World Organisation for Animal Health

Training Seminar for National Veterinary Products Focal Points

Veterinary Products: A Vital Tool for Improving Animal Health and Welfare

05 – 07 September 2023 Lilongwe, Malawi

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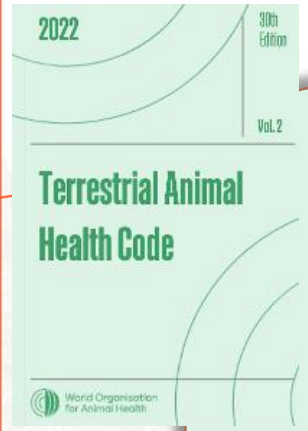
WOAH International Standards for AMR



https://www.woah.org/en/what-we-do/standards/codes-and-manuals/terrestrial-code-online-access/

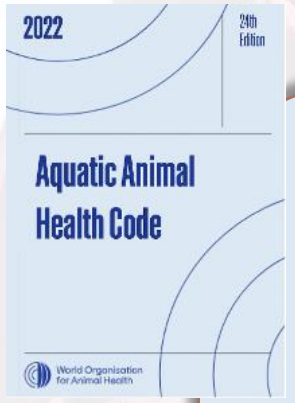
Ch.6.7. **Introduction** to the recommendations for controlling antimicrobial resistance

Ch.6.8. Harmonisation of national AMR **surveillance and monitoring** programmes

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

Ch.6.10. **Responsible and prudent use** of antimicrobial agents in veterinary medicine

Ch.6.11. **Risk analysis** for AMR arising from the use of antimicrobial agents in animals



https://www.woah.org/en/what-we-do/standards/codes-and-manuals/aquatic-code-online-access/

Ch. 6.1. **Introduction** to the recommendations for controlling antimicrobial resistance

Ch.6.2. Principles for **responsible and prudent use** of antimicrobial agents in aquatic animals

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

Ch.6.4. Development and harmonisation of national AMR **surveillance and monitoring** programmes for aquatic animals

Ch.6.5. **Risk analysis** for AMR arising from the use of antimicrobial agents in aquatic animals

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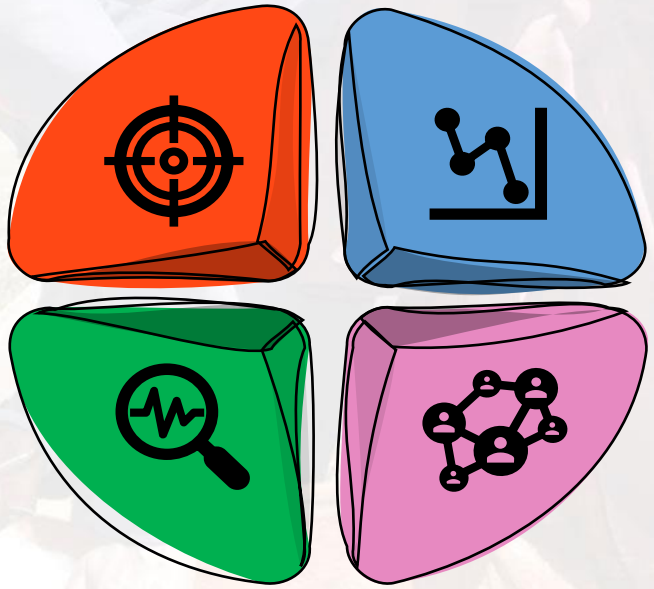
Ch.6.9. & 6.3. Objectives – Importance of monitoring Antimicrobial Use (AMU)

INTERPRETATION

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

EVOLUTION

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)

