





Tripartite Support for Tackling Antimicrobial Resistance

on behalf of the Tripartite: Codex TFAMR, 9 November 2019

Tripartite







Implementing of

- Global action plan on AMR (2015)
- UN Declaration on AMR (2016)

Renewed MoU (2018)



United Nations Interagency Coordination Group

 Mandated by SG in 2017 to provide guidance on approaches to sustained global action on AMR

 Expertise from human, animal, and plant health, food, feed, trade, development, and environmental sectors



























ACG Interagency Coordination Group on Antimicrobial Resistance





The IACG submitted its report to the UNSG on April 29, 2019.

ONE HEALTH RESPONSE TO ANTIMICROBIAL RESISTANCE











Antimicrobial resistance is a global crisis. There is no time to wait. A sustained One Health response with a shared vision and goals is essential to tackle antimicrobial resistance and achieve the Sustainable Development Goals.

INTERAGENCY COORDINATION GROUP ON ANTIMICROBIAL RESISTANCE RECOMMENDATIONS

ACCELERATE PROGRESS IN COUNTRIES

INNOVATE TO SECURE THE FUTURE

COLLABORATE FOR MORE EFFECTIVE ACTION

INVEST FOR A SUSTAINABLE RESPONSE

STRENGTHEN
ACCOUNTABILITY &
GLOBAL GOVERNANCE

SUSTAINABLE DEVELOPMENT GOALS

















Member States' Commitment



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, economic, human health and animal health repercussions, as
 demonstrated by the United Nations (UN) General Assembly Resolution A-71/3 adopted in
 2016
- 2. The Second OIE Global Conference on antimicrobial resistance and prudent use of antimicrobial agents, putting standards into practice, organised in October 2018 in Marrakesh. Morocco, that confirmed commitment to supporting global strategies and initiatives developed under the leadership of the Tripartite (FAO, OIE, WHO) and recommended to further strengthen international collaboration and coordination including with the World Bank, the Organisation for Economic Co-operation and Development and other related institutions to build a stronger economic case for sustainable investment.
- The ongoing 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 on AMR.
- The Monitoring and Evaluation framework developed by the Tripartite to measure country
 progress in the implementation of the Global Action Plan using a harmonised approach.
- The AMR Multi-Partner Trust Fund "Combatting the rising global threat 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 workplans on AMP.
- 6. The Ad hoc Inter-agency Coordination Group on Antimicrobial Resistance (IACG) report, provided to the United Nations Secretary General in April 2019 after public consultation, and particularly its recommendations regarding global leadership and coordination on AMR, and calling on Member States to effectively address AMR by developing and implementing multisectoral Don Health National Action Plans.
- 7. The upcoming UN Secretary General report prepared for the UN General Assembly in September 2019 in response to the Resolution A.71/3 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 Prudent Use of Antimicrobials developed following the adoption of Resolution No. 36 at the 84th General Session in May 2016 AMR and the harmonisation of AMR and the harmonisation of AMR and the harmonisation of the AMR and the AMR

9 The May 2019

nce of the Global Action Plan on al Action Plans, in respect of the Resolution No. 26 at the 83rd



SEVENTY-SECOND WORLD HEALTH ASSEMBLY

WHA72.5

Agenda item 11.8

28 May 2019

Antimicrobial resistance

The Seventy-second World Health Assembly,

Having considered the report by the Director-General on follow-up to the high-level meetings of the United Nations General Assembly on health-related issues: antimicrobial resistance;¹

Recalling resolution 71/3 (2016), the political declaration of the high-level meeting of the General Assembly on antimicrobial resistance, and acknowledging the establishment of the Interagency Coordination Group on Antimicrobial Resistance to provide practical guidance and recommendations for necessary approaches to ensure sustained and effective global action to address antimicrobial resistance:

Recognizing the importance of addressing growing antimicrobial resistance to contribute to the achievement of the 2030 Agenda for Sustainable Development;

Reiterating the need to address antimicrobial resistance through a coordinated, multisectoral, One Health approach:

Recalling resolution WHA68.7 (2015) in which the Health Assembly adopted the global action plan on antimicrobial resistance, which lays out five strategic objectives (improve awareness and understanding of antimicrobial resistance; strengthen knowledge through surveillance and research; reduce the incidence of infection; optimize the use of antimicrobial agents; and develop the economic case for sustainable investment), and noting the progress made in establishing the Global Antimicrobial Resistance Surveillance System (GLASS);

Recognizing the pressing need for investing in high-quality research and development, including basic research for antimicrobials, diagnostic technologies, vaccines and alternative preventive measures across sectors, and for ensuring adequate access to those in need of quality, safe, efficacious and affordable existing and new antimicrobials, diagnostic technologies and vaccines, while promoting effective stewardship:

Acknowled

infection prevent

reducing antimic

Acknowled

May 2019

the continuing effectiveness of berculosis, and malaria;

including vaccination, and other anitation and hygiene (WASH), in

Document A72/18.



C 2019/REP C1

Appendix C

Resolution 6/2019 Antimicrobial Resistance

THE CONFERENCE.

Recognizing the importance of addressing the growing global threat of antimicrobial resistance (AMR) in all countries through a coordinated, multi-sectoral, One Health approach in the context of the 2030 A genda for Sustainable Development:

Recognizing that access to effective antimicrobials and their appropriate and prudent use has a role in productive and sustainable agriculture and squaculture – and that their misuse contributes to the rising rates of antimicrobial resistance which negatively impacts the advances made in medicine, public health, veterinary care, food and agriculture production systems, and food safety;

Further recognizing the importance of basing policy and practices on sound scientific evidence, and risk analysis principles:

Reaffirming the FAO resolution 4/2015 on Antimicrobial Resistance, and noting the World Organisation for Animal Health (OIE) resolution No. 36 (2016) on combating antimicrobial resistance and the United Nations Environment Programme (UNEP) resolution UNEP/EA.3/Res.4 (2018) on environment and health:

Recalling the Political Declaration of the High-Level Meeting of the UN General Assembly on Antimicrobial Resistance in 2016, (Resolution ARES/71/3) and the establishment of the ad-hoc Interagency Coordination Group on Antimicrobial Resistance (IACG)

Noting the adoption by the 68° World Health Assembly of the Global Action Plan on Antimicrobial Resistance (through WHA 68.7), into which FAO and OIE provided substantial technical inputs and guidance, and noting the reports of the Executive Board of WHO at its 144° Secsion (2019);

Recognizing the important role of the Tripartite in coordinating and enhancing the global response to the antimicrobial resistance threat and its continuing effort to further integrate environmental aspects through close collaboration with UNEP;

Noting the report of the IACG on AMR to the UN Secretary General, and the need for continued joint action of United Nations Agencies, Member States and other relevant stakeholders, and also the need for further investment to mitigate the AMR threats to human, animal and plant health, food safety and sustainable use of natural resources;

Reaffirming the need for a coherent, comprehensive, integrated and balanced approach at global, regional and national levels via a 'One Health' approach, involving relevant actors in the human, animal, plant health, agriculture and aquaculture sectors, environment and food safety;

Noting the adoption by the 72nd World Health Assembly of a resolution on antimicrobial resistance, the 87th General Ses

THE CONFER

1. Suppor UNEP, antimic food an

artite^a collaboration with s,² to address into account the needs of

https://www.who.int/antimicrobial-resistance/publications/AMR-Tripartite-Workplan-updated-08-April-2019.pdf?ua=1
https://www.who.int/antimicrobial-resistance/publications/AMR-Tripartite-Workplan-updated-08-April-2019.pdf?ua=1
https://www.who.int/antimicrobial-resistance/publications/

87 GS/FR - PARIS, May 2019

Tripartite action at the highest levels

- Meeting of the DSG and Directors General on the implementation of IACG recommendations
- Senior leadership (DDG/ADG/Directors) of the Tripartite meetings on:
 - TOR One Health Global Leaders Group on Antimicrobial Resistance
 - Proposed next steps for the Independent Panel on Evidence for Action against Antimicrobial Resistance



