# WOAH's antimicrobial use

monitoring in aquatic animals





11 - 12 juillet 2024 Tunis, Tunisie









*Mateo* dinator

WOAH

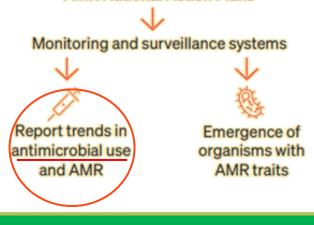
## TO WOAH Strategy on AMR and the Prudent

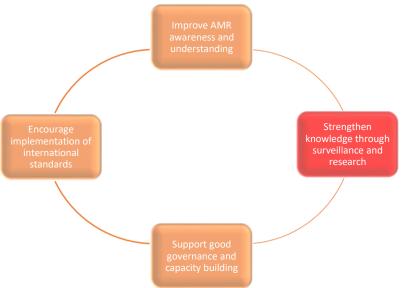
**©** 

The WOAH Strategy supports the objectives established in the Global Action Plan on AMR, developed by WHO with strong contribution from FAO and WOAH. It reflects the mandate of the WOAH, through four main objectives:

# Use of the land research the surveillance and research the surveil

**AMR National Action Plans** 







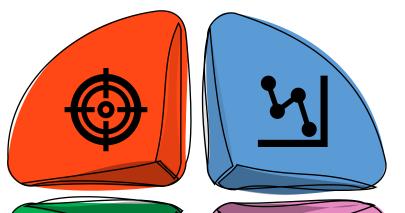
Strengthen knowledge through surveillance and research

- Support Members in developing and implementing monitoring and surveillance systems
- Build and maintain a database on the use of antimicrobial agents in food-producing and companion animals, with associated analysis and <u>annual reporting</u>

## | Comparison | International Standards for AMR - ©

Ch 6.9 & 6.3 Monitoring AMU: Objectives INTERPRETATION EVOLUTION

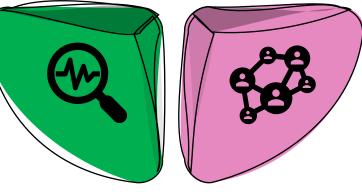
Helping in the interpretation of AMR surveillance data and assisting in responding to problems of antimicrobial resistance in a precise and targeted way



Giving an indication of trends in the use of antimicrobial agents in animals over time and potential associations with AMR in animals

#### **EVALUATION**

Assisting in risk management to evaluate the effectiveness of efforts and mitigation strategies.



#### COMMUNICATION

Ensuring transparency and communicating on the risks (if data published)



#### **©**

# 1st Global Conference on the Resampliff Cropbial agents — Context of Antimicrobial Agents for Animals (France, March 2013)



#### **RECOMMENDATIONS TO WOAH**

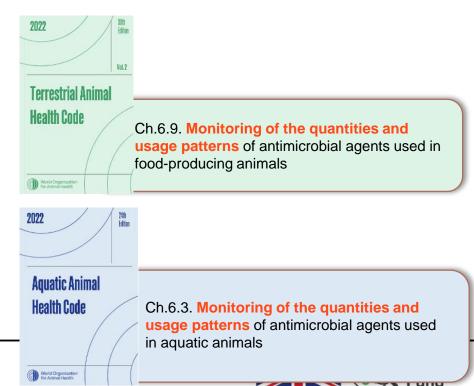
7. To collect harmonised quantitative data on the use of antimicrobial agents in animals with the view to establish a global database



