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OIE SRR-SA

OIE Strategy on AMR

OIE SUB-REGIONAL WORKSHOP ON THE DATABASE
ON ANTIMICROBIAL AGENTS INTENDED FOR USE IN
ANIMALS IN EASTERN AND SOUTHERN AFRICA

29 – 31 October 2019
Mombasa, Kenya



La Stratégie de l'OIE sur la résistance aux agents antimicrobiens (RAM) et leur utilisation prudente

Protéger la santé et le bien-être animal en soutenant l'effort mondial de lutte contre la RAM



- Introduction OIE
- AMR in Context
- OIE AMR Strategy
 - 4 main pillars
- Take home message

History



1924

Creation:
Office International
des Epizooties
(OIE)

1945

Creation of the
United Nations

2003

New Name:
World Organisation
for Animal Health
(OIE)

OUR WORLDWIDE NETWORK



AMR in Context

The facts about AMR

Antimicrobial resistance (AMR) occurs when microorganisms such as bacteria, viruses, fungi and parasites change in ways that make treatments ineffective. AMR is a major concern because drug-resistant infections can kill, spread to others, and impose huge cost burdens on individuals and society.

› Why AMR is a threat

Almost 700,000 people worldwide die annually from drug-resistant infections. Without effective antimicrobial treatments, infections that have been treatable for decades could, once again, cause widespread death and suffering.



› The economic costs

It is estimated that the economic cost of AMR through lost global production will be US\$100 trillion between now and 2050. Direct and indirect impacts will disproportionately affect low and middle-income countries.



› The global impact

The global impact of AMR could be 10 million deaths annually by 2050. The World Health Organization warns that AMR is happening now and 'has the potential to affect anyone, of any age, in any country'.



› The O'Neill report

The 2016 O'Neill report described a definitive 10-point plan for tackling the global challenge of AMR. This evidence-based plan outlined the action needed on surveillance, rapid diagnostics, drugs and vaccines, and a Global Innovation Fund.



(WHO factsheet AMR)