Establishment of the Joint Tripartite Secretariat

United Nations A/73/869



Distr.: General 10 May 2019

Original: English

Seventy-third session Agenda item 129 Global health and foreign policy



Follow-up to the political declaration of the high-level meeting of the General Assembly on antimicrobial resistance

Report of the Secretary-General

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 Activities



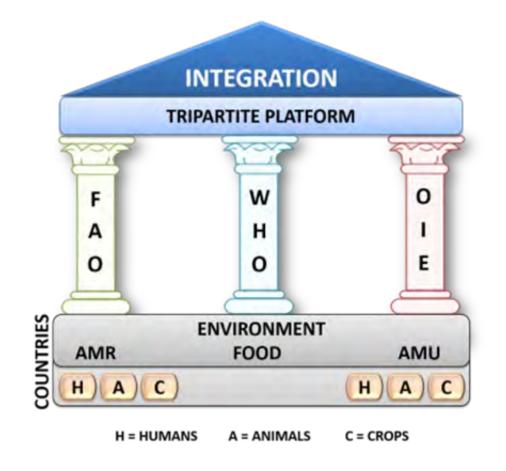






Tripartite Integrated Surveillance System (TISSA)

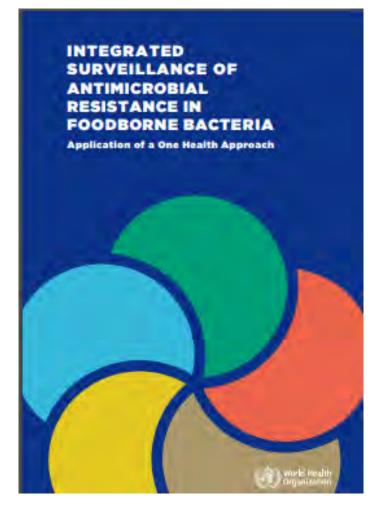
- Platform for publication of data collected from different sectors by global and regional surveillance systems.
- Enable coordinated data-sharing and harmonized analysis.



Tripartite Advisory Group on Intersectoral Support on AMR (T-AGISAR)

Tripartite follow-up to WHO AGISAR

"...provide technical guidance and input to the Tripartite activities at humananimal-plant-environment interface, aimed at the containment of antimicrobial resistance."



Global Action Plan (GAP) M&E Framework

KEY CHARACTERISTICS OF THE GAP M&E FRAMEWORK

ONE HEALTH



- Co-developed by WHO, OIE, FAO
- Includes approaches and indicators across human and animal health, plant and food production, and environment

PRACTICAL



- Cost-effective and built on existing systems as far as possible
- Most countries should be able to report on indicators within five years

COLLABORATIVE



- A collaboration of the tripartite and countries
- Developed in consultation with diverse partners and experts

BASED ON GAP



- Built on a results chain directly related to specific GAP goal and objectives
- · Sensitive to GAP timelines

DYNAMIC



- New indicators will be added as knowledge develops
- Methods will evolve to reflect lessons in best practice

FLEXIBLE



- · Open to 'proxy indicators'
- Initial focus on progress indicators while systems are under development

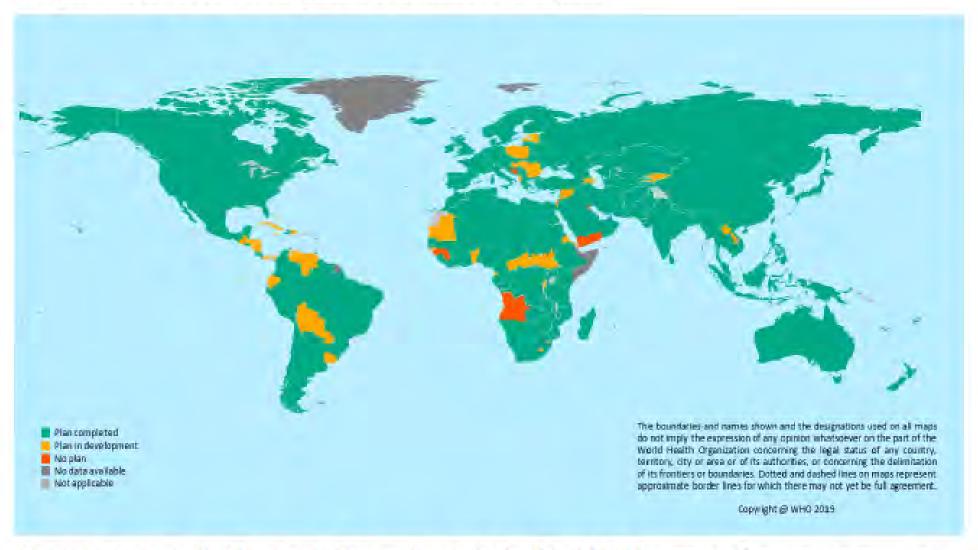
MULTI-LEVEL



- Joint and sector-specific activities
- Includes M&E activities at national, regional and global levels

Tripartite Annual Self-Assessment Survey

Progress made in the development of national action plans



Source: Reporting by WHO regional offices and on the basis of the 2018/19 country self-assessment survey on antimicrobial resistance of the Tripartite Organizations.

Tripartite Coordination

- Tripartite work with regional bodies to promote One Health Approach to AMR (e.g):
 - South African Development community of subregional AMR strategy
 - African Centres for Disease Control and Prevention of the African Union of Framework for AMR for 2018-2023
 - Association of Southeast Asian leaders declaration on AMR











Challenges

- Country-specific economic analyses related to AMR are needed to maximize impact
- Coordinated research on new antimicrobials (and safe and effective alternatives)
- Research in plant and animal sectors less wellresourced
- Resource constraints limit implementation









Antimicrobial Resistance Multi-Partner Trust Fund

Combatting the rising global threat of AMR through a One Health Approach



OUTPUTS

Improved awareness and understanding of antimicrobial resistance through effective communication, education, and training, targeting stakeholder groups across sectors

Strengthened knowledge and evidence base through surveillance and research

Reduced incidence of infection in humans and animals through effective sanitation, hygiene, Strengthening the surveillance of AMR and biosecurity, and infection prevention measures, considering gender and cultural differences

Prudent and responsible use of antimicrobial medicines in human, animal and plant health

The economic case for sustainable investment that takes account of the needs of all countries, including gender and social characteristics

Increased investment in new medicines, diagnostic tools, vaccines and other interventions for human and animal health (alternatives to antibiotics)

OUTCOMES

Reduced levels and slower development of resistance

Continued ability to treat infectious diseases with effective and safe antimicrobials

Reduced impact of AMR on 1 human and animal health,

the environment and economic development for : through a One populations worldwide





AMR risk is successfully tackled Health approach to support the achievement of the SDGs



