Dr Elisabeth Erlacher-Vindel

Head of Antimicrobial Resistance and Veterinary Products Department

Global Tripartite activities on Antimicrobial Resistance (AMR)

Kuala Lumpur, Malaysia 14-16 January 2020

WORLD ORGANISATION FOR ANIMAL HEALTH Protecting animals, preserving our future

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

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



NO TIME TO WAIT: SECURING THE FUTURE FROM DRUG-RESISTANT INFECTIONS

REPORT TO THE SECRETARY-GENERAL OF THE UNITED NATIONS

29 APRIL 2019

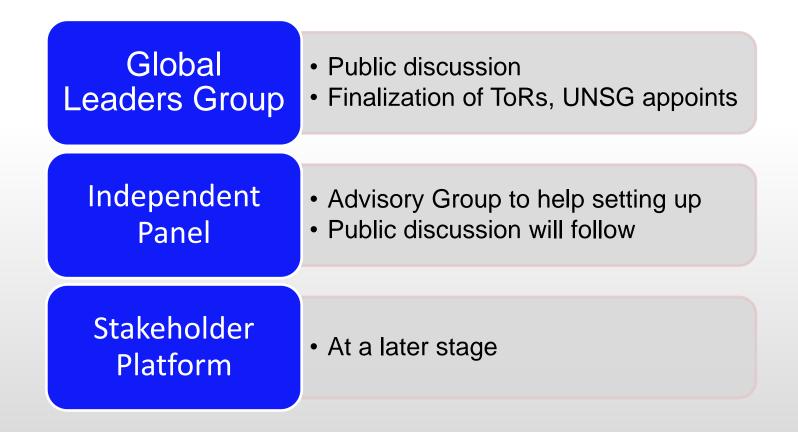
http://www.oie.int/en/for-the-media/press-releases/detail/article/new-report-calls-for-urgent-action-to-avert-antimicrobial-resistance-crisis/



IACG recommendations on governance

- E1 The IACG requests the Tripartite together with UNEP, other UN agencies and the World Bank, in the context of UN reform, to further strengthen joint One Health action, based on target-setting, country priorities and needs, by enhancing their organizational capacity and providing adequate and sustainable core funding for AMR-related activities.
- E2 The IACG recommends the urgent establishment of a **One Health Global Leadership Group on Antimicrobial Resistance**, supported by a **Joint Secretariat** managed by the Tripartite agencies.
- E3 The IACG requests the Secretary-General, in close collaboration with the Tripartite agencies, UNEP and other international organizations, to 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, its impacts and future risks, and to recommend options for adaptation and mitigation.

IACG follow-up



Tripartite activities: recent developments

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

Establishment of the Joint Tripartite Secretariat

United Nations	A/73/869
General Assembly	Distr.: General 10 May 2019
	Original: English
Seventy-third session Agenda item 129 Global health and foreign policy	
Follow-up to the political declaration meeting of the General Assembly of antimicrobial resistance	

Report of the Secretary-General

Commitment to the Tripartite Joint Secretariat and to implement the IACG recommendations and by Tripartite Organisations through resolutions



RESOLUTION 34, 14

OIE's Engagement in the One Real for Global Effort to Control Antimic schiel Resistance

CONSIDERDIG

- 1 That articleichial reciprace (AMP) is galaxity receptioni at a growing publical concern with review racial economic, human teatra and monai assure representation, as demonstrated by the Unated Nationa (US) General Assembly Revolution A-712 object in 2016.
- 5 the bound that there is a refricted in relations on protein the enmethological agent, particly remains the protein reporting global management barrangement and post marks the relationship of the Trajerse global management and an anomaly and the relationship of the Trajerse (TAN) CEC, TROS, and with the World Data, the Deparatement for Deparate Comparison and Development and other colling interments to barrange on the Deparatement on the Deparatement of the Protection.
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- The Manitoring and Dividuation framework developed by the Triparitie to measure country program in the implementation of the Global Action Plan using a harmonized approach.
- The ALEI Multi-Durante Trust Fund "Combarring the string global threads of ALEI through a One Shouth determent" on the verse of boung cutoblashed for the Transmiss in cutoble sense researce conductations for the mathematication of the Transmiss on ALEI.
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SEVENTY-SECOND WORLD HEALTH ASSEMBLY

Agenda item 11.8

28 May 2019

WILAT2.5

Antimicrobial resistance

The Seventy-second World Bealth Assembly,

Listing considered the report by the Director General on follow up to the high level meetings of the United Nations General Assembly on health-related instant antimatrobial relations.²

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Acknowledging also the positive effect of minuteration, including vaccination, and other indexing prevention and control measures, such as adequate water, similation and hygene (WAS21) in sedaring minuterability minutes;

May 2019

¹ Document A72-08.



Food and Agriculture Organization of the United Nations

	Appendix C
	Resolution 6(2019 Autimicrobial Reducace
THE CONFERENCE,	
	of addressing the growing global threat of antimicrobial resistance (AMB edianted, multi-ocetaen), One Health approach in the central of the Development;
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Resistance (through WHA 68	P ⁴ Would Heelth Assembly of the Global Action Plan on Antimire child (7), into which FAO and OIE provoted substantial technical inputs and etc of the Executive Board of WHO state 144 th Sensors (2009);
	its of the Tripartite in coordinating and enhancing the global response to here t and its continuing effort to further integrate environmental aspects of UNEP.
action of United Nations Age	G on AARI to the UN Secretary General, and the need for continued joint order. Monthly State and other relevant statisticalities, and also the need gate the AARI threats to human, animal and plant health, fixed safety and states.
regional and national levels y	obsensit, comprehensive, integrated and balanced approach at girthal, is a "One Dealth" approach, involving relevant actors in the human, are and approach due service, while amount and fixed safety.

