



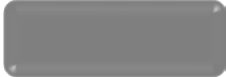
Organisation  
Mondiale  
de la Santé  
Animale

World  
Organisation  
for Animal  
Health

Organización  
Mundial  
de Sanidad  
Animal

# Antimicrobial use in animals:

OIE collection of data on antimicrobial agents  
used in animals (2015)

 **OIE *antimicrobial* use team with the support of  
Dr Gérard Moulin  
ESVAC Stakeholders annual meeting  
London, UK, 2 March 2016**



# OIE collection of data on antimicrobial agents used in animals - Tools

## **OIE Data Collection Template:**

- 4 pages : Baseline Information / Reporting Option 1 / Reporting Option 2 / Reporting Option 3
- All OIE Member Countries should complete the Baseline Information
- Depending of the level of detail available in the reporting country, Reporting Option 1, 2 or 3 should be completed

# OIE collection of data on antimicrobial agents used in animals - Tools

## OIE Data Collection Template – Reporting Option 1:

OIE template for the collection of data on antimicrobial agents for use in animals			
Reporting option 1 - Overall amount sold for/used in animals by antimicrobial class; with the possibility to separate by type of use			
	Overall amount (Growth promotion + Therapeutic use)	Amount for Therapeutic use (including prevention of clinical signs)	Amount for Growth promotion
Antimicrobial class	All animal species (kg)	All animal species (kg)	All animal species (kg)
Aminoglycosides			
Amphenicols			
Arsenicals			
Cephalosporins (all generations)			
1-2 gen. cephalosporins			
3-4 gen cephalosporins			
Fluoroquinolones			
Glycopeptides			
Glycophospholipids			
Lincosamides			
Macrolides			
Nitrofurans			
Orthosomycins			
Other quinolones			
Penicillins			
Pleuromutilins			
Polypeptides			
Quinoxalines			
Streptogramins			
Sulfonamides (including trimethoprim)			
Tetracyclines			
Others			
Aggregated class data			
Total kg			

# OIE collection of data on antimicrobial agents used in animals - Tools

## OIE Data Collection Template – Reporting Option 2:

OIE template for the collection of data on antimicrobial sales for use in animals

Reporting option 2 - Overall amount sold for/used in animals by antimicrobial class; with the possibility to separate by type of use and species group

	Overall amount (Growth promotion + Therapeutic use)	Amount for Therapeutic use (including prevention of clinical signs)				Amount for Growth promotion
Antimicrobial class	All animal species (kg)	All animal species (kg)	All food producing animals (terrestrial and aquatic) (kg)	Terrestrial food producing animals (kg)	Aquatic food producing animals (kg)	All food producing animals (terrestrial and aquatic) (kg)
Aminoglycosides						
Amphenicols						
Arsenicals						
Cephalosporins (all generations)						
1-2 gen. cephalosporins						
3-4 gen cephalosporins						
Fluoroquinolones						
Glycopeptides						
Glycophospholipids						
Lincosamides						
Macrolides						
Nitrofurans						
Orthosomycins						
Other quinolones						
Penicillins						
Pleuromutilins						
Polypeptides						
Quinoxallines						
Streptogramins						
Sulfonamides (including trimethoprim)						
Tetracyclines						
Others						
Aggregated class data						
Total kg						
If 'Aggregated class data' are reported, please list here the classes combined	<free text field>	List all classes for which the amounts were combined, using whenever possible the 'Antimicrobial class' terms or the terminology of the OIE list of antimicrobial agents of veterinary importance. Substances included in the data aggregation that are not part of the recommended terminology should also be listed. If one class was reported that needs to remain confidential, please enter 'Confidential'.				
If 'Others' are reported under 'Antimicrobial class', list here the classes reported	<free text field>	Describe the class or classes reported as 'Others', using whenever possible the terminology of the OIE list of antimicrobial agents of veterinary importance.				

## OIE Data Collection Template – Reporting Option 3:



# OIE collection of data on antimicrobial agents used in animals - Tools

## OIE Data Collection Template – How to choose the suitable Option:

REPORTING OPTION	DESCRIPTION
1	Overall amount <b>sold for/used</b> in animals <b>by antimicrobial class</b> ; with the possibility to separate <b>by type of use</b>
2	Overall amount sold for/used in animals by antimicrobial class; with the possibility to separate <b>by type of use</b> and <b>species group</b>
3	Overall amount sold for/used in animals by antimicrobial class; with the possibility to separate <b>by type of use</b> , <b>species group</b> and <b>route of administration</b>

