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**OIE AMR strategy and activities  
related to animal health**



Regional Workshop for National Focal Points for Veterinary  
Products (5<sup>th</sup> Cycle)

Ezulwini, Swaziland 6-8 December 2017

# Agenda

- OIE and its 6th Strategic Plan 2016-2020
- OIE Strategy on AMR and the Prudent Use of Antimicrobials
- OIE International Standards and Guidelines
- Monitoring the use of antimicrobials in animals
- Ongoing activities and next steps
- Conclusion

# OIE and its 6th Strategic Plan 2016-2020

# Who we are today...

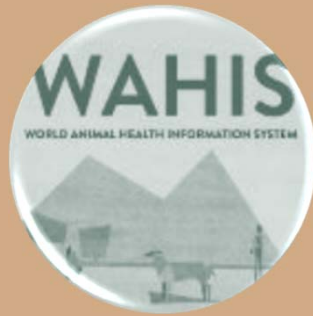
*Improving animal health and welfare worldwide*



## STANDARDS

for international trade of animals and animal products

*under the mandate given by the WTO*



## TRANSPARENCY

of the world animal disease situation

*including zoonoses*



## EXPERTISE

Collection and dissemination of veterinary scientific information

*animal disease prevention and control methods*



## SOLIDARITY

between countries to strengthen capacities worldwide

*Capacity building tools and programmes*

# Today and tomorrow

We work to protect the health and welfare of animals globally, leading to economic prosperity as well as social and environmental well-being of populations



## 6TH STRATEGIC PLAN 2016-2020



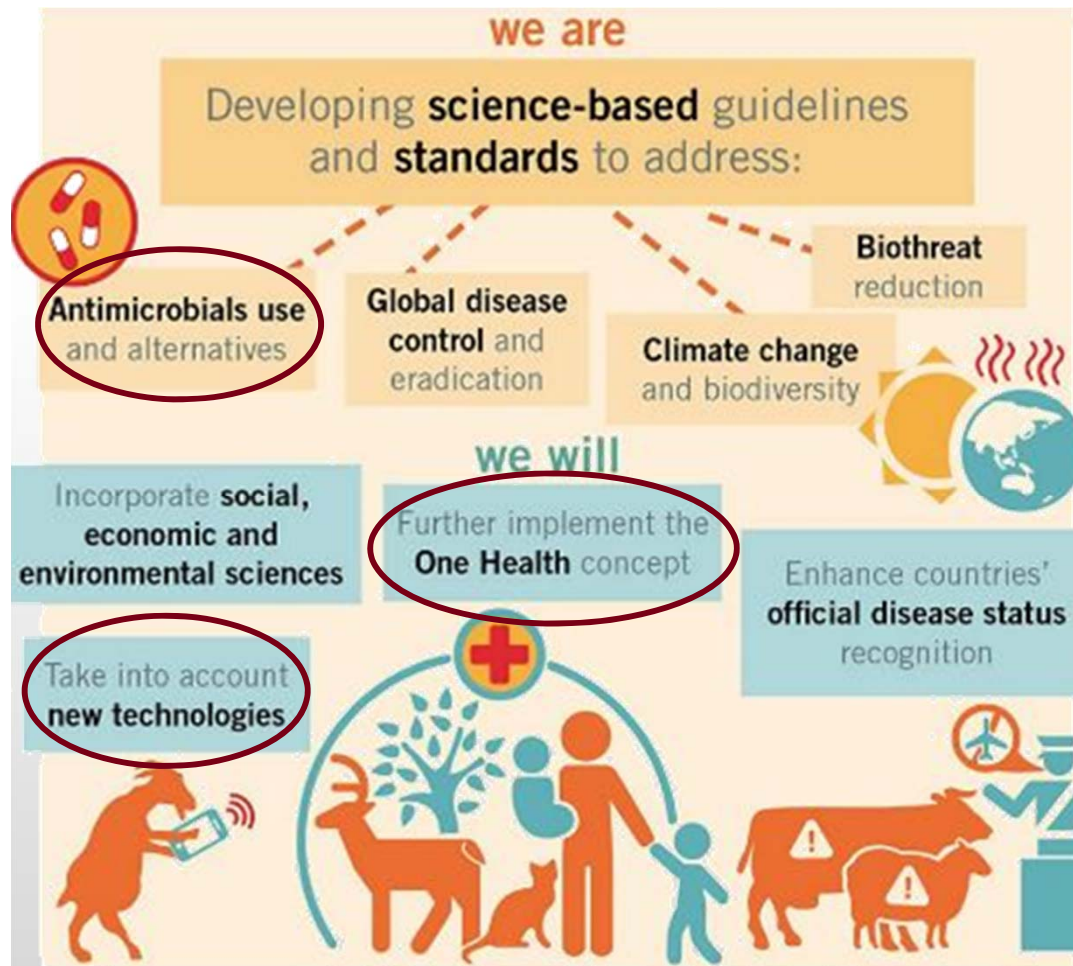
\* The OIE World Animal Health Information System