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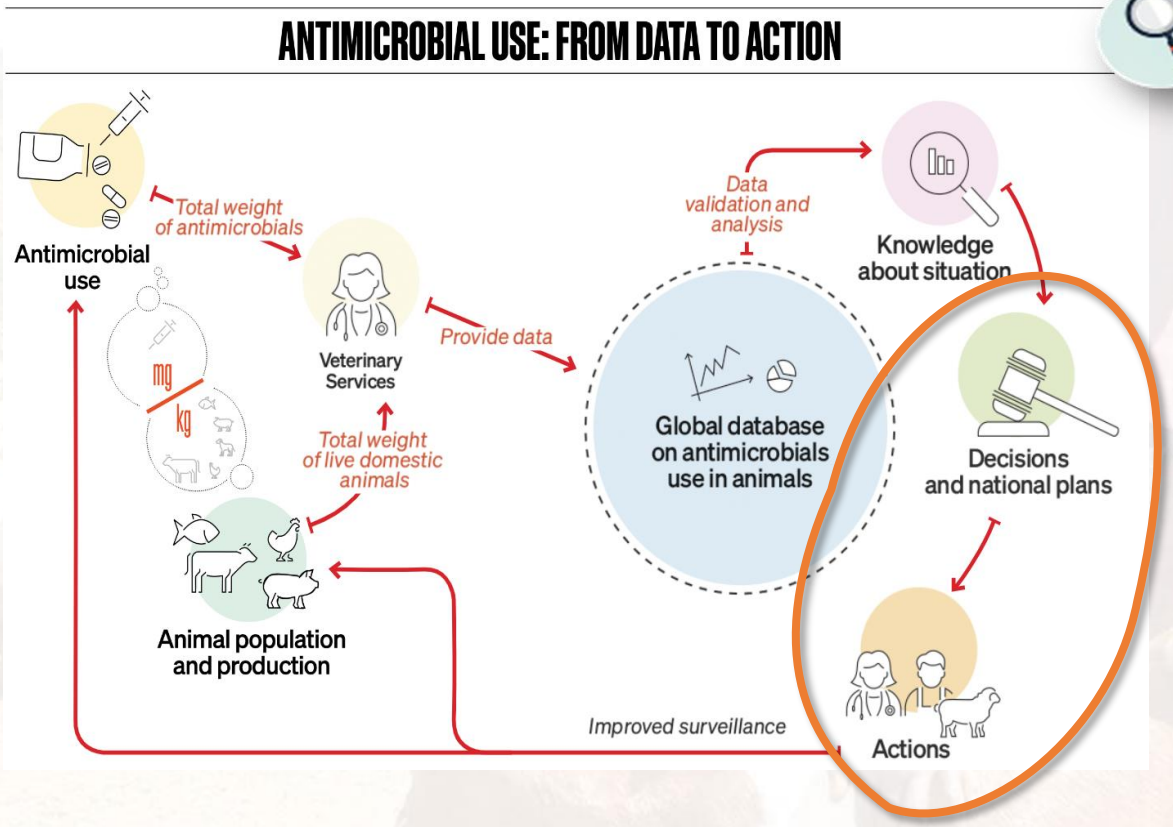
WOAH Strategy on AMR and the Prudent Use of Antimicrobials



Strengthen knowledge through surveillance and research

- Support Members in **developing and implementing monitoring and surveillance systems**
- Build and maintain a **database for collecting data on the use of antimicrobial agents in food-producing and companion animals**, with associated analysis and annual reporting
- **Enhance the development, use and functionality of WAHIS** to allow analysis of data on antimicrobial use
- **Guide and support research into alternatives to antibiotics** to encourage the development and uptake of new tools, products and methodologies
- Identify and pursue **opportunities for public-private partnerships in AMR research and risk management**

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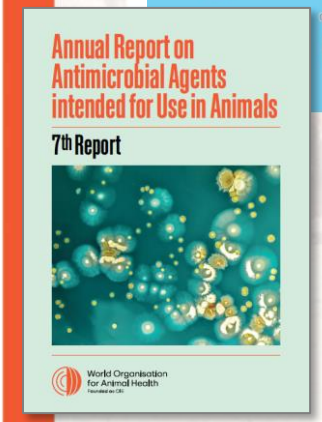
Strengthening knowledge through surveillance and research

What is ANIMUSE?



- It stands for ANImal antiMicrobial USE → ANIMUSE Global Database
- It started in October 2015
- 9th **Round of data** collection started yesterday!
- From the 183 WOAH Members, around **150 to 160 Members participate** during each round
- **Seven reports** have been published with data aggregated at global and regional levels

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WOAH's Reporting Options

The sections of the WOAH Template named 'Reporting Options' 1, 2 and 3, collect the quantities of antimicrobial agents intended for use in animals.

Qualitative Data

(Part A & B of the Baseline Information sheet)

All countries can answer

+

Quantitative Data

(Part C of the Baseline Information sheet)

Only countries reporting antimicrobial quantities can answer

Reporting Option 1

- ✓ Antimicrobial classes
- ✓ Type of use*

Reporting Option 2

- ✓ Antimicrobial classes
- ✓ Type of use*
- ✓ **Animal groups****

Reporting Option 3

- ✓ Antimicrobial classes
- ✓ Type of use
- ✓ Animal groups**
- ✓ **Routes of administration**

* Type of use: veterinary medical use or growth promotion
**For the purposes of the WOAH database, animal groups means: 'terrestrial food-producing animals', 'aquatic food-producing animals' or 'companion animals'

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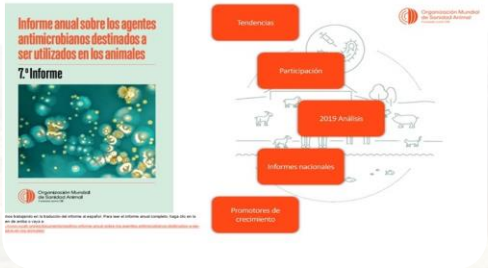
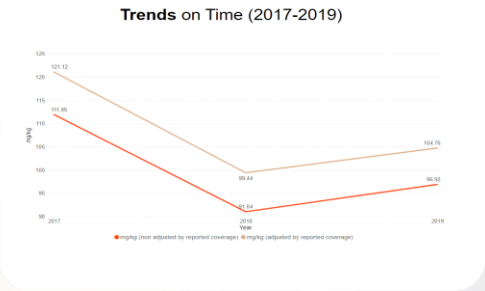
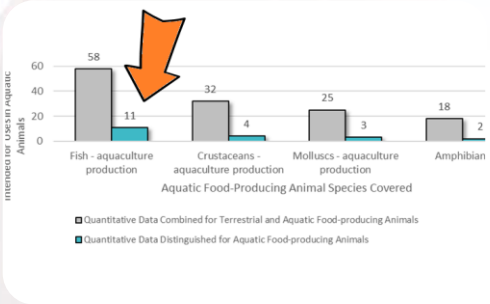
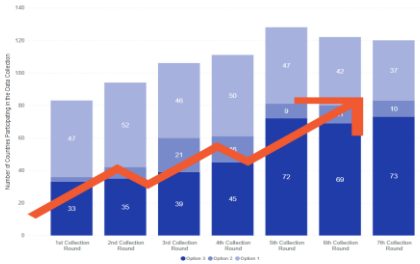
Main results from the 7th AMU Annual Report