change

Designing and Implementing NAPs

Raising awareness and catalyzing behaviour

antimicrobial sales and

Strengthening

optimal use of

antimicrobials

stewardship and the

Monitoring & Evaluation

STAKEHOLDER **ENGAGEMENT**



FINANCING



TECHNICAL EXPERTISE



GUIDANCE & STANDARDS

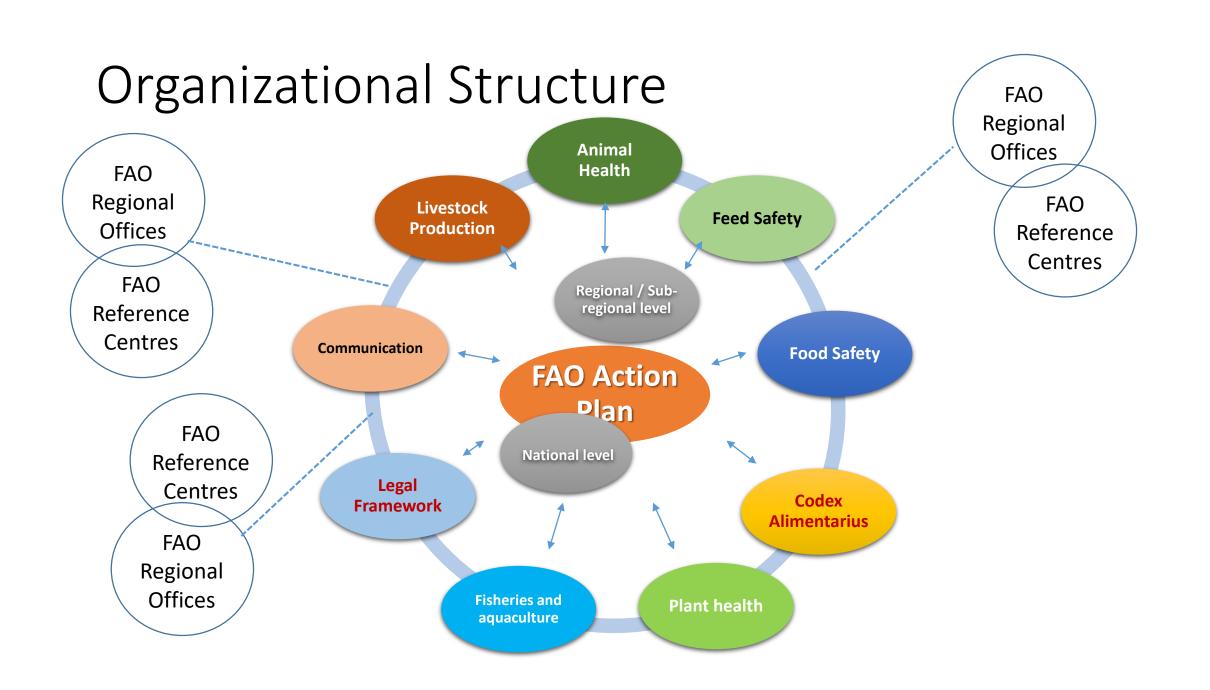


SITUATION & CONTEXT ANALYSIS



FAO Support for the Application of Codex requirements on AMR

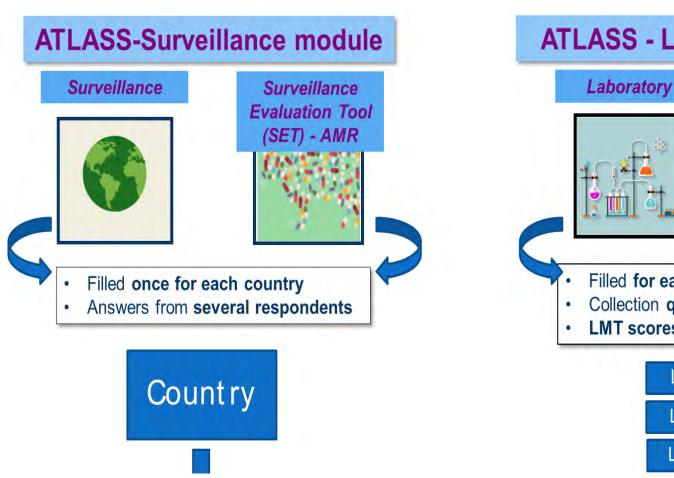


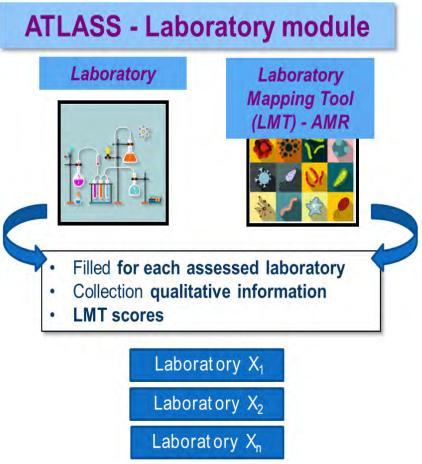


Assessment Tool for Laboratories and AMR Surveillance Systems (ATLASS)

- Map national AMR surveillance system, including laboratory networks and analytical capacities.
- Provide evidence base for action and advocacy for strengthened AMR surveillance systems, including coordination between actors and capacity building efforts for the laboratory network.
- Monitor AMR surveillance capacities under the vet domain (global compilation of ATLASS data) at national/regional and global level
- Improve the linkage with AMR surveillance in public health (GLASS)

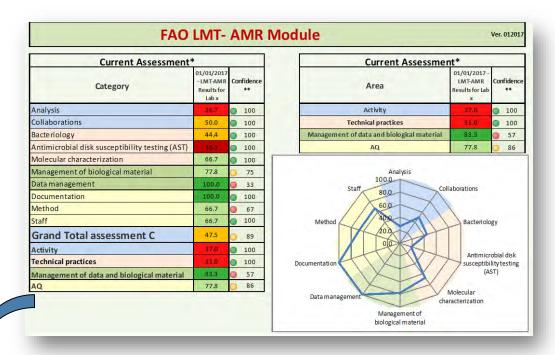
FAO-ATLASS: Structure





LMT-AMR

Individual Lab Assessment



Visualize areas where one lab could strengthen its capacities for AMR testing.

Progress can be measured yearly.

Category		G1	A1	L1*	E1	B1	C1	F1	D1	J1	Regional average
Analysis	100	89	78	78	78	67	67	78	78	56	77
Collaborations	78	78	89	78	44	44	67	22	0	22	52
Bacteriology	100	89	100	100	56	89	78	56	44	22	73
Antimicrobial disk susceptibility testing (AST)	100	100	100	100	100	67	67	67	100	33	83
Molecular characterization	54	54	75	58	48	63	33	21	17	0	42
Management of biological material	78	67	53	61	60	58	28	33	22	17	48
Data management	92	67	50	67	48	42	42	33	17	19	48
Documentation	79	88	95	63	56	79	79	50	33	24	65
Method	67	89	60	72	87	44	61	25	39	17	56
taff	59	59	63	59	60	59	26	7	22	0	42
Grand Total assessment C	73	72	70	68	63	61	48	34	34	23	55

Visualize areas where countries could strengthen their laboratory capacities for AMR testing.

Progress can be measured yearly.

Progress

- 28 countries
- ~ 100 Laboratories
 - public, private and
 - university/research
- Available in English, French,
 Spanish and Russian



(Map last update – 15 November 2019)



CAC/RCP 54-2004 Page 1 of 12

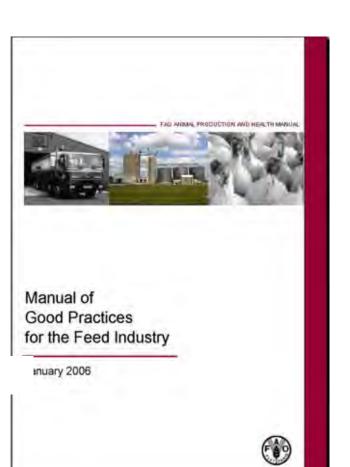
CODE OF PRACTICE ON GOOD ANIMAL FEEDING

CAC/RCP 54-200-

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Annual Control		

FAO/IFIF
Manual of
Good Practices for
the Feed Industry







Feed Safety Multi-stakeholder Partnership

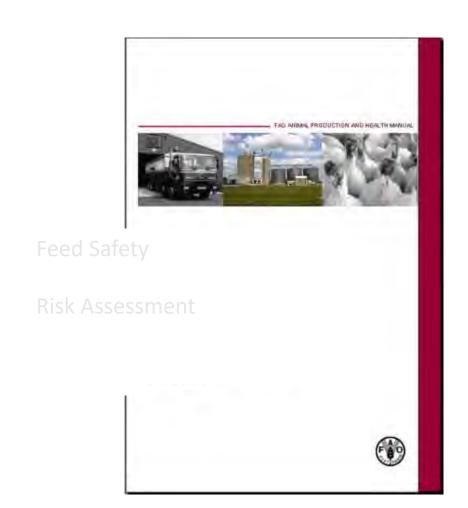








FAO Manual of Feed Safety Risk Assessment



FAO homepage It FAO I In Action I Countries I Themes I Media I Publications I Statistics I Partnerships

中文 English Français Русский Español

Global Feed Safety Platform



Feed regulators and industry from around the world discuss critical issues with IFIF and FAO at 11th International Feed Regulators Meeting (IFRM)

What is the Feed Safety Platform?