# OIE collection of data on antimicrobial agents used in animals - Tools

World-Organisation-for-Animal-Health-2015¶	
Guidance-for-completing-the-OIE-template-for-the-collection-of-data-on-antimicrobial-agents-used-in-animals¶	
Contents¶	
Introduction.....→	1¶
Introducing-the-individual-sheets-of-the-OIE-template-for-the-collection-of-data-on-antimicrobial-agents-used-in-animals.....→	2¶
Required-information-and-choices-for-reporting.....→	2¶
Baseline-information.....→	2¶
Reporting-option-1(overall-amount-sold-for-/used-in-animals-by-antimicrobial-class,-with-the-possibility-to-separate-by-type-of-use).....→	2¶
Reporting-option-2(overall-amount-sold-for-/used-in-use-animals-by-antimicrobial-class,-with-the-possibility-to-separate-by-type-of-use-and-species-group).....→	3¶
Reporting-option-3(overall-amount-sold-for-/used-in-animals-by-antimicrobial-class,-with-the-possibility-to-separate-by-type-of-use,-species-group-and-route-of-administration).....→	3¶
Guidance-notes-on-the-data-to-be-provided-in-the-OIE-template.....→	3¶
Explanation-of-terms-used-in-the-context-of-the-OIE-template-and-related-documents.....→	3¶
Baseline-information.....→	4¶
Classes-of-antimicrobial-agents-for-reporting.....→	6¶
Reporting-options-1,-2-and-3:Reporting-quantities-of-antimicrobial-agents.....→	8¶
Reporting-option-1,-2-and-3:Differentiation-by-type-of-use.....→	8¶
Reporting-option-2-and/or-3:Differentiation-by-animal-species-group.....→	9¶
Reporting-option-3:Differentiation-by-routes-of-administration.....→	9¶
Calculating-the-quantities-to-report-in-Reporting-options-1,-2-and-3.....→	9¶
¶	
Introduction¶	
The-OIE-proposes-to-collect-data-on-antimicrobial-agents-used-in-animals-from-OIE-Member-Countries-implementing-Chapters-6.8.-Monitoring-of-the-quantities-and-usage-patterns-of-antimicrobial-agents-used-in-food-producing-animals-of-the-OIE-Terrestrial-Animal-Health-Code-and-6.3.-Monitoring-of-the-quantities-and-usage-patterns-of-antimicrobial-agents-used-in-aquatic-animals-of-the-OIE-Aquatic-Animal-Health-Code,-and-to-contribute-to-the-global-effort-against-antimicrobial-resistance.¶	
Member-Countries-differ-in-the-degree-to-which-they-collect,-collate-and-publish-data-on-antimicrobial-sales-or-use-in-animals-and-also-in-the-degree-to-which-they-can-stratify-the-quantities-of-antimicrobial-agents-used-in-animals-or-used-in-different-animal-species.¶	
Through-this-initiative,-by-means-of-a-specific-template(OIE-template),the-OIE-seeks-to-collect-data-on-antimicrobial-agent-use-in-animals-from-all-OIE-Member-Countries-in-a-harmonised-way.-Using-a-phased-approach,-the-OIE-will-initially-focus-on-sales¶ of-antimicrobial-agents-	
¶	
5-¶Sales-in-the-context-of-the-OIE-data-collection-on-antimicrobial-agents-used-in-animals-should-be-interpreted-to-include-data-on-import-of-antimicrobial-agents-for-use-in-animals.¶	
Version:2_Nov2015.....→	Page:1 of 6¶