Check the first interactive report that is updated frequently

https://amu.woah.org

Collected data, representing **65%** of the global **animal biomass,** show a **decrease** of **13%** in the mg/kg. **Africa** and **Americas** showed an increase.

110 Participants provided data for 2019; only **11** were able to provide data for **aquatic animals**.

60% of Participants is now able to provide data by type of use, animals groups and routes of administration

(Reporting Option 3)

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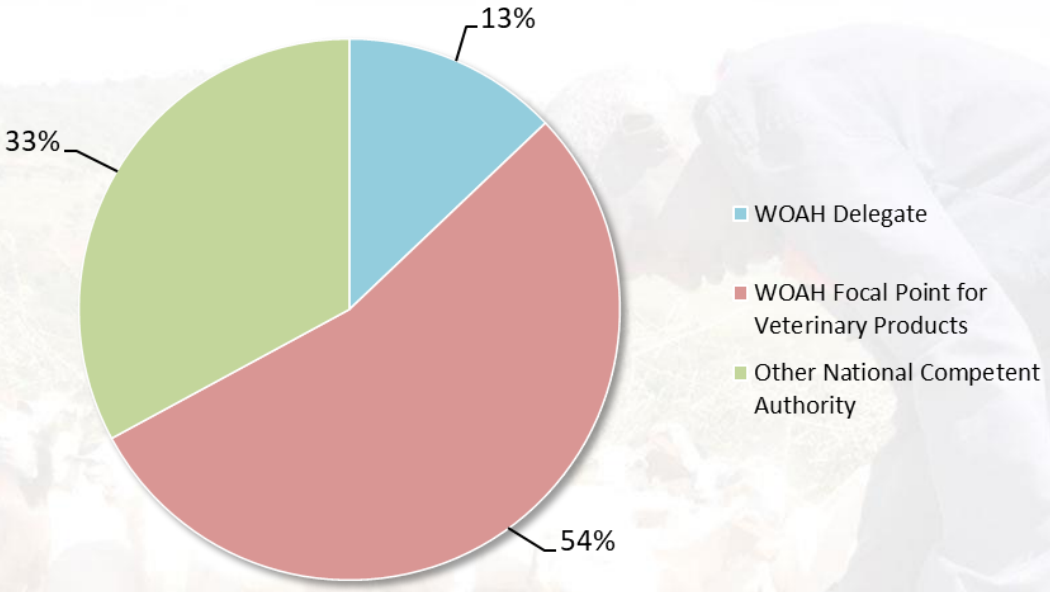
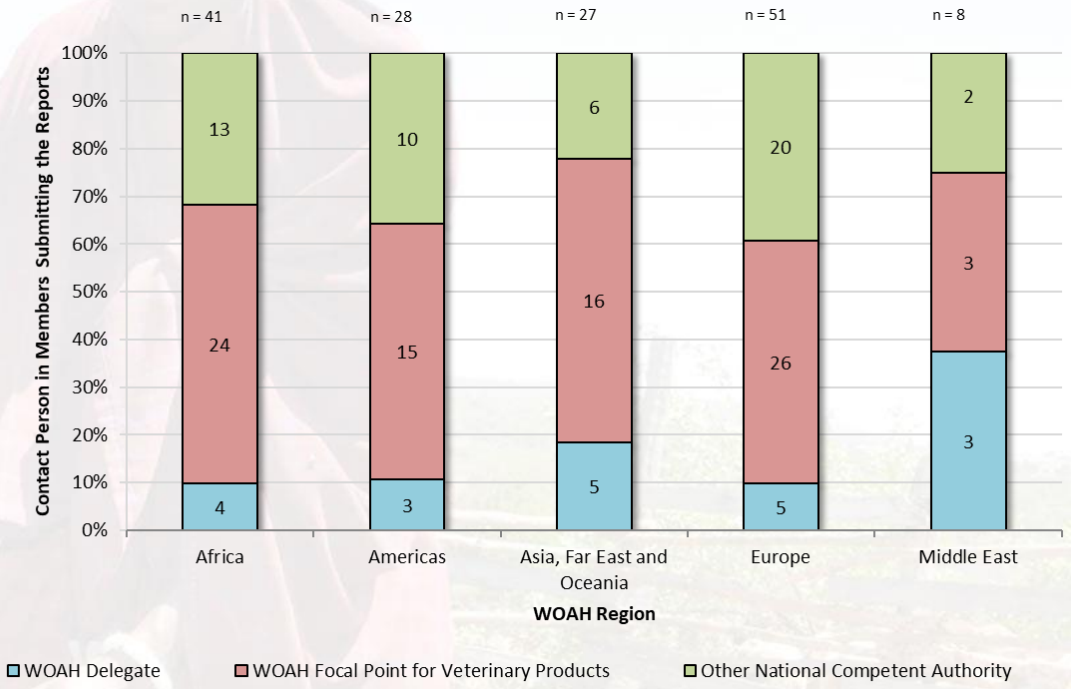
Contact person submitting reports, 7th round