IF NOT TACKLED, RISING AMR COULD HAVE A DEVASTATING IMPACT

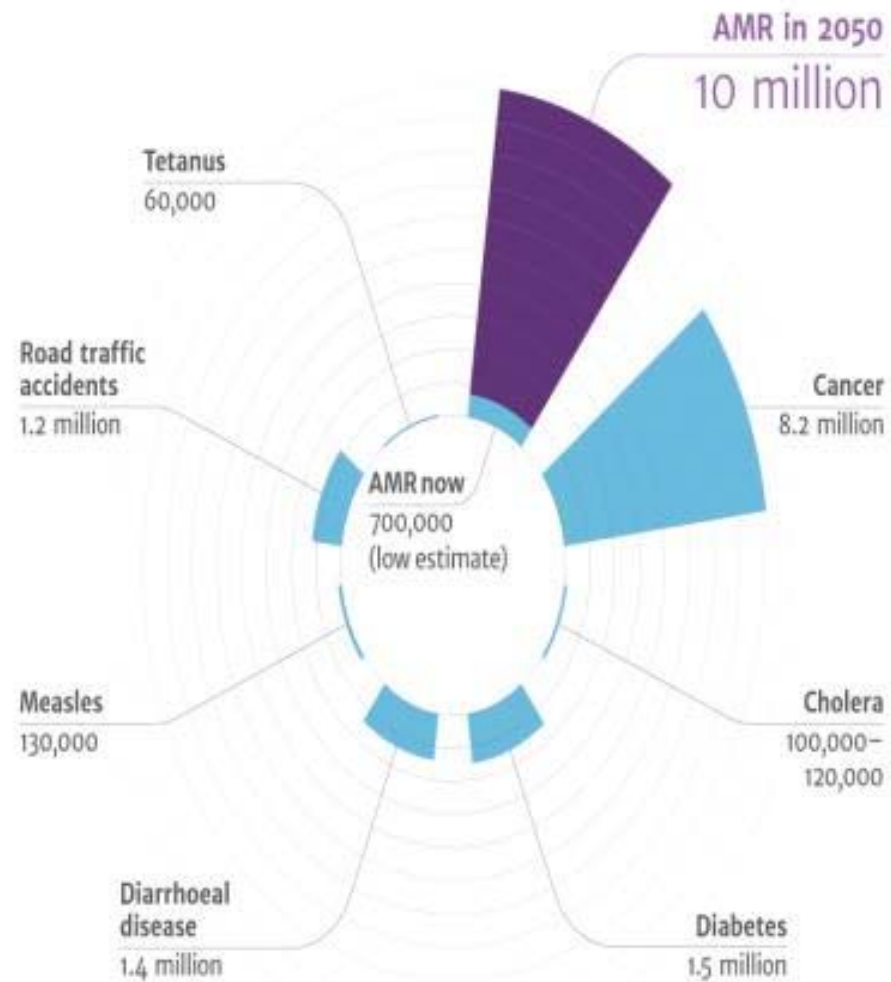


By 2050, the death toll could be a staggering
one person every three seconds
if AMR is not tackled now.

Source: Review's own analysis.

