



Dr Elisabeth Erlacher-Vindel
Head of the Science and New Technologies
Department

Result of the OIE data collection

Lessons learned and expectations

Swaziland, December 7th 2017

OIE Questionnaire: What changed?

First phase (2015)

This sheet of the OIE template should be completed by all OIE Member Countries	
1	Contact Point for data collection
2	Name (order: salutation, first name, surname) <free text field>
3	Role with respect to the OIE <input type="checkbox"/> OIE Delegate <input type="checkbox"/> OIE Focal Point for Veterinary Products <input type="checkbox"/> Other
4	Organisation <free text field>
5	Address <free text field>
6	Phone number <free text field>
7	Email address <free text field>
8	Year of data collection <free text field>
9	Country <free text field>
10	Are antimicrobial growth promoters authorised for use in your country? <input type="checkbox"/> Yes <input type="checkbox"/> No
11	List of allowed antimicrobial growth promoters, if the answer to the previous question is "yes" <free text field>
12	Data source <input type="checkbox"/> Sales data - Wholesalers <input type="checkbox"/> Sales data - Retailers <input type="checkbox"/> Sales data - Marketing Authorisation Holders <input type="checkbox"/> Sales data - Registration Authorities <input type="checkbox"/> Sales data - Feed Mills <input type="checkbox"/> Sales data - Pharmacies <input type="checkbox"/> Sales data - Farm shops/Agricultural suppliers <input type="checkbox"/> Sales data - Industry trade associations <input type="checkbox"/> Sales data - Veterinarians <input type="checkbox"/> Purchase data - Wholesalers <input type="checkbox"/> Purchase data - Retailers <input type="checkbox"/> Purchase data - Feed Mills <input type="checkbox"/> Purchase data - Pharmacies <input type="checkbox"/> Purchase data - Agricultural Cooperatives <input type="checkbox"/> Purchase data - Producer Organisations <input type="checkbox"/> Import data - Customs declarations - Veterinary products <input type="checkbox"/> Import data - Customs declarations - Active Ingredients <input type="checkbox"/> Veterinary prescription data - Sales

Second phase (2016)

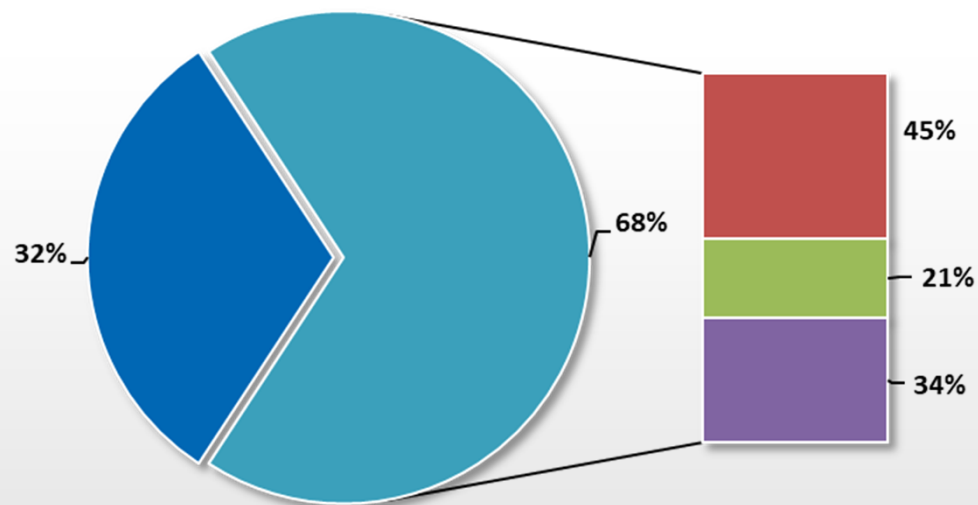
*** This sheet of the OIE template should be completed by all OIE Member Countries *** Please refer to the Guidance document for further instructions.	
A. Contact Person for Antimicrobial Agents Use Data Collection	
1	Title <free text field>
2	Name (First name, SURNAME) <free text field>
3	Role with respect to the OIE <input type="checkbox"/> OIE Delegate <input type="checkbox"/> OIE Focal Point for Veterinary Products <input type="checkbox"/> Other
4	Organisation <free text field>
5	Organisation's Address <free text field>
6	Country <free text field>
7	Phone Number <free text field>
8	Email Address <free text field>
B. General information	
9	Are data on the amount of antimicrobial agents for use in animals available? <input type="checkbox"/> Amounts available - Yes <input type="checkbox"/> Amounts available - No
10	Please indicate why the data is not available at this time in your country, if the answer to Question 9 is 'No' <free text field>
11	Are antimicrobial growth promoters authorised for use in your country? <input type="checkbox"/> Yes <input type="checkbox"/> No
12	List of allowed antimicrobial growth promoters, should be provided if you answered 'Yes' to Question 11 and legal provision exists <free text field>
If your response to Question 9 is 'No', please kindly send this template, once validated by the OIE Delegate and with your OIE Delegate in copy, to the OIE Antimicrobial Use Team at: antimicrobialuse@oie.int	
If your response to Question 9 is 'Yes', please kindly complete Section C. "Data Collection".	
C. Data collection on the Use of Antimicrobial Agents in Animals	
*** Please provide data for 2014. If you have data for another year, please select the year from the list below ***	
13	Year for which data apply (Please select only one year per template) <input type="checkbox"/> 2014 <input type="checkbox"/> 2015 <input type="checkbox"/> 2016

Third phase (2017)

