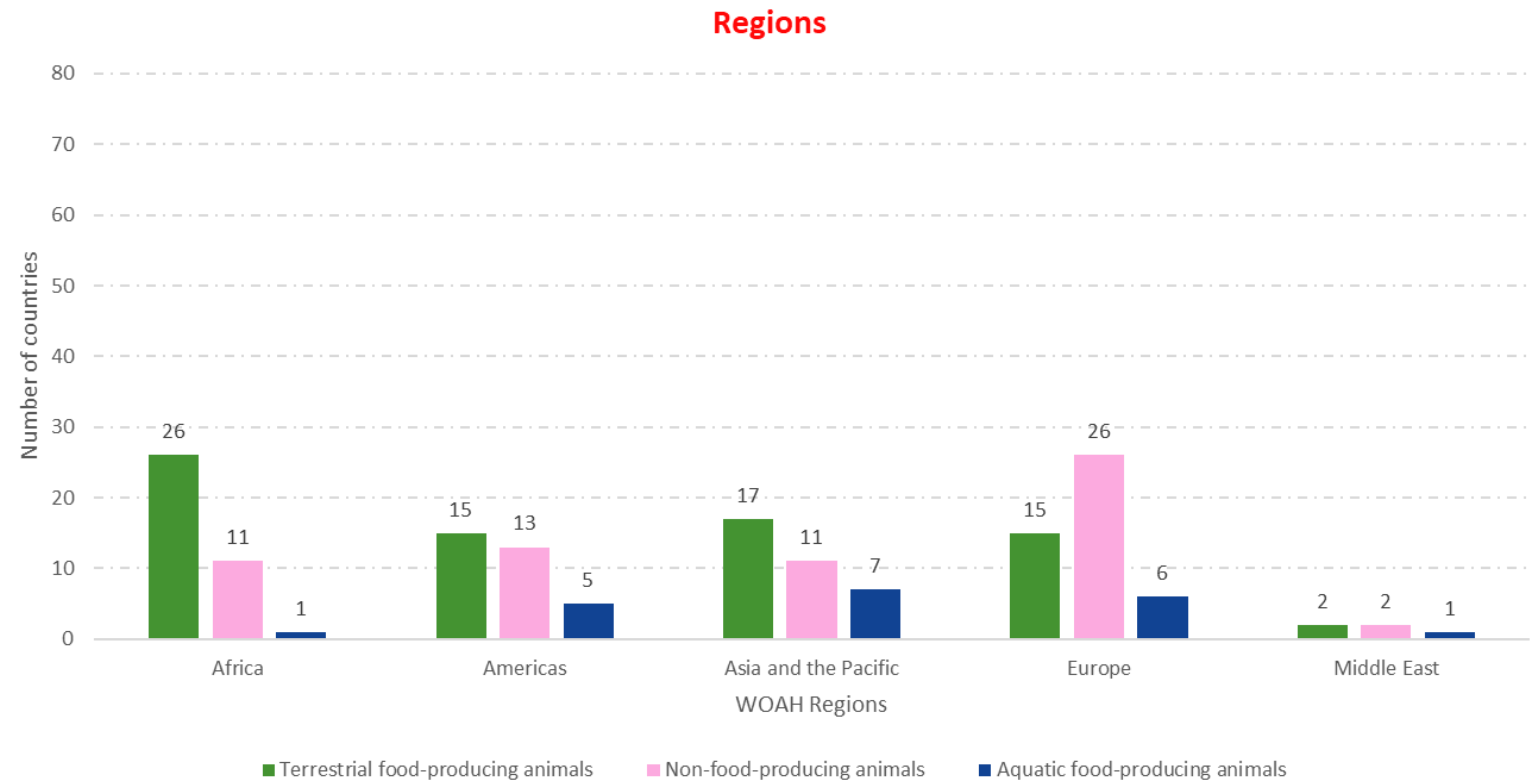
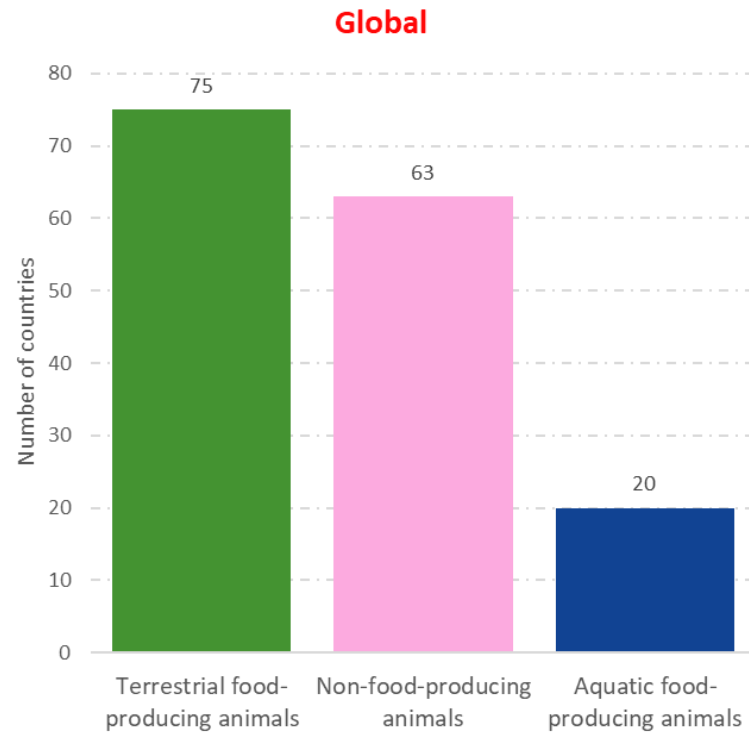
Europe