Review on
Antimicrobial
Resistance

Comparative deaths

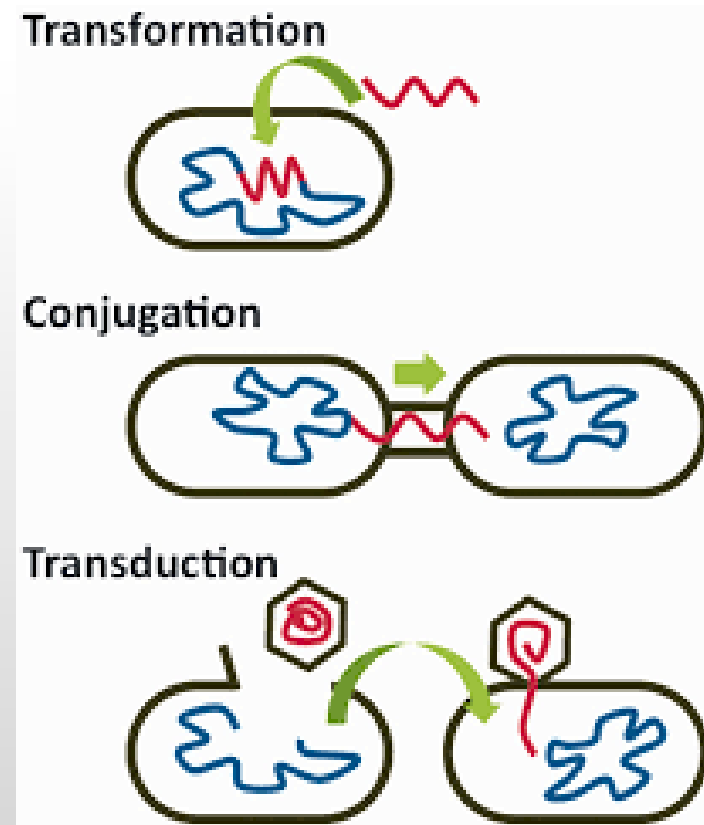


Complexity of AMR

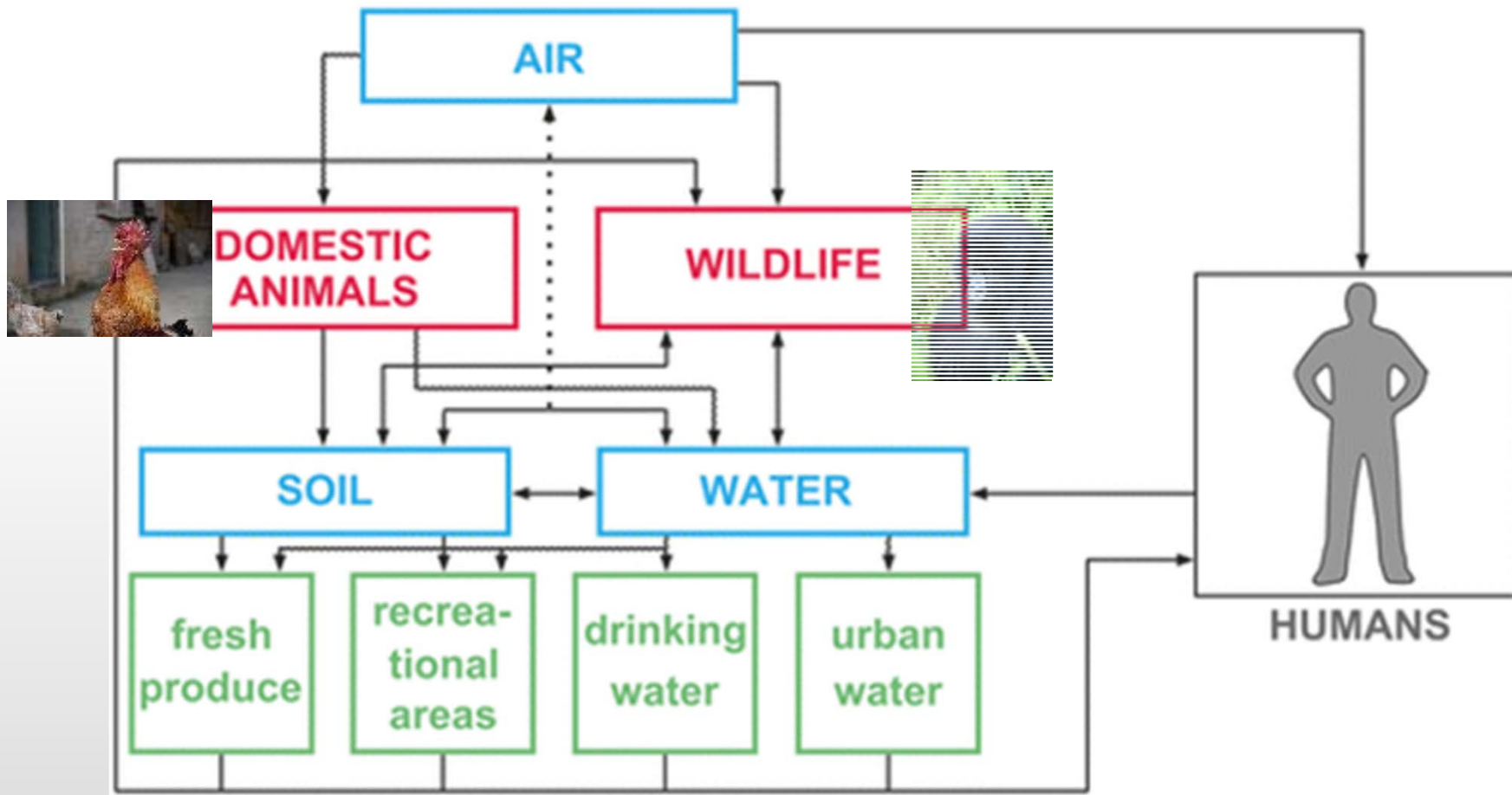
Ability of microbes to adopt – Horizontal transfer of AMR

- Conjugation
- Transduction
- Transformation

- *Plasmids*
- *Bacteriophages*
- *Membrane vesicles*



Source: researchgate.net



Role of the Environment in the Transmission of Antimicrobial Resistance to Humans: A Review
 Patricia M. C. Huijbers, et al. *Environmental Science & Technology* 2015 49 (20), 11993-12004