The Global Feed Safety Platform is a knowledge exchange mechanism to produce, collect and make available a wide range of information and knowledge on feed safety from numerous sources across the world. It brings together all relevant stakeholders along the feed and food chain from the public and private sector, the civil society, academia and research centres. All users of the website can contribute to its content by submitting links to publications, legislation, news and much more. Through the databases you can find and contact expert and professionals, as well as organizations and institutions working on feed safety. The platform is a product of the FAO coordinated Feed Safety Multi-Stakeholder Partnership; we would like to acknowledge the contributions of all partners and users.

[more]

Videos



FAO and Antimicrobial Resistance



Antimicrobial Resistance. The role of food and agriculture



Voices from the Feed Sector on containing Antimicrobial Resistance

0

Resources



Policies and strategies Regional consultation



Publication OECD-FAO Agricultural

Events

13/09/2018 - 13/09/2018 Germany 100 years German Feed Association - annual meeting

08/11/2018 - 09/11/2018 FAO-IFIF Annual Meeting

In the news

13/07/2018 Feed safety first: IFIF to train the trainer in Ghana

13/06/2018 Veterinary drug residues: noncompliance remains low

Announcements

Calls on carry-over from feed to food of unavoidable and unintended residues of approved veterinary drugs





13th International Feed Regulators Meeting (IFRM)

27/01/2020 - 28/01/2020

United States of America, Atlanta



LEGISLATION IS PART OF GOVERNANCE

- Global regulatory framework, including
 - High level declarations specific to AMR
 - Other global forums, Conventions or soft | w releast for A R (POPs CBD, SPS reference standards (OIE, Codex))

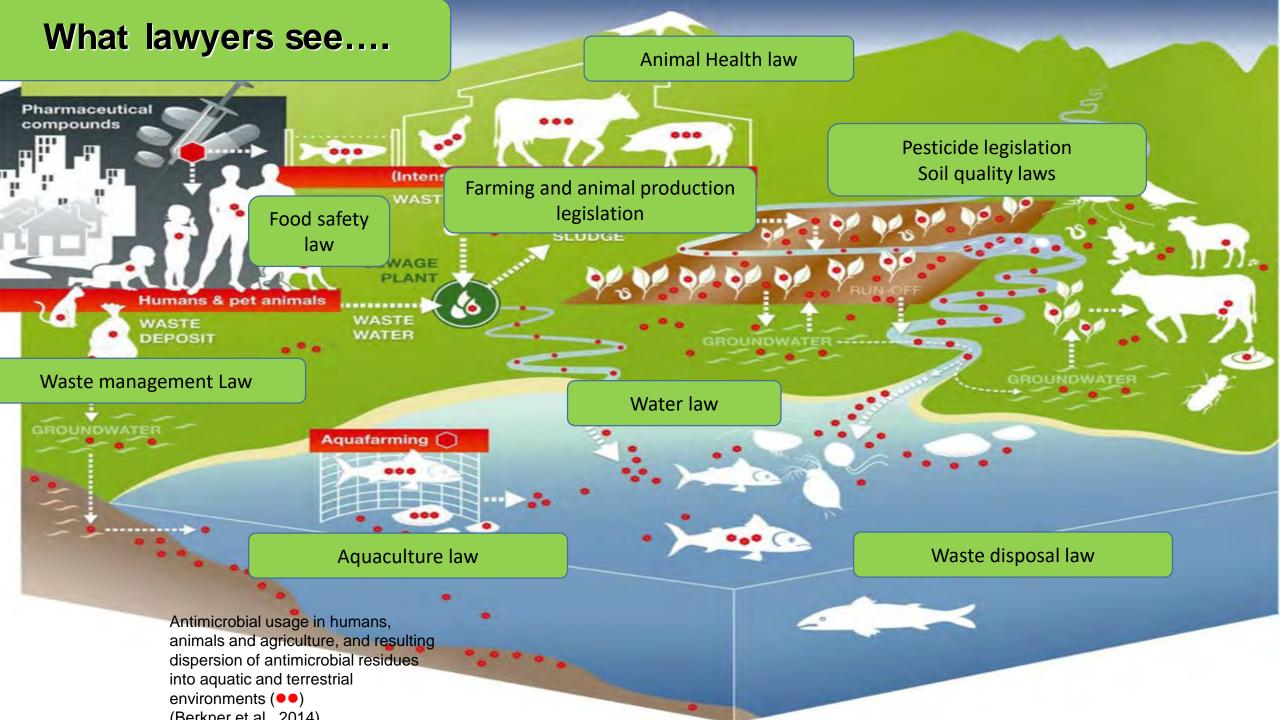
 Regional
- National and regional regulatory frameworks
 - Policies
 - Legislation

Global Governance

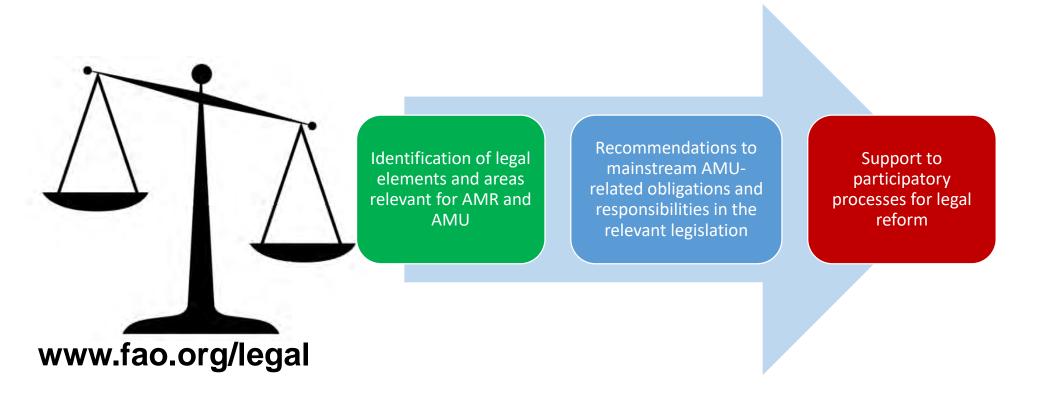
National

ROLE OF LEGISLATION...

Turns policy objectives into clear obligations and makes them sustainable Clarifies roles and responsibilities of governments and stakeholders Sets up mechanisms for coordination Introduces regulatory mechanisms (licenses, permits) Regulates inspections, introduces offences and sanctions



AMR working at country level on animal, plant health, food safety and environmental legislation



LEGAL INFORMATION – FAOLEX (fao.org/ faolex)

IDENTIFICATION OF LEGISLATION/REGULATORY AREAS FOR AMR AND AMU?

- ✓ Any legislation that may have a direct or indirect impact on AMR, including prevention, control and good practices/alternatives to AM use
- ✓ Not necessarily need specific AMR law, decree or regulation
- ✓ Not necessarily specific references to AMR in legislation focus on rules/elements guided by international standards

LEGAL AREAS AND ELEMENTS RELEVANT FOR AND AND AGRICULTURE)

1- How are AMs regulated?

- Veterinary Medicinal Products
- Medicated feed
- Pesticides
- Other AMs (additives?)

2- How to prevent contamination of food and the environment with AMs?