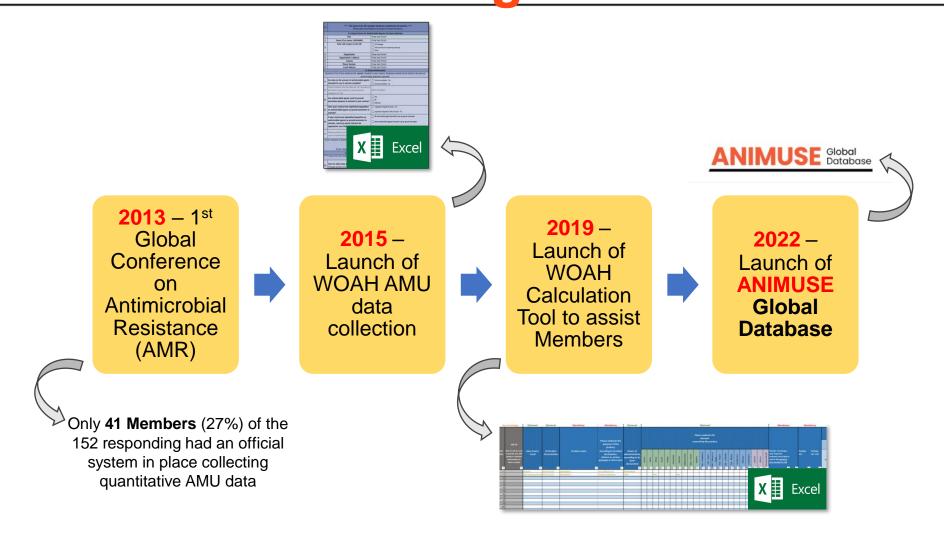
Creation of the OIE [WOAH] ad hoc Group to set up a global database on the use of antimicrobial agents in animals



AMU Questionnaire based on WOAH International Standards for AMR



Résistance aux antimicrobiens (RAM) en aquaculture





## **ANIMUSE Global Database**

World Organisation for Animal Health





ANIMUSE

Search

10

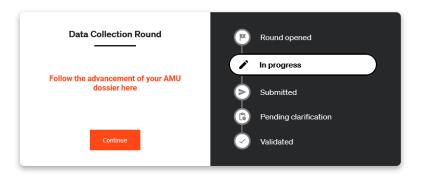
EN FR ES

**! ♀** 

.....

DATA VISUALISATION V FAQ ADMINISTRATION V RESOURCES V USER SUPP

#### **Welcome to your national portal**



Need help to calculate the antimicrobial quantities?

Enter your information by veterinary product in the

**Calculation Module** 



#### **ANIMUSE** allows

the value of preventive measures to



To calculate antimicrobial quantities with the Calculation module

**ANIMUSE: BENEFITS FOR EVERYONE** 

antimicrobial

use in animals

ANIMUSE Global Database

669. Veterinary and Aquatic
RTP Animal Health Services
RTP Animal Health Se

One Healt

Partners

earn about antimicrobi
use in animals to allow



Online access to complete the antimicrobial use (AMU) questionnaire and upload data collected offline.



Historical data access and generate professional outputs for data visualisation

#### **Data dashboard**

World Organisation

World Organisation

World Organisation

World Organisation

World Organisation

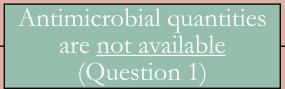
World Organisation

ANIMUSE public portal. They are shown here for you to check the

https://amu.woah.org/amu-system-portal/home

Résistance aux antimicrobiens (RAM) en aquaculture

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Answer Parts A & B (Questions 1-4)

# Qualitative data

WOAH AMU Questionnaire

> Antimicrobial quantities are available (Question1)

data

Quantitative

Answer Parts A, B & C (Questions 1-13)

Reporting Option 2

Reporting Option 1

Reporting Option 3

Résistance aux antimicro.

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#### WOAH Global database on antimicrobial agents intended for use in animals

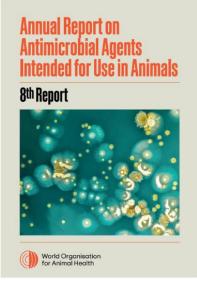




Results of the Eighth Round (152 Countries)

2021 Analysis of Antimicrobial Quantities (94 Countries)

Trends from 2019 to 2021 (81 Countries)



