

OIE initiatives and collaboration to address antimicrobial resistance



Conference of the Italian Semester of the Presidency
“Fighting Antimicrobial Resistance: smart weapons against smart microorganisms”
Rome, Italy

23-24 December 2014

Dr Susan Corning



WORLD ORGANISATION FOR ANIMAL HEALTH
Protecting animals, preserving our future



By now, we all agree that AMR is
a global concern
- for both humans and animals

- No control of antimicrobial circulation in a majority of countries
- Falsified products: a worldwide problem
- Unrestricted direct access to antimicrobials without medical or veterinary supervision
- Critical need to establish and implement measures for controls on: importation, production, distribution and use in both humans and animals



A global concern



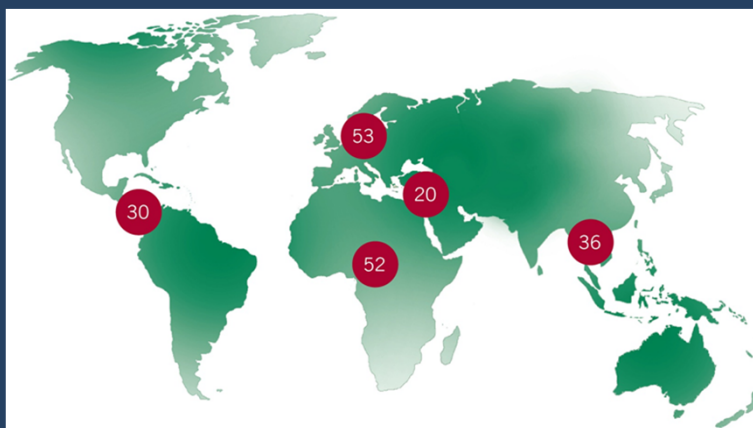
- Human, animal and even plant sectors have a shared responsibility to prevent or minimise the development of AMR by both human and non-human pathogens
- Veterinary supervision and guidance from statutory bodies are a **priority**: well-qualified veterinarians are not a problem, they are the solution
- AMR is already one of the three priority topics of the FAO/OIE/WHO collaboration, under the Tripartite concept “One Health”

What will countries need to implement actions? - *for both animal and public health:*

- Legislation and enforcement
- Reliable information
- Capacity building
- Appropriate governance - **compliance with OIE standards**

THE INTERNATIONAL STANDARD-SETTING ORGANISATION FOR ANIMAL HEALTH

180 MEMBER COUNTRY NETWORK



90 YEARS OF SUCCESSFUL COORDINATION OF INTERNATIONAL ANIMAL DISEASE CONTROL



WORLD ORGANISATION FOR ANIMAL HEALTH
Protecting animals, preserving our future

OIE SUPPORT TO COMBAT ANTIMICROBIAL RESISTANCE

1. International Standards and Guidelines
2. Building veterinary capacity to address AMR issues
3. Solidarity and collaboration
4. Information collection and sharing



