

Dr Elisabeth Erlacher-Vindel

Head of Antimicrobial Resistance and Veterinary Products Department

AMR: current and future activities
OIE Global Database on Antimicrobial Agents Intended
for Use in Animals

Addis Ababa – Debre-Zeit (Ethiopia) 9-11 July 2019



Tripartite global activities: recent developments



- ▶ Memorandum of Understanding 2018
- ▶ The Tripartite workplan on AMR
- ▶ Multi-Partner Trust Fund
- ▶ Monitoring and Evaluation of the Global Action Plan on Antimicrobial Resistance

http://www.oie.int/fileadmin/Home/eng/Media_Center/docs/pdf/onehealthportal/MoU_Tripartite_Signature_May_30_2018.pdf

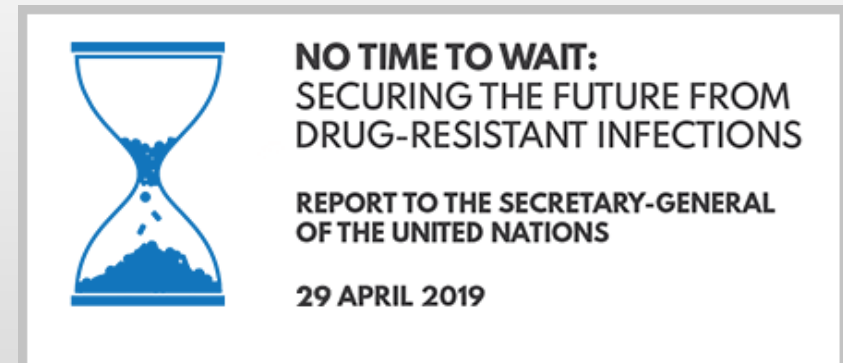
Tripartite activities: recent developments

UN Inter-agency coordination Group (IACG)

- Set up by the UN Secretary General as per request of the 71st UN General Assembly
- OIE represented in the coordination group, and in the Tripartite IACG secretariat
- Mandate: practical guidance on sustained global action on AMR

→ IACG report provided to the UNSG in April 2019

14 recommendations, including on global governance



<http://www.oie.int/en/for-the-media/press-releases/detail/article/new-report-calls-for-urgent-action-to-avert-antimicrobial-resistance-crisis/>

UN Inter-agency coordination Group (IACG): Global Governance

- Organisation of the **Tripartite Secretariat**
 - Establishment of a **One Health Global Leadership Group on Antimicrobial Resistance**, supported by a Joint Secretariat managed by the Tripartite agencies (FAO, OIE and WHO).
 - Convene an **Independent Panel on Evidence for Action** against Antimicrobial Resistance in a One Health context to monitor and provide Member States with regular reports on the science and evidence related to antimicrobial resistance.
- *in discussion with the UN Secretary General Office*

UNSG report to the 73rd UN General Assembly

Drafted by the Tripartite and handed to the UN Secretary General in April 2019

- ▶ Update on implementation of UN declaration A-71/3
 - Including support to Members' capacities to effectively address antimicrobial resistance by collectively elaborating and implementing multisectoral One Health National Action Plans (NAPs)
- ▶ Linking to the IACG recommendations
- ▶ Conclusion and ways forward
- ▶ <https://undocs.org/pdf?symbol=en/A/73/869>



Resolution 14 adopted by the OIE General Assembly in May 2019

To support the implementation of the OIE Global Strategy on AMR and the organization's capacity to respond to global challenges



OIE Working Group on AMR

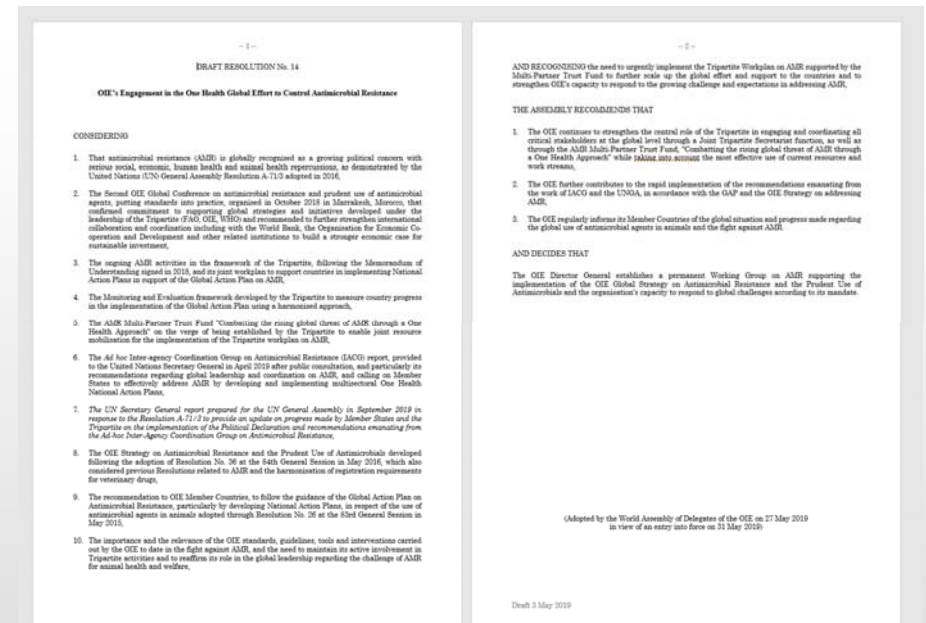
Members

- Tomoko Ishibashi - Chair (Japan)
- Gérard Moulin (France)
- Donald Prater (USA)
- Moritz van Vuuren (South Africa)
- Fajer Al Salloom (Bahrain)
- Stephen Page (Australia)
- Barbara Freischem (European Medicines Agency)

OIE Working Group on AMR: Terms de Reference

-maintain a **global perspective** and foresight on antimicrobial resistance regarding animal health and the interface with human health, food production and the environment.

-identify risks and risk management options associated with antimicrobial resistance through **development and maintenance of OIE International Standards** in the Terrestrial and Aquatic Codes and Manuals.