The Tripartite: FAO-OIE-WHO Collaboration



Global leader
for food and
agriculture



Global leader for
animal health and
welfare standards



Global leader
for human
health



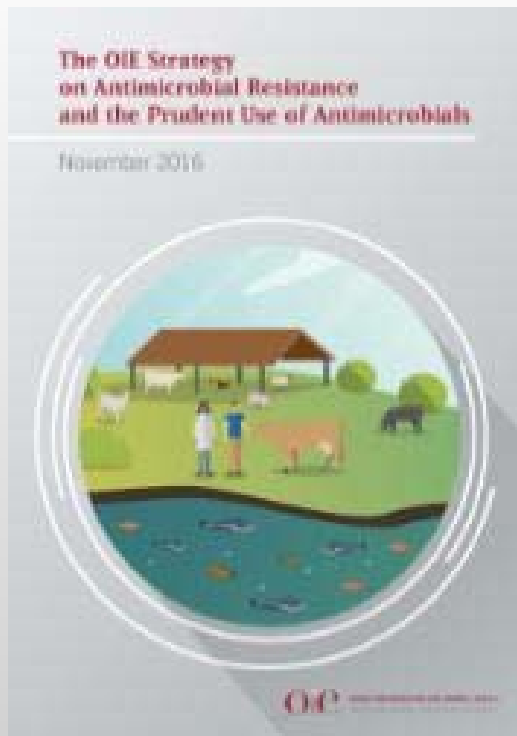
Joint priorities including on AMR

- WHO Global Action Plan on AMR: developed in close collaboration with FAO & OIE
- National Action Plan (NAP) development support tools – One Health
 - Manual for developing NAP
 - Checklist to be used to assist with the development of NAP
 - Ongoing M&E
 - Tripartite questionnaire to monitor implementation
 - Communication tools

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



1 Improve awareness and understanding

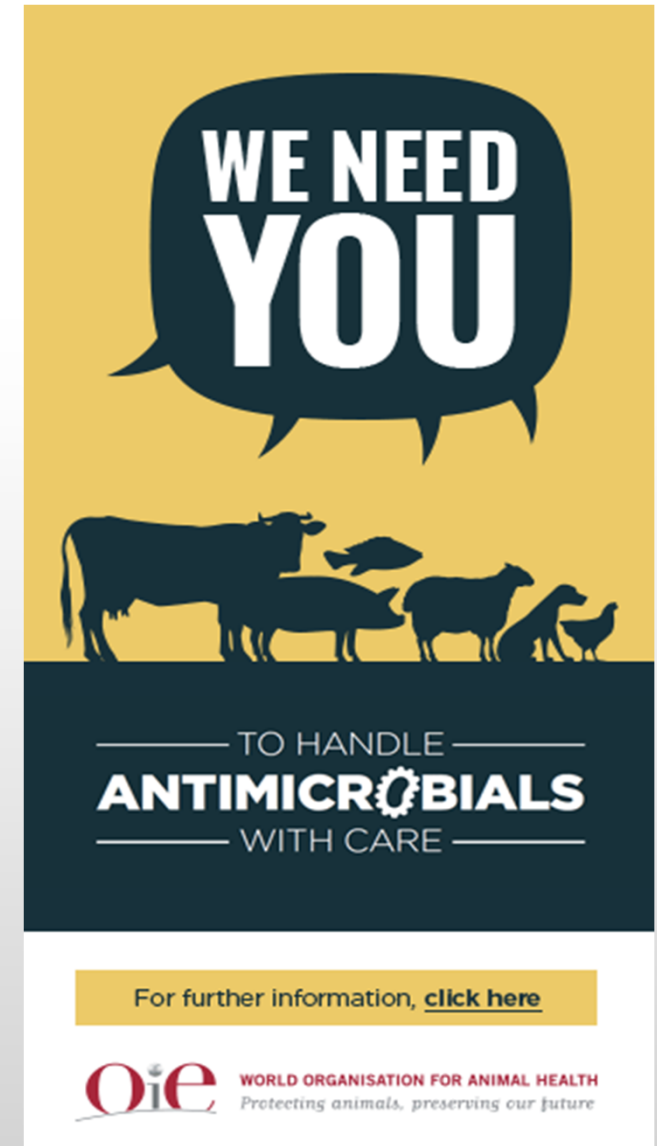
2 Strengthen knowledge through surveillance and research