Annex-to-the-Guidance-for-Completing-the-OIE-template-for-the-collection-of-data-on-Antimicrobial-Agents-used-in-Animals.¶	
Considerations-on-converting-content-of-antimicrobial-active-ingredients-in-veterinary-medicines-into-kilograms¶	
• Calculating-the-quantities-to-report-in-kilogram-(kg)¶	
Data-on-antimicrobial-agents-intended-for-use-in-animals-comes-in-different-forms.-The-OIE-template-for-the-collection-of-data-on-antimicrobial-agents-used-in-animals(OIE-template)is-designed-to-collect-data-on-the-amounts-of-chemical-compound-as-declared-on-the-product-label.-The-information-may-vary,-ranging-from-bulk-quantities-of-antimicrobial-agents-to-numbers-of-packs-of-a-veterinary-medicinal-product.-The-content-of-antimicrobial-agents-in-such-products-can-be-stated-in-a-number-of-possible-ways.-It-will-be-necessary,-where-appropriate,-to-calculate-the-required-data-to-populate-the-OIE-template.¶	
Detailed-instructions-are-provided-to-harmonise-some-aspects-of-data-reporting.¶	
• Transformation-of-bulk-quantities-(section-1).→	
use-this-section-if-you-need-to-convert-quantities-of-raw-material,-e.g.-from-import-data-into-the-required-format.¶	
• Data-on-veterinary-medicinal-products-(section-2).→	
including-conversion-from-International-Units-(IU)-to-kg-(section-2.(1)).→	
• Recommendations-are-made-in-section-3-for-further-optional-conversions,-aimed-at-achieving-refined-reporting-of-active-entities,-the-ultimately-desired-format.-If-such-calculations-are-made,-they-should-be-reported-in-the-OIE-template-in-the-free-text-field-provided-on-the-sheets-for-Reporting-Option-1,-2-and-3.¶	