\*OIE Programme to improve the performance of Veterinary Services



# OIE 6<sup>th</sup> Strategic Plan(2016-2020) - Strategic Objective 1

Securing animal health & welfare by appropriate risk management

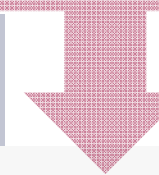


- Holistic & interdisciplinary approach
- Climate change / eco-systems / impacts on disease control
- New technologies including for diagnostics and vaccines
- Support to the eradication of selected animal diseases (FMD, PPR, Rabies)
- Involvement in scientific platforms

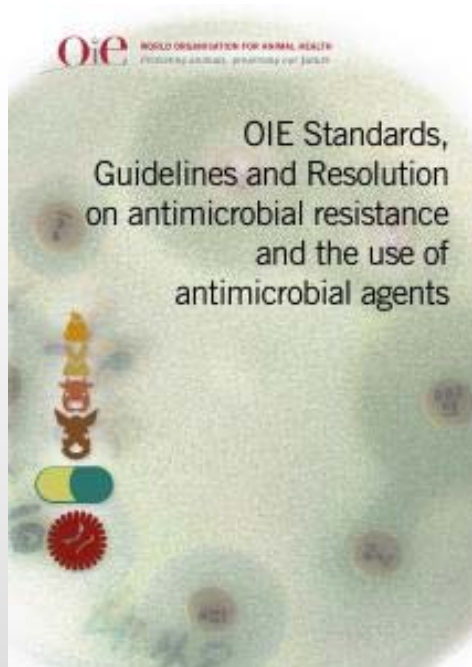
**'effective  
& judicious management of  
the use of antimicrobial  
substances'**

# In line with the AMR Global Action Plan (GAP)

Resolution adopted at the  
OIE's 83rd General Session  
(May 2015)



<p><b>OIE Intergovernmental standards</b></p>	<p>Terrestrial &amp; aquatic animals Regularly updated</p>
<p><b>Global OIE database on the use of antimicrobials in farmed animals</b></p>	<p>Information collected through the national Veterinary Services (Third round started)</p>
<p><b>OIE List of antimicrobial agents of veterinary importance</b></p>	<p>To be updated in 2018</p>
<p><b>Capacity building programmes</b></p>	<p>Regional Seminars for OIE national focal points for veterinary products</p>



[http://www.oie.int/fileadmin/Home/eng/Media\\_Center/docs/pdf/PortailAMR/EN-book-AMR.PDF](http://www.oie.int/fileadmin/Home/eng/Media_Center/docs/pdf/PortailAMR/EN-book-AMR.PDF)

# OIE Resolutions 26 (2015) & 36 (2016)

## Resolution 26 “Combating AMR and Promoting the Prudent Use of Antimicrobial Agents in Animals”

- OIE Member Countries follow the guidance of the WHO Global Action Plan (GAP) on AMR, developed with the support of the OIE in the spirit of the “One Health” approach, in particular by **developing national action plans...**
- The OIE develops a procedure and standards for data quality for **collecting data annually** from OIE Member Countries on the use of antimicrobial agents in food-producing animals with the aim of creating an OIE global database...