WORLD ORGANISATION FOR ANIMAL HEALTH

Protecting animals, preserving our future

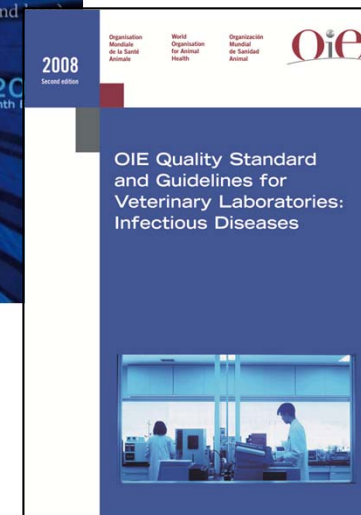
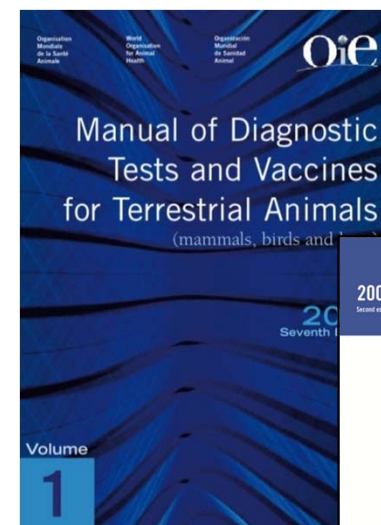
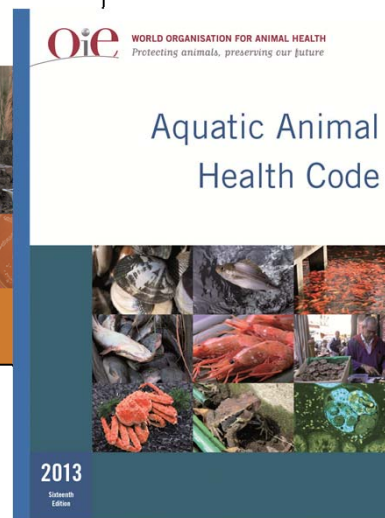
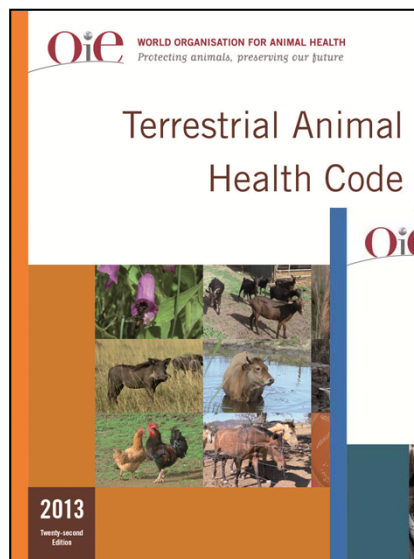
International Standards and Guidelines



WORLD ORGANISATION FOR ANIMAL HEALTH

Protecting animals, preserving our future

**OIE develops international standards and measures
to ensure that veterinary services can
adequately and responsibly control animal pathogens**



WORLD ORGANISATION FOR ANIMAL HEALTH
Protecting animals, preserving our future

Chapters in the OIE Terrestrial and Aquatic Codes

- updated to specifically address AMR issues:

Terrestrial Animal Health Code Chapters 6.6 to 6.10 (updated 2012 – 2014)

Aquatic Animal Health Code Chapters 6.1 to 6.4 (updated 2014)

- OIE List of Antimicrobial Agents of Veterinary Importance
(2013 update to also reflect human health concerns)
- Harmonisation of national AMR surveillance programmes
- Monitoring of the quantities and usage patterns
- Responsible and prudent use (veterinary supervision)
- Permanent risk assessment
- Develop use of vaccines (research, standards)
- Laboratory methodologies for bacterial antimicrobial susceptibility testing

OIE standards are available at:

<http://www.oie.int/en/international-standard-setting/overview/>

Building veterinary capacity to address AMR issues



WORLD ORGANISATION FOR ANIMAL HEALTH

Protecting animals, preserving our future

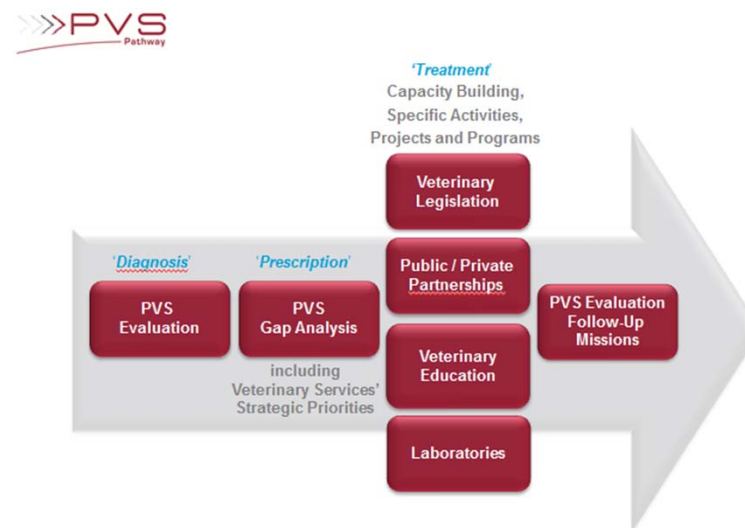
OIE builds **veterinary capacity** to address AMR issues:

- Nomination and training of **National Focal Points** to assist OIE delegate in specific areas (eg AMR training – *veterinary products*)
- **OIE Reference Laboratories and Twinning Programmes**
 - **Twinning Programmes** mobilise the expertise of the 277 OIE Reference Laboratories and Collaborating Centres network to assist laboratory capacity building in developing countries.
 - three Collaborating Centres on Veterinary Medicinal Products (in France, Japan and USA) and a **Collaborating Centre on antimicrobial resistance** supports the OIE's activities concerning veterinary medicinal products.