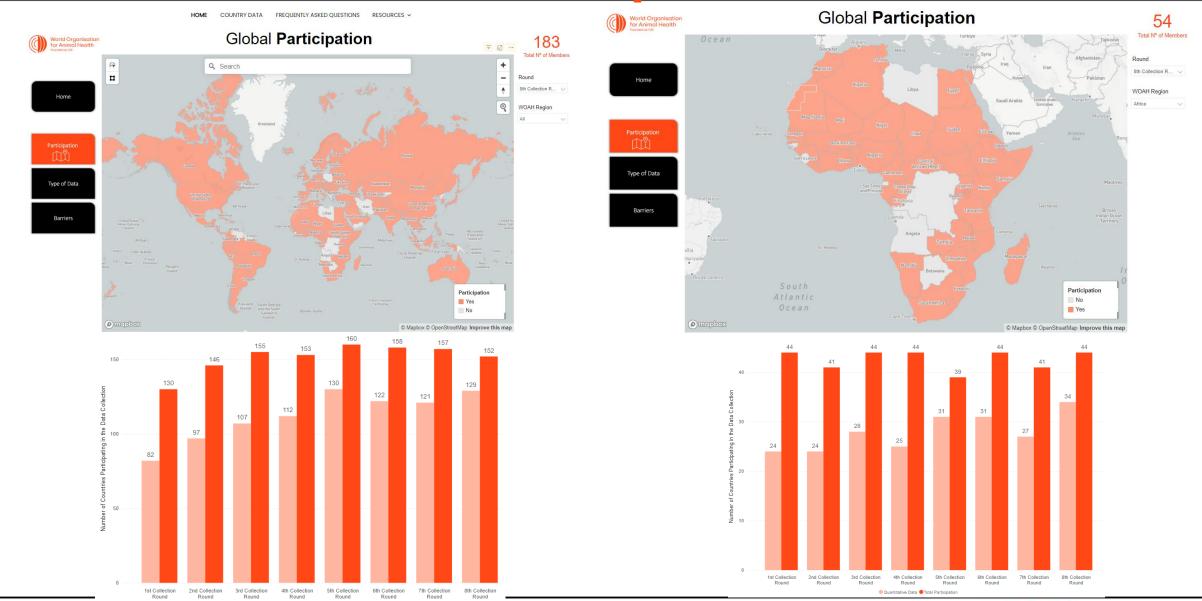


**Growth Promoters** 

National Reports

## **CANDUSE Interactive Report – 8th Round:**





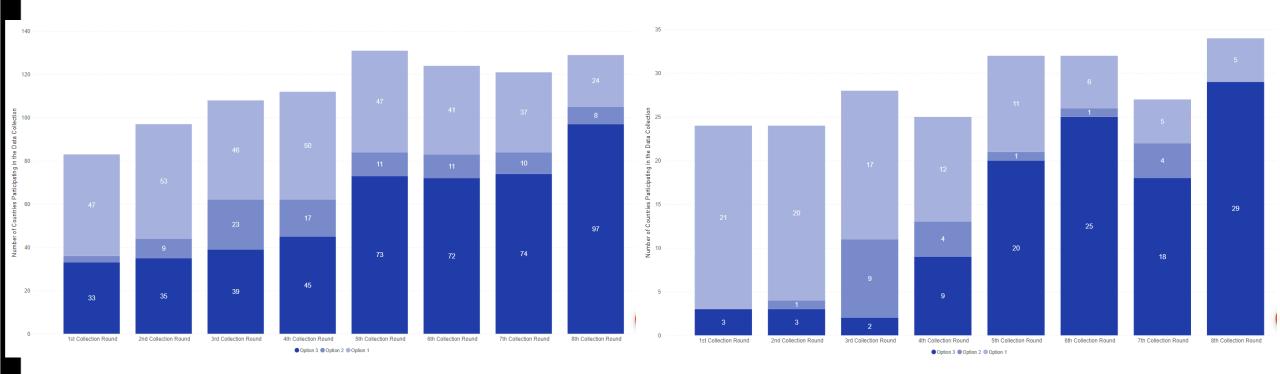


## **CANIMUSE:** Participation (all rounds) –



## **Reporting Options**

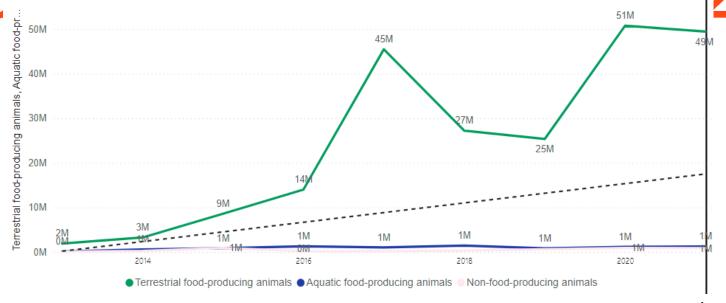
Global Africa



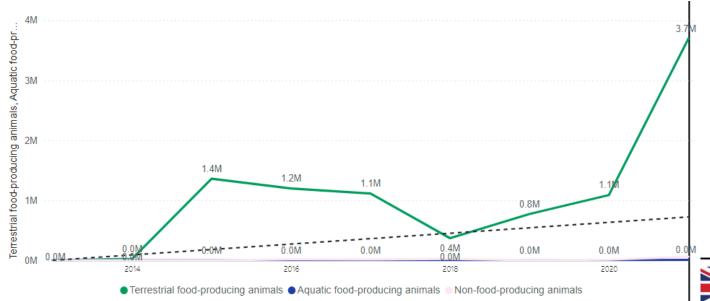
## antities of AMU in terrestrial and aquatic