3 Support good governance and capacity building

4 Encourage implementation of international standards

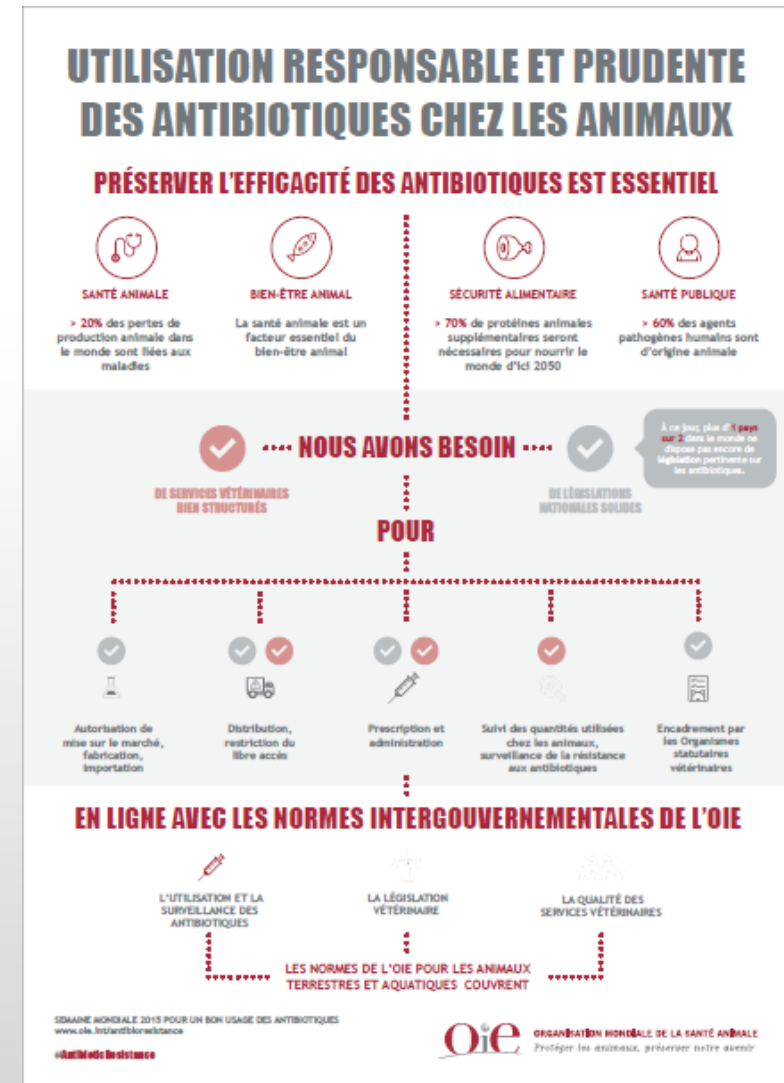
1 Improve awareness and understanding

- 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



1 Improve awareness and understanding

- Promote use of **vaccines, good animal husbandry and biosecurity best practices** in the fight against AMR
- **Expand the portfolio of OIE guidance, education and scientific reference materials**
- **Collaborate with WHO and FAO (Tripartite) and UNEP (Traipartite +) to ensure**
 - Alignment
 - Global and regional coordination
 - Joint activities: regional and national.