*** This sheet of the OIE template should be completed by all OIE Member Countries *** Please refer to the Guidance document for further instructions.	
A. Contact Person for Antimicrobial Agents Use Data Collection	
1	Title <free text field>
2	Name (First name, SURNAME) <free text field>
3	Role with respect to the OIE <input type="checkbox"/> OIE Delegate <input type="checkbox"/> OIE Focal Point for Veterinary Products <input type="checkbox"/> Other
4	Organisation <free text field>
5	Organisation's Address <free text field>
6	Country <free text field>
7	Phone Number <free text field>
8	Email Address <free text field>
B. General information	
9	Are data on the amount of antimicrobial agents intended for use in animals available? <input type="checkbox"/> Amounts available - Yes <input type="checkbox"/> Amounts available - No
10	Please indicate why the data are not available at this time in your country, if the answer to Question 9 is 'No' <free text field>
11	Are antimicrobial agents used for growth promotion purposes in animals in your country? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown
12	Does your country have legislation/regulations on the use of antimicrobial agents as growth promoters in animals? <input type="checkbox"/> Legislation/regulation exists - Yes <input type="checkbox"/> Legislation/regulation does not exist - No
13	If your country has legislation/regulation on the use of antimicrobial agents as growth promoters in animals, could you please indicate the appropriate case that applies in your country? <input type="checkbox"/> All antimicrobial agents banned for use as growth promoters <input type="checkbox"/> Some antimicrobial agents banned for use as growth promoters <input type="checkbox"/> One or more antimicrobial growth promoters are authorised for use
14	Please provide a list of antimicrobial agents authorised as growth promoters, if any <free text field>
If your response to Question 9 is 'No', please kindly send this template, once validated by the OIE Delegate and with your OIE Delegate in copy, to the OIE Antimicrobial Use Team at: antimicrobialuse@oie.int	

Data types reported in the OIE data collection

First year of data collection:

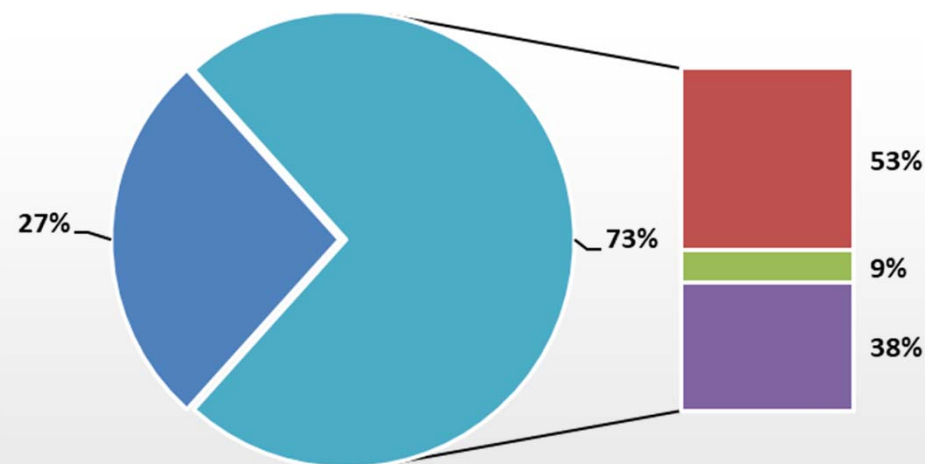


■ Baseline Information ■ Reporting Option 1
■ Reporting Option 2 ■ Reporting Option 3

N = 130

N = 89

Second year of data collection:



■ Baseline Information ■ Reporting Option 1
■ Reporting Option 2 ■ Reporting Option 3

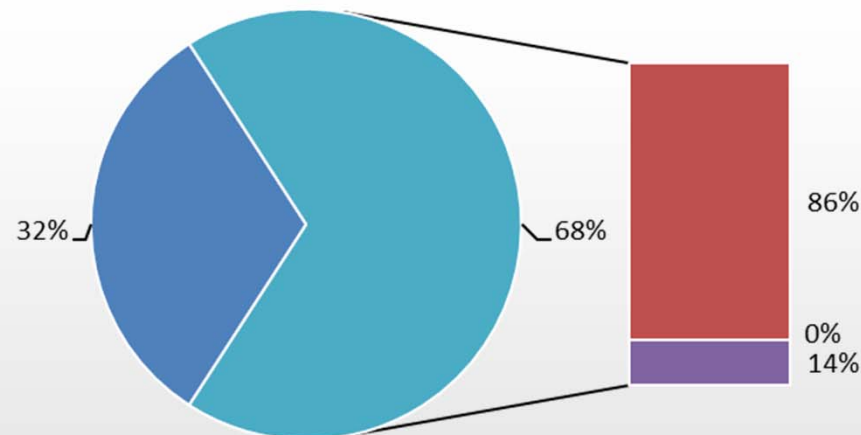
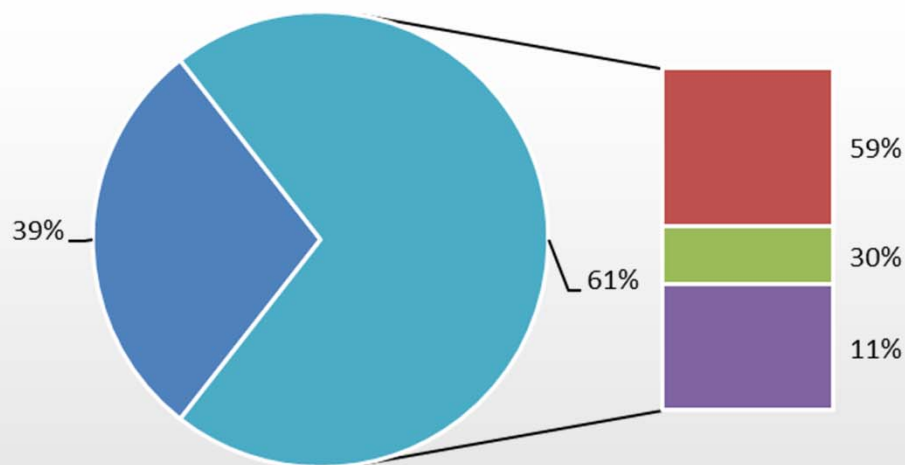
N = 146

N = 107

Data types reported in the OIE data collection in the Africa

First phase of data collection:

Second phase of data collection:



Qualitative data

Qualitative data + Reporting Option 1

Qualitative data

Qualitative data + Reporting Option 1

Qualitative data + Reporting Option 2

Qualitative data + Reporting Option 3

Qualitative data + Reporting Option 2

Qualitative data + Reporting Option 3

N = 44

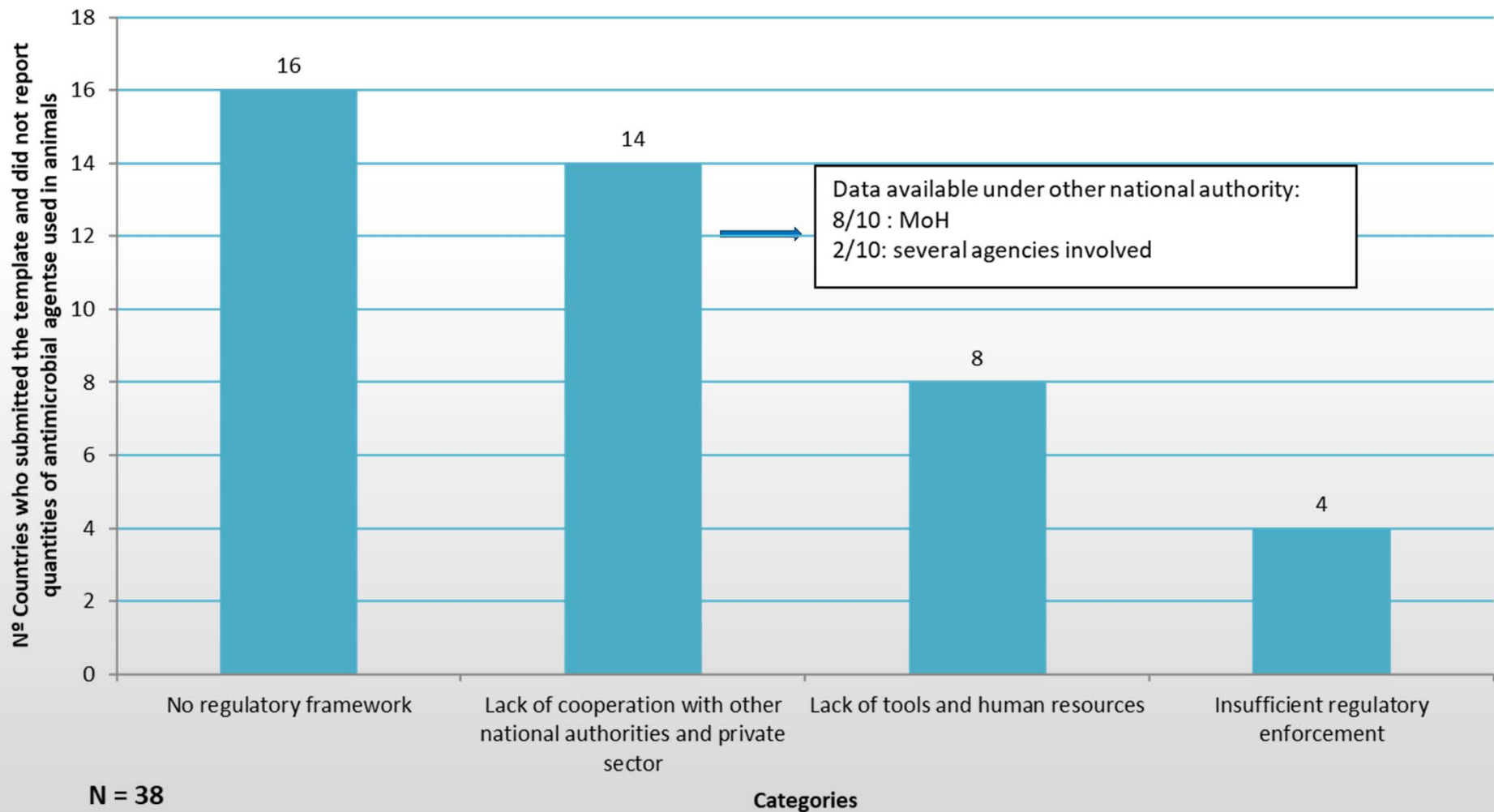
N = 27

N = 41

N = 28

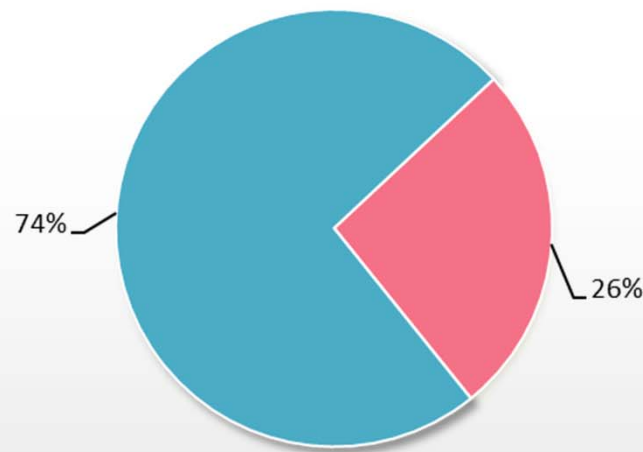
Baseline Information: Part B. General Information

Second phase of data collection: barriers for providing data on quantities of antimicrobial agents in animals



Antimicrobial agents as growth promoters

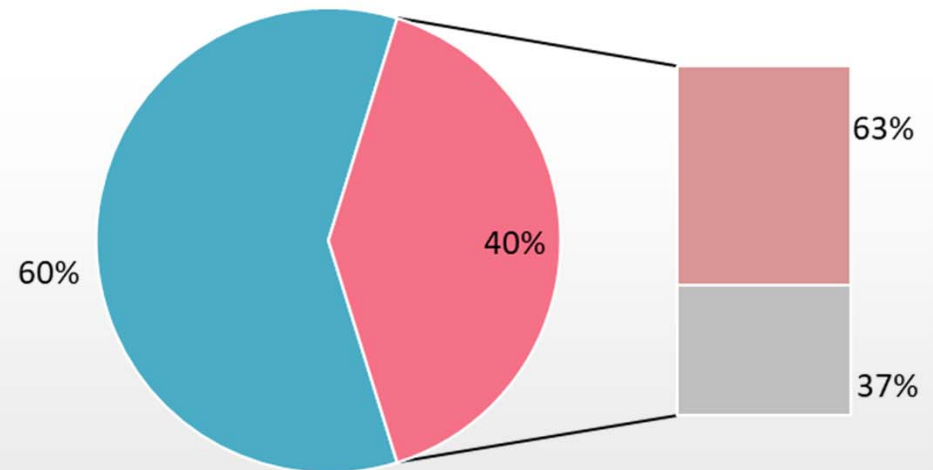
First phase of data collection



N = 130

- Antimicrobial growth promoters authorised
- Antimicrobial growth promoters not authorised