The-following-abbreviations-and-symbols-will-be-used.¶	
Symbol/abbreviation	Explanation¶
Strength¶	amount-of-antimicrobial-agent-per-unit-of-veterinary-product¶
%w/v¶	per-cent-weight-per-volume¶
mg/d¶	milligram¶
g¶	gram¶
kg¶	kilogram¶
ton¶	ton-(metric)¶
ml¶	millilitre¶
l¶	litre¶
¶	
1. For data on bulk quantities¶	
Such-information-is-usually-sourced-from-customs,-import-or-other-bulk-trading.-It-will-likely-come-as-a-weight-in-a-number-of-possible-units-(e.g.-metric-tons)-of-chemical-compound-and-needs-to-be-converted-to-kg.-When-conversion-into-kg-is-necessary,-follow-the-steps-below.-If-additional-conversion-factors-are-needed,-please-contact-the-OIE-at-antimicrobialuse@oie.int.¶	
Step-1.-Multiply-the-amount-of-antimicrobial-agent,-i.e.-the-chemical-compound-as-declared-on-the-product-label-with-the-appropriate-conversion-factor-from-the-table-1-below.¶	
Antimicrobial agent (kg) = antimicrobial agent (unit 2) x conversion factor¶	
Table-1.-Converting-weight-units-into-kg¶	
Unit-reported-(unit-2)¶	Conversion-factor-to-kg-(for-multiplication)¶
Metric-ton¶	1000¶
Imperial-ton-(long)¶	1016¶
Imperial-ton-(short)¶	907.18¶
Stone-(imperial)¶	6.35¶
Imperial-Pound¶	0.4536¶
Ounce¶	0.0283¶
¶	
Version:2_Nov2015.....→	Page:1 of 6¶

In case of questions, contact the OIE Scientific and Technical Department (STD) by email at [antimicrobialuse@oie.int](mailto:antimicrobialuse@oie.int)

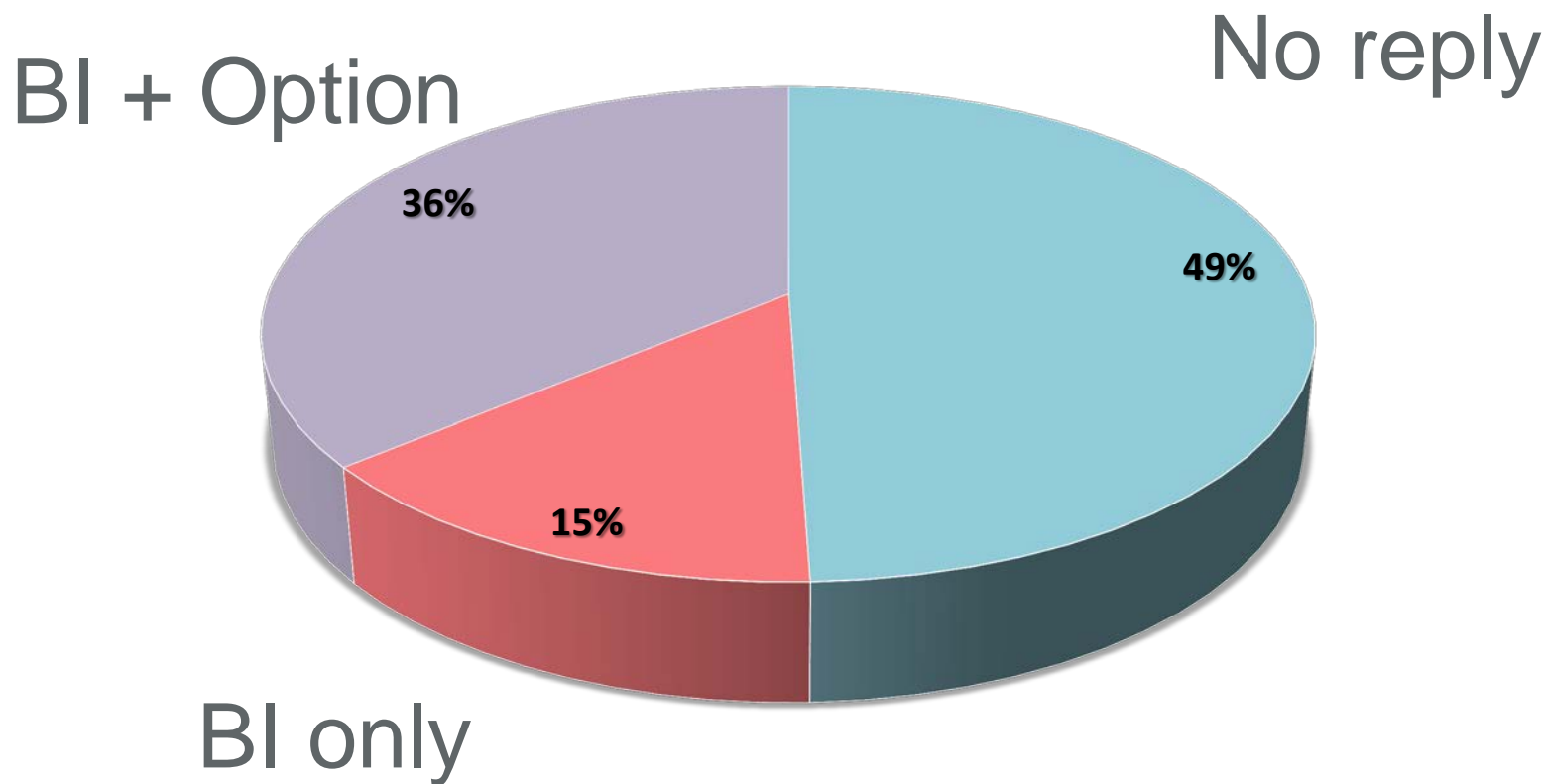
## Some quick details about the collection of data (2015) –preliminary results