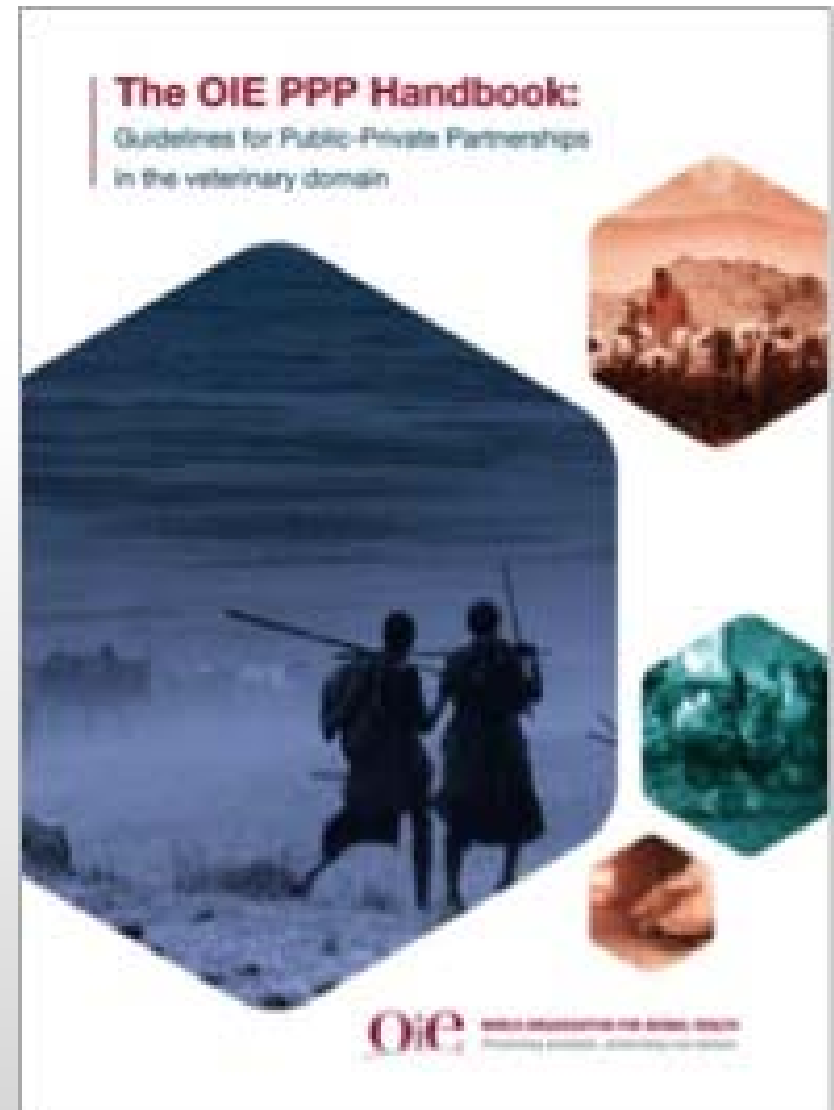
2 Strengthen knowledge through surveillance & research

- Support MCs to **develop and implement 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



2 Strengthen knowledge through surveillance & research

- **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**



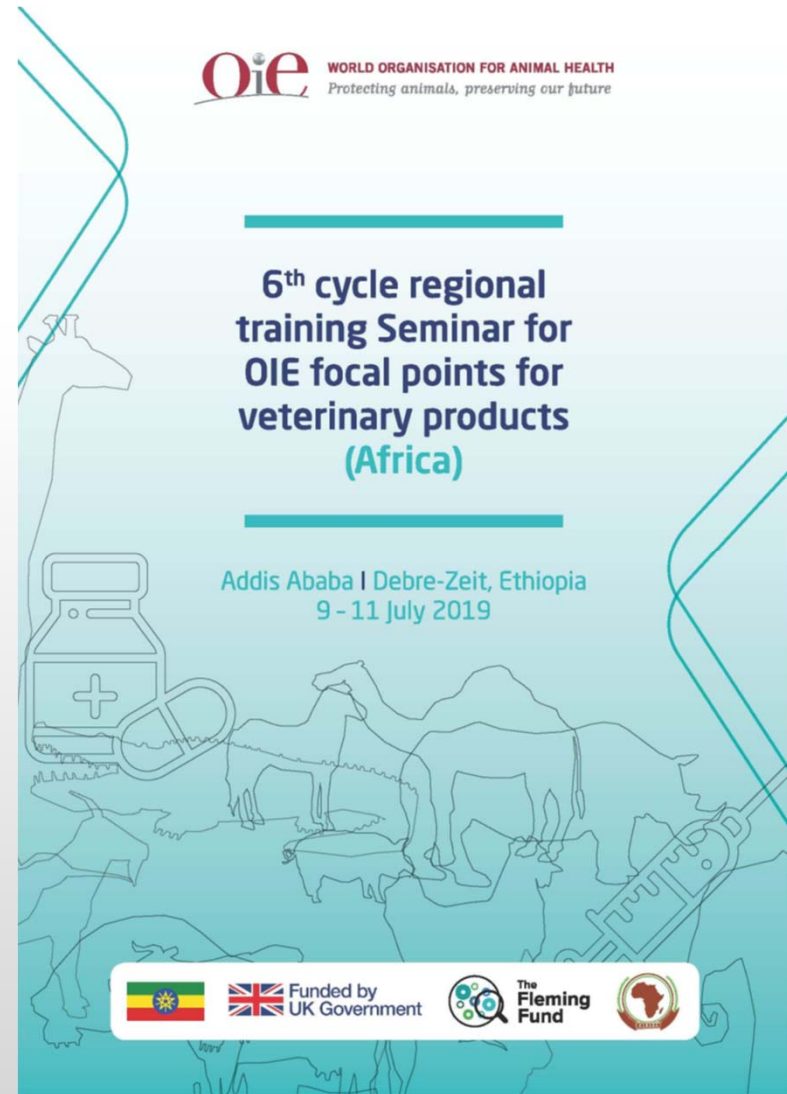
3 Support good governance and capacity building