## Resolution 36 “Combating AMR through a One Health Approach: Actions and OIE Strategy”

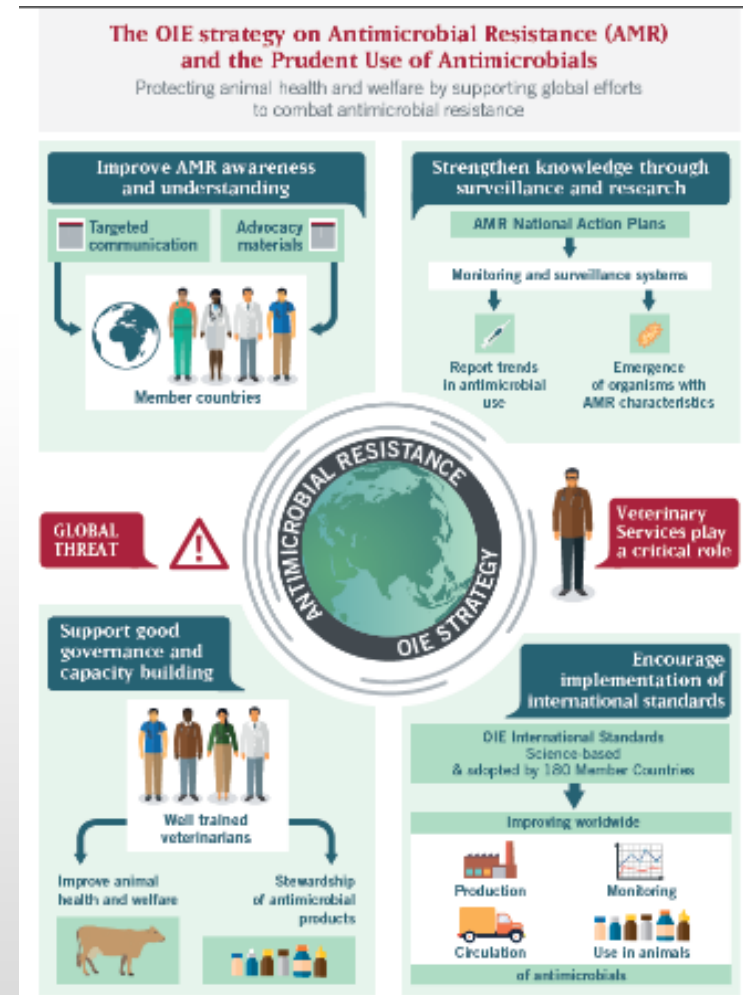
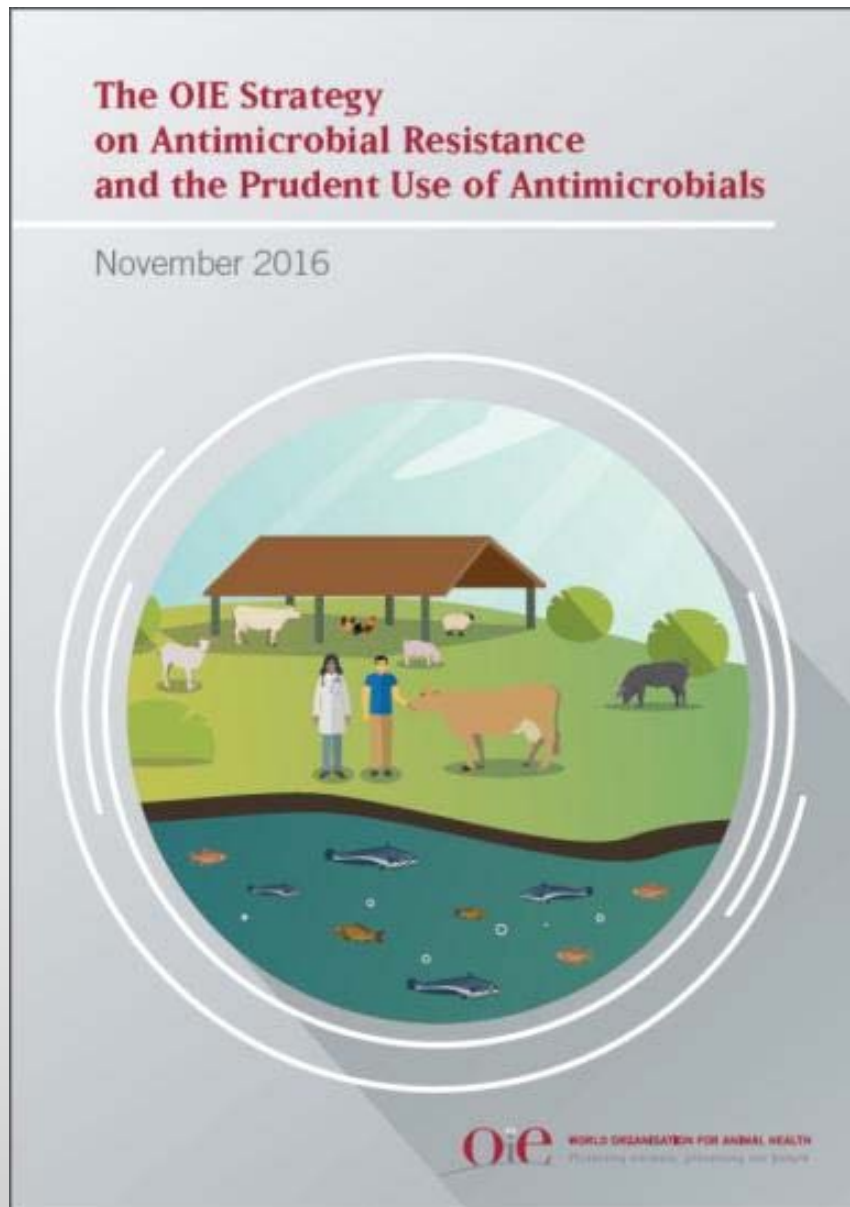
- The OIE actions to be compiled within the OIE Strategy on AMR include:
  - The establishment and the management of a database for the collection of **data on the use of antimicrobial agents in animals** as well as **the development of interpretation indicators**