Differentiated quantities – animal groups – 2022

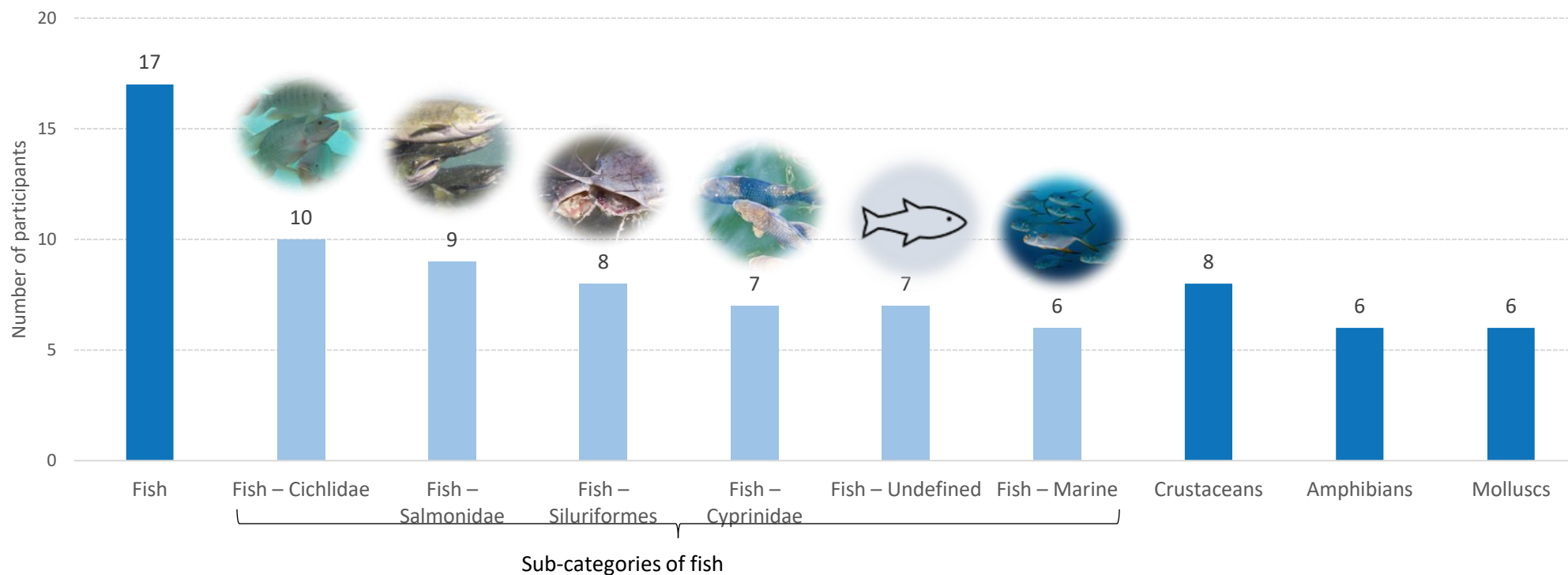
12





Aquatic food-producing animals – 2022