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THE CONFERENCE,

 Supports the angoing work of EAO, including through the Triportie' collaboration with UPEP, with Memory States, the provide sector and other paramet² to address antimizational sections on the datal approxime systems, taking into account the needs of final and agriculture sectors would using:

June 2019

-2019 add/am1

hand have been

Tripartite Joint Secretariat on Antimicrobial Resistance

Purpose: Lead and coordinate the global response to AMR in close collaboration with the UN system and other organizations. The Tripartite Joint Secretariat consolidates cooperation between WHO, FAO and OIE, drawing on their core mandates and comparative advantages to address needs of the global response across the One Health spectrum.

Hosting arrangement

Hosted by WHO with a critical mass of staff, along with dedicated liaison officers working in FAO and OIE

Governance arrangement

- The Executive Committee
- The Senior Management Group
- The Tripartite Joint Secretariat team

Key functions

- Global promotion, advocacy and political engagement
- Support global governance structures on AMR
- Coordinate interagency engagement and partnership
- Coordinate and monitor Tripartite workplans on AMR
- Map gaps and opportunities
- Support the functioning of the AMR Multi-Partner Trust Fund

Tripartite Workplan 2019-2020: 5 focus areas for multisectoral collaboration





Food and Agriculture Organization of the United Nations

WORLD ORGANISATION FOR ANIMAL HEALTH



Tripartite Country Self Assessment Survey

(TrACSS)

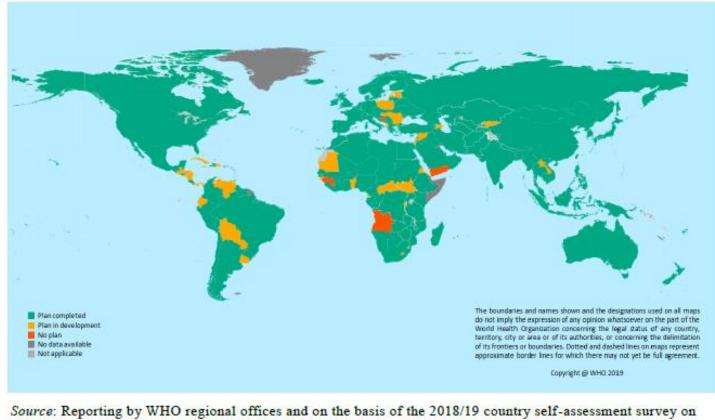
- Tracking countries progress on AMR objectives - Self Assessment
- Multi-sectoral
- Data for national and global analysis (baselines)
- Contributed to the Secretary Generals report to the United Nations General Assembly (2019) <u>https://undocs.org/en/A/73/869</u>
- The Self Assessment survey now fourth round can be found at: <u>http://www.who.int/antimicrobial-</u> resistance/global-action-plan/database/en/

	5.1 Country progress with development of a national action plan on AMR*						
0	A	No national AMR action plan.					
0	В	National AMR action plan under development.					
0	С	National AMR action plan developed.					
0	D	National AMR action plan approved by government that reflects Global Action Plan objectives, with an operational plan and monitoring arrangements.					
0	E	National AMR action plan has funding sources identified, is being implemented and has relevant sectors involved with a defined monitoring and evaluation process in place.					



Tripartite Annual Self-Assessment Survey

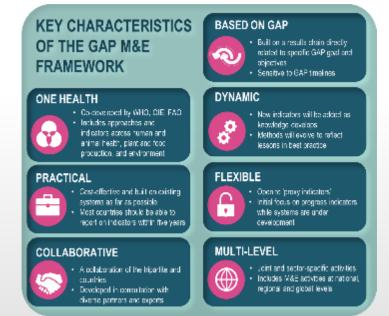
Progress made in the development of national action plans



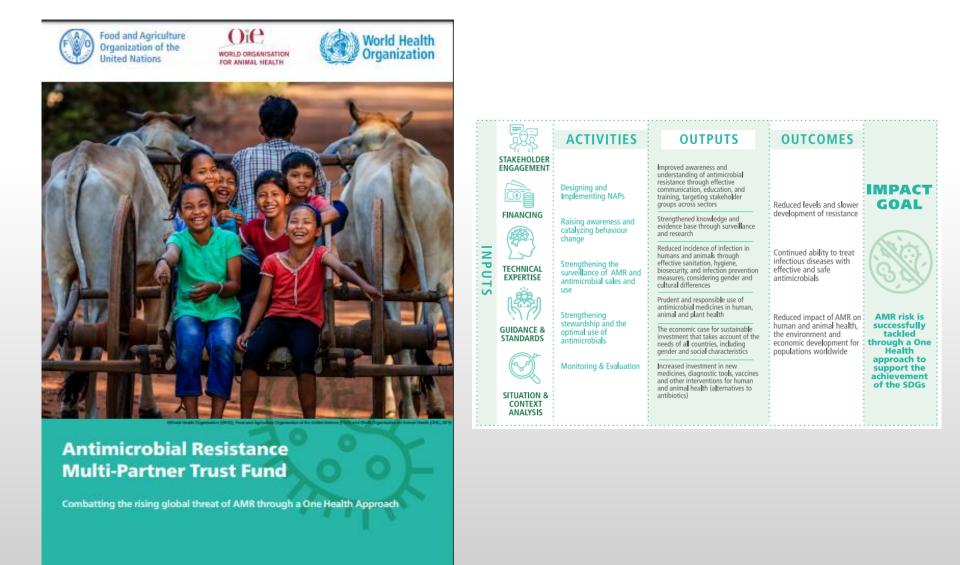
antimicrobial resistance of the Tripartite Organizations.