- 91 (51%) Member Countries responded
- Data ranging from 2010-2015
- First submission received: 28 Oct 2015
- Last submission received: 25 Feb 2016
- 16 Member Countries submitted additional data
- 9 countries informed that they will put systems in place in the near future

(as of 25 February 2016)



# Proportion of OIE Member Countries submitting questionnaires

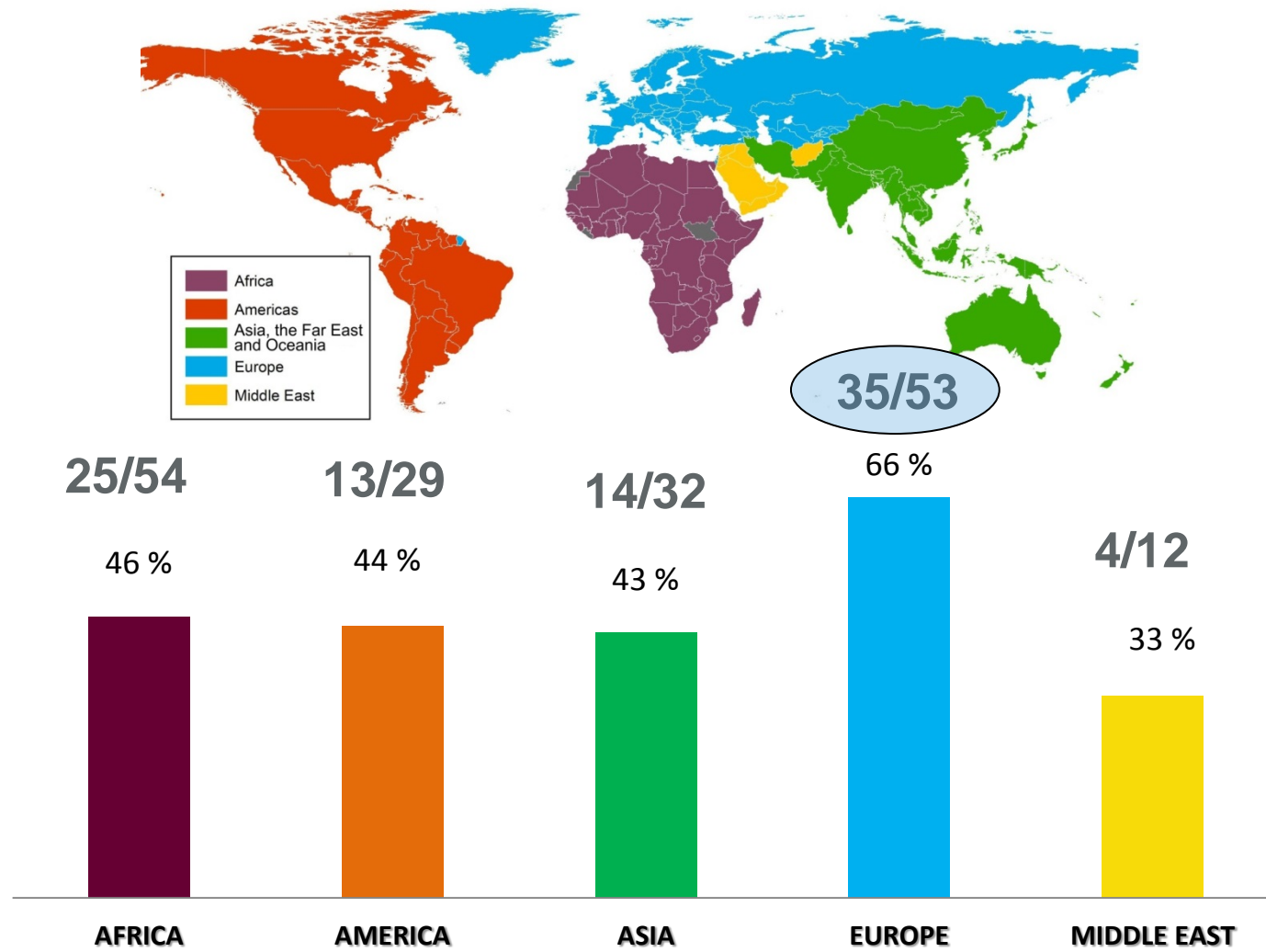


n=180

(Preliminary results - as of 25 February 2015)

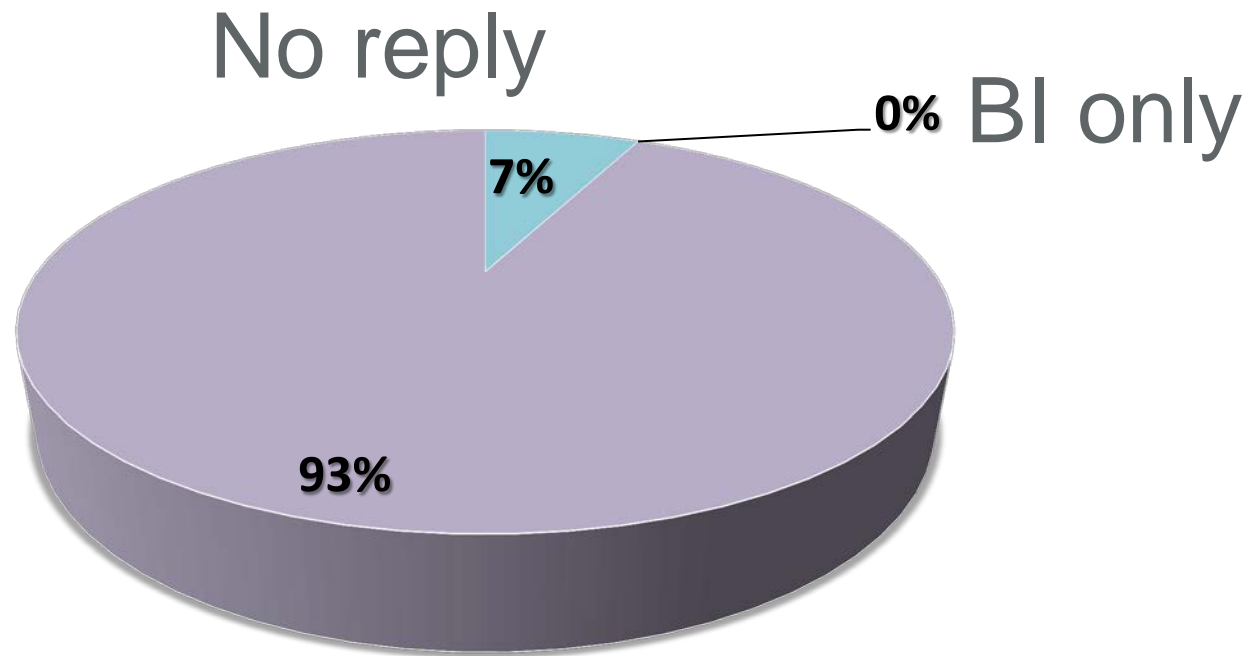
# Proportion of OIE Member Countries submitting questionnaires by OIE Regions