OIE Working Group on AMR: Terms de Reference

-assist the OIE Director General, in the implementation of the OIE Strategy on Antimicrobial Resistance and the Prudent use of Antimicrobials, in particular the:

- **OIE collection of data** intended for use of antimicrobial agents and Tripartite Integrated Surveillance System on AMR;
- **refinement of the OIE List** of Antimicrobial Agents of Veterinary Importance and follow up of its recommendations;
- capacity development activities in OIE Member Countries (PVS Pathway, OIE **Focal Point training**, and e-learning platforms)
- **communications activities** to raise awareness and create behavioural change;
- establishment of an information system on **falsified and substandard drugs**;

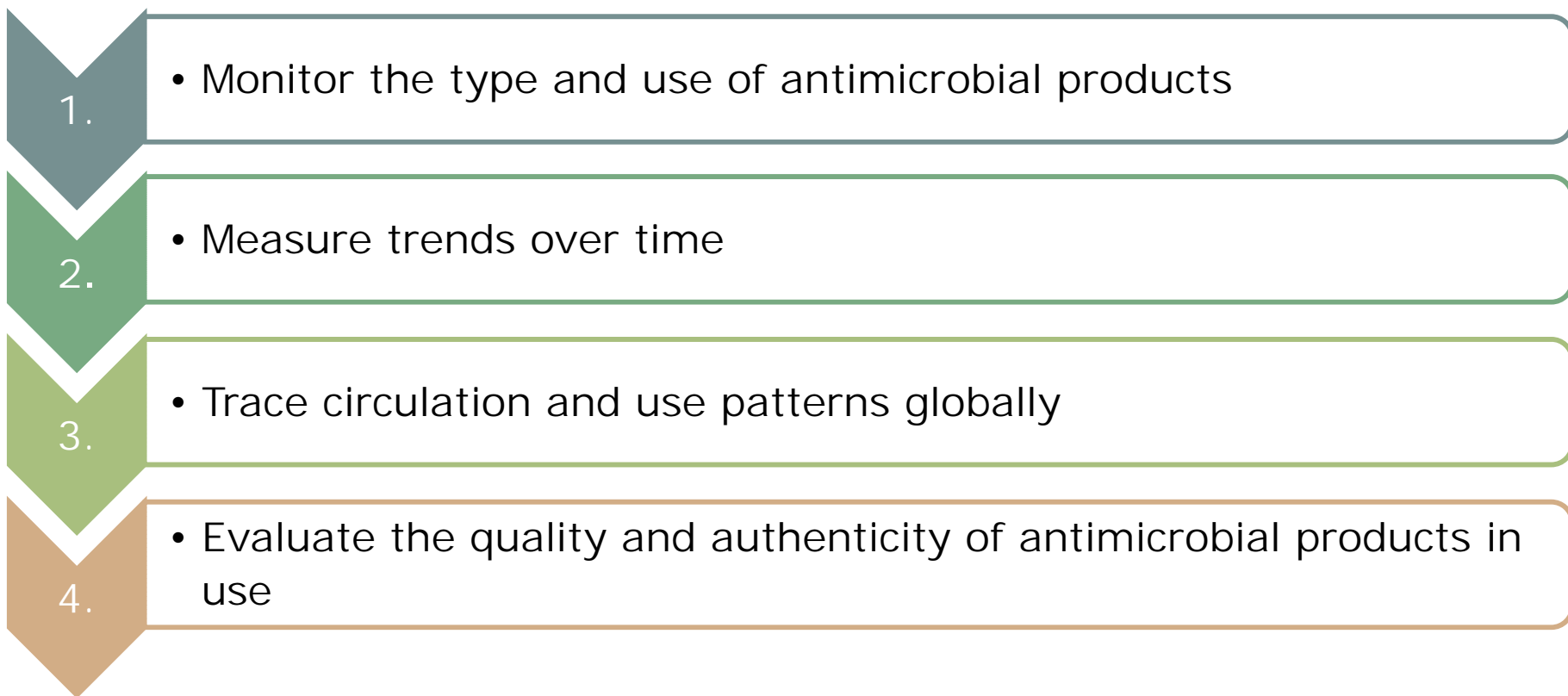
OIE Working Group on AMR: Terms de Reference

- support the OIE in its **Tripartite** activities following the Global Action Plan and its role within the **future secretariat in relation to the global governance mechanisms that is to be established.**
- support the activities of OIE Collaborating Centres and encourage the establishment of an **effective network of expertise** in support of the OIE and its Member Countries. Countries.
- advise the OIE in its interactions and collaborations to **achieve strong coordination on antimicrobial resistance** within this community of interest.

OIE Global database on antimicrobial agents intended for use in animals

In the framework of the Global Action Plan on AMR, the OIE, under the Tripartite collaboration, is leading a global database on antimicrobial agents intended for use in animals.

The database is designed to:



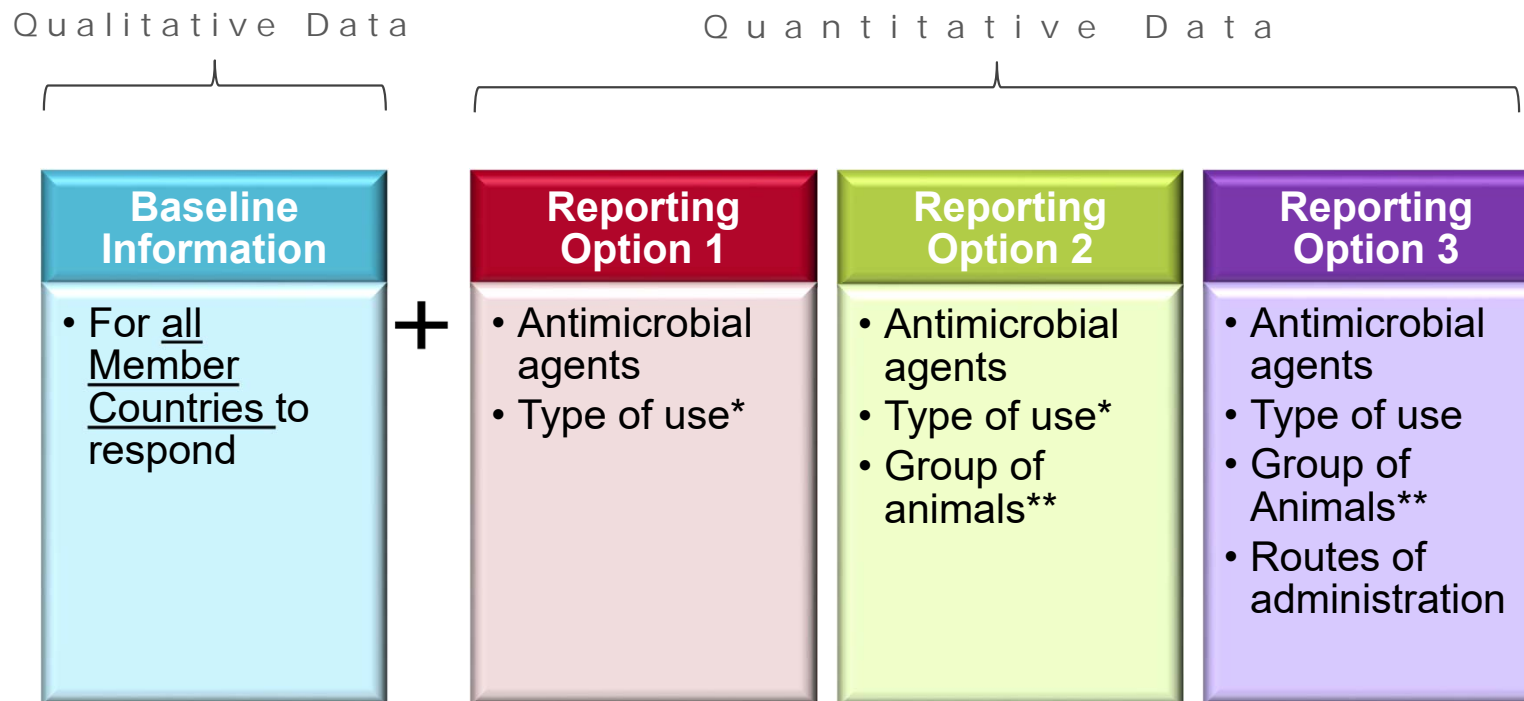
Monitoring the use of antimicrobials in animals based on OIE standards