# OIE Strategy on AMR and the Prudent Use of Antimicrobials

# OIE Strategy on AMR and Prudent Use of Antimicrobials

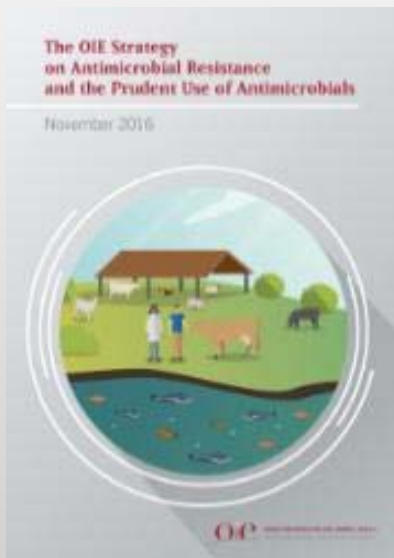


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# The OIE Strategy on Antimicrobial Resistance and the Prudent Use of Antimicrobials

## Context

- 2015 Global Action Plan on AMR and the Tripartite Partnership
- OIE World Assembly Resolutions on AMR in 2015 and 2016
- **OIE Strategy** launched in November 2016
- Outlines a consolidated work program under the following **four key objectives** aligned with the Global Action Plan:



1 Improve awareness and understanding

2 Strengthen knowledge through surveillance and research

3 Support good governance and capacity building

4 Encourage implementation of international standards

# 1 Improve awareness and understanding

- Support Member Countries through the development of **targeted communications and advocacy materials**
- Promote awareness of AMR through Veterinary Statutory Bodies and Veterinary Education Establishments **to encourage a professional culture** that supports the responsible and ethical use of antimicrobials in animals
- Continue to support professional development goals by **conducting workshops, conferences and symposia** that promote the prudent use of antimicrobials and address the issue of AMR
- **Expand the portfolio of OIE guidance, education and scientific reference materials**
- **Collaborate with WHO and FAO** to ensure alignment and coordination of policy and advocacy initiatives

## 2 Strengthen knowledge through surveillance & research

- Support Member Countries in **developing and implementing monitoring and surveillance systems**
- Build and maintain a **database for collecting data on the use of antimicrobial agents in food-producing and companion animals**, with associated analysis and annual reporting
- **Enhance the development, use and functionality of WAHIS** to allow analysis of data on antimicrobial use
- **Guide and support research into alternatives to antibiotics** to encourage the development and uptake of new tools, products and methodologies
- Identify and pursue **opportunities for public-private partnerships in AMR research and risk management**

### 3 Support good governance and capacity building

- Provide assistance to Member Countries in developing and implementing **National Action Plans**, promoting a “One Health” approach
- **Provide tools and guidance** to assist Member Countries in their AMR risk assessment initiatives
- **Ensure Veterinary Services have the capacity** to implement OIE international standards, through engagement in the PVS Pathway
- Support Member Countries to **develop and modernise legislation** governing the manufacture, marketing authorisation, importation and distribution and use of veterinary products
- Provide regular training of **Focal Points on Veterinary Products**
- Ensure that **well-trained veterinarians and veterinary para-professionals** are at the forefront of national and regional efforts

## 4 Encourage implementation of OIE standards

- Support Member Countries in their efforts to **implement OIE standards**
- **Disseminate and encourage adoption of recommendations** in the OIE List of Antimicrobials of Veterinary Importance
- **Strengthen multilateral support** for implementation of OIE standards among policy makers
- Build on the success of the OIE standards development work programme to continue to advance for the animal sectors our **comprehensive framework of quality, science-based standards** that support the Global Action Plan on AMR
- **Collaborate with WHO and FAO** to support the development of a comprehensive and aligned framework of standards and guidelines across human health, animal health, agriculture and the food chain