WOAH FPVPs have an important role in ANIMUSE

In the Africa region, 58.5% of reports are submitted by WOAH FPVPs

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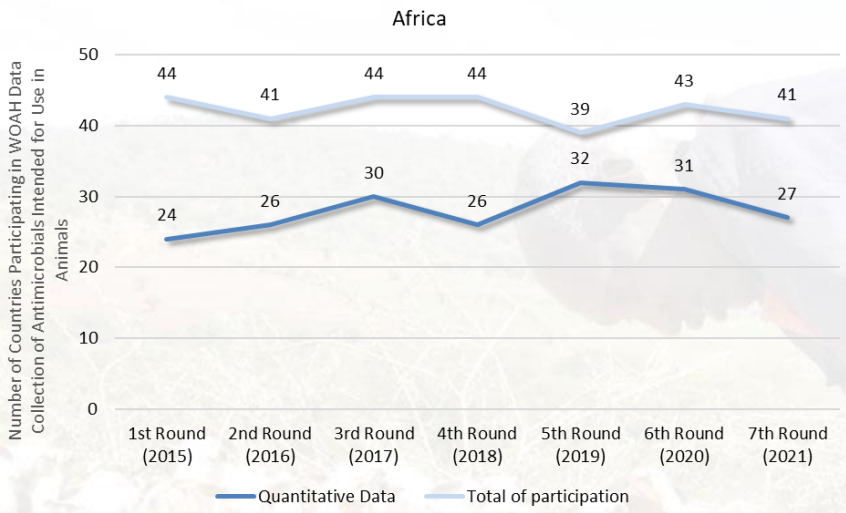
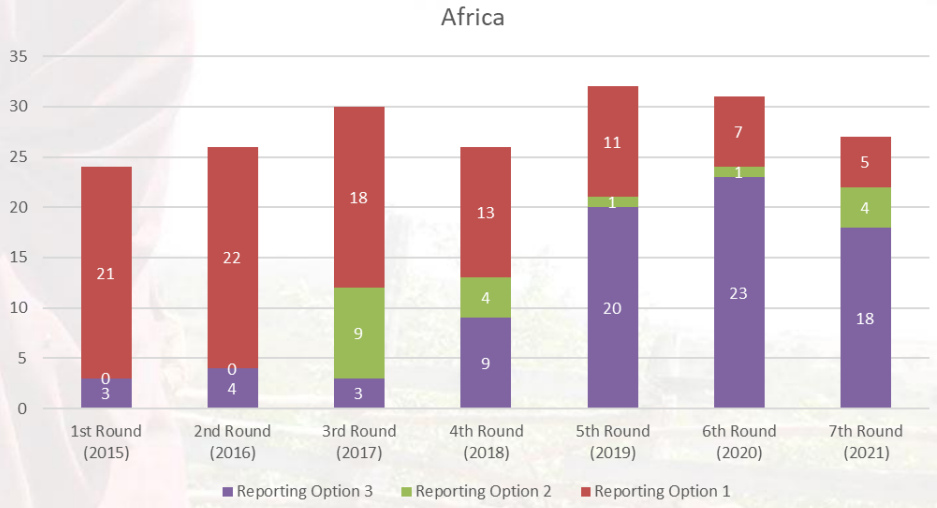
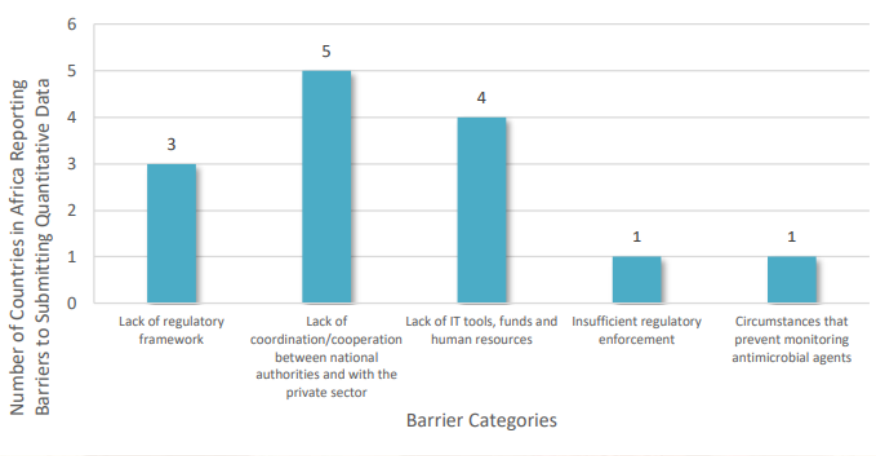
Type of data provided- Africa region (54 countries)