Chapter 6.9 of Terrestrial Code & Chapter 6.3 of Aquatic Code:



Reporting Options

The sections of the OIE Template named 'Reporting Options' 1, 2 and 3, 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'

Publications available: OIE Annual Report on the use of antimicrobial agents intended for use in animals

First Phase



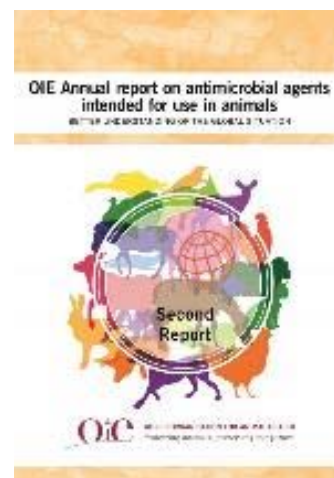
Global Analysis

- General Information
- Quantity of Antimicrobial Agents Reported

Analysis by OIE Region

- General Information by OIE Region
- Africa
- Americas
- Asia and the Pacific
- Europe
- Middle East

Second Phase



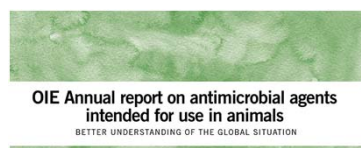
Results of the Second Phase of Data Collection

- Global Analysis and by OIE Region
 - Baseline Information
 - Antimicrobial Quantities

Additional Analysis of Antimicrobial Quantities: Focus on 2014

- Antimicrobial Quantities
- Animal Biomass
- Antimicrobial Quantities Adjusted for Animal Biomass

Annex: details by OIE Region



Results of the Third Phase of Data Collection

Global Analysis and by OIE Region

- Baseline Information
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Annex: details by OIE Region



OIE Global database on antimicrobial agents intended for use in animals

1st Round:

- Oct 2015 – May 2016
- 1st Report - published in Dec 2016
- Data ranging from 2010 - 2015

2nd Round:

- Oct 2016 – May 2017
- 2nd Report - published in Dec 2017
- Data ranging from 2013 - 2016

3rd Round:

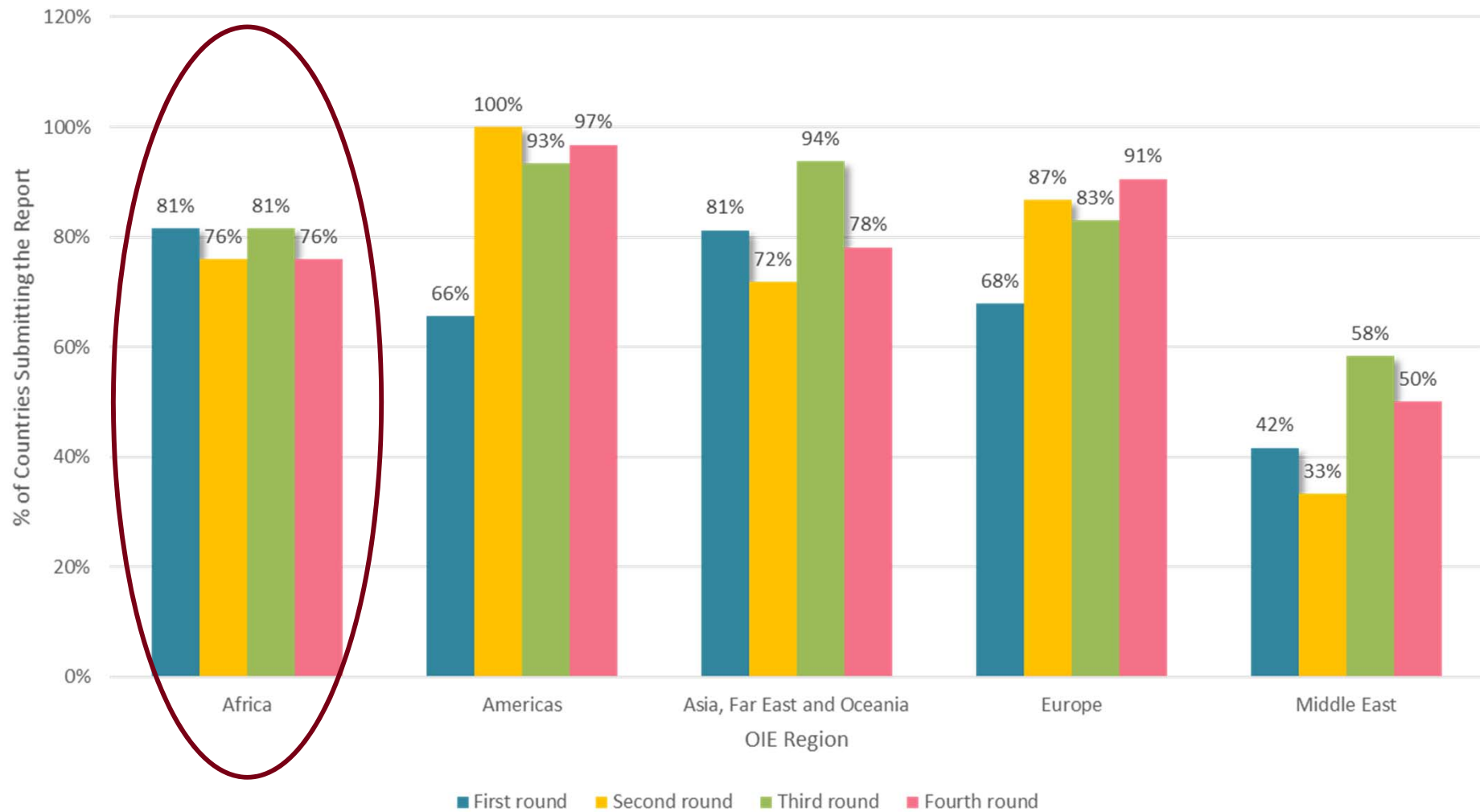
- Oct 2017 – May 2018
- 3rd Report - published on 14 Feb 2019
- Data ranging from 2015 - 2017

4th Round:

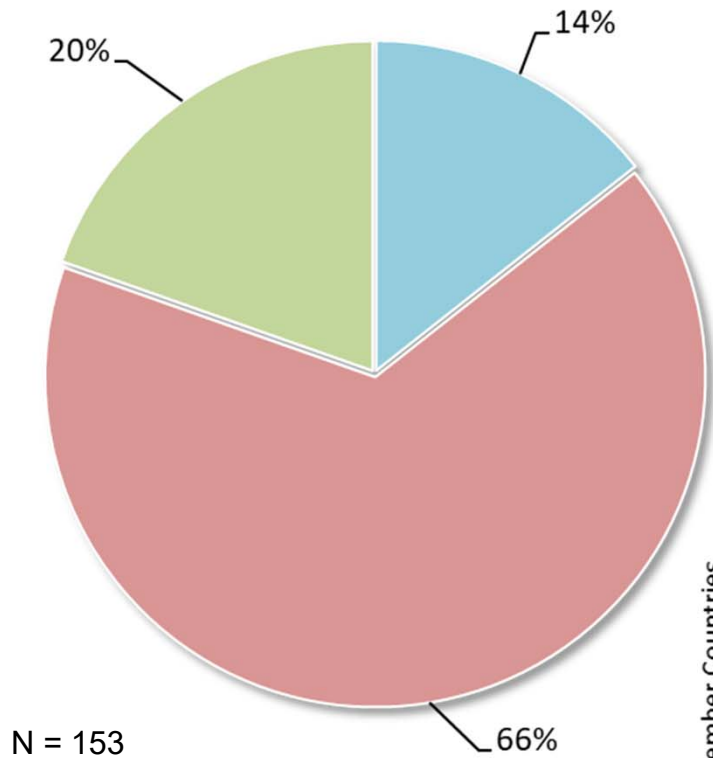
- Sept 2018 – May 2019



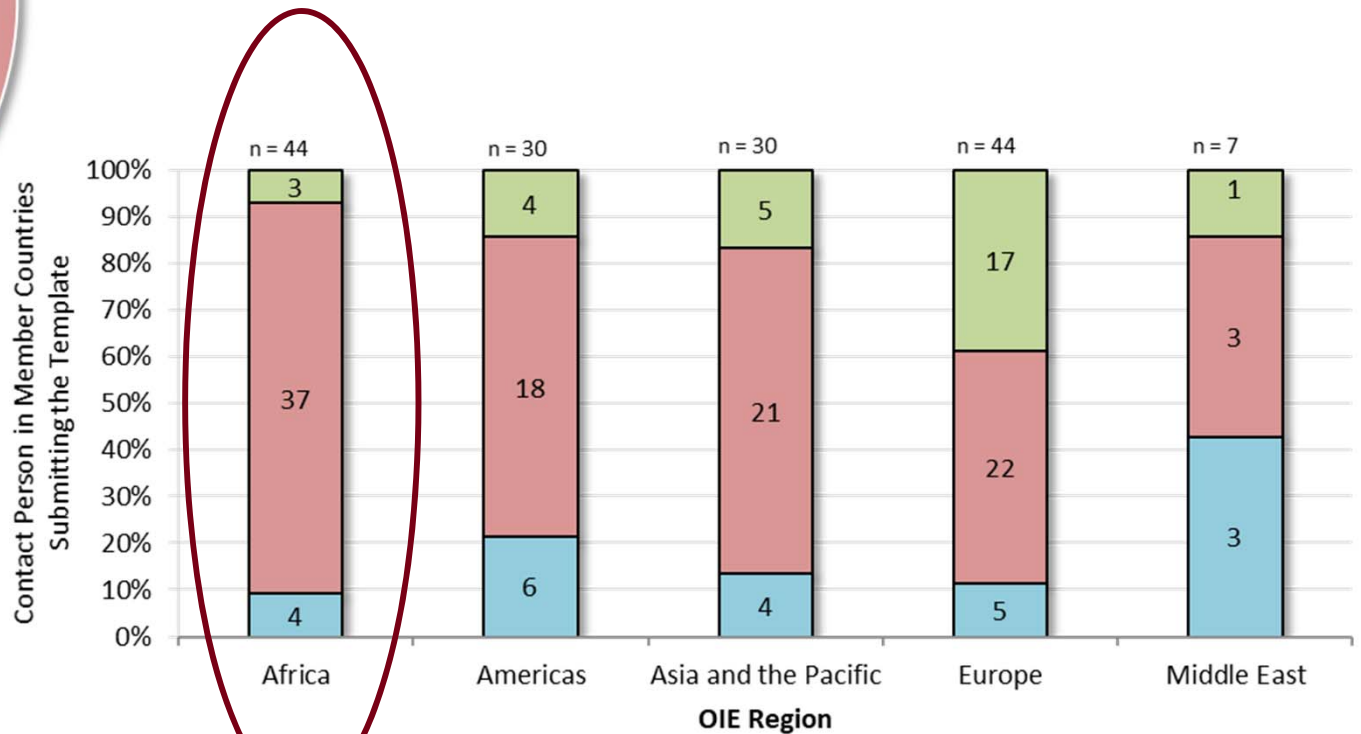
Comparison of the Proportion of Countries Submitting Questionnaires by OIE Region



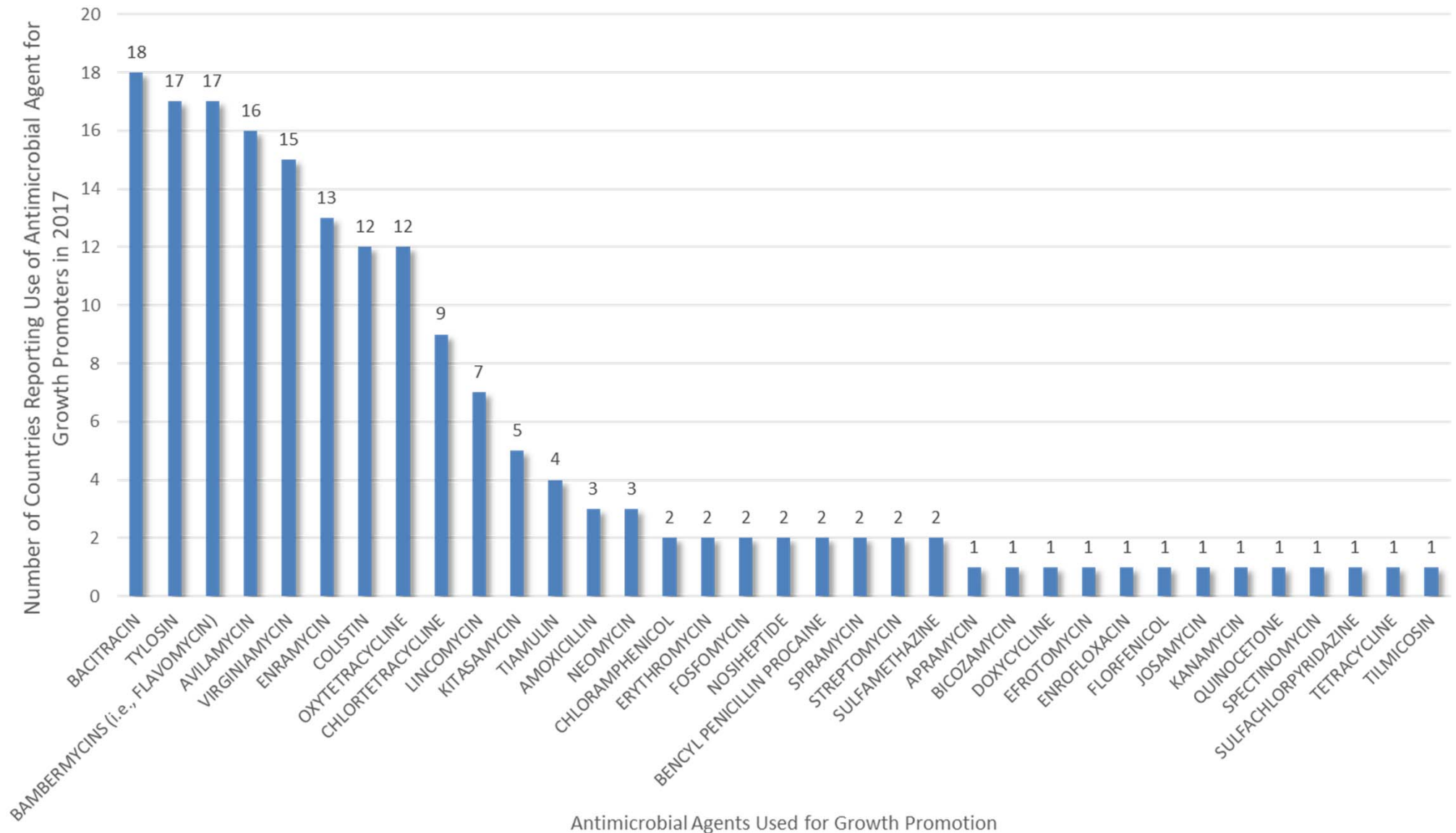
Contact Person Profile of 153 Member Countries that Submitted the OIE Template in the 3rd Round (2017)