# OIE International Standards and Guidelines



# OIE Intergovernmental Standards on AMR regularly updated

Preserving the efficacy of antimicrobials



**Distribution,  
restriction of  
free access**



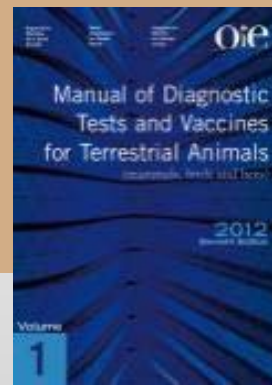
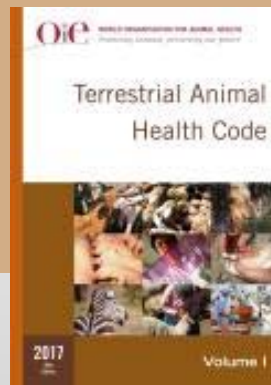
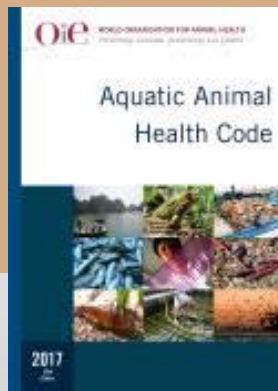
**Prescription and  
administration  
under veterinary  
supervision**



**Monitoring of quantities  
used in animals,  
antibiotic resistance  
surveillance**



**Oversight by  
Veterinary  
Statutory Bodies**



OIE  
intergovernmental  
standards



Use and  
surveillance of  
antimicrobials



Veterinary  
legislation



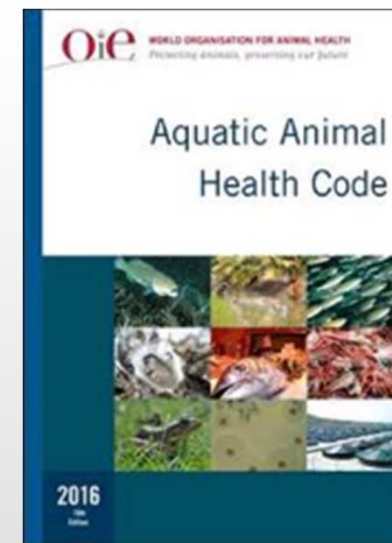
Quality of  
Veterinary  
Services

OIE List of antimicrobial agents  
of veterinary importance

# OIE International Standards on AMR

## *Aquatic Animal Health Code*

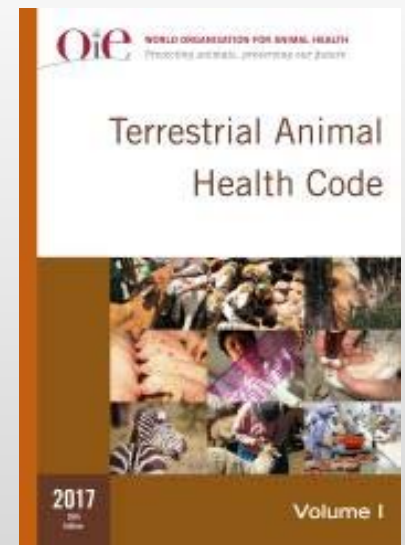
- Ch.6.2. Principles for **responsible and prudent use** of antimicrobial agents in aquatic animals
- Ch.6.3. **Monitoring of the quantities and usage patterns** of antimicrobial agents used in aquatic animals
- Ch.6.4. Development and harmonisation of national AMR **surveillance and monitoring programmes** for aquatic animals
- Ch.6.5. **Risk analysis** for AMR arising from the use of antimicrobial agents in aquatic animals



# OIE International Standards on AMR

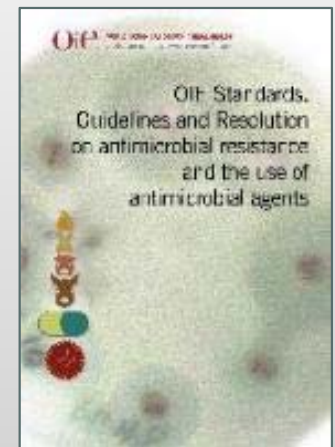
## *Terrestrial Animal Health Code*

- Ch.6.7. Harmonisation of national AMR **surveillance and monitoring** programmes
- **Ch.6.8. Monitoring of the quantities and usage patterns** of antimicrobial agents used in food-producing animals
- Ch.6.9. Responsible and **prudent use of antimicrobial agents** in veterinary medicine
- Ch.6.10. **Risk analysis** for AMR arising from the use of antimicrobial agents in animals



# OIE Standards and Guidelines

- **Chapter 6.9. 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:
  - regulatory authority
  - veterinary pharmaceutical industry
  - wholesale and retail distributors
  - veterinarians
  - food-animal producers
  - animal feed manufacturers