OIE builds **veterinary capacity** to address AMR issues:

OIE PVS (Performance of Veterinary Services) Pathway

- determines capability of National Veterinary Services to meet intergovernmental quality standards and provides targeted support for national strategies
- **Veterinary Services & Legislation** (*importation, distribution, use of antimicrobial agents in animals*)
- Supporting **veterinary education** & Day One competence of veterinary graduates
- Strengthening **veterinary statutory bodies and veterinary oversight** on the distribution and use of antimicrobials



Global Health Security Agenda (GHSA):

OIE PVS Pathway:

an important framework for global health security



“... an effort by nations, international organisations, and civil society to accelerate progress toward a world safe and secure from infectious disease threats... and to spur progress toward full implementation of the World Health Organization (WHO) International Health Regulations 2005 (IHR), the **World Organisation for Animal Health (OIE) Performance of Veterinary Services (PVS) Pathway**, and other relevant global health security frameworks.”

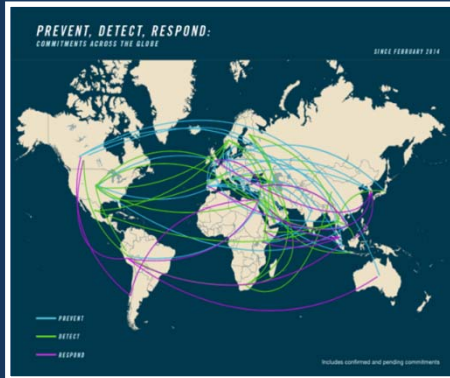
OIE and PVS Pathway role in Global Health Security Agenda (GHSA)

Launched in 2014: USA and 39 other countries, as well as the OIE, WHO, and FAO have made specific commitments (Action Packages) to work together to **significantly improve global security against infectious disease threats.**

... to accelerate progress, over a five-year period, towards full compliance with IHR and other global health security frameworks, **notably OIE standards on the quality of veterinary services.**

Global Health Security Agenda (GHSA)

Action Packages



Prevent 1:

Antimicrobial resistance

Prevent 2:

Zoonotic disease

Prevent 3:

Biosecurity and biosafety

Prevent 4:

Immunization

Detect 1:

Nationwide laboratory systems

Detect 2/3:

Surveillance

Detect 4:

Reporting

Detect 5:

Workforce development

Respond 1:

Emergency operations centers

Respond 2:

Linking public health & law response

Respond 3:

Countermeasures

Global Health Security Agenda (GHSA)