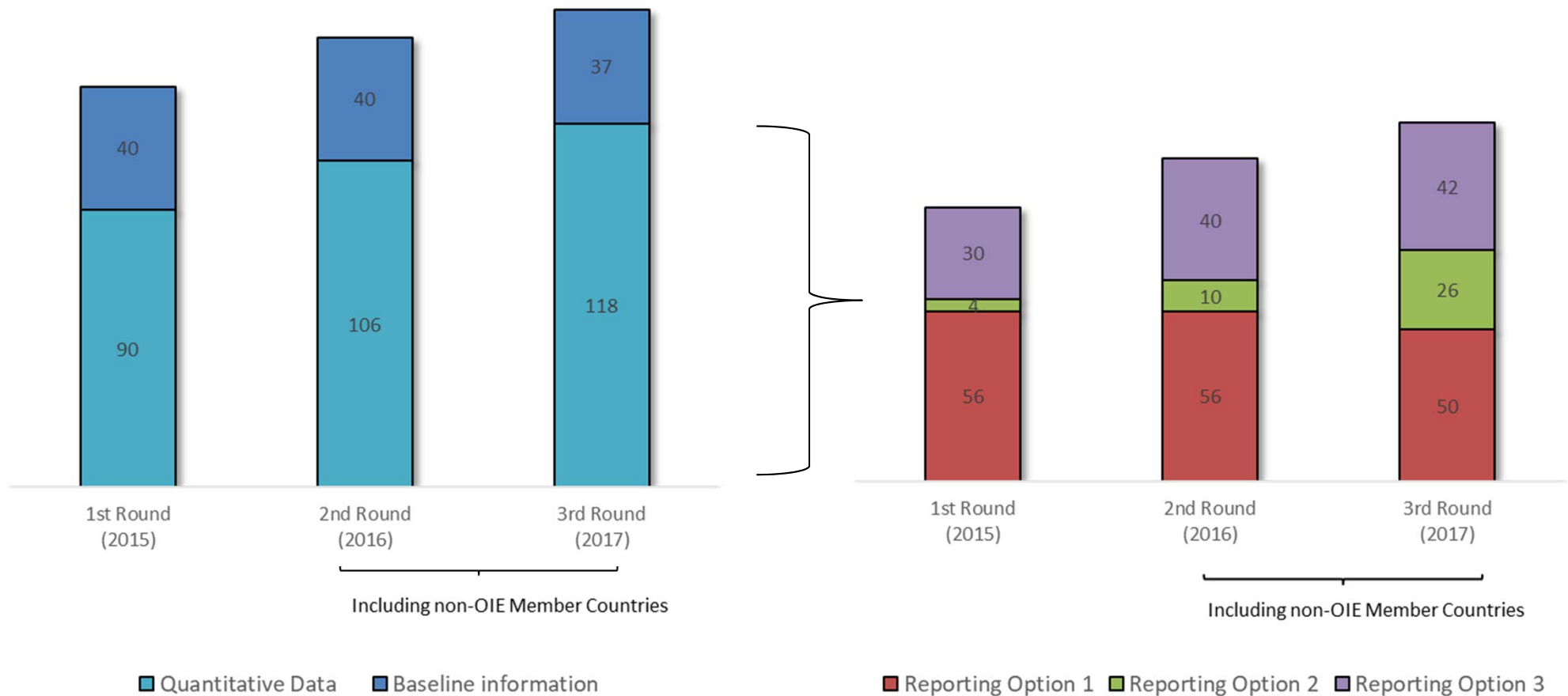
- Delegate
- Focal Point for Veterinary Products
- Other national competent authority



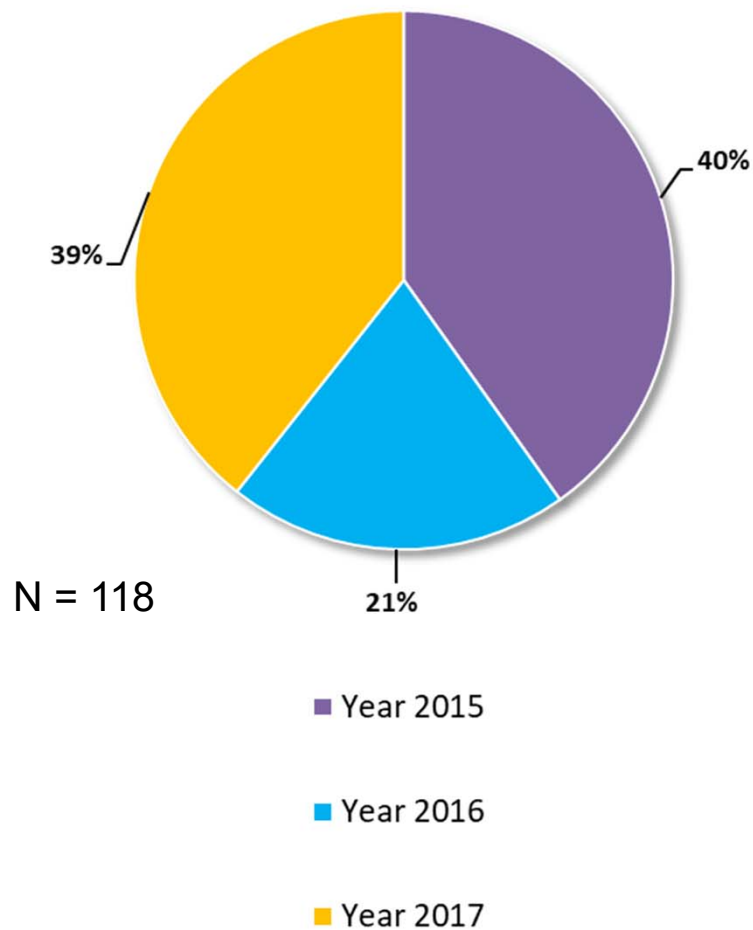
Antimicrobial Agents Used for Growth Promotion in Animals in 31 Countries, Third Round (2017)