Tripartite Coordination and the GAP M&E Framework

- Practical, data-driven system to determine success of the GAP delivery
- AMR M&E framework provides a recommended list of indicators to be measured at National or global level (including OIE Global AMU Database,
- PVS, TrACSS...)
- Can be used to inform decision making
- AMR M&E Framework with standardised indicators is being piloted by the Tripartite



Tripartite Multi-Partner Trust Fund



Dr Elisabeth Erlacher-Vindel

Head of Antimicrobial Resistance and Veterinary Products Department

Antimicrobial Resistance (AMR): current and future OIE activities

Kuala Lumpur, Malaysia 14-16 January 2020

WORLD ORGANISATION FOR ANIMAL HEALTH Protecting animals, preserving our future

Ρ

Resolution No.14 adopted by the OIE General Assembly in May 2019

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

To 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*.



DRAFT RESOLUTION No. 14

OIE's Engagement in the One Health Global Effort to Control Antimicrobial Resistance

CONSIDERING

- That antimicrobial resistance (AMR) is globally recognised as a growing political concern with serious social, concomic, human health and animal health repervensions, as demonstrated by the United Nations (UN) General Assembly Resolution A-71.5 adopted in 2016,
- 2. The Scould OE Global Conference on natimicrohal avaitance and product use of antimicrohal apents, puting standards into practice, commised in Corbins 2005 in Marchaek, Marcon, that confirmed commission to respecting flobal strategies and initiative developed under the baselensing of the Springent (FM). OIC MICOL as treasmal Bacha to Springer Hergeling Instructional commission and Development and other related institutions to build a strenger consumic case for suntiability contrast, and other related institutions to build a strenger consumic case for suntiability.
- The engoing AMR activities in the framework of the Tripartite, following the Memorandum of Understanding signed in 2018, and its joint workplan to support countries in implementing National Action Plans in support of the Global Action Plan an AMR,
- The Monitoring and Evaluation framework developed by the Tripartite to measure country pr in the implementation of the Global Action Plan using a harmonised approach,
- The AMR Multi-Partner Trust Fund 'Combatting the rising global threast of AMR through a One Health Approach' on the verge of being established by the Tripartite to enable joint resource mobilisation for the implementation of the Tripartite workplan on AMR,
- The Ad hoc Inter-agency Coordination Group on Antimicrobial Resistance (IACG) report, provided to the United Nationa Secretary General in April 2019 after public consultation, and particularly its recommendations repeating global headenhy and conditionition on ADR, and of Balling en Member National Action Pane,
 Marcinal Action Pane,
- The UN Secretary General report prepared for the UN General Assembly in September 2019 in response to the Resolution A-11/3 to provide an update on progress made by Member States and the Tripartite on the implementation of the Political Declaration and recommendations emanating from the Ad-hoc Inter-Agency Coordination Group on Antimicrobial Resistance,
- The OIE Strategy on Antimicrobial Resistance and the Prodent Use of Antimicrobials developed following the adoption of Resolution No. 36 at the 84th General Session in May 2016, which also considered previous Resolutions related to AMR and the harmonisation of registration requirements for veterinary drugs,
- The recommendation to OIE Member Countries, to follow the guidance of the Global Action Plan on Antimicrobial Resistance, particularly by developing National Action Plans, in respect of the use of antimicrobial agunta in animals adopted through Resolution No. 26 at the 83rd General Session in May 2015.
- 10. The importance and the relevance of the OIE standards, guidelines, tools and interventions carried out by the OIE to date in the fight against AMR, and the need to maintain its active involvement in Tripartite activities and to readfirm its role in the global leadership regarding the challenge of AMR for animal beath and welfare.

ND RECOGNISING the need to urgently implement the Tripartite Workplan on AMR supported by the fullib-Partner Trust Fund to further scale up the global effort and support to the countries and to trengthen (DE's capacity to respond to the growing challenge and expectations in addressing AMR,

THE ASSEMBLY RECOMMENDS THAT

- The OIE continues to strengthen the central role of the Triparitie in engaging and coordinating all critical stakeholders at the global level through a Joint Triparitie Secretaria function, as well as through the AIEM Multi-Paramer Trust Fund, "Combating the rising global threat of AIR through a One Health Approach" while taking, UND, account the most effective use of current resources and work stream).
- The OIE further contributes to the rapid implementation of the recommendations emanating from the work of IACG and the UNOA, in accordance with the OAP and the OIE Strategy on addressing AMR.
- The OIE regularly informs its Member Countries of the global situation and progress made regarding the global use of antimicrobial agents in animals and the fight against AMR.