65.9% of countries submitted **quantitative data**; from these **66.7%** reported data under **option 3**

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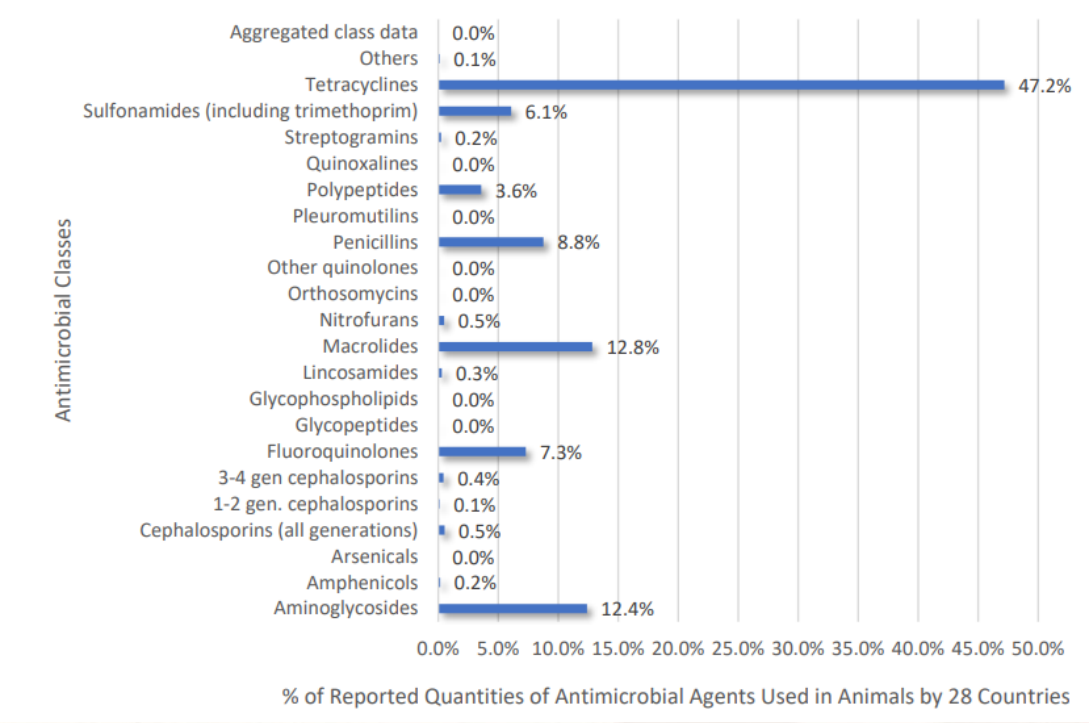
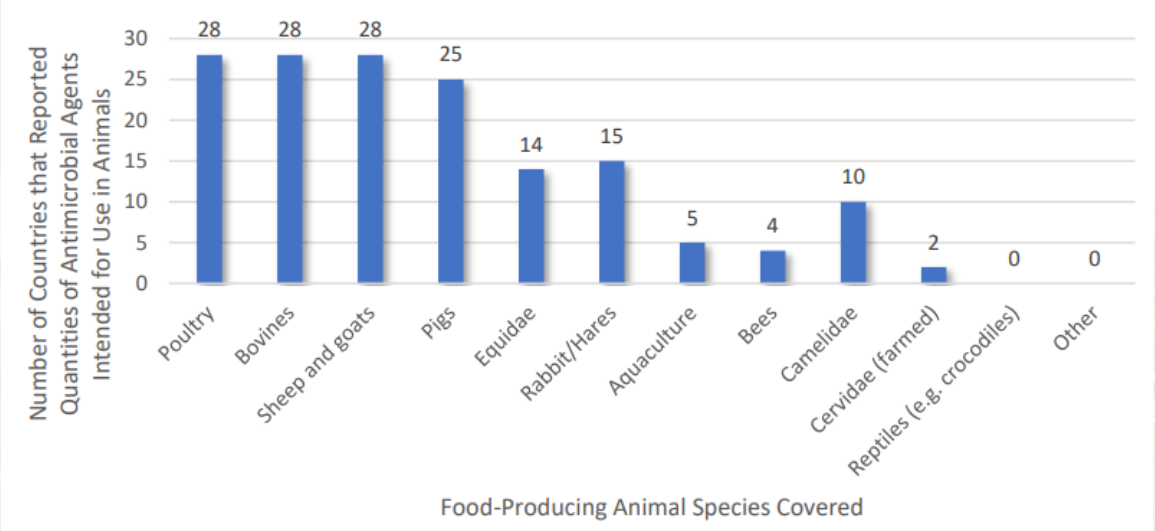
AMU in food-producing animals in Africa in 2019 (28 countries)