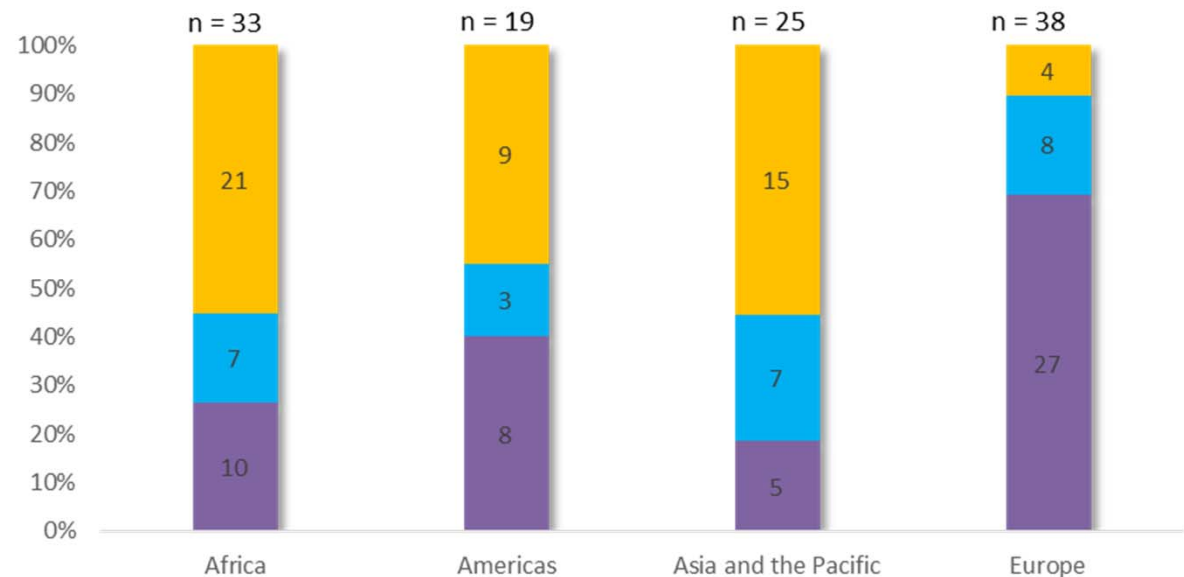
Comparison of Data Types Reported in the OIE Data Collection



Years of Reported Data in the Third Round (2017)

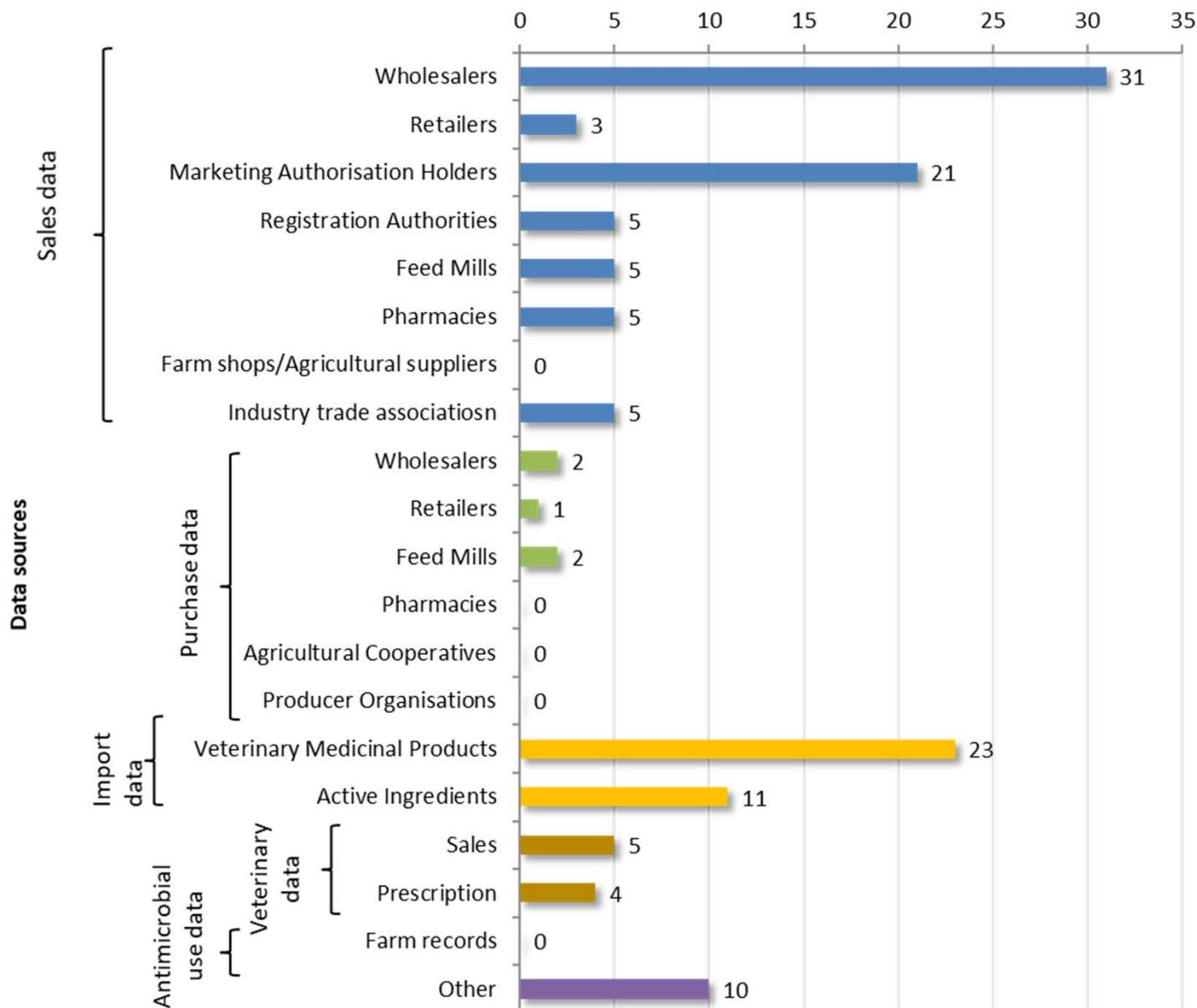


- **1st Round:** Countries provided data for years between **2010-2015** (2013 target year)
- **2nd Round:** Countries provided data for years between **2013-2016** (2014 target year)
- **3rd Round:** Countries provided data for years between **2015-2017** (2015 target year)