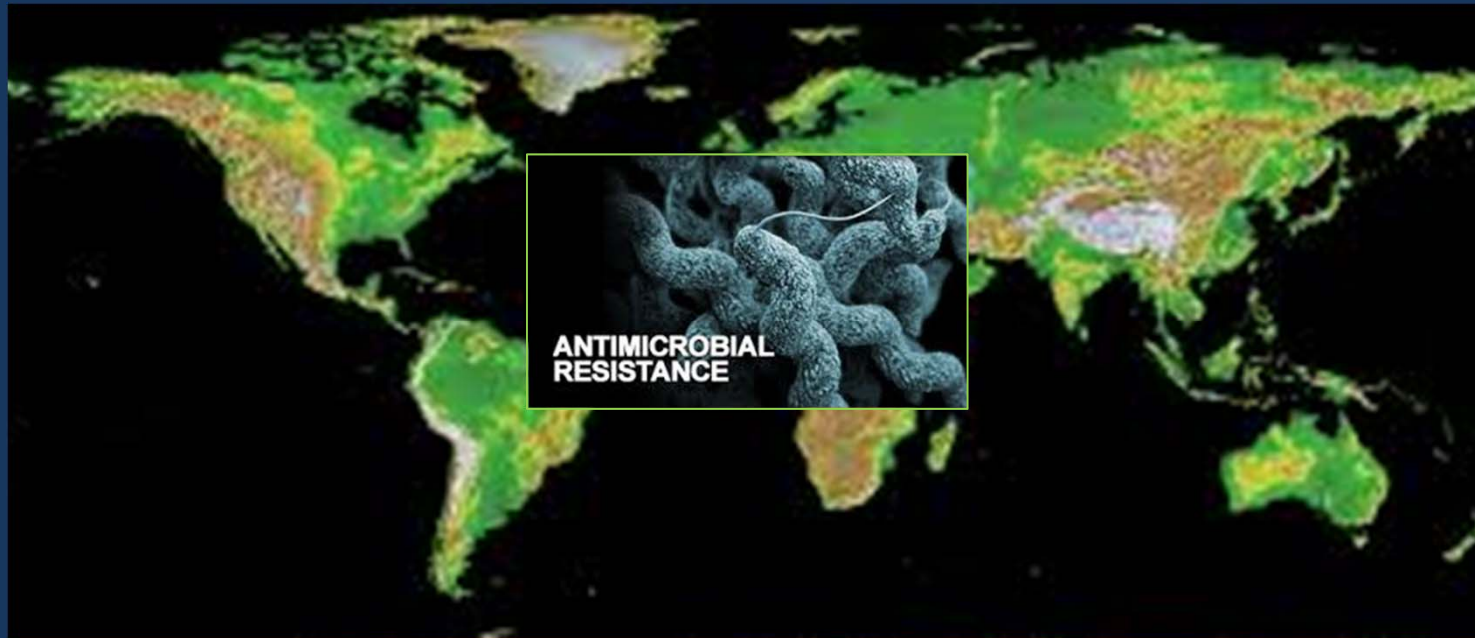
Prevent-1 AMR Action Package

Five-Year Target:

Support work being coordinated by WHO, FAO, and OIE to develop a global One-Health approach to combat AMR (human, animal, agricultural, food and environmental aspects):

- Each country has its own national comprehensive plan to combat AMR
- Existing standards applied and developed
- Improved conservation of existing treatments and collaboration to support the sustainable development of new antibiotics, alternative treatments, preventive measures and rapid, diagnostics

OIE has actively collaborated, with input into Global Action Plan (GAP) for Antimicrobial Resistance



At request of May 2014 WHO World Health Assembly (WHA67.25): a multisectoral consultation (including OIE and FAO) to develop a collaborative Action Plan to combat antimicrobial resistance
(to be submitted to WHA in 2015)

Solidarity and collaboration



WORLD ORGANISATION FOR ANIMAL HEALTH

Protecting animals, preserving our future

Recent OIE Global Conferences relevant to AMR in a One Health context

- OIE Global Conference on Veterinary Legislation, Dec 2010, Tunisia
 - Terrestrial Code Chapter on Veterinary Legislation
- **OIE Global Conference on Responsible and Prudent Use of Antimicrobial Agents in Animals, Mar 2013, Paris, France**
- OIE Global Conference on Veterinary Education and the Role of Veterinary Statutory Bodies, Dec 2013, Brazil
 - Highlights role of veterinarians in fighting AMR
 - Highlights role of veterinary statutory bodies in good governance



**OIE Global Conference on the Responsible
and Prudent Use of Antimicrobial Agents for Animals**
International Solidarity to Fight against Antimicrobial Resistance

Paris (France) 13 – 15 March 2013

- 16 recommendations to **OIE Member Countries**, including to develop and establish an official harmonised country system for collecting **national data on the monitoring of AMR in relevant animal pathogens and quantities of antimicrobial agents** used in food producing animals
- 12 recommendations to **OIE**, including to collect harmonised quantitative **data on the use of antimicrobial agents in animals** with the view to establish a **global database**.