Proportion of antimicrobial classes used in animals



Food-producing animal species for which quantitative AMU data was reported



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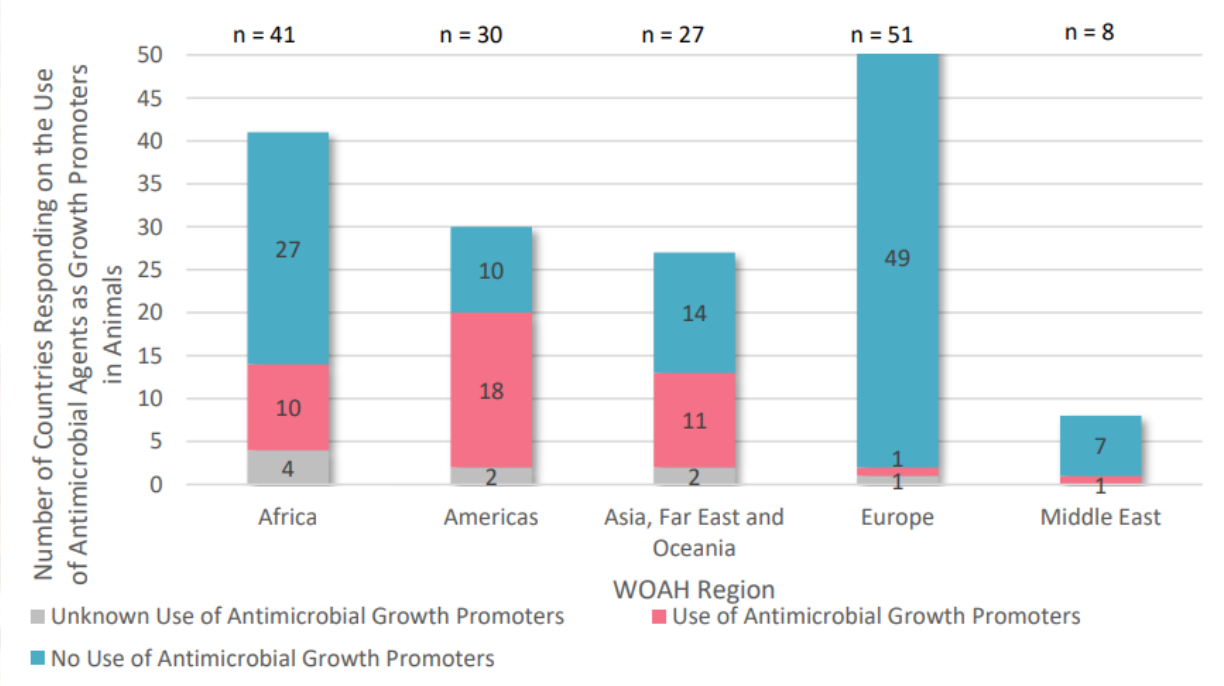
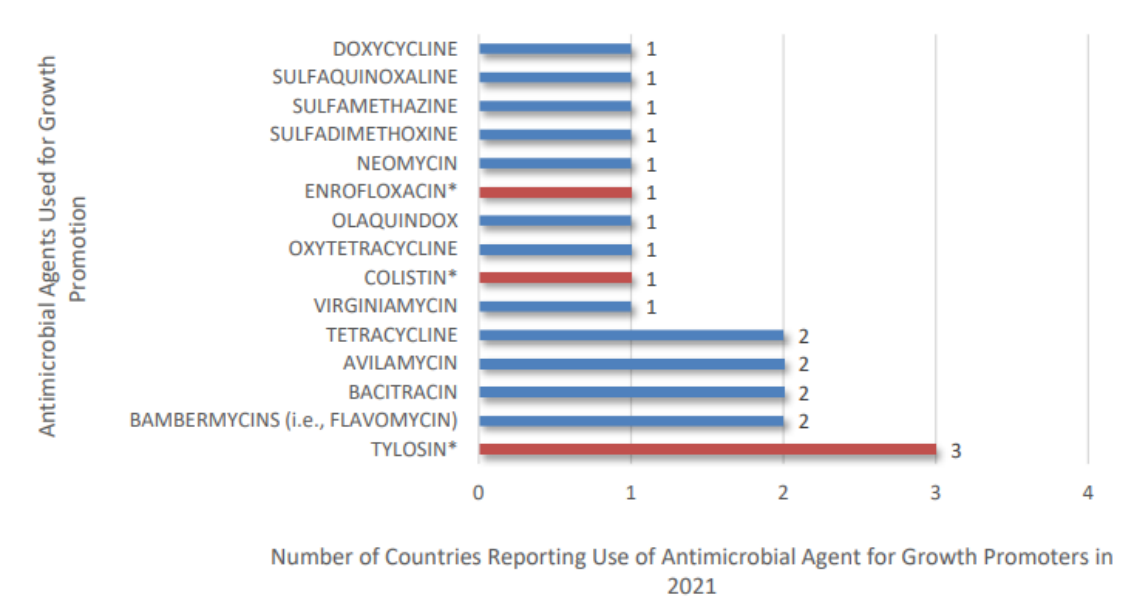
Reporting of antimicrobials used as growth promoters (AGP) by region, 2021 (157 countries)