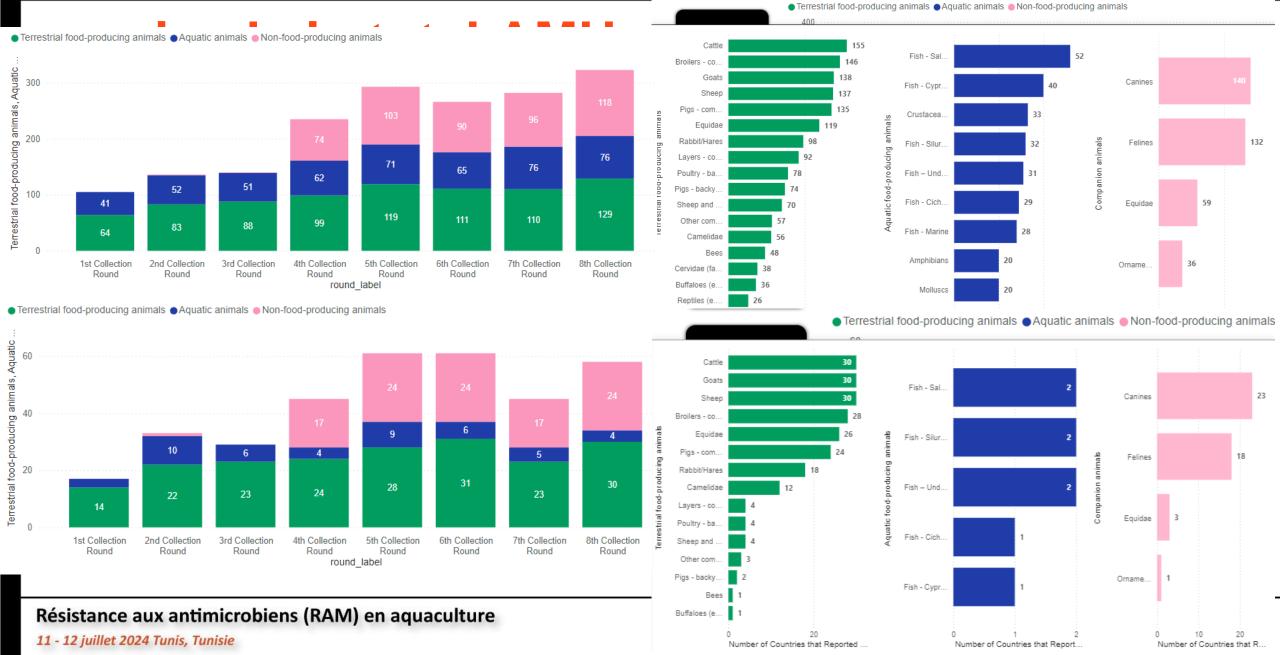




Africa







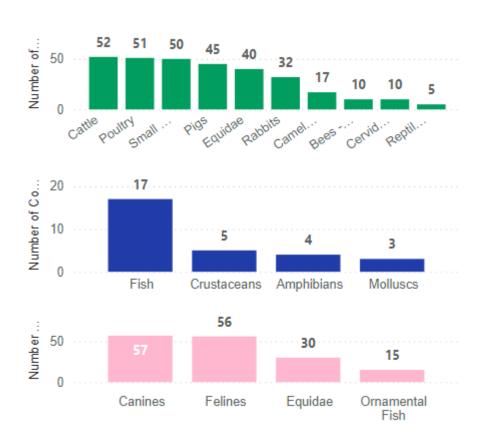


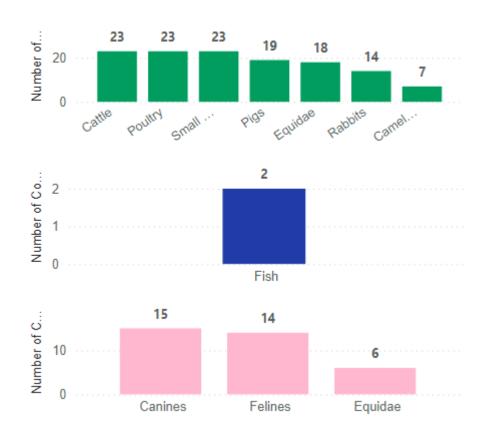
### <u>lumber of countries reporting AMU</u>



Global

# quantities for aquatic animals (2021)



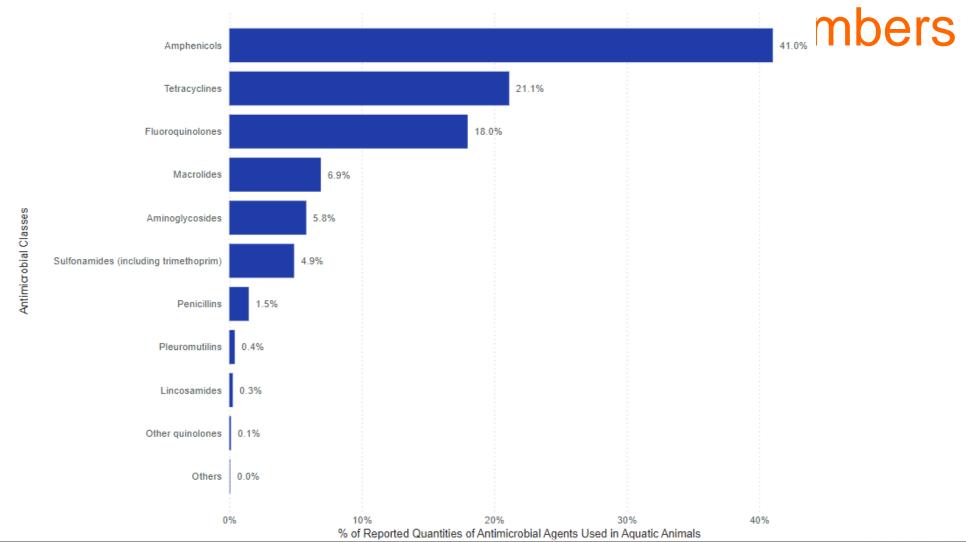




# Proportion of antimicrobial classes



## reported for use in aquatic food-





# Preganisation mondiale representation mondiale representation and an analysis (numerator) and

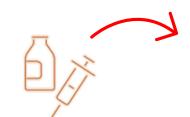


## WOAH Animal Biomass (denominator)

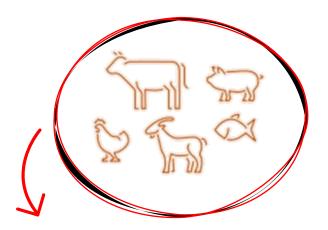
Antimicrobial use is expressed in mg/kg of animal biomass. It is determined by adjusting the quantity of antimicrobial agents reported (mg) by the live domestic animal biomass (kg) each year. This indicator can be compared between regions and over time.