Information collection and sharing



WORLD ORGANISATION FOR ANIMAL HEALTH

Protecting animals, preserving our future

Collection of harmonised quantitative data on use of antimicrobial agents in animals

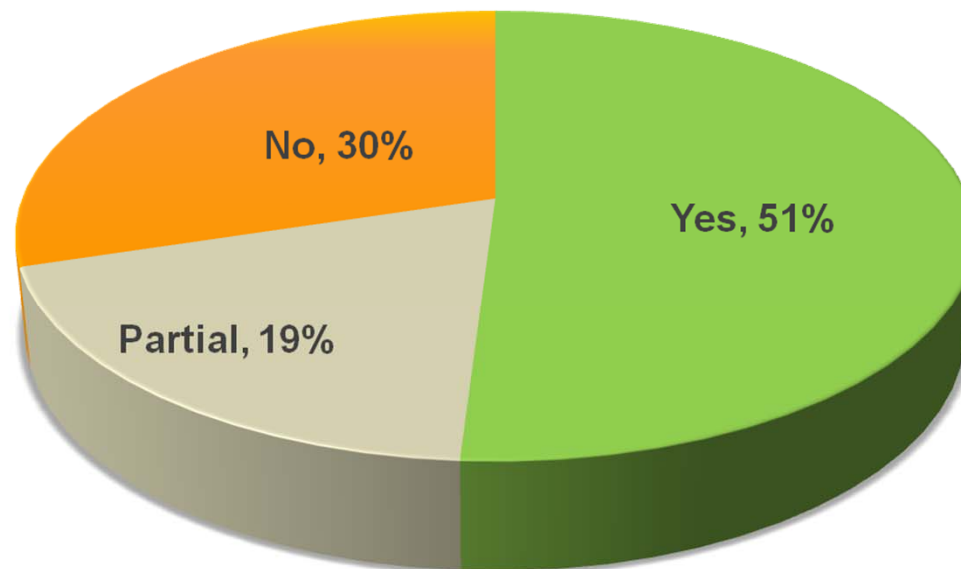


(to establish a global database)



2012 survey presented at the 2013 OIE Global Conference on Responsible and Prudent Use of Antimicrobial Agents in Animals

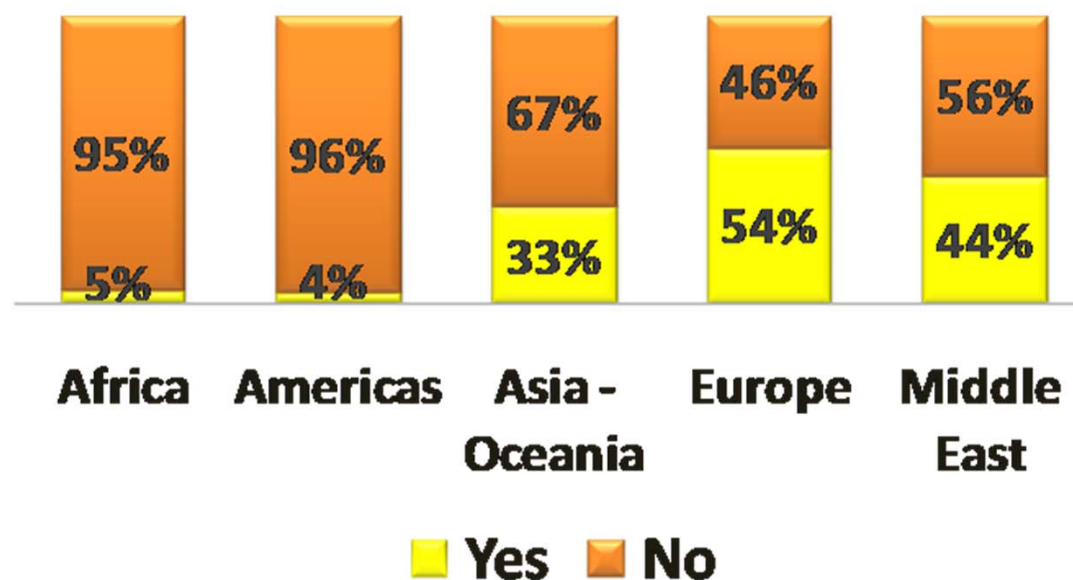
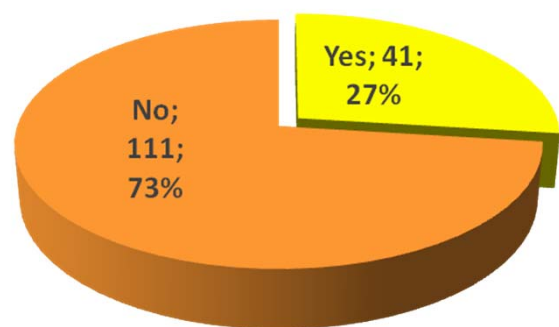
Proportion of OIE Member Countries banning the use of antimicrobial agents as animal growth promoters