Reporting of **AGP use** in **Africa in 2021** (5 countries)



24.4% African countries reported AGP use

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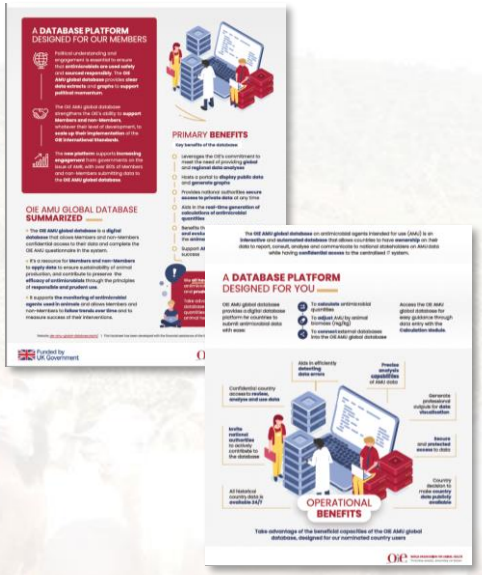
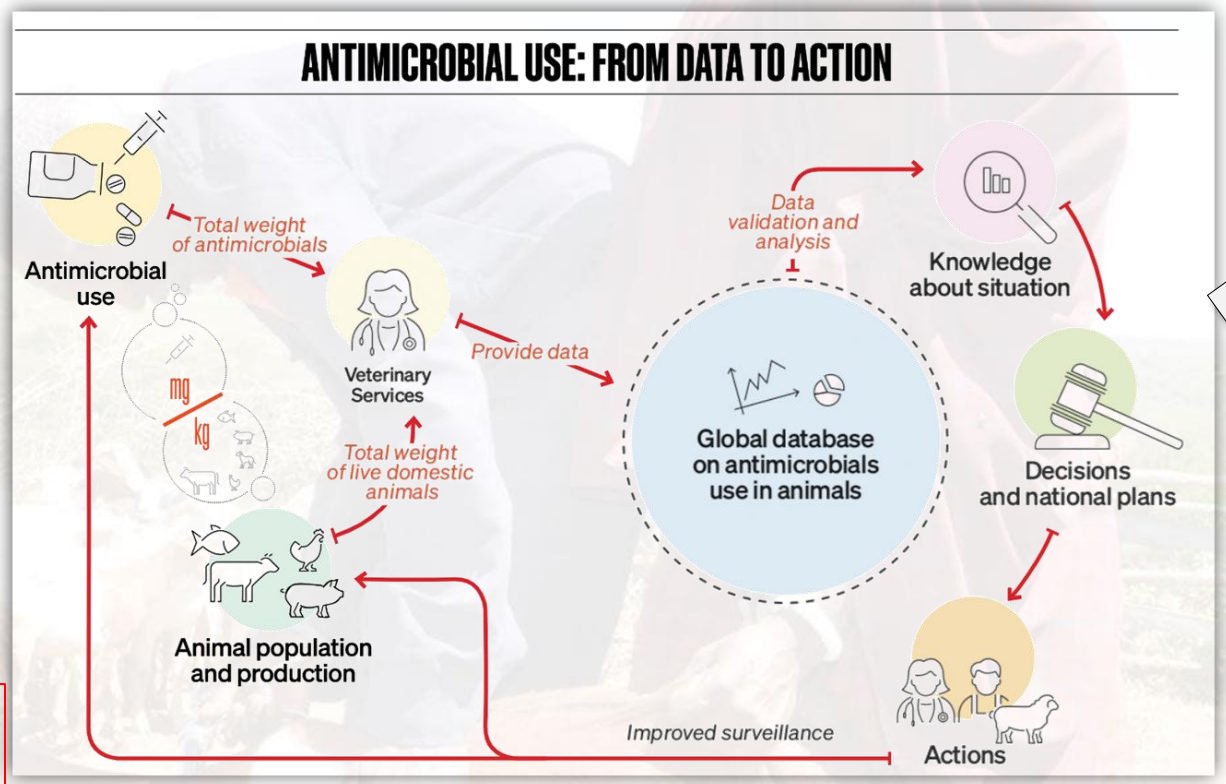
Maximise uptake of new system by countries