(Preliminary results - as of 25 February 2016)



n=91

# Proportion of OIE Member Countries submitting questionnaires for EU

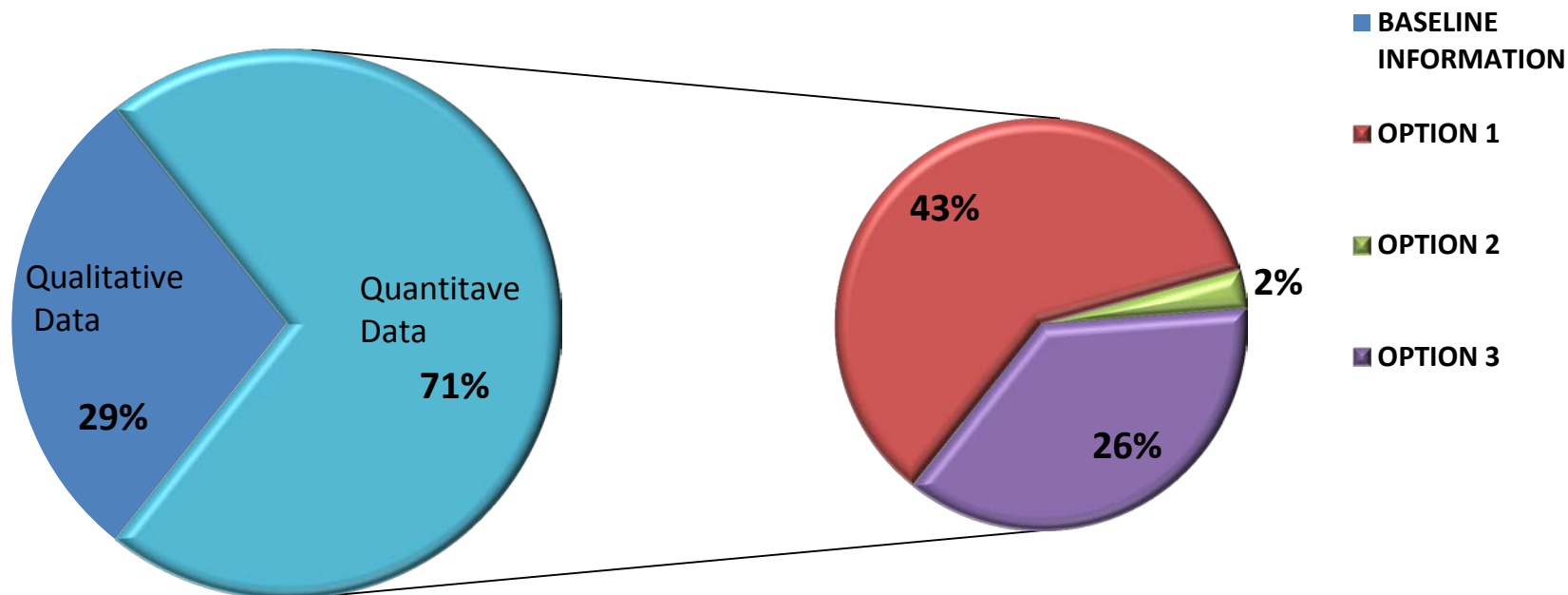


n= 28

BI + Option

(Preliminary results - as of 25 February 2016)

# Reporting Options - worldwide

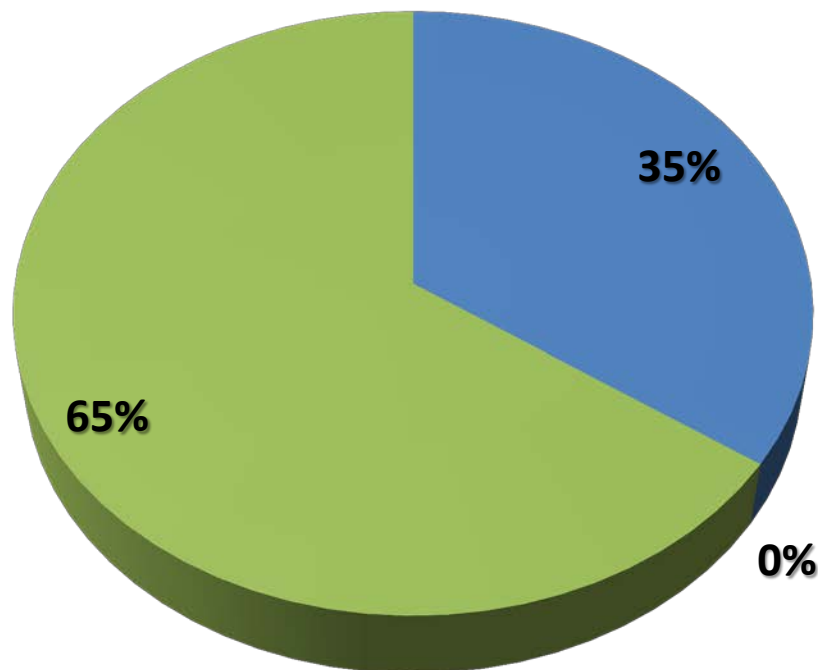


n=65

(Preliminary results - as of 25 February 2016)