Second phase of data collection



N = 146

N = 60

- Antimicrobial growth promoters not authorised
- Antimicrobial growth promoters authorised
- Lack of legislation for antimicrobial growth promoters

Updates for third phase questionnaire

First and Second phase

11	Are antimicrobial growth promoters authorised for use in your country?	<input type="checkbox"/> Yes <input type="checkbox"/> No
12	List of allowed antimicrobial growth promoters , should be provided if you answered 'Yes' to Question 11 and legal provision exists	<free text field>

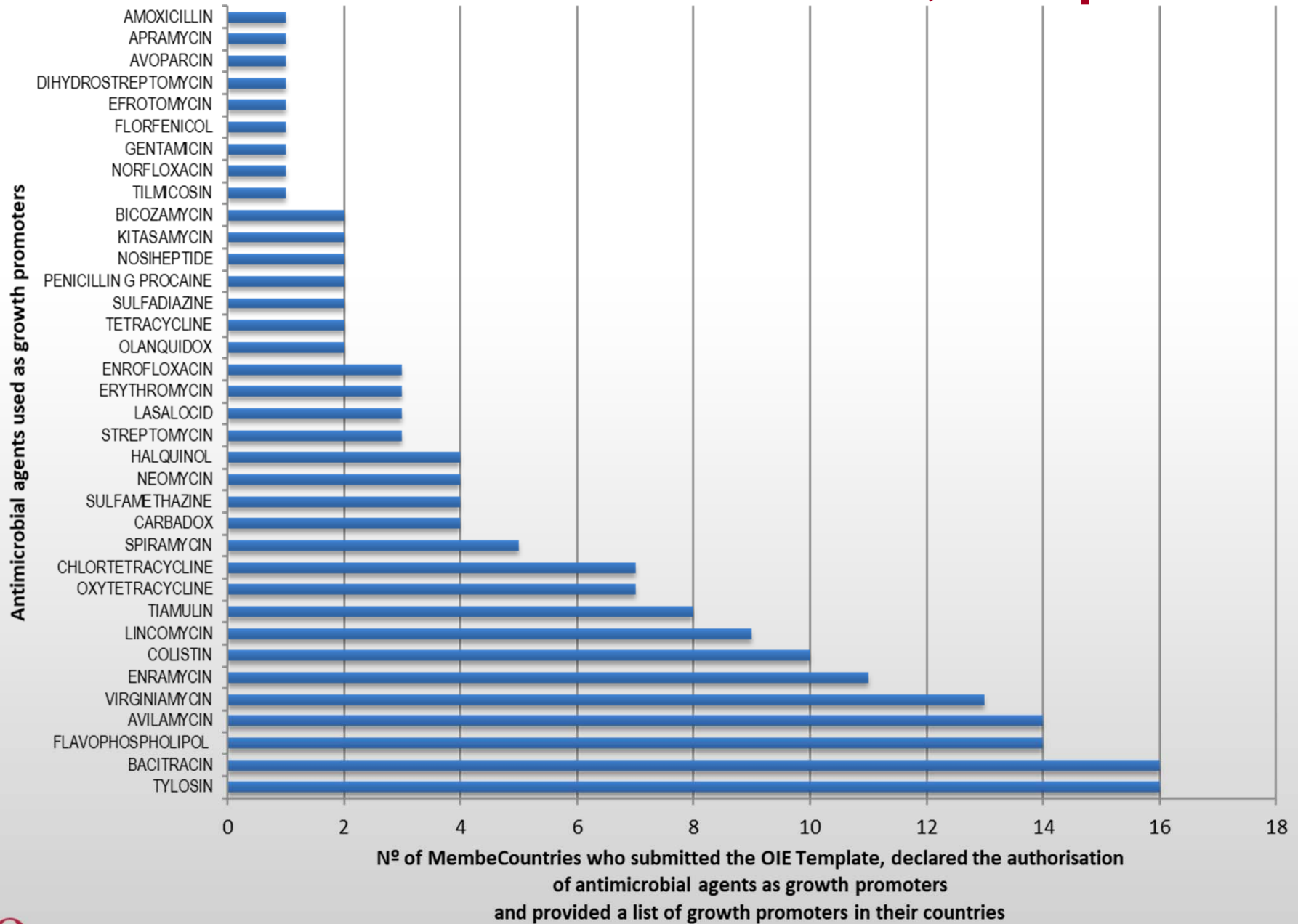
Growth Promotion refers to the use of antimicrobial substances to increase the rate of weight gain and/or the efficiency of feed utilization in animals by other than purely nutritional means. **In case your country has no legislation / regulations for antimicrobial growth promotion, but use of antimicrobial agents for growth promotion is known to occur, choose 'Yes'.**

Third phase (<http://www.oie.int/en/our-scientific-expertise/veterinary-products/antimicrobials/>)

11	Are antimicrobial agents used for growth promotion purposes in animals in your country?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown
12	Does your country have legislation/regulations on the use of antimicrobial agents as growth promoters in animals?	<input type="checkbox"/> Legislation/regulation exists - Yes <input type="checkbox"/> Legislation/regulation does not exist - No
13	If your country has legislation/regulation on the use of antimicrobial agents as growth promoters in animals, could you please indicate the appropriate case that applies in your country?	<input type="checkbox"/> All antimicrobial agents banned for use as growth promoters <input type="checkbox"/> Some antimicrobial agents banned for use as growth promoters <input type="checkbox"/> One or more antimicrobial growth promoters are authorised for use
14	Please provide a list of antimicrobial agents authorised as growth promoters, if any	<free text field>

Growth Promotion refers to the use of antimicrobial substances to increase the rate of weight gain and/or the efficiency of feed utilisation in animals by other than purely nutritional means. The term does NOT apply to the use of antimicrobial agents for the specific purpose of treating, controlling or preventing infectious diseases, even when an incidental growth response may be obtained.