Validated Data Sources Selected by 94 Countries Reporting Quantitative Data from 2015 to 2017, Third Round

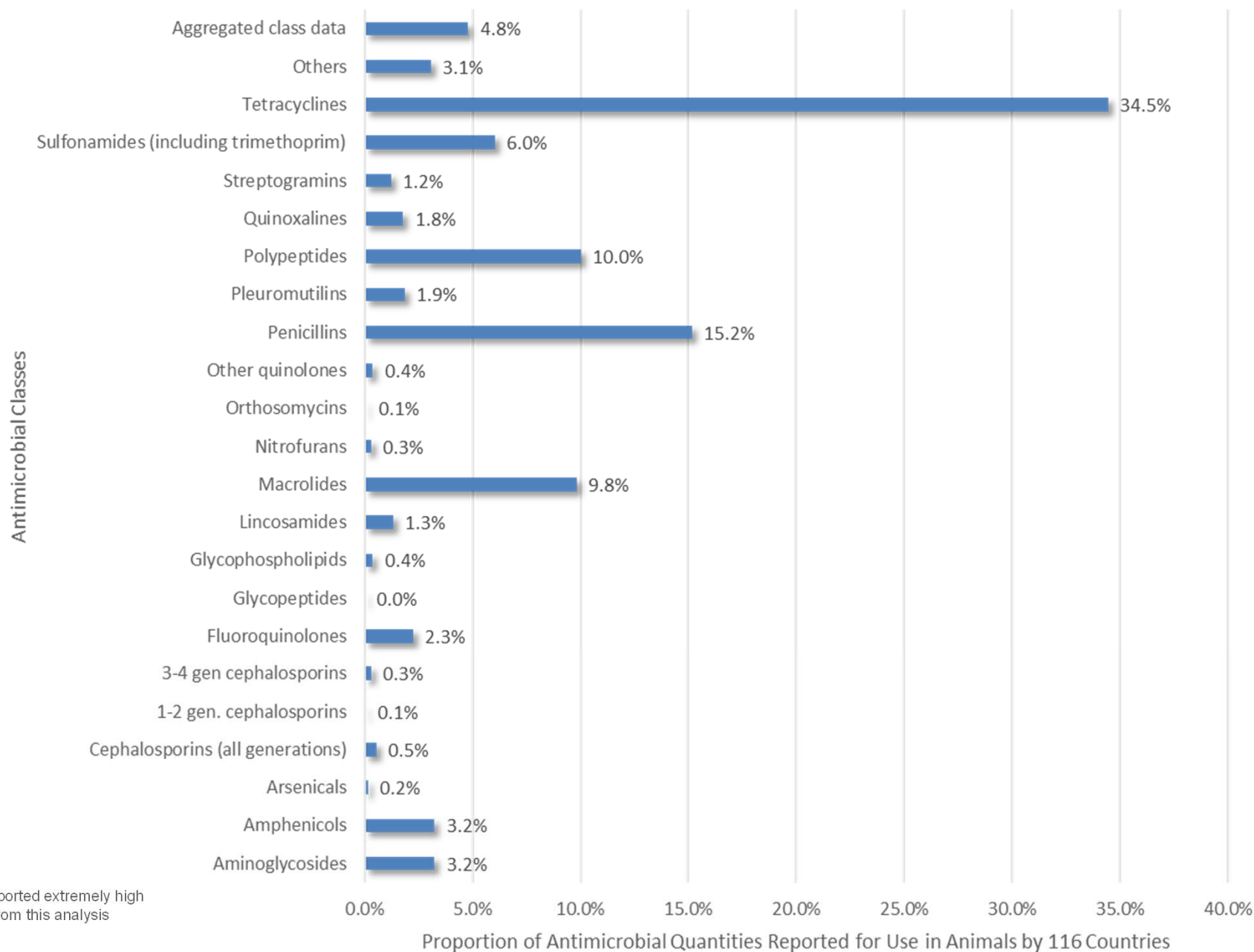
Number of Countries who submitted the template and reported quantities of antimicrobial agents used in animals



Exchanges with Countries:
-582 emails
-20 phone calls



Proportion of Antimicrobial Quantities (by Antimicrobial Class) Reported for Use in Animals During the Third Round by 116* Countries from 2015 to 2017



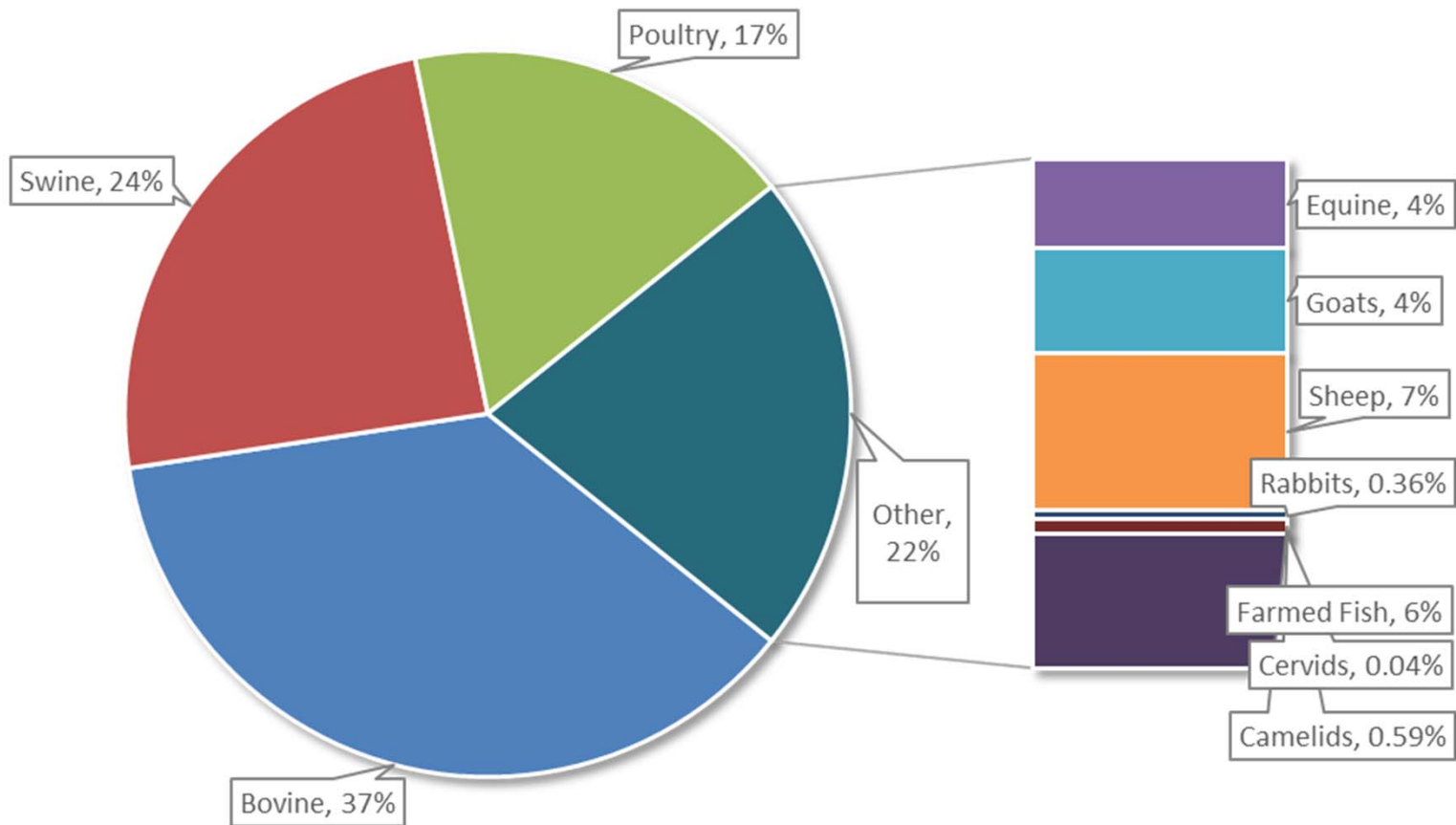
*Two Countries that reported extremely high figures was excluded from this analysis