2012 survey presented at the 2013 OIE Global Conference on Responsible and Prudent Use of Antimicrobial Agents in Animals

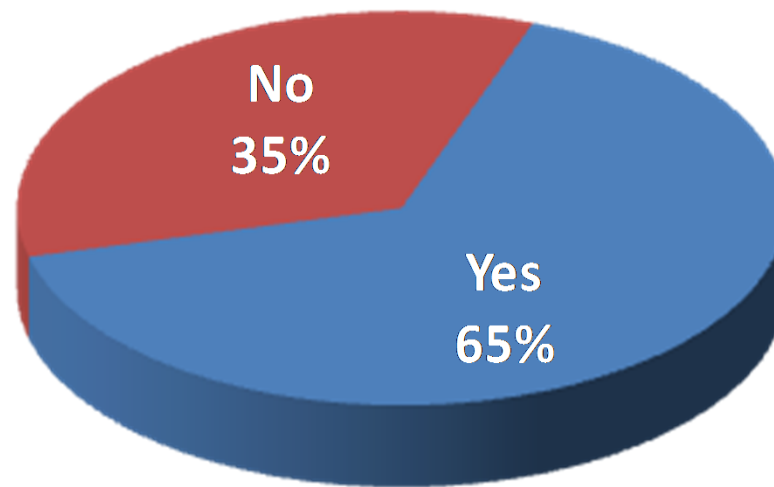
Proportion of OIE Member Countries with an official system for collecting quantitative data





2012 survey presented at the 2013 OIE Global Conference on Responsible and Prudent Use of Antimicrobial Agents in Animals

OIE Member Countries planning to set up an official system to collect quantitative data



What has happened since survey & recommendations...

- ***ad hoc* Group** set up and met in 2014:
 - development of **global system for the collection of data** on quantities of antimicrobial agents used in animals
 - developed **prototype for reporting of data** on quantities of antimicrobial agents used in animals (*this template now being discussed with Focal Points for Veterinary Products*)

What has happened since survey & recommendations...

Next Steps:

- **Pilot testing of data collection** - now underway
- December 2014 (*ad hoc* Group meeting):
 - **Final adaption of data collection template**, ensuring it is useful for different levels of data availability (*will be ready in early 2015*)
 - **Develop format for data reporting**
- **Integration into annual OIE animal health data collection**

Antimicrobial use in animals:

what do we need to do?

- Ensure human food security by continuing to protect the health of animals
- Use antimicrobials in animals prudently and effectively
- Ensure that veterinarians receive appropriate training
- Ensure ethical and appropriate delivery as decreed by the Veterinary Statutory Body

How do we do this?

- Promote **Veterinary Service compliance** with OIE standards on quality
- **Support developing countries** to implement good governance, legislation and enforcement
- Enhance veterinary supervision of **non-therapeutic use**
- Elevate **public awareness** of AMR and highlight legal use
- Enhance (One Health) **cooperation between international organisations**
- More research and public-private partnerships for **new molecules** or new technologies

CONCLUSION – AMR action for Animal Health

Problems related to AMR are linked to antimicrobial use in any environment, including human and non-human usages.

It is critical to take action now to keep antimicrobial agents effective and useful to combat disease.

- A main aspect of the FAO/OIE/WHO **One Health** strategy
- Addressed by **OIE key actions**: standards, capacity building, information collection and sharing, and supporting solidarity
- **Aim**: Sustain animal health and welfare must be sustained, and ensure food security and safety
- Use of antimicrobials for **growth promotion** should be carefully **evaluated**, responsible use should be science-based
- No optimal global solution for delivering antimicrobials at farm level; the **well-qualified veterinarian is the key**; **OIE drives greater transparency**
- International **solidarity** is crucial

One Health is not one-way!



Protecting global health and fighting AMR
is a shared responsibility of both
human and animal health authorities

Thank you

BUON NATALE!