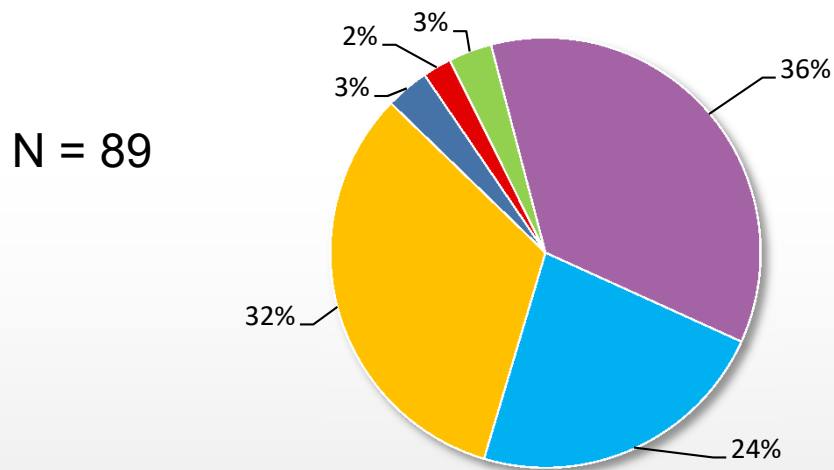
Antimicrobial agents used as growth promoters in animals in 25 Member Countries, first phase



Baseline Information: Part C. Data Collection of Antimicrobial Agents Intended for Use in Animals

Years of reported data

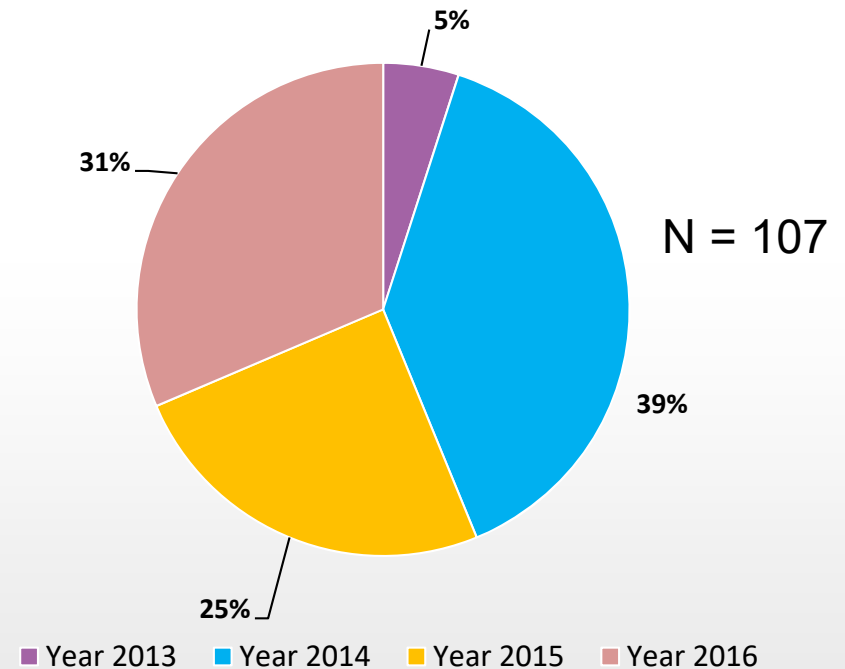
First phase of data collection



■ Year 2010 ■ Year 2011 ■ Year 2012
■ Year 2013 ■ Year 2014 ■ Year 2015

Number of Member Countries that filled in quantities of antimicrobial agents in 2016	89
Number of Member Countries that filled in templates for only one year between 2013 and 2016	85
Number of Member Countries that filled in templates for more than one year between 2013 and 2016	2

Second phase of data collection

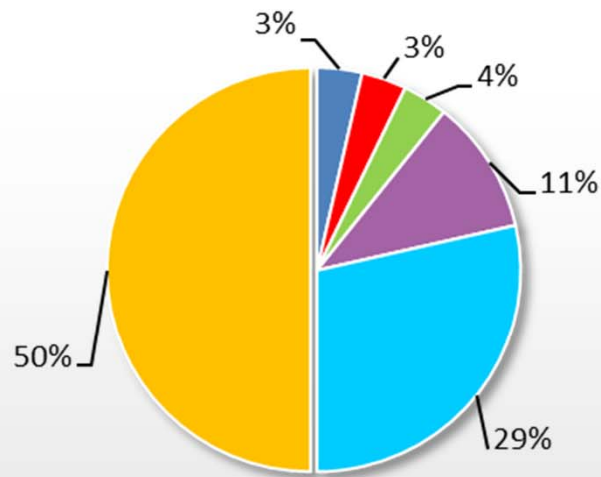


■ Year 2013 ■ Year 2014 ■ Year 2015 ■ Year 2016

Number of Member Countries that filled in quantities of antimicrobial agents in 2016	107
Number of Member Countries that filled in templates for only one year between 2013 and 2016	98
Number of Member Countries that filled in templates for more than one year between 2013 and 2016	9

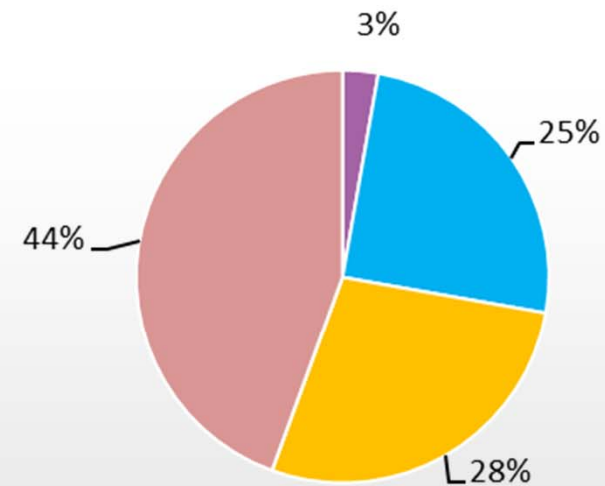
Years of reported data in the Africa

First phase of data collection



N = 27

Second phase of data collection



N = 28

Data Sources Reported in the First Phase of Data Collection

A.WHOLESALEERS & RETAILERS:

- a.Sales data–Wholesalers.
- b.Sales data–Retailers.
- c.Purchase data–Wholesalers.
- d.Purchase data–Retailers.
- e.Purchase data–Agricultural cooperatives.

B.IMPORTS:

- a.Import data–Customs declarations-Veterinary products.
- b.Import data–Customs declarations-Active ingredients.

C.MARKETING AUTHORISATIONS HOLDERS:

- a.Sales data–Marketing authorisations holders.
- b.Sales data–Registration authorities.