Antimicrobial agents (mg)

Animal biomass (kg)



As reported by the country to the OIE 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





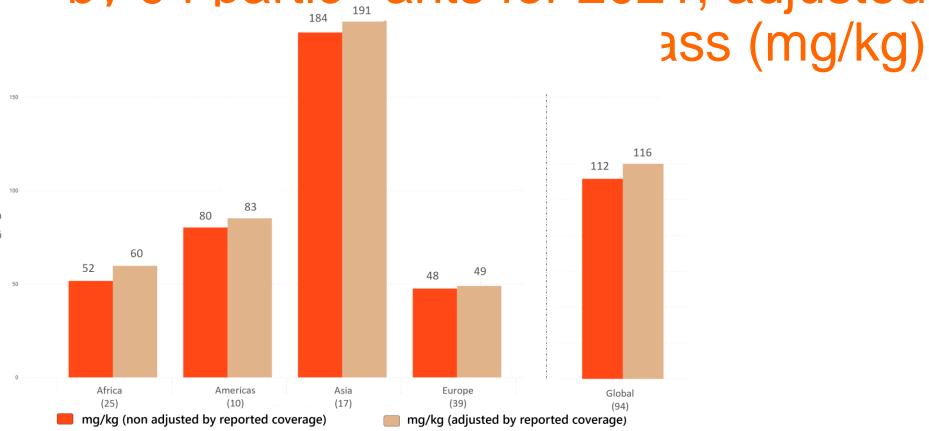




## Global and regional quantities of



antimicrobial agents intended for use in animals based on data reported by 94 participants for 2021, adjusted





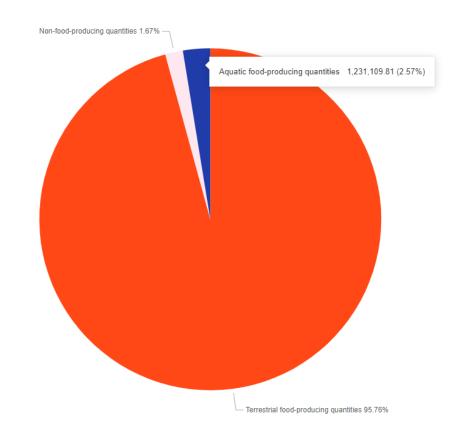
## Proportion of AMU in ©



# terrestrial and aquatic food-producing animals (2021)

Animal group	Number of participants	Mean (mg/kg)*	Median (mg/kg)*	Standard deviation (mg/kg)*	Minimum (mg/kg)*	Maximum (mg/kg)*
Terrestrial food-producing animals	17	169.86 (203.05)	29.44 (34.39)	320.84 (422.40)	0.92 (1.26)	1,140.45 (1,733.06)
Aquatic food-producing animals	17	104.64 (112.88)	23.66 (23.70)	264.19 (293.25)	0.73 (0.73)	1,265.67 (1,267.17)