- 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



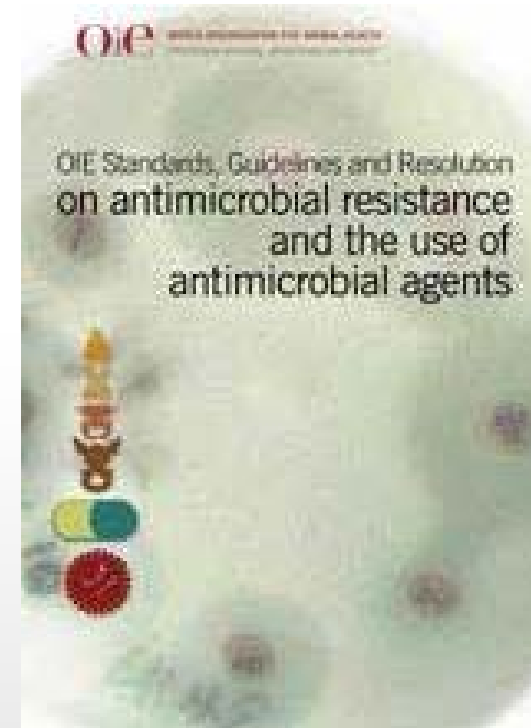
3 Support good governance and capacity building

- **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 e.g. VLSP
- 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



➔ [Critères utilisés pour la catégorisation](#)

➔ [Liste des agents antimicrobiens](#)

**LISTE OIE DES AGENTS ANTIMICROBIENS IMPORTANTS
EN MÉDECINE VÉTÉRINAIRE
(juin 2019)**

4 Encourage implementation of OIE standards

- 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 Strategy on Antimicrobial Resistance and the Prudent Use of Antimicrobials in Animals

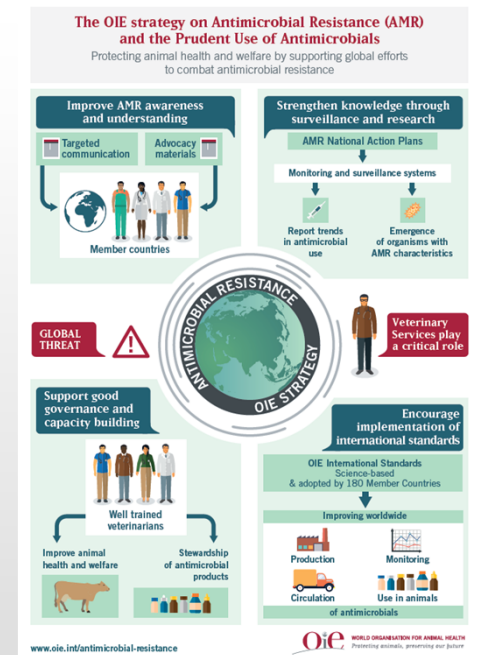
Combines AMR specific tools and actions such as