13

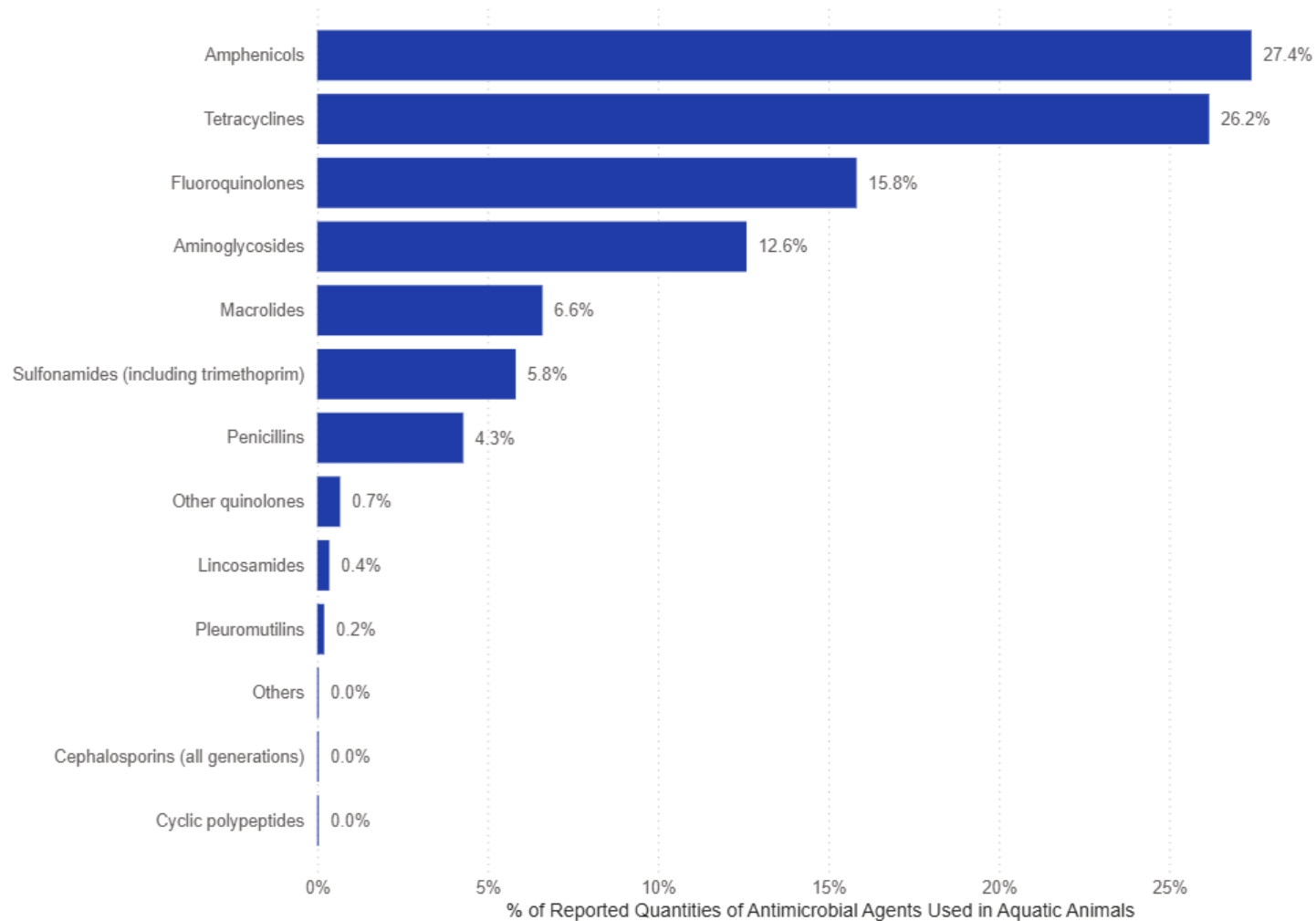


Aquatic food-producing animals covered according to the label of the veterinary product