AND DECIDES THAT

he OIE Director General establishes a permanent Working Group on AMR supporting the plementation of the OIE Global Strategy on Antimicrobial Resistance and the Prudent Use of intimicrobials and the organisation's capacity to respond to global challenges according to its mandate.

> (Adopted by the World Assembly of Delegates of the OIE on 27 May 2019 in view of an entry into force on 31 May 2019)

Draft 3 May 2019

OIE Working Group on Antimicrobial Resistance

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)

Terms of 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;
- Sestablishment of an information system on falsified and substandard drugs;



- 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 Working Group on AMR

First meeting: October 2019 Second meeting: March 2019



Report WG AMR • Rapport WG AMR • Informe WG AMR • Oct2019

zmakoni@mcaz.co.zw

c Elisabeth Erlacher-Vindel; Delfy Gochez; Morgan Jeannin; Monique Eloit; Matthew Stone

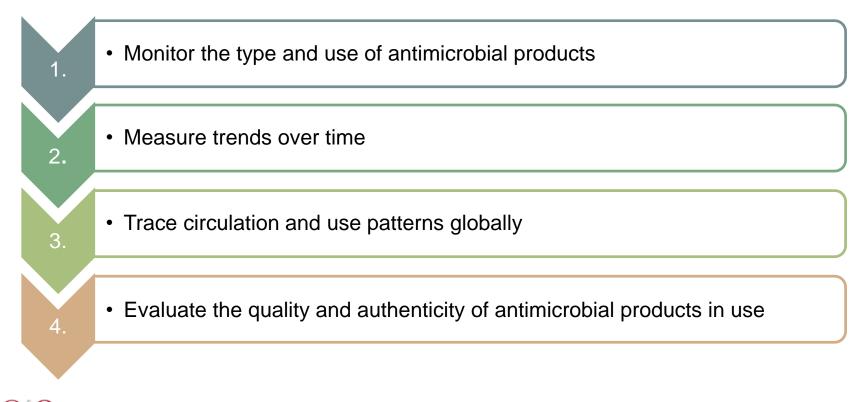
To OIE Focal Points on Veterinary Products	Aux Points focaux de l'OIE pour les produits vétérinaires	Para las Puntos focales de la OIE por productos veterinarios				
FOR YOUR INFORMATION	POUR VOTRE INFORMATION	PARA SU INFORMACIÓN				
To Delegates of OIE Member Countries	Aux Délégués des Pays Membres de l'OIE	A los Delegados de los Países Miembros de la OIE				
Dear Delegates	Mesdames et Messieurs les Délégué(e)s	Estimados/as Delegados/as:				
Please find attached the provisional version of the:	Veuillez trouver ci-jointes la version provisoire du :	Sírvase encontrar adjunta la versión provisional del:				
Report of the meeting of the OIE Working Group on <u>Antimicrobial Resistance</u> , 1-3 October 2019. This report are also available on the website of Delegates and	 <u>Rapport de la réunion du Groupe de travail de l'OIE sur la résistance aux agents antimicrobiens</u>, 1-3 octobre 2019 Ce rapport est également disponible sur le site des Délégués et 	 Informe de la reunión del Grupo de Trabajo de la OIE sobre la resistencia a los agentes antimicrobianos, 1-3 de octubre de 2019 				
the <u>OIE Website</u> .	sur le <u>site de l'OIE</u> .	Este informe también está disponible en el sitio web de				
With best regards,	Je vous prie d'agréer, Cher(e) Délégué(e), mes salutations	Delegados y en el sitio web de la OIE.				
	distinguées.	Reciba mis más cordiales saludos.				
Monique Eloit	Monique Eloit	Monique Eloit				
OIE Director General	Directrice générale de l'OIE	Directora General de la OIE				
	(Click in the link) • (Cliquez sur lien) • (haga clic en el vínculo)					

https://www.oie.int/en/standard-setting/specialists-commissions-working-ad-hocgroups/working-groups-reports/working-group-on-amr/the-group-reports/#c42477

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, has taken the lead to build a global database on antimicrobial agents intended for use in animals.

The database is designed to:



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:

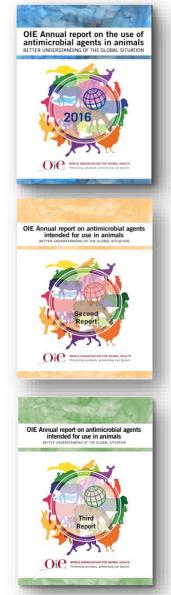
- Oct 2016 May 2017
- 2nd Report published in Dec 2017
- Data ranging from 2013 2016

3rd Round:

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

4th Round:

• Sept 2018 – May 2019



Data collection on AMU in animals

- Focus on sales of antimicrobial agents destined for use in animals as an indicator of actual use and for those agents listed in the OIE 'List of antimicrobial agents of veterinary importance'
- The OIE template (Microsoft Excel file) 4 worksheets

٩	*** 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 Ant	imicrobial Agents Use Data Collection							
1	Title	<free field="" text=""></free>							
2	Name (First name, SURNAME)	<free field="" text=""></free>							
3	Role with respect to the OIE	OIE Delegate OIE Focal Point for Veterinary Products Other							
4	Organisation	<free field="" text=""></free>							
5	Organisation's Address	<free field="" text=""></free>							
6	Country	<free field="" text=""></free>							
7	Phone Number	<free field="" text=""></free>							
8	Email Address	<free field="" text=""></free>							
		neral Information							
ues		ur country. Responses should not be linked to the year of antimicrobio ntities reported.							
9	Are data on the amount of antimicrobial agents intended for use in animals available?	Amounts available - Yes 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 field="" text=""></free>							
	Baseline Information Reporting Opt	ion 1 Reporting Option 2 Reporting Option 3							