D.VETERINARIANS:

- a.Sales data-Veterinarians.
- b.Veterinary prescriptions data–Sales.
- c.Veterinary prescriptions data–Prescriptions.
- d.Veterinary prescriptions data –Dispensing.

E.PHARMACISTS:

- a.Sales data–Pharmacies.
- b.Sales data–Farm shops/Agricultural suppliers.
- c.Purchase data–Pharmacies.

F.FEED MANUFACTURERS:

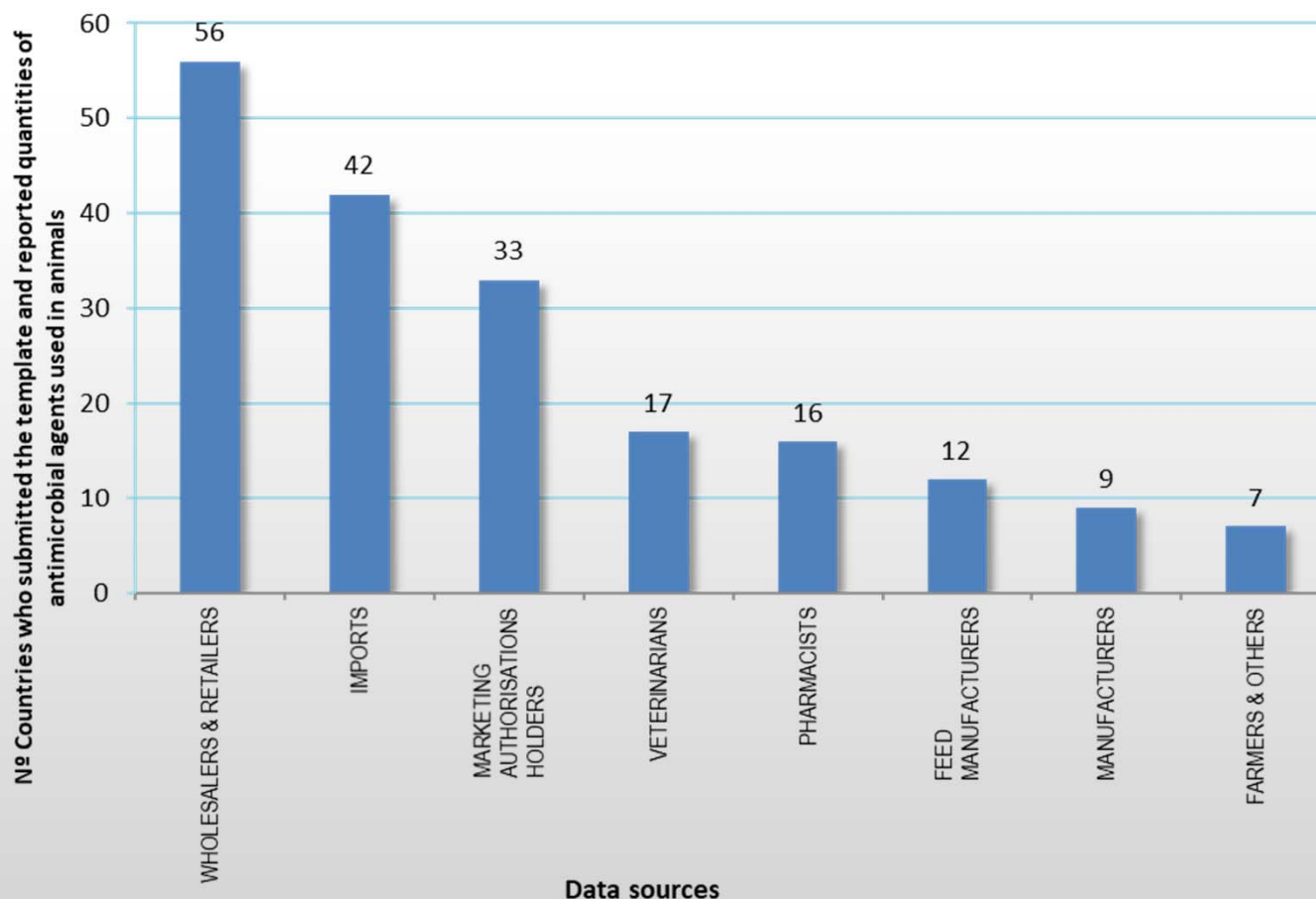
- a.Sales data–Feed mills.
- b.Purchase data–Feed mills.

G.MANUFACTURERS:

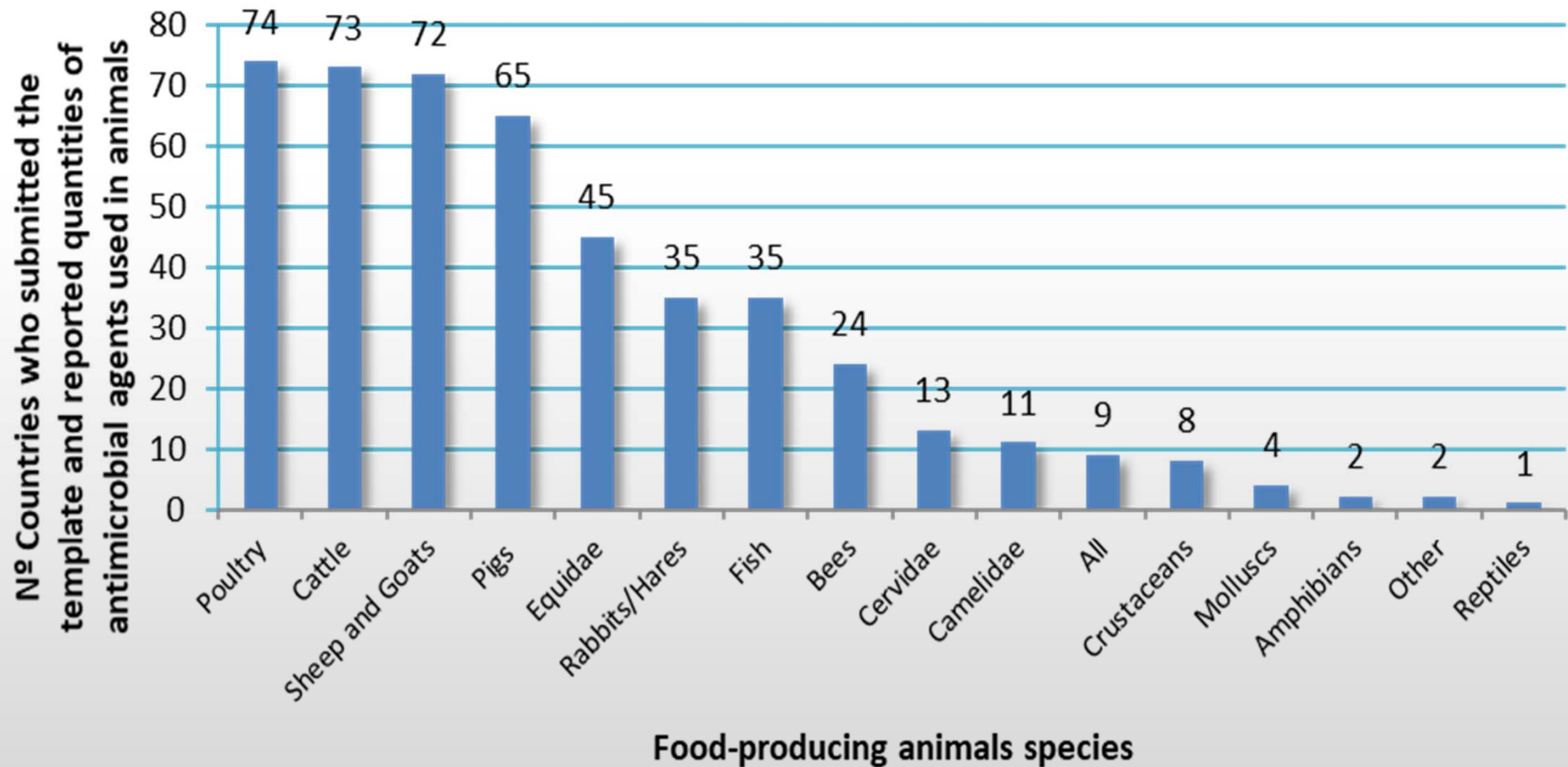
- a.Sales data–Industry trade associations.
- b.Purchase data–Producer organisations.

H.FARMERS & OTHERS:

- a.Antimicrobial use data–Farm records.

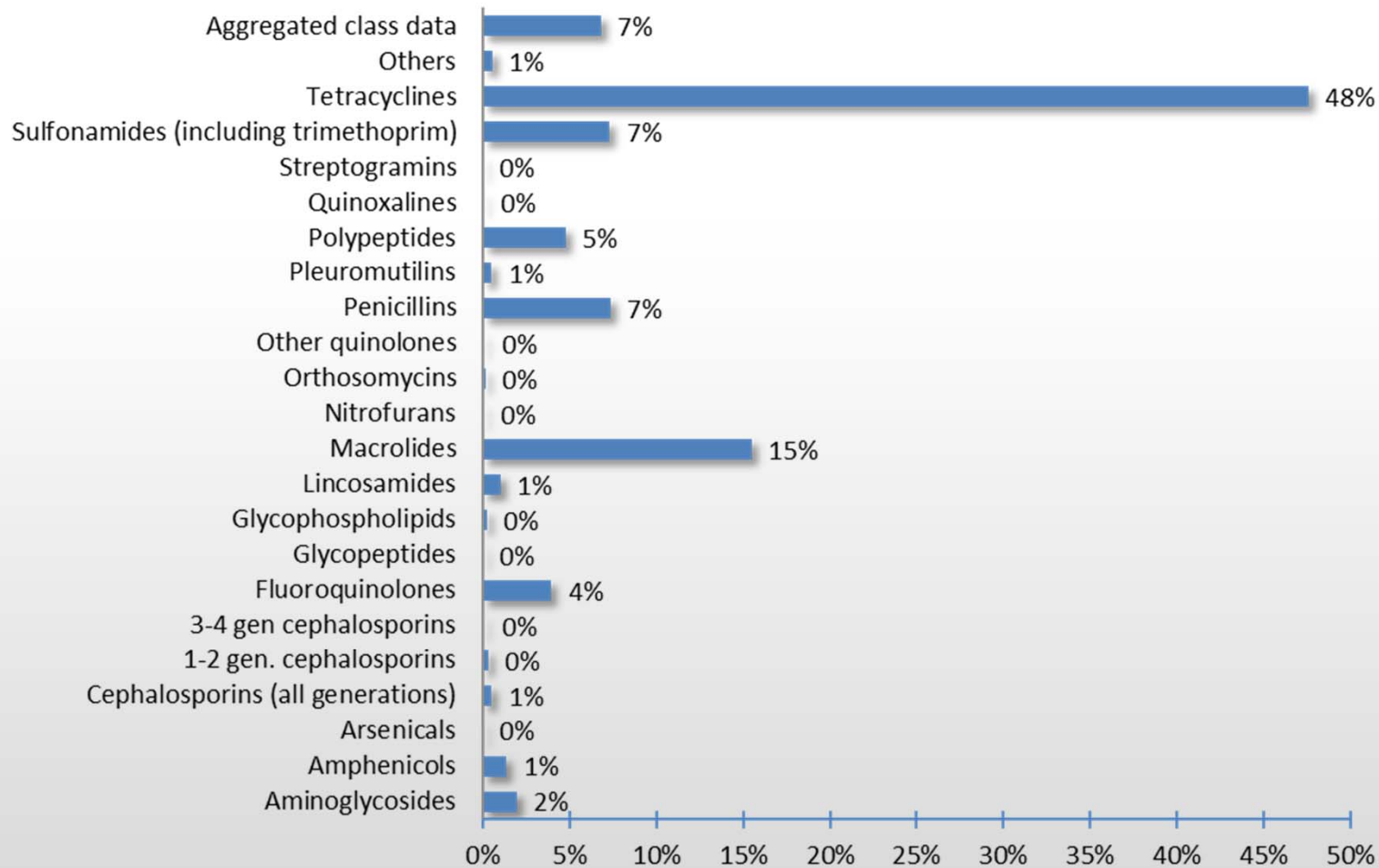


Food-producing animal species covered by the data in 89 Member Countries, 2010-2015, first phase



Reporting Options: Kilograms of antimicrobial agents

Proportion of reported antimicrobial classes by Member Countries, 2010-2015, first phase



% of reported quantities of antimicrobial agents used in animals by 89 Member Countries

Work on the animal biomass (denominator)



- As acknowledged by the OIE *ad hoc* Group on AMR each country will have **variability of their animals' population numbers, production cycles and average weights**.
- The Group therefore recommended development of a methodology for calculation of **animal biomass** to analyse reported quantities of antimicrobial agents reported in the context of *relevant* animal populations.
- Allows for comparisons of trends between OIE Regions and over time.