COMMUNICATION

TRAINING MATERIAL

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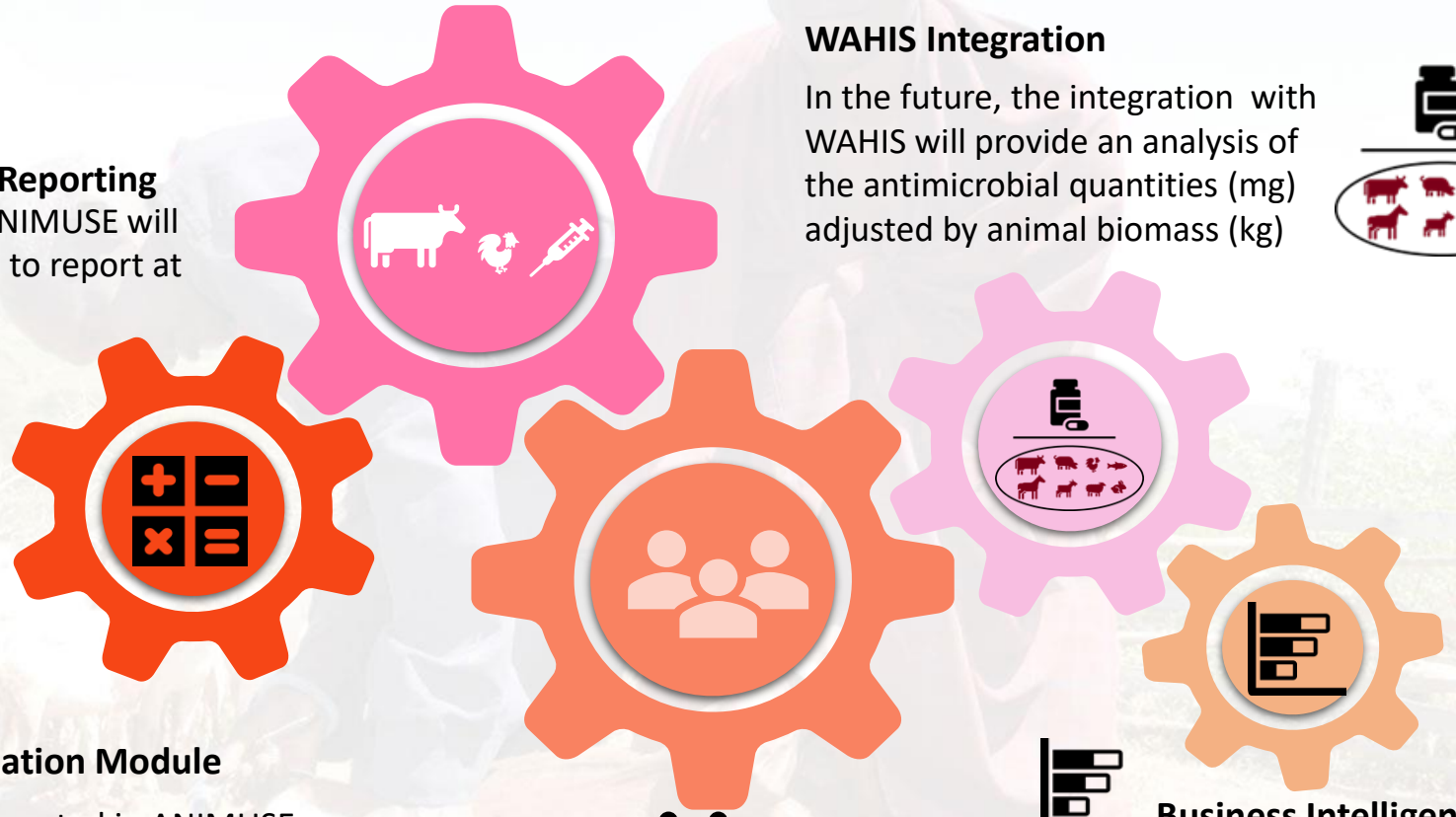
Future of the database collection- ANIMUSE



Species Level Reporting

In the future, ANIMUSE will allow Countries to report at species level

WAHIS Integration

In the future, the integration with WAHIS will provide an analysis of the antimicrobial quantities (mg) adjusted by animal biomass (kg)

Calculation Module

Formulas are integrated in ANIMUSE to allow Particpants to calculate and report quantities thus improving the accuracy of data

Data Ownership

Countries will have access to their own data which they can analyse and make informed decisions

Business Intelligence Reporting

The system is integrated with Power Bi that allows faster and accurate data analysis and reporting

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ANIMUSE Helpdesk

Do you need help? Consult below!

AMU Resources

Consult AMU Resources such as the user guides and videos for the Questionnaire, Calculation Modules and Data Visualisation. Access other WOAH guidelines and standards on AMR and our annual report.

01

Suggestions

Submit any suggestions or ideas for improvement using this form. All suggestions will be recorded and analysed. Thank you for your suggestions!

02

Report an Issue

Report an issue relating to ANIMUSE using this form. The AMU team will analyse your issue and give you constant feedback on the resolution progress.

03

For any queries, please contact ANIMUSE team: antimicrobialuse@woah.org

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Next steps…

- **ANIMUSE** - **YOUR platform**, for **analysis** and **decision making**
  - Useful to **monitor trends and patters of antimicrobials** over time
  - To assess **effectiveness of interventions** to reduce AMU & AMR
  - To **monitor progress** towards **national or regional targets**

- Increase the number of **AMU National Reports**

- Increase the number of countries able to provide specific data for **aquatic animals**

- Build capacity on AMU/AMC **integrated analyses** with human sector (in collaboration with WHO)

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Thank you !

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