# OIE Standards and Guidelines

- **OIE List of Antimicrobial Agents of Veterinary Importance:**  
(last update in 2015)  
to take into account concerns for human health  
(WHO and FAO participated in this task)
- **Recommendation**  
**Any use of antimicrobial agents in animals should be in accordance with OIE standards on responsible and prudent use**

The screenshot displays the OIE website page for the 'List of Antimicrobial Agents of Veterinary Importance'. The page features a table with the following columns: 'Antimicrobial Agent', 'Therapeutic Class', 'Veterinary Use', and 'Human Use'. The table lists various antimicrobial agents, including Penicillins, Cephalosporins, Tetracyclines, and others, along with their respective veterinary and human uses. The table is partially obscured by a watermark and a navigation bar.

Antimicrobial Agent	Therapeutic Class	Veterinary Use	Human Use
Penicillins	Antibiotics	Antibiotics	Antibiotics
Cephalosporins	Antibiotics	Antibiotics	Antibiotics
Tetracyclines	Antibiotics	Antibiotics	Antibiotics
Macrolides	Antibiotics	Antibiotics	Antibiotics
Trimethoprim-sulfamonomethoxazole	Antibiotics	Antibiotics	Antibiotics
Fluoroquinolones	Antibiotics	Antibiotics	Antibiotics
Polysporins	Antibiotics	Antibiotics	Antibiotics
Streptogramins	Antibiotics	Antibiotics	Antibiotics
Colistin	Antibiotics	Antibiotics	Antibiotics
Chloramphenicol	Antibiotics	Antibiotics	Antibiotics
Vancomycin	Antibiotics	Antibiotics	Antibiotics
Linezolid	Antibiotics	Antibiotics	Antibiotics
Clindamycin	Antibiotics	Antibiotics	Antibiotics
Metronidazole	Antibiotics	Antibiotics	Antibiotics
Amphotericin B	Antifungals	Antifungals	Antifungals
Fluconazole	Antifungals	Antifungals	Antifungals
Isavuconazole	Antifungals	Antifungals	Antifungals
Posaconazole	Antifungals	Antifungals	Antifungals
Voriconazole	Antifungals	Antifungals	Antifungals
Terbinafine	Antifungals	Antifungals	Antifungals
Griseofulvin	Antifungals	Antifungals	Antifungals
Acyclovir	Antivirals	Antivirals	Antivirals
Valacyclovir	Antivirals	Antivirals	Antivirals
Famciclovir	Antivirals	Antivirals	Antivirals
Ganciclovir	Antivirals	Antivirals	Antivirals
Docosanol	Antivirals	Antivirals	Antivirals
Idoxuridine	Antivirals	Antivirals	Antivirals
Trifluorothymidine	Antivirals	Antivirals	Antivirals
Acyclovir	Antivirals	Antivirals	Antivirals
Valacyclovir	Antivirals	Antivirals	Antivirals
Famciclovir	Antivirals	Antivirals	Antivirals
Ganciclovir	Antivirals	Antivirals	Antivirals
Docosanol	Antivirals	Antivirals	Antivirals
Idoxuridine	Antivirals	Antivirals	Antivirals
Trifluorothymidine	Antivirals	Antivirals	Antivirals

[http://www.oie.int/fileadmin/Home/eng/Our\\_scientific\\_expertise/docs/pdf/Eng\\_OIE\\_List\\_antimicrobials\\_May2015.pdf](http://www.oie.int/fileadmin/Home/eng/Our_scientific_expertise/docs/pdf/Eng_OIE_List_antimicrobials_May2015.pdf)

# Standards and guideline related to antimicrobial resistance

Among the Veterinary **Critically Important** Antimicrobial Agents, **some are also of critical importance for human health** (third and fourth generation ***Cephalosporins***, and ***Fluoroquinolones***):

- **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 bacteriological test
- **Extra label/off label limited** and reserved for instances no alternatives are available



# Ensure the Responsible & prudent use

- **OIE List of Antimicrobial Agents of Veterinary Importance:**

- Will be updated in 2018

WHO and FAO participate in this task as observers



## Some are also of critical importance for human health:

- 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 bacteriological test
- Extra label/off label limited and reserved for instances no alternatives are available.

