

**GHSA Meeting on “Step towards Regional Strategic Collaboration in Asia-Pacific on Workforce Development, National Laboratory System Strengthening and Antimicrobial Resistance Prevention to Respond to Global Challenges”**

6 – 8 May 2015 \* Bangkok, Thailand

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**AMR AT THE HUMAN - ANIMAL HEALTH INTERFACE:  
CHALLENGES AND COLLABORATION**

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