# Reporting Options - EU

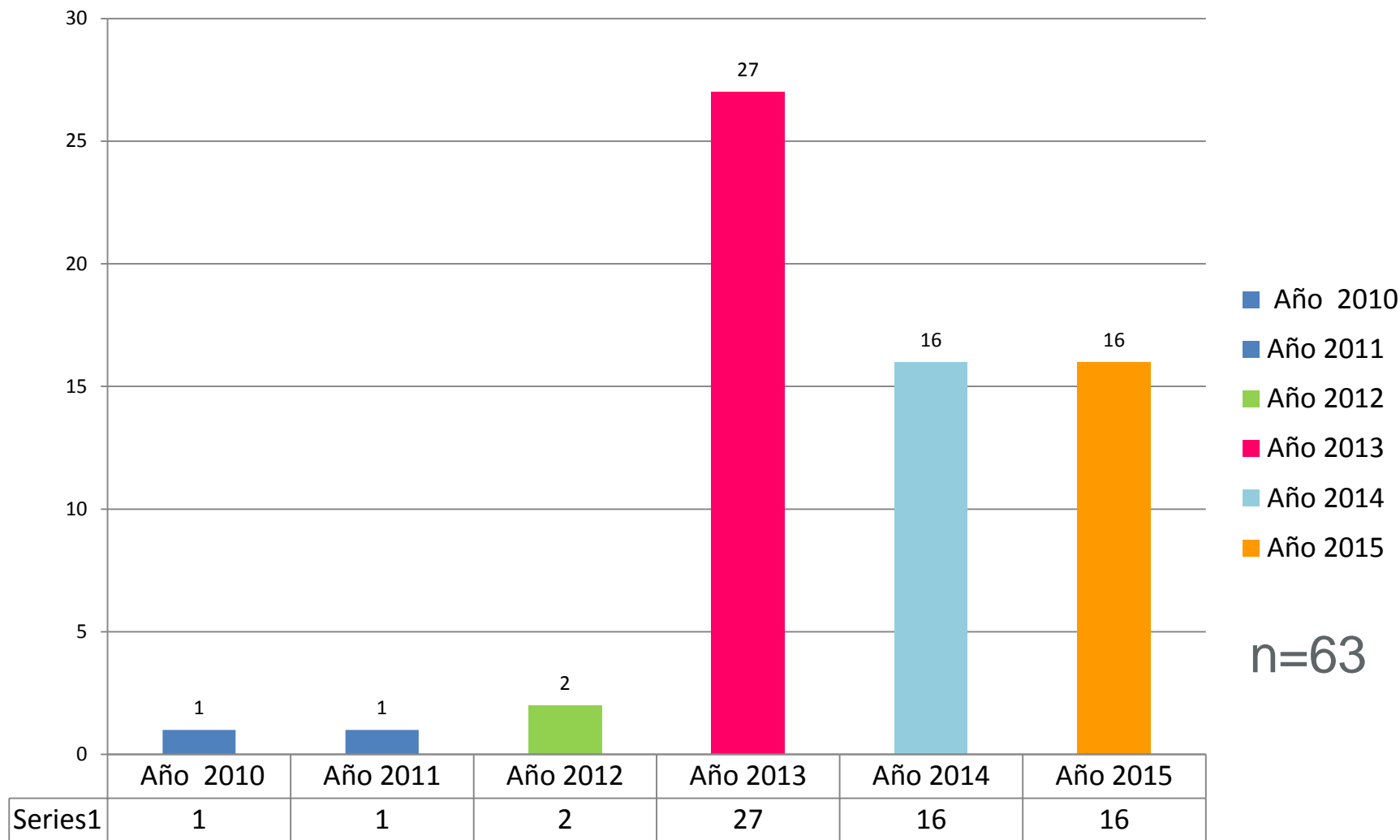
■ OPTION 1 ■ OPTION 2 ■ OPTION 3



n=26

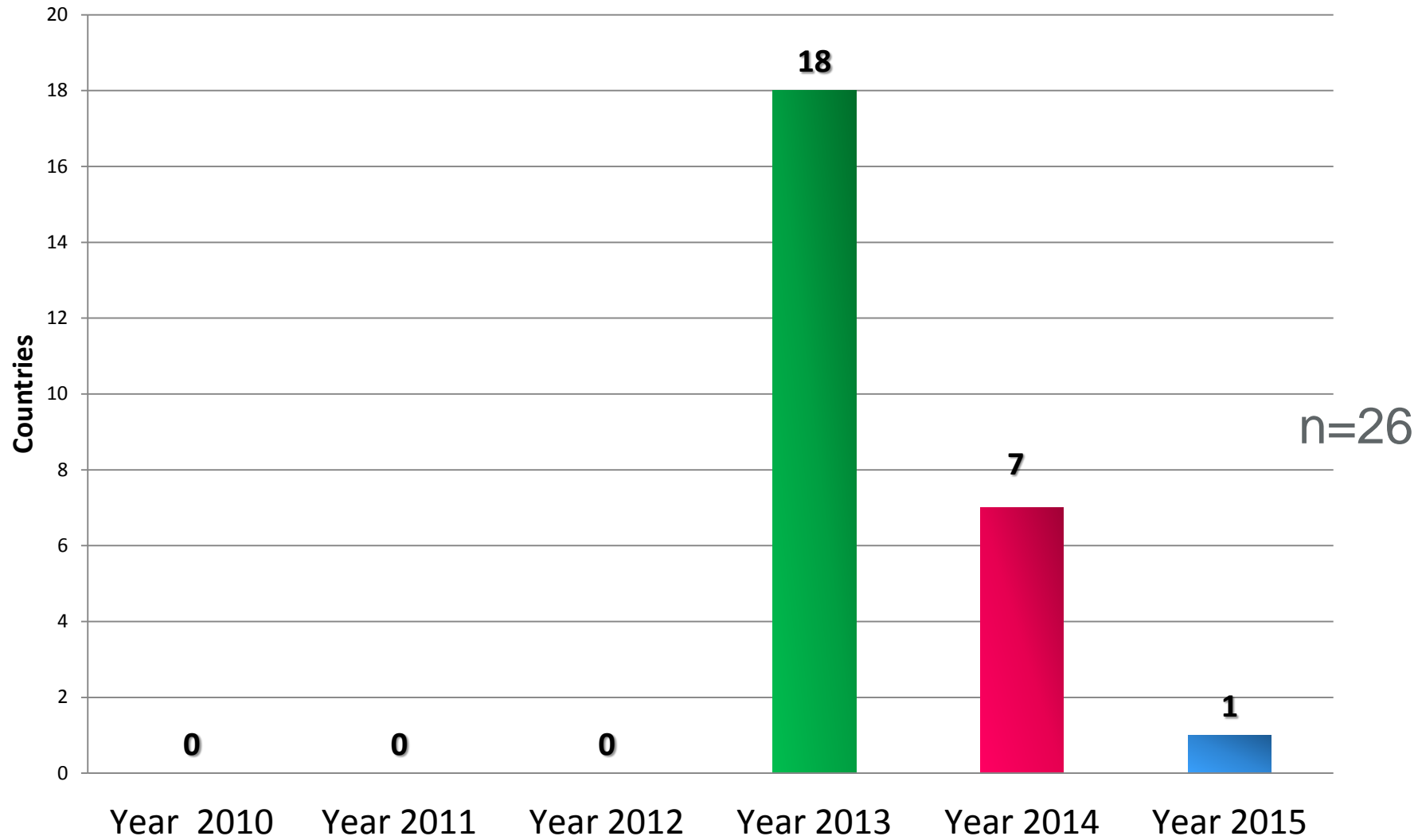
(Preliminary results - as of 25 February 2016)

# Year for which data were submitted - worldwide



(Preliminary results - as of 25 February 2016)

# Year for which data were submitted for EU



(Preliminary results - as of 25 February 2016)

# Conclusion

- Need for further information from OIE Member Countries and quality check of the data (Technical validation)
- Main problems
  - ✓ Tons, Kg, g ?
  - ✓ List of growth promoters not provided
- High number of countries provided quantitative data but more countries needed!



## Lessons learned from first phase

- Need to refine the Data Collection Template
- Need to define a denominator to compare “apples with apples”
- All annual submissions should be sent at a minimum with the Delegate in copy
- Don’t hesitate to contact us if problems or comments at [antimicrobialuse@oie.int](mailto:antimicrobialuse@oie.int)

# Thank you for your attention



Organisation Mondiale  
de la Santé Animale

World Organisation  
for Animal Health

Organización Mundial  
de Sanidad Animal