# Monitoring the use of antimicrobials in animals



# Monitoring the use of antimicrobials in animals based on OIE standards

## OIE global database



1

- A system where all can contribute

2

- That safeguards information

3

- That is pragmatic regarding the data collected

4

- That will help to get comparable data and to measure trends

# OIE global database on the use of antimicrobial agents in animals

Baseline information and 3 reporting options:

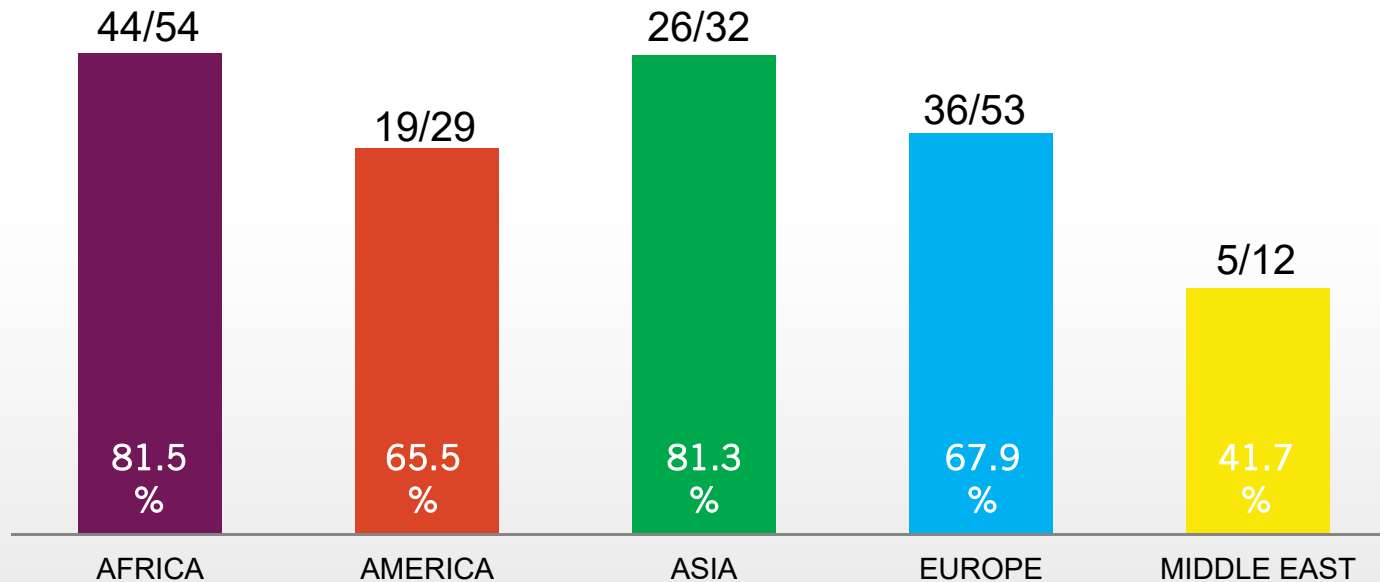
## Reporting options

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

# OIE Global Database on Antimicrobial Use in Animals

1st results

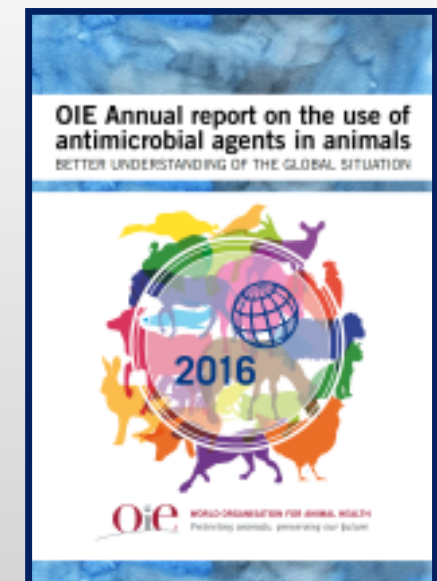
% of OIE Member Countries submitting questionnaires by OIE region



**130 (72%)**  
Member Countries  
responded  
in the first phase

*Mid-Dec.2015- May 2016*

*Including 54/74 (73%) LMIC*



# Ongoing activities and next steps

# Ongoing Activities and next steps

- **Based on the latest Resolution No. 38 adopted by 85<sup>th</sup> World Assembly in May 2017, that the OIE :**
- Promote approaches to reduce antibiotics by encouraging alternatives to antibiotics, development of vaccines, best husbandry practices and hygiene
- Implement the OIE Strategy on AMR and prudent use in collaboration with WHO and FAO and promote intersectoral collaboration at regional, sub-regional and national level
- Support MCs in the implementation of national action plans and international standards

[http://www.oie.int/fileadmin/Home/eng/About\\_us/docs/pdf/Session/2017/A\\_RESO\\_2017\\_Public.pdf](http://www.oie.int/fileadmin/Home/eng/About_us/docs/pdf/Session/2017/A_RESO_2017_Public.pdf)