- AMR related standards and guidelines
- AMU database
- Communication material

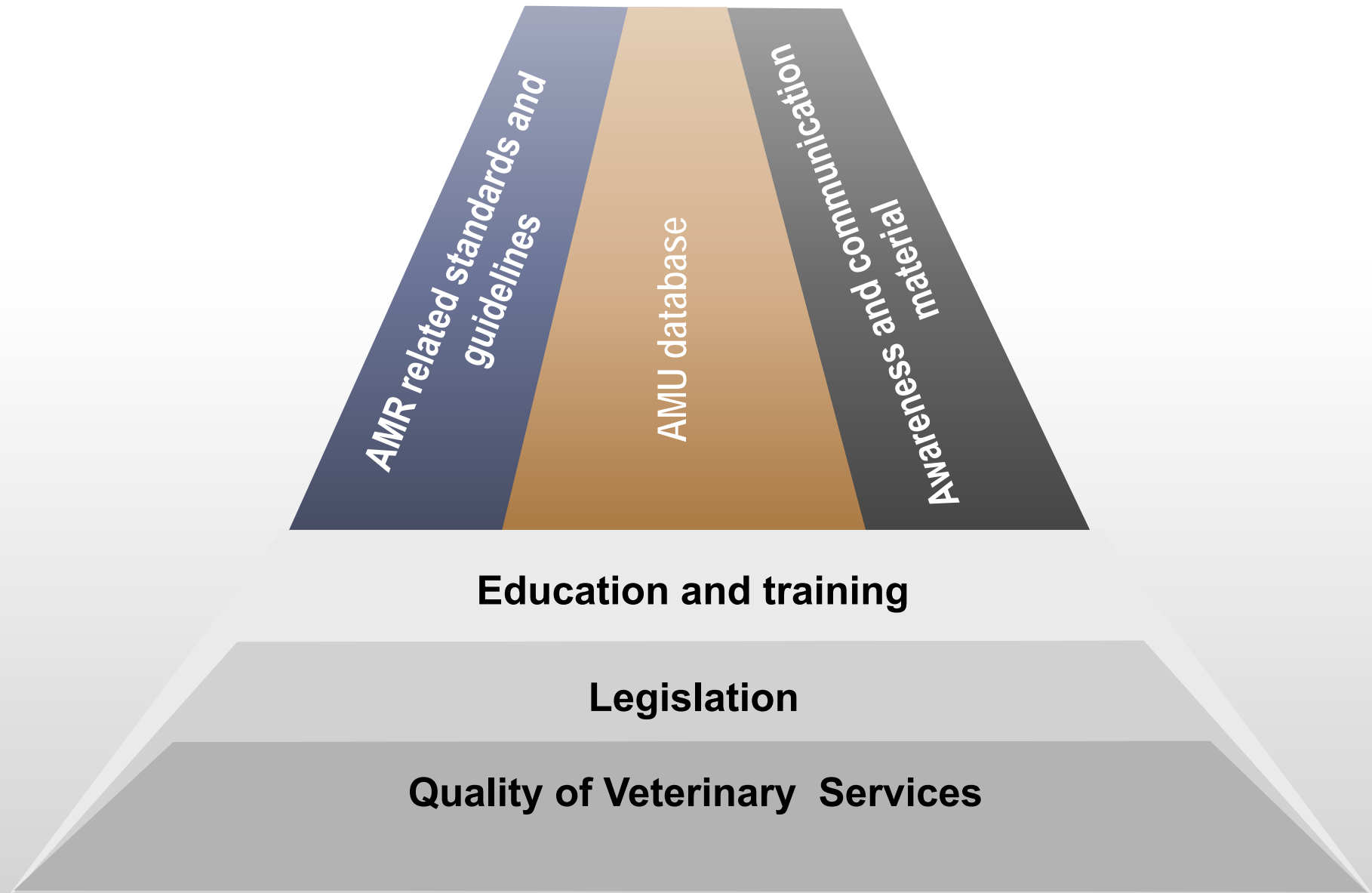
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with support for fundamental needs including

- Quality of veterinary services
- Legislation
- Education and training
- Tripartite collaboration and partnerships



OIE Strategy on Antimicrobial Resistance and the Prudent Use of Antimicrobials



Take home message

IACG report 2019



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

**REPORT TO THE SECRETARY-GENERAL
OF THE UNITED NATIONS**

29 APRIL 2019

WE NEED YOU TO HANDLE **ANTIMICROBIALS** WITH CARE

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.

oie WORLD ORGANISATION FOR ANIMAL HEALTH
Protecting animals, preserving our future

Funded by UK Government

***Acknowledgement of OIE HQ
Antimicrobial Resistance Team and
Colleagues at SRR-SA***

Let us move together



WORLD ORGANISATION FOR ANIMAL HEALTH
Protecting animals. preserving our future



Source ASM picture

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