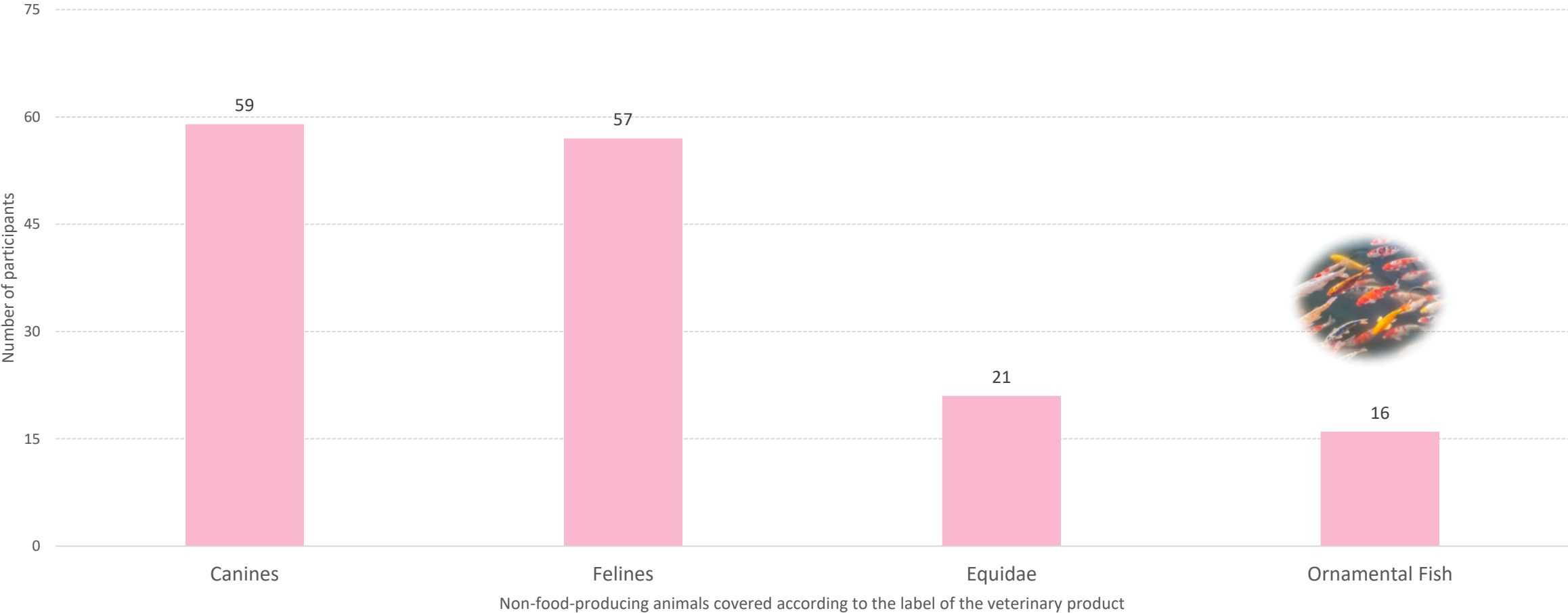
Antimicrobial classes – aquatic animals – 2022

(20 Members)





Non-food-producing animals – 2022





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.

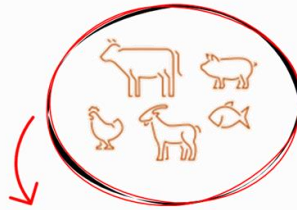
Antimicrobial agents (mg)

Animal biomass (kg)