		Overall Amount: Veterinary Medical Use + Growth Promotion	Amount: Veterinary Medical Use (including <u>prevention</u> of clinical signs)	Amount: Growth Promotion			
	Antimicrobial Class	All animal species (kg)	All animal species (kg)	All animal species (kg)			
Aminoglyc	osides	0		1			
Amphenicols		0					
Arsenicals		0					
Cephalosp	orins (all generations)	0	C				
1-2 gen. cephalosporins		0					
3-4 gen cephalosporins		0					
Fluoroquinolones		0					
Glycopeptides		0					
Glycophospholipids		0					
Lincosamie	des	0					
Macrolides		0					
litrofuran	5	0					
Orthosomy	vcins	0					
Other quin	olones	0		1			
	Baseline Information	Reporting Option 1 Reporting	Option 2 Reporting Option 3	(+) : 4			

						OIE template for the o	ollection of data on antimicrobial agents verall amount sold for/used in animals by	ntended for us	e in animals class: with the ex-	anihilina ta ana	wate by turns of	une species						
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Amount				Veterinary Medical Use														
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(including prevention of clinical signs) Growth Promotion					All feed-producing animal						al and a							
					All Animal Species	All animal species			Cor	npanion anin	nais	(terrestrial and aquatic)			Terrestrial for			
	Companinon animals	All Food-producing animals (terrestrial & aquatic)	Terrestrial Food- producing animals	Aquatic Food- producing animals	All Food-producing animals [terrestrial & aquatic]	Antimicrobial	Class All routes [kg]	Oral route (kg)	Injection route	Other routes	Oral route (kg)	Injection route	Other routes	Oral route (kg)	Injection route	Other routes	Oral route (kg)	Ir
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0		0				Other quincloses Penicillas		0	0	0	1			0	0			-
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10	n z repo	orting Option 3	+	1			Total by	0	0		0	0	0	0	0		0	
Ī						< >	Baseline Information	Repor	ting Optic	on 1 🛛 F	Reporting	Option i	2 Rep	orting (Option 3	(+)		

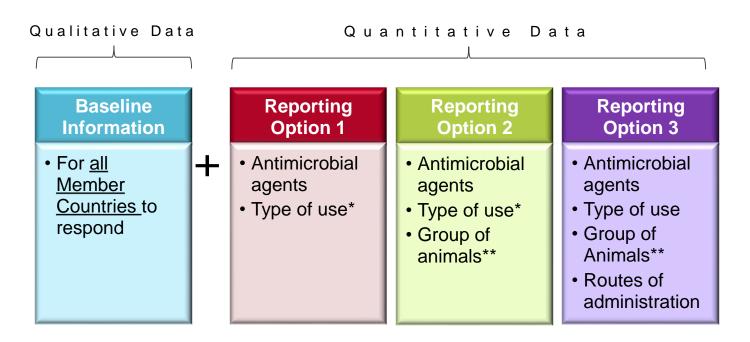
DE template for the collection of data on antimicrobial agents intended for use in animal ting option 2 - Overall amount sold for/used in animals by antimicrobial class; with the Overall Amount: erinary Medical Use + Baseline Information Reporting Option 1 Reporting Opt

and aqua All routes [kg]

(kg)