- Food safety
- Environment, soil and waste
- Water quality

3- Minimizing the need for AMs (improved animal and environmental health)

- Animal health and welfare
- Plant health
- Institutional coordination



Dr Elisabeth Erlacher-Vindel

Head, Antimicrobial Resistance and Veterinary Products Department

OIE activities supporting countries to achieve their antimicrobial resistance National Action Plan goals

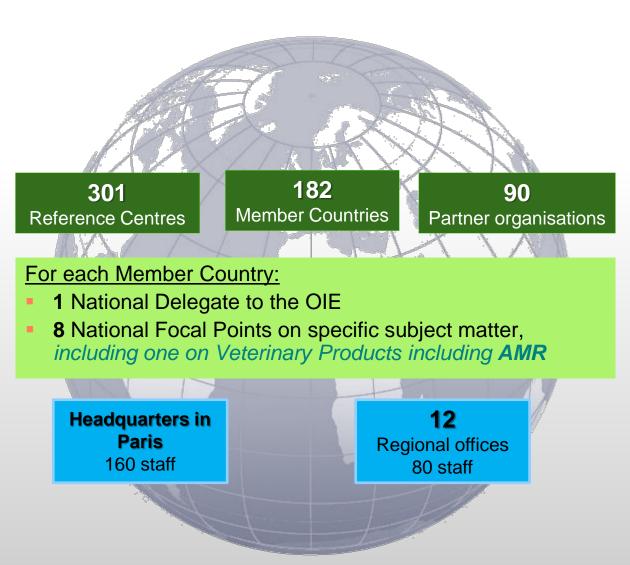
7th SESSION OF THE AD HOC CODEX INTERGOVERNMENTAL TASK FORCE ON ANTIMICROBIAL RESISTANCE

Pyeongchang, Republic of Korea, 9-13 December 2019



OIE World Organisation for Animal Health

- An Intergovernmental Organisation
- Formed in 1924 as the Office International des Epizooties (OIE)
- Mandate to Improve Animal Health, Welfare and Veterinary Public Health
- Sets international standards recognized by the WTO



The OIE Strategy on AMR and the Prudent Use of Antimicrobials

The OIE Strategy supports the objectives established in the Global Action Plan on antimicrobial resistance and reflects the mandate of the OIE, through four main objectives:



1) Improve awareness and understanding



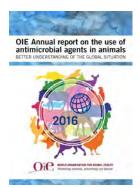


2 Strengthen knowledge through surveillance & research

 Harmonised monitoring and surveillance systems (Chapter 6.9 of Terrestrial Code & Chapter 6.3 of Aquatic Code)

 collecting data on the use of antimicrobial agents in food-producing and companion animals





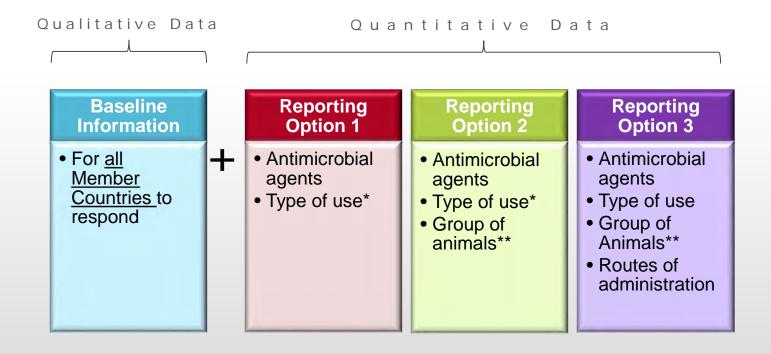






Reporting Options

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

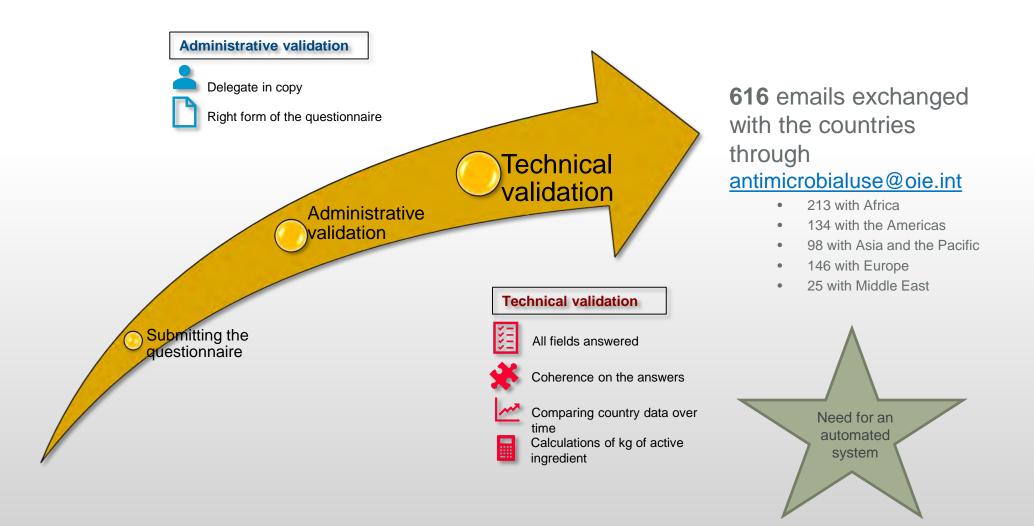


^{*} Type of use: veterinary medical use or growth promotion



^{**}For the purposes of the OIE database, animal groups means: 'terrestrial food-producing animals', 'aquatic food-producing animals' or 'Companion animals'

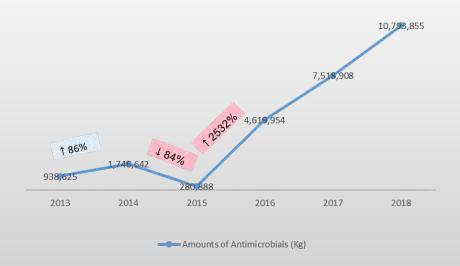
Interaction with the Countries (4th Round)





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

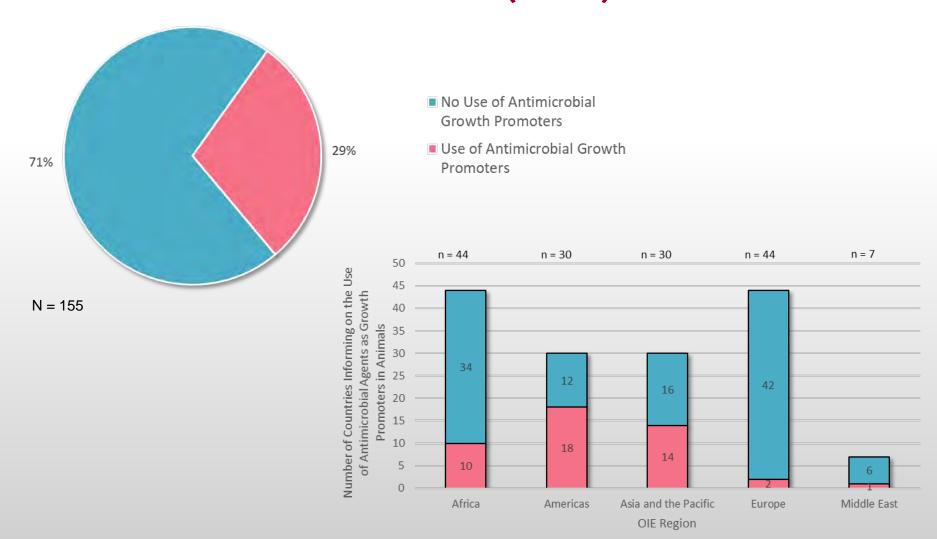




Proportion of Antimicrobial Quantities Reported for Use in Animals by 113 Member **Countries by OIE Region** Antimicrobial classes ■ Africa Americas Asia, Far East and Oceania ■ Europe

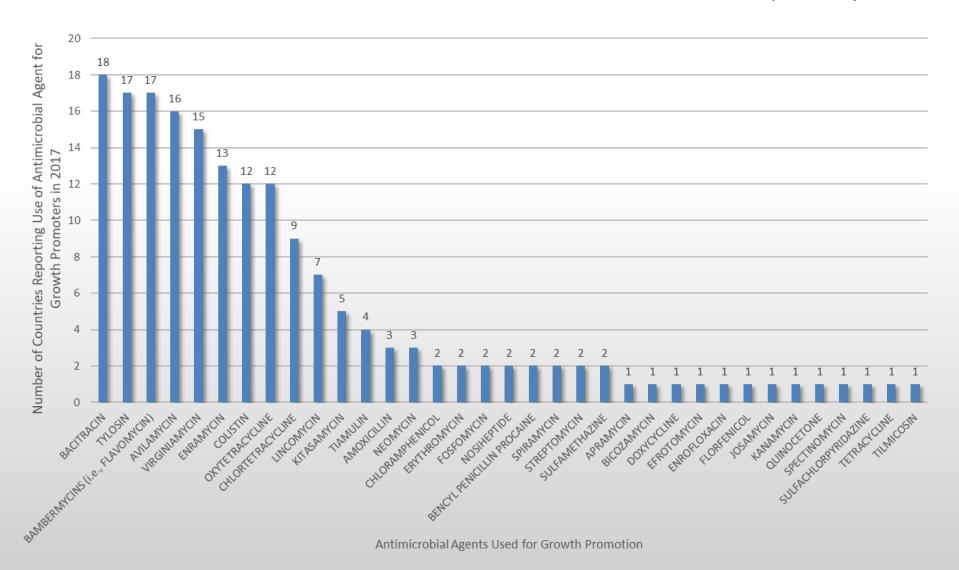


Use of Antimicrobial Agents as Growth Promoters, Third Round (2017)