=



As **reported** by the country to WOA data collection for the target year

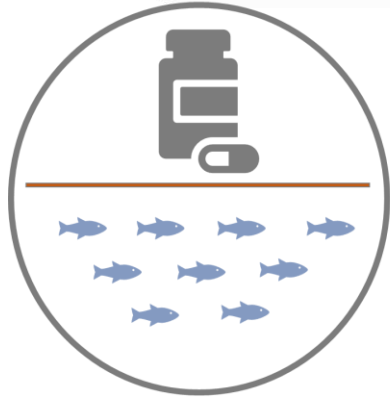


Total weight of food-producing animals in the target year

Calculated Animal Biomass of a country for the target year

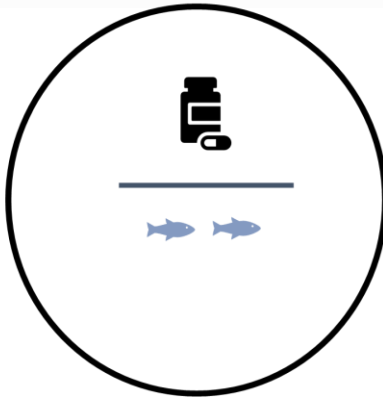
Country A

Country B

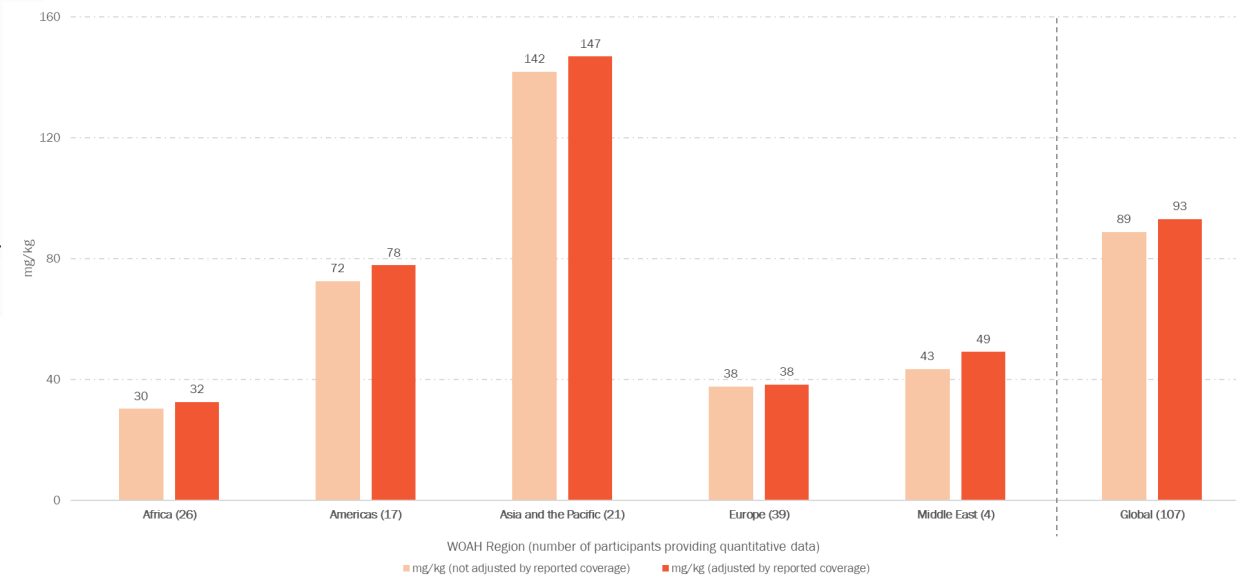


mg
kg

<<



mg
kg



Antimicrobial quantities normalised by estimated animal biomass were compared between terrestrial and aquatic food-producing animals by antimicrobial classes.

Terrestrial food-producing animals

47% covered by AMU data



98
milligrams

of antimicrobials adjusted by
kilograms of animal biomass

Aquatic food-producing animals

64% covered by AMU data



21 milligrams

of antimicrobials adjusted by
kilograms of animal biomass

If you cannot measure it, you cannot improve it.

Lord Kelvin (1824 – 1907)

d.mateo@woah.org

12, rue de Prony, 75017 Paris, France
T. +33 (0)1 44 15 19 49
F. +33 (0)1 42 67 09 87

woah@woah.org
www.woah.org



World
Organisation
for Animal
Health
Founded as OIE

Organisation
mondiale
de la santé
animale
Fondée en tant qu'OIE

Organización
Mundial
de Sanidad
Animal
Fundada como OIE