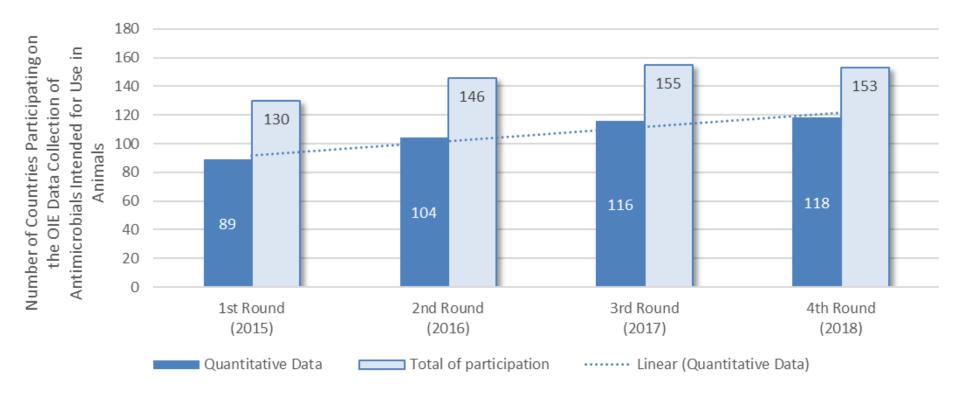
Reporting Options

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

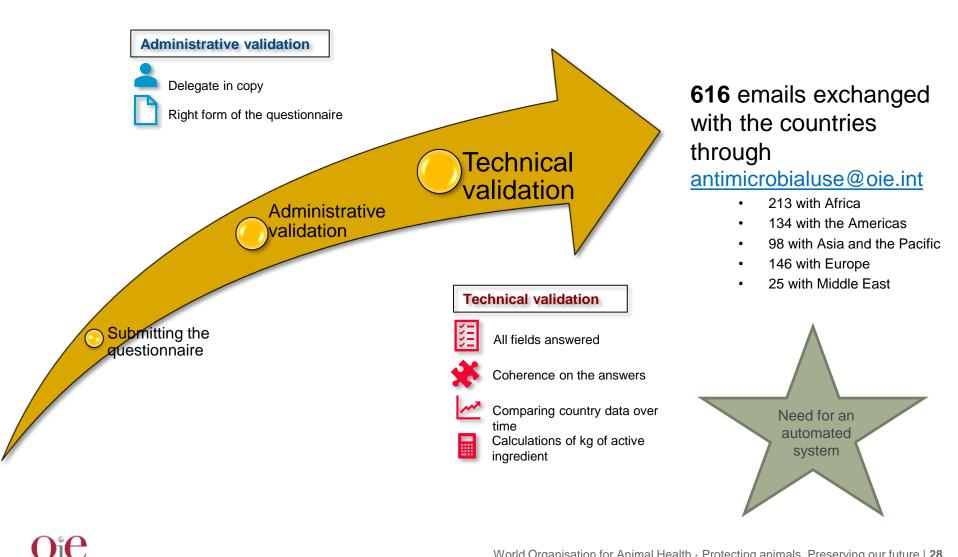


- * Type of use: veterinary medical use or growth promotion
- ** For the purposes of the OIE database, animal groups means: 'terrestrial food-producing animals', 'aquatic food-producing animals' or 'Companion animals'

Participation Progress



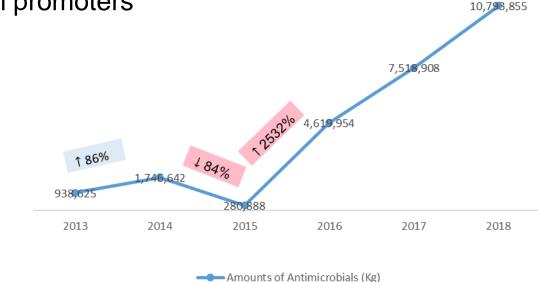
Interaction with the Countries (4th Round)



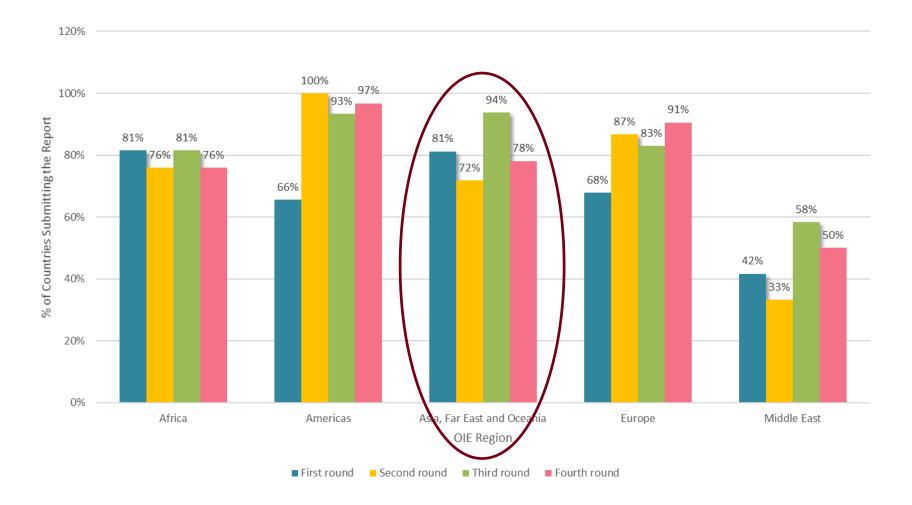
World Organisation for Animal Health · Protecting animals, Preserving our future | 28

Exchange with Countries

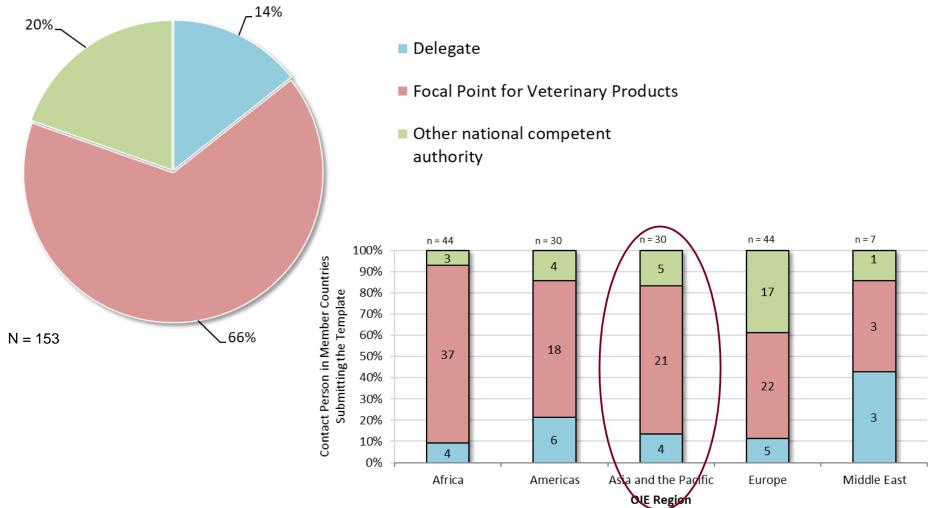
- Validation of the data (emails phone calls)
- Around 80% of the countries changed their original report after the clarifications:
 - Data sources
 - Quantities
 - Antimicrobial growth promoters
 - Reporting Option
 - Data Coverage