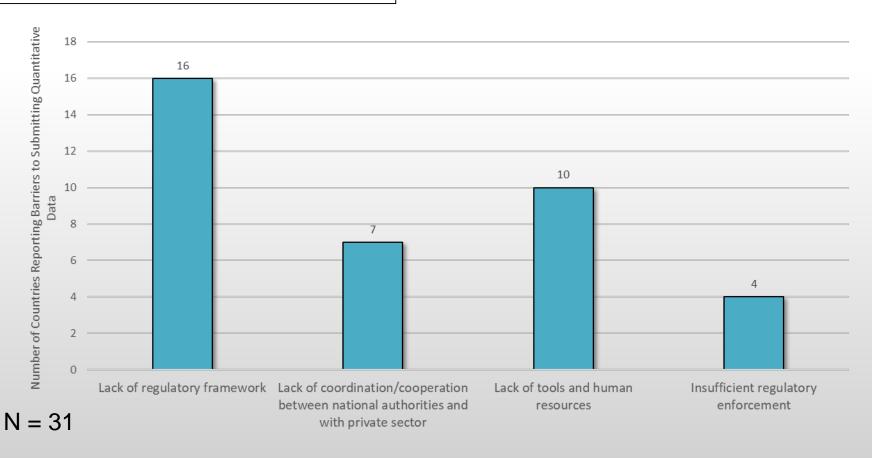
Antimicrobial Agents Used for Growth Promotion in Animals in 31 Countries, Third Round (2017)





Barriers to Providing Data on Quantities of Antimicrobial Agents in Animals, Third Round (2017)

From the 38 countries that reported barriers during the 2nd Round, 11 countries (29%) passed to report quantitative data for the first time in the 3rd Round.





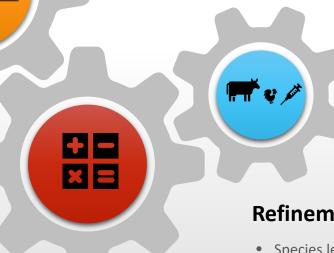
Future Development (AMU Database System)



- Specific trend analysis
- Raised awareness
- Increased transparency



- Automatic calculations
- Data quality check
- Detailed data analysis





Refinement of Information

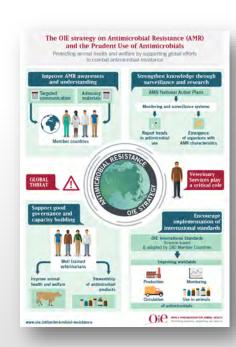
- Species level data
- Farm level data
- Connection with other data sources:
 - ✓ OIE-WAHIS (World Animal Health Information System)
 - ✓ TISSA (Tripartite Integrated System for Surveillance on AMR and Antimicrobial Use)
 - ✓ PVS (Performance of Veterinary Services)



3

Support good governance and capacity building

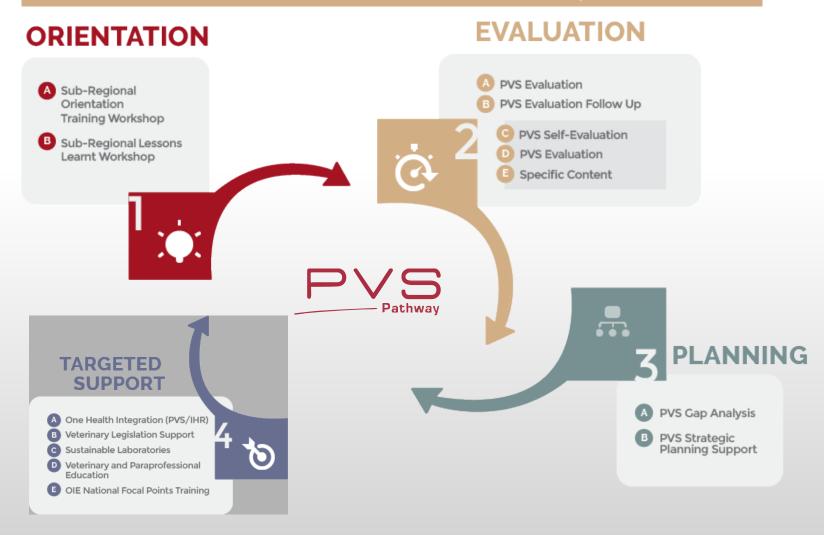
- assist in implementing National Action
 Plans, promoting a "One Health" approach
- provide tools and guidance
- ensure Veterinary Services capacity
 through PVS Pathway
- develop and modernise legislation
- provide training of Focal Points
- Ensure that well-trained veterinarians and veterinary para-professionals are at the forefront





OIE PVS Pathway: 140 missions done

Sustainable consolidation of national animal health systems













AMR is now explicitely assessed in PVS **Evaluations** via a new 'Critical Competency' dedicated to AMR in the *PVS Tool* (2019 Ed.)

Veterinary Legislation Support Programme

developing a specific focus on AMR in **COLLABORATION** with FAO

Pilot OIE FAO **VLSP AMR mission**

Pilot OIE VLSP AMR Questionnaire animals, Preserving our future | 57



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

• February 2020

EUROPE

Second half of 2020











4) Encourage implementation of OIE standards

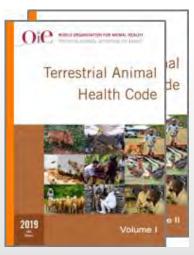
- support Member Countries in their efforts to implement OIE standards
- encourage adoption of recommendations in the OIE List of Antimicrobials of Veterinary Importance
- continue our framework of quality, sciencebased standards
- collaborate with WHO, FAO and CODEX to develop an aligned framework of standards and guidelines





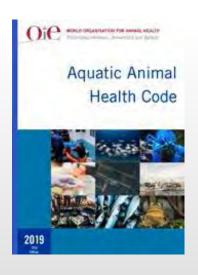
OIE Standards and guideline related to antimicrobial resistance

Terrestrial Animal Health Code



- Ch.6.7. Introduction to the recommendations for controlling antimicrobial resistance
- Ch.6.8. Harmonisation of national AMR surveillance and monitoring programmes (updated in May 2018)
- Ch.6.9. Monitoring of the quantities and usage patterns of antimicrobial agents used in food-producing animals (Agreement on definitions)
- 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

Aquatic Animal Health Code



- 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



Terrestrial Code Chapter 6.9.: Definitions adopted in May 2018

- 'Veterinary medical use of antimicrobial agents': means the administration of an antimicrobial agent to an individual or a group of animals to treat, control or prevent infectious disease:
- 'to treat': means to administer an <u>antimicrobial agent</u> to an individual or a group of <u>animals</u> showing clinical signs of an infectious disease;
- 'to control': means to administer an <u>antimicrobial agent</u> to a group of <u>animals</u> containing sick <u>animals</u> and healthy <u>animals</u> (presumed to be infected), to minimise or resolve clinical signs and to prevent further spread of the disease;
- 'to prevent': means to administer an <u>antimicrobial agent</u> to an individual or a group of <u>animals</u> at risk of acquiring a specific <u>infection</u> or in a specific situation where infectious disease is likely to occur if the drug is not administered.