Development of Biomass Estimates (denominator)



Methodology

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).

- Incorporate census data from WAHIS and FAO, and literature data

➔ kilogram animal biomass for use as a denominator in analysis of antimicrobial use data (mg/kg)

Participation from OIE Regions

In the coming months, Regional offices will be asked to help with validation of average species weights and cycle factors with Member Countries

Final report

First year

www.oie.int/eng/AMUglobaldatabase2016



www.oie.int/fr/AMUglobaldatabase2016

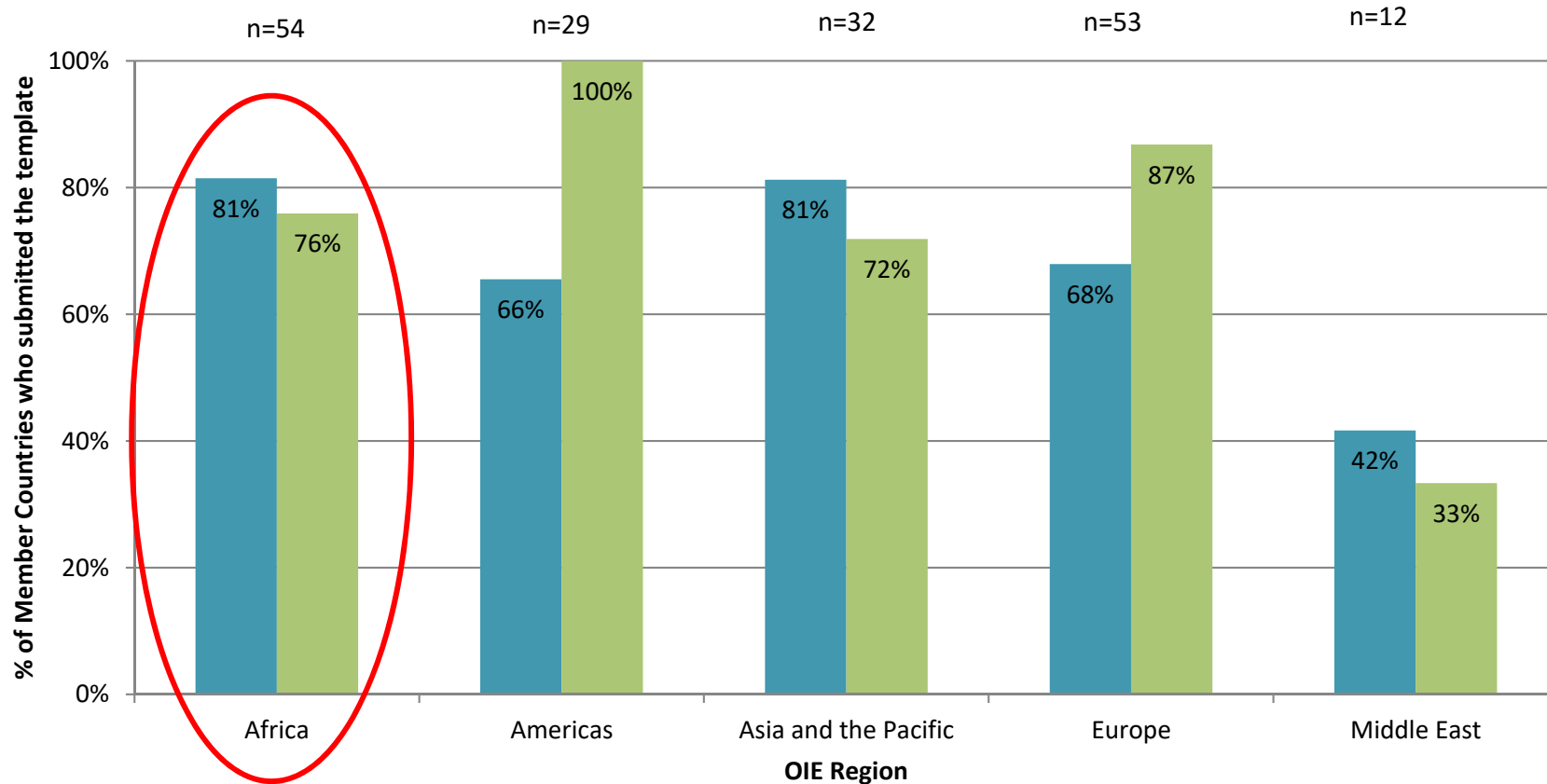
www.oie.int/esp/AMUglobaldatabase2016



- Global analysis
 - General information
 - Quantity of antimicrobial agents reported
- Analysis by OIE Region (first phase)
 - General Information by OIE Region
 - Africa
 - Americas
 - Asia and the Pacific
 - Europe
 - Middle East

Second phase upcoming...

Comparison of the proportion of OIE Member Countries submitting questionnaires by OIE Region



n = 180

■ 2015 Questionnaire ■ 2016 Questionnaire

+ 3 non Member Countries

Global Data Collection on Antimicrobial Agents Intended for Use in Animals

- More **participation** from Member Countries in Africa
- More information on **type of use, animal groups** and route of administration
- develop **denominator** for more valid comparison

WE NEED
YOU



— TO HANDLE —
ANTIMICROBIALS
— WITH CARE —

Conclusion

- The first OIE Annual Report shows great commitment.
- Member Countries need support to improve their national monitoring systems.
- In addition, the second OIE Annual Report will include quantitative analysis per region.
- Over time, the OIE database will be further developed to allow countries to provide their information through an electronic portal.





Delfy Góchez

12, rue de Prony, 75017 Paris, France

www.oie.int

media@oie.int - oie@oie.int



WORLD ORGANISATION FOR ANIMAL HEALTH

Protecting animals, preserving our future