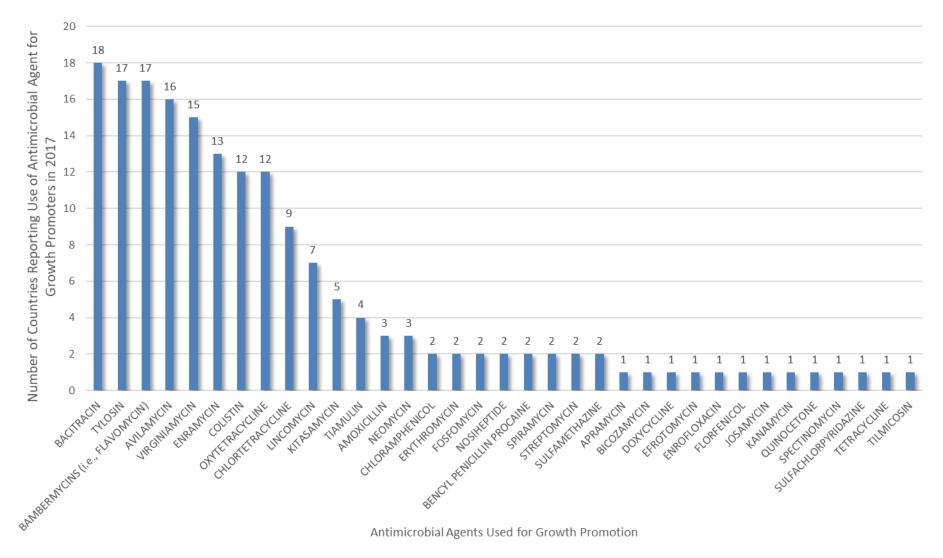
Comparison of the Proportion of Countries Submitting Questionnaires by OIE Region



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

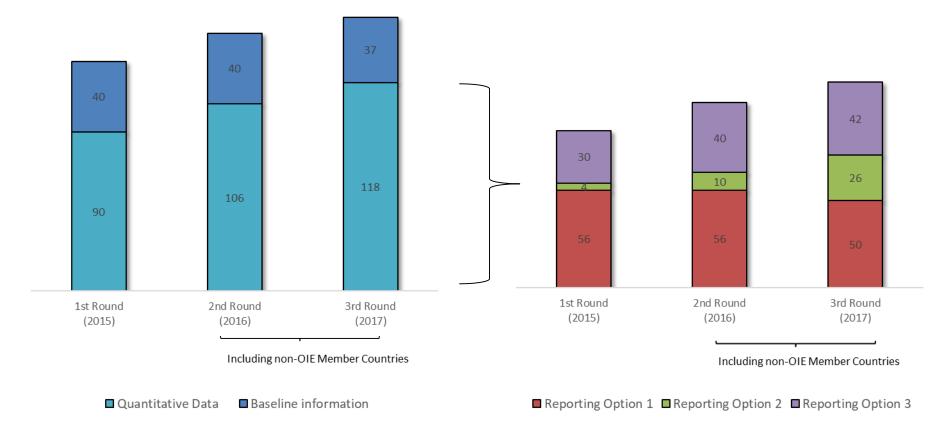


Antimicrobial Agents Used for Growth Promotion in Animals in 31 Countries, Third Round (2017)