OIE List of Antimicrobial Agents of Veterinary Importance: additional recommendations adopted in May 2018

- Any use of antimicrobial agents in animals should be in accordance with OIE standards on responsible and prudent use. This does not include the use of antimicrobial agents for growth promotion in the absence of risk analysis.





https://www.oie.int/fileadmin/Home/eng/Our scientific expertise/docs/pdf/AMR/A OIE List antimicrobials July2019.pdf



OIE List of Antimicrobial Agents of Veterinary Importance (May 2018)

Among the Veterinary Critically Important Antimicrobial Agents, some are also of critical importance for human health (third and fourth generation *Cephalosporins*, and *Fluoroquinolones*): *Colistin* has been moved in 2016 to the WHO category of Highest Priority Critically Important Antimicrobials.

Therefore these two classes and Colistin should

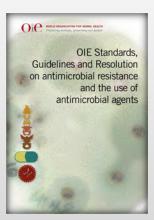
- Not to be used as preventive treatment in feed or water or in absence of clinical signs
- Not to be used as first line, unless justified and bacteriolgical test
- Extra label/off label limited and reserved for instances no alternatives are available



Terrestrial Code Chapter 6.10.

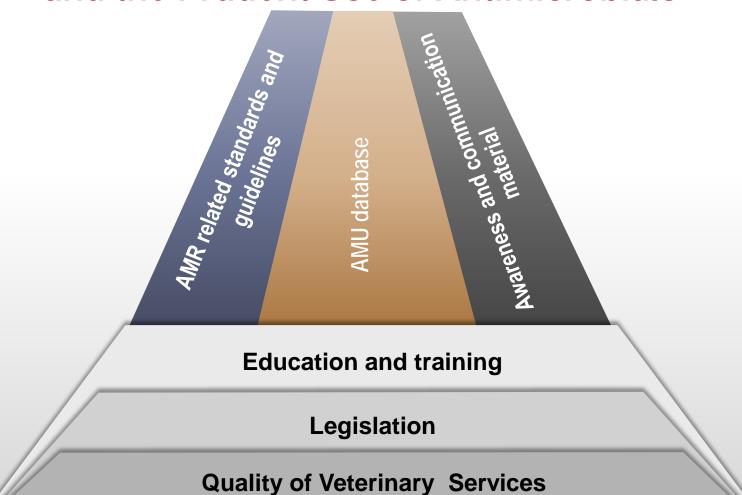
Responsible and prudent use of antimicrobial agents in veterinary medicine

- Determined by the quality of the antimicrobial and by the distribution, prescription and administration of veterinary medicinal products containing antimicrobial agents
- Recommendations for each of the parties involved:
 - > competent authority
 - > veterinary pharmaceutical industry
 - > wholesale and retail distributors
 - > veterinarians
 - > food-animal producers
 - > animal feed manufacturers



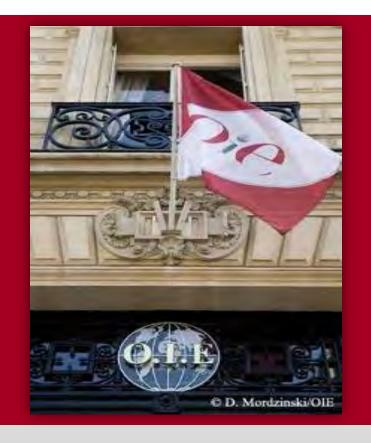


OIE Strategy on Antimicrobial Resistance and the Prudent Use of Antimicrobials





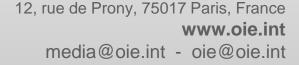
Thank you for your attention







WORLD ORGANISATION FOR ANIMAL HEALTH Protecting animals, preserving our future













WHO Initiatives on Integrated Surveillance of AMR

Jorge Matheu

One Health surveillance and laboratory strengthening Surveillance, Prevention and Control of AMR

AMR Division

World Health Organization



Advisory Group on Integrated Surveillance of Antimicrobial Resistance - AGISAR

Established in 2008 to support WHO's efforts to minimize the public health impact of antimicrobial resistance associated with the use of antimicrobials in food animals.

- 36 Members OIE and FAO
- Subcommittees
 - Usage Monitoring
 - Antimicrobial Resistance
 Surveillance
 - Capacity Building
 - Software Development



AGISAR Objectives 2015: Support WHO on...

- Containment of AMR from the food chain
- Capacity building for integrated surveillance of AMR
- Monitoring of antimicrobial use
- WHO List of critically important antimicrobials (CIA list) for human medicine
- FAO/OIE/WHO tripartite activities and Codex Alimentarius activities on AMR





AGISAR Activities: Overview

- Five-year Strategic Framework: 5 Thematic Working Groups
 - 1. Knowledge management and communication
 - 2. Critically Important Antimicrobials (CIA) list
 - 3. Optimal use of antimicrobial agents in food production (Tripartite Collaboration)
 - 4. Laboratory methods in antimicrobial susceptibility testing
 - 5. Data integration and analysis
- Capacity building in countries
 - Protocols and Guidance
 - Training workshops
 - Pilot Projects



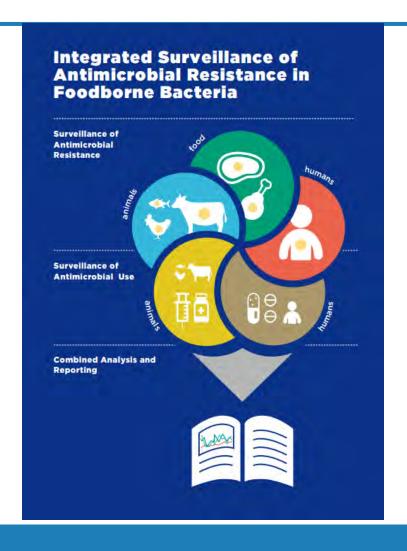
IACG recommendations to accelerate progress in countries

Recommendation A3: The IACG calls on all Member States to phase out the use of antimicrobials for growth promotion, consistent with guidance from the Tripartite agencies (FAO, OIE and WHO) and Codex Alimentarius, starting with an immediate end to the use of antibiotics categorized as the Highest Priority Critically Important Antimicrobial Agents on the WHO List of Critically Important Antimicrobials for Human Medicine.

- a. Quinolones;
- b. Third- and highergeneration cephalosporins;
- c. Macrolides and ketolides;
- d. Glycopeptides; and
- e. Polymyxins.



Integrated Surveillance of AMR in Foodborne Bacteria-From Data to Information for Action



- WHO-AGISAR
- FAO and OIE collaboration
- Application of a One Health Approach
 - AMR surveillance in humans, animals, food
 - AMU surveillance in humans and animals
 - Combined analysis and reporting

http://apps.who.int/iris/bitstream/10665/255747/1/9789241512411-eng.pdf?ua=1



Capacity building activities

- Aims to build national capacity to implement the integrated surveillance of AMR through:
 - Development of protocol, lab modules, guidance document
 - Training courses (1-week long)
 - Pilot projects (1 or 2 years long)