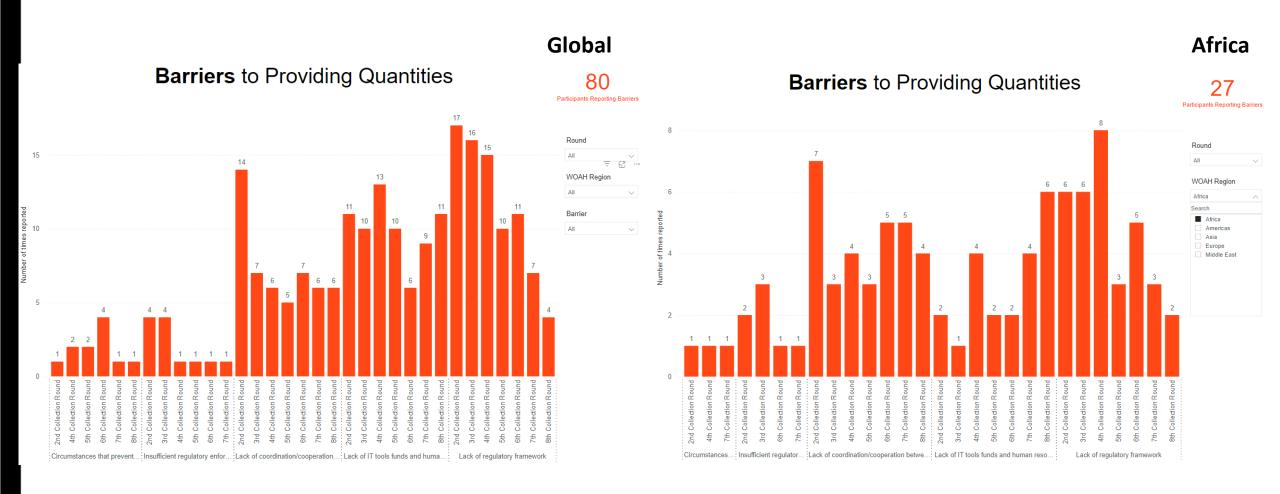
<sup>\*</sup>Adjusted estimated data coverage in brackets.



## **ANIMUSE** Interactive Report: Participation



## (all rounds) - Barriers





## Barriers for reporting AMU - Survey on



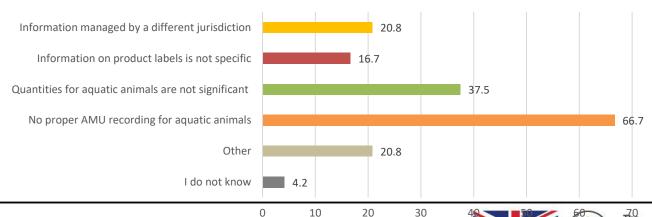
AMU/AMR in Aquaculture 2022



Information managed by a different jurisdiction		11.2							
Information on product labels is not specific		8.2							
Quantities for aquatic animals are not significant				26	.5				
No proper AMU recording for aquatic animals							48.0		
Other				23.5					
I do not know			15.3						
	0	10	20	3	0 4	0 .	50	60	70

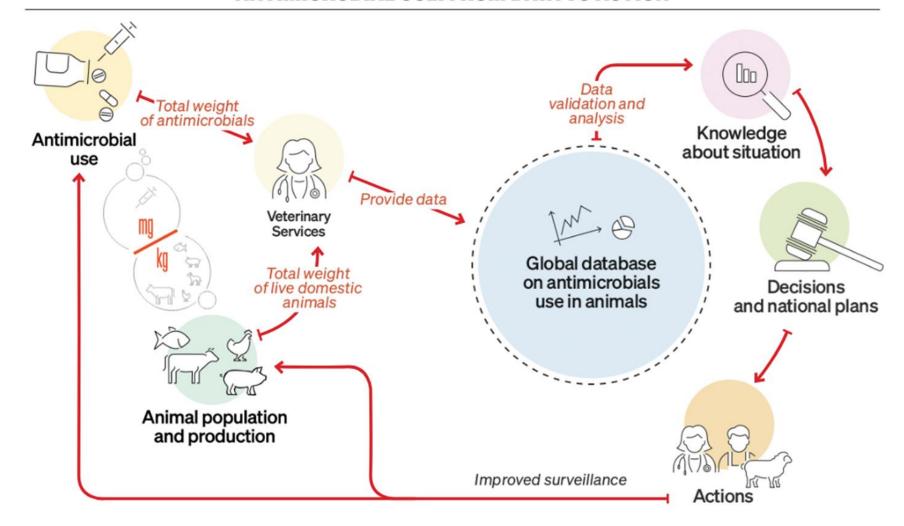
Region	FP-AA	FP-VP	Total FP	Total countries
Africa	25	17	42	31
Americas	22	14	36	24
Asia	15	7	22	19
Europe	30	15	45	33
Middle East	8	4	12	10
			157	117

#### Main difficulties to report AMU quantities in aquatic animals - Africa





#### **ANTIMICROBIAL USE: FROM DATA TO ACTION**





# Thank you

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