Work on the Animal Biomass (Denominator)



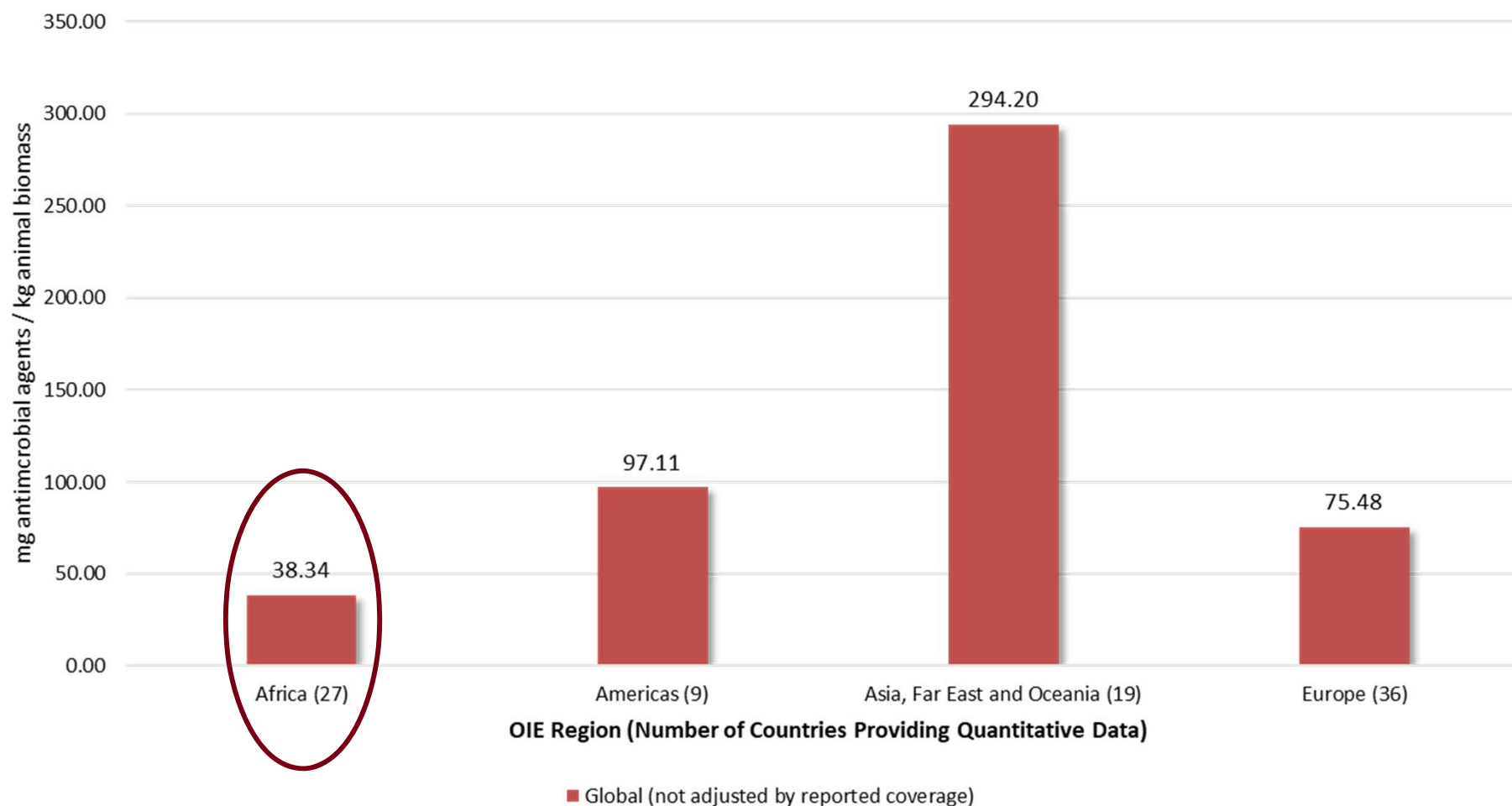
- Each country has **variability in animal population numbers, production cycles and average weights.**
- Animal biomass is calculated using country-level animal population data by species, data-derived estimates of their average weights by sub-region and country, and average reproductive rates of short-lived species (cycle factor).
 - ➔ kilogram animal biomass for use as a denominator in analysis of antimicrobial use data (mg/kg)
- Allows for comparisons of trends between OIE Regions and over time.

Species Composition of Animal Biomass for 91 Countries Included in 2015 Quantitative Data Analysis



Quantities of Antimicrobial Agents Intended for Use in Animals as Reported for 2015:

Antimicrobial agents (mg)
Animal biomass (kg)



Next Steps

- More participation from Member Countries 5th Round of OIE AMU Data Collection – letters will be sent in September 2019.
- More information on:
 - Type of use
 - Animal groups
 - Route of administration

Long-term vision

- Provide information by animal species



— TO HANDLE —
ANTIMICROBIALS
— WITH CARE —

Conclusions

- The OIE Annual Report shows great commitment and growing participation over the years.
- Many Member Countries need support to improve the quality of their national monitoring systems.
- Over time, the OIE database will be further developed to allow countries to provide their information through an electronic portal.



WE NEED YOU | TO HANDLE **ANTIMICROBIALS** WITH CARE

Fight
#AntiMicrobialResistance

- **Misuse and overuse of antimicrobials increase resistance risk**, endangering both animal and human health and welfare.
- **But you can help.** By acting prudently when using antimicrobials, you can preserve their efficacy for our future.

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Thank you for your attention

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