Expected outcomes of AGISAR projects

Collaboration and communication between human, food and animal sectors

- Collaborati societies
- Policies bas
- An underst
- Collaborati

National programme on integrated surveillance of

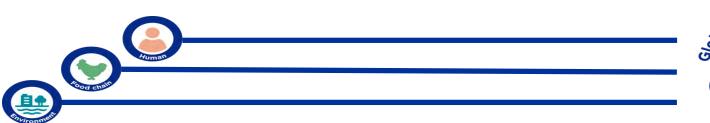
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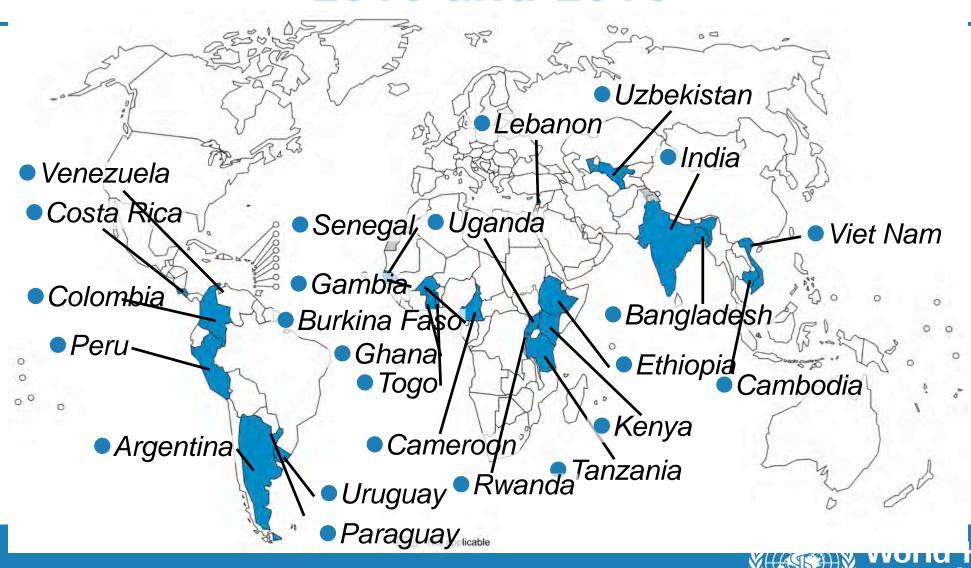
World Organization of Aminal







26 projects supported between 2010 and 2016



AGISAR country projects – 2017 onwards



From the AGISAR6 report

Important issues raised during discussions included:

Including all relevant sectors in integrated surveillance is required to understand the full
picture. The role of water, sewage, and soil in maintaining resistant bacteria as a source for
animals and people, as well as allowing for contact between different populations of
resistant bacteria and possible transfer of genes, was repeatedly noted. Microorganisms
from these sources need to be monitored, and contamination controlled. Similarly,
antibiotic usage in crops and resistance in plant-derived foods would have to be included in
any comprehensive, integrated surveillance plan.



ESBL E.coli

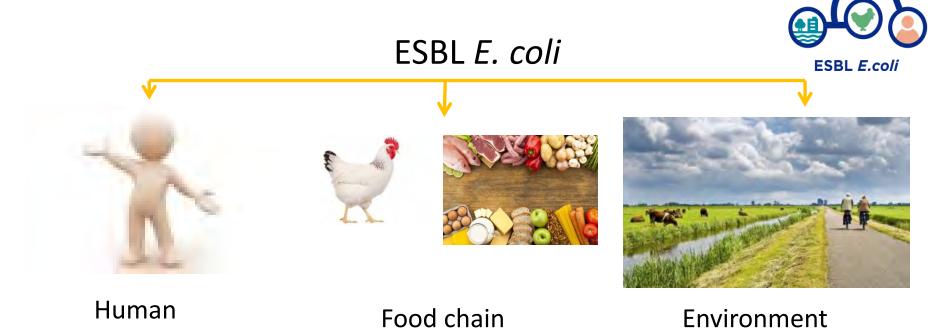






ESBL Ec Tricycle project: protocol development

Simple surveillance across the three main sectors
Simple microorganism and resistance mechanism as indicator





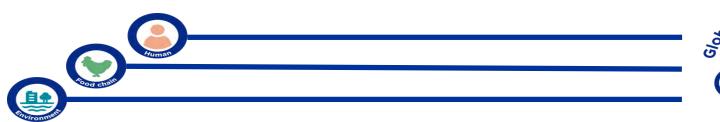




Objectives

- To establish an Integrated Surveillance System to monitor ESBL producing E. coli in three main areas, human, food chain and the environment across Member States
- To establish a simple and standardized methodology to isolate and monitor ESBL producing E. coli
- To compare the prevalence of ESBL Ec in each of the 3 sectors among Member States and
- To monitor effect of interventions







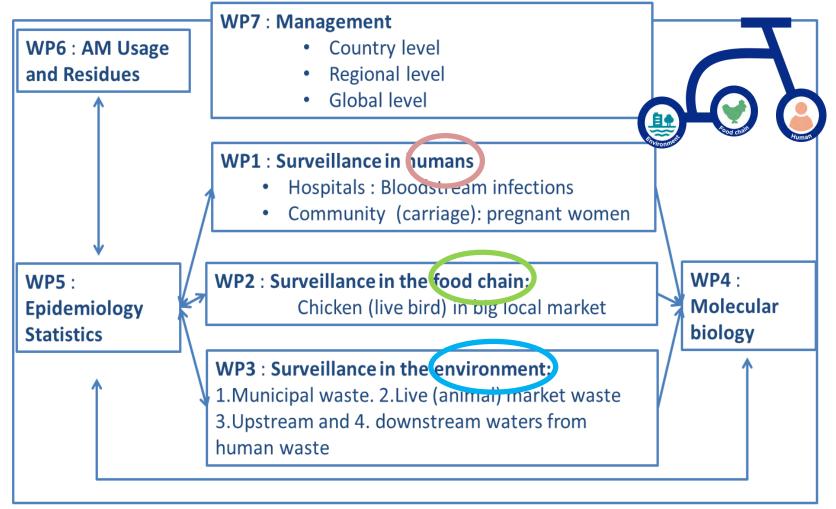


Figure 1. ESBL Ec Tricycle project.
WP Working Package





Pilot phase

- WHO AMR Regional focal point from AFRO, EMRO, SEARO and WPRO
- Established a List of Minimal, technical and supportive requirements
- Countries enrolled and implementing the pilot phase

Region	Final Selection
AFRO	Ghana, Senegal, Madagascar
EMRO	Pakistan, Jordan
SEARO	Indonesia, Nepal
WPRO	Malaysia







Countries joining

• There are additional countries planning the implementation

Region	Final Selection
AFRO	Zimbabwe, Zambia, Kenya
AMRO/PAHO	Costa Rica, Paraguay
SEARO	Bangladesh, India, Sri Lanka, Thailand
EMRO	Jordan, Moroccco, Sudan
WPRO	Lao PDR







AMR surveillance and data use

- Advocacy - Inform R&D Global Level - Inform global EML scope - Monitor global trends - Assess effectiveness of & inform actions detail & - Identify risk population **National Level** - Inform national medicines list - Inform national treatment guidelines - Assess effectiveness of & inform actions Level of data - Empiric patient treatment Local Level - Infection prevention and control strategies - Early detection & control of emerging AMR



ESBL Ec Tricycle protocol

- Final version November 2019
- Current status: Peer review process

Launch in the 1st quarter 2020



External Quality Assurance Program: WHO GFN/AGISAR EQA

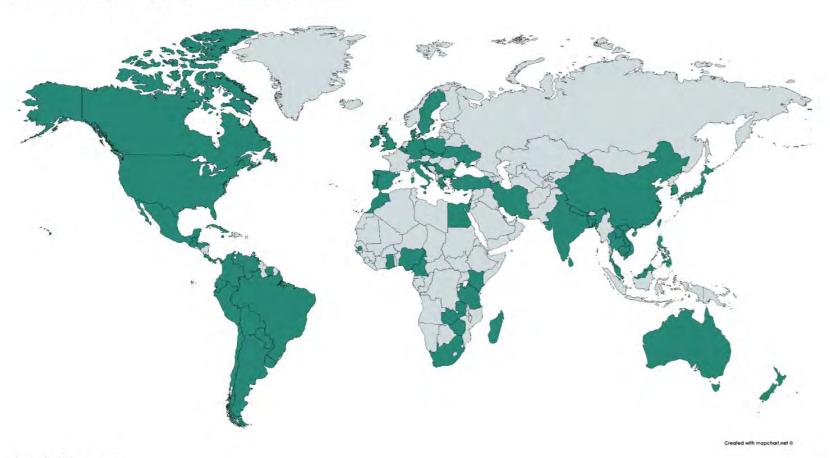
- Global Foodborne Diseases
 Network –GFN- and AGISAR
- Salmonella sp Id, serotyping and AST
- Active since 2000
- 2017: 181 Laboratories, 81 countries
- Public Health, Animal Health and Food
- There is not participation fee





GFN-AGISAR EQA 2017

Figure 1. Countries participating* in the WHO EQAS 2017



THANK YOU

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Thank you!