# Ongoing Activities and next steps

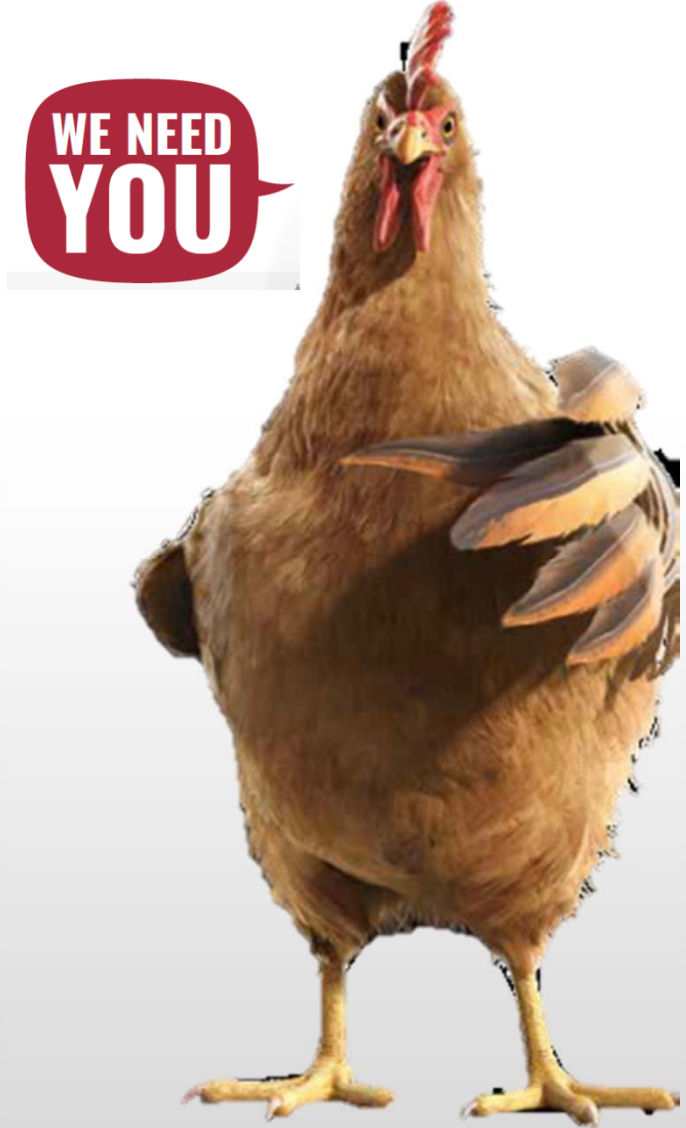
Based on the latest Resolution No. 38 adopted by 85th World Assembly in May 2017, that the OIE :

- Contribute to strengthening raising awareness on risks related to AMR
- Complement the specific standards and recommendations on laboratory methodologies for antimicrobial susceptibility, and work with WHO and FAO to achieve integrated surveillance
- Continue the work of the United Nations interagency group to coordinate global action to fight AMR effectively and sustainably

[http://www.oie.int/fileadmin/Home/eng/About\\_us/docs/pdf/Session/2017/A\\_RESO\\_2017\\_Public.pdf](http://www.oie.int/fileadmin/Home/eng/About_us/docs/pdf/Session/2017/A_RESO_2017_Public.pdf)

# OIE's Ongoing AMR Work Programme

1. **Monitoring programmes** for implementation of GAP and OIE Strategy
2. Global **data collection and analysis** of antimicrobial agents intended for use in animals
3. Ongoing development and maintenance of OIE Standards
  - Key definitions: **therapeutic use**, **preventive use** and **growth promotion**
  - **Update the OIE List of Antimicrobial Agents of Veterinary Importance** taking into account recent WHO updates
4. **Prudent Use** communication campaign to empower policy makers, veterinarians, and other relevant stakeholders



— TO HANDLE —  
**ANTIMICROBIALS**  
— WITH CARE —



# Conclusion



# CONCLUSION

## *Protecting animals, preserving our future*

- Work together in collaboration with WHO and FAO for a coordinated and multi-sectoral approach and other alliances;
- Need National AMR action plans adopted to the local conditions in Member Countries
- Sustainable actions supported by investments in the animal health system and within a legal framework to minimise counterfeiting and illegal marketing
- Strong educational campaign and cooperation among all stakeholders
- *We need your commitments to put it into practice the principle of Prudent and Responsible Use of Antimicrobials*

# Thank you for your attention



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