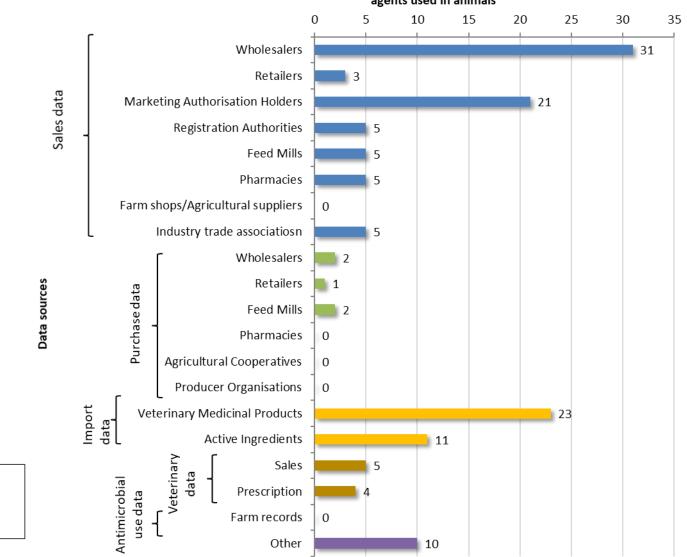
Oie

Comparison of Data Types Reported in the OIE Data Collection



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

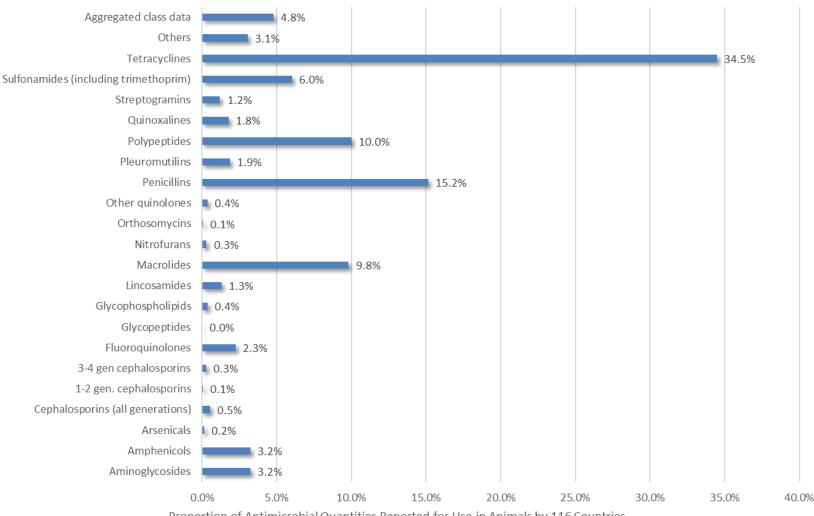


Number of Countries who submitted the template and reported quantities of antimicrobial agents used in animals

Countries: -582 emails -20 phone calls

Exchanges with

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

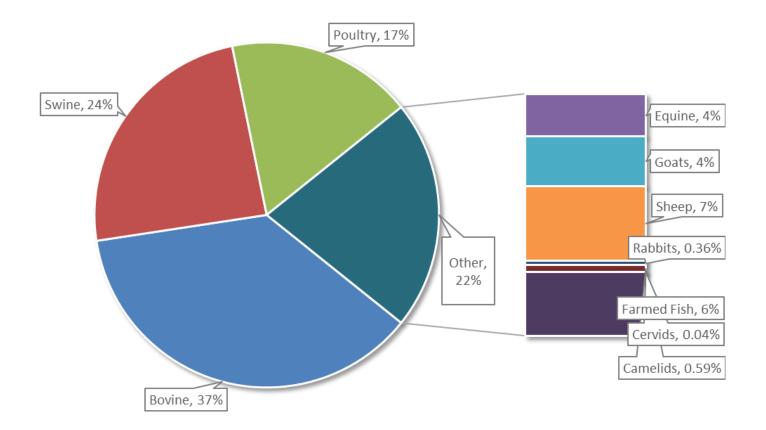


Proportion of Antimicrobial Quantities Reported for Use in Animals by 116 Countries

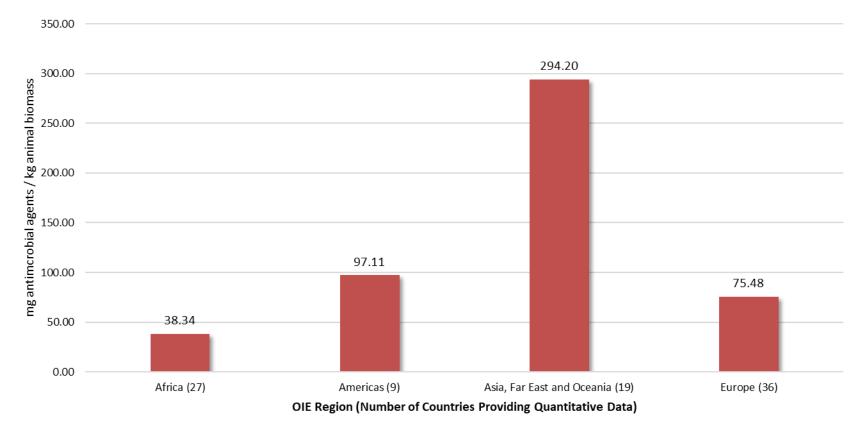
Work on the Animal Biomass
(Denominator)Image: Constraint of the Animal Biomass
(Denominator)Image: Constraint of the Animal Biomass
(Denominator)Image: Constraint of the Animal Biomass
(Denominator)

- 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 <u>denominator</u> 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: <u>Antimicrobial agents (mg)</u> <u>Animal biomass (kg)</u>



Global (not adjusted by reported coverage)

Future Development (AMU Database System)

X =

Country Data Ownership

- · Specific trend analysis
- Raised awareness
- Increased transparency



- Automatic calculations
- Data quality check
- Detailed data analysis

🖬 🤨 💉

Refinement of Information

- Species level data
- Farm level data

👫 🤨 🌶

- Connection with other data sources:
 - ✓ OIE-WAHIS (World Animal Health Information System)
 - ✓ TISSA (Tripartite Integrated System for Surveillance on AMR and Antimicrobial Use)
 - ✓ PVS (Performance of Veterinary Services)

Regional Trainings of OIE Focal Points on Veterinary Products /AMR

Trainings in 2019/20 (6th cycle), Focal Point network started in 2009

- AMERICAS
 - 26-27 September 2019. Montego Bay, Jamaica
- AFRICA
 - 9 -11 July 2019. Addis Ababa, Ethiopia
 - 9 -11 October 2019. Lomé, Togo
 - 29-31 October 2019. Mombasa, Kenya
- ASIA
 - January 2020 Malaysia
- MIDDLE EAST
 - Spring 2020
- EUROPE
 - Second half of 2020











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.



WORLD ORGANISATION FOR ANIMAL HEALTH Protecting animals. preserving our juture



Thank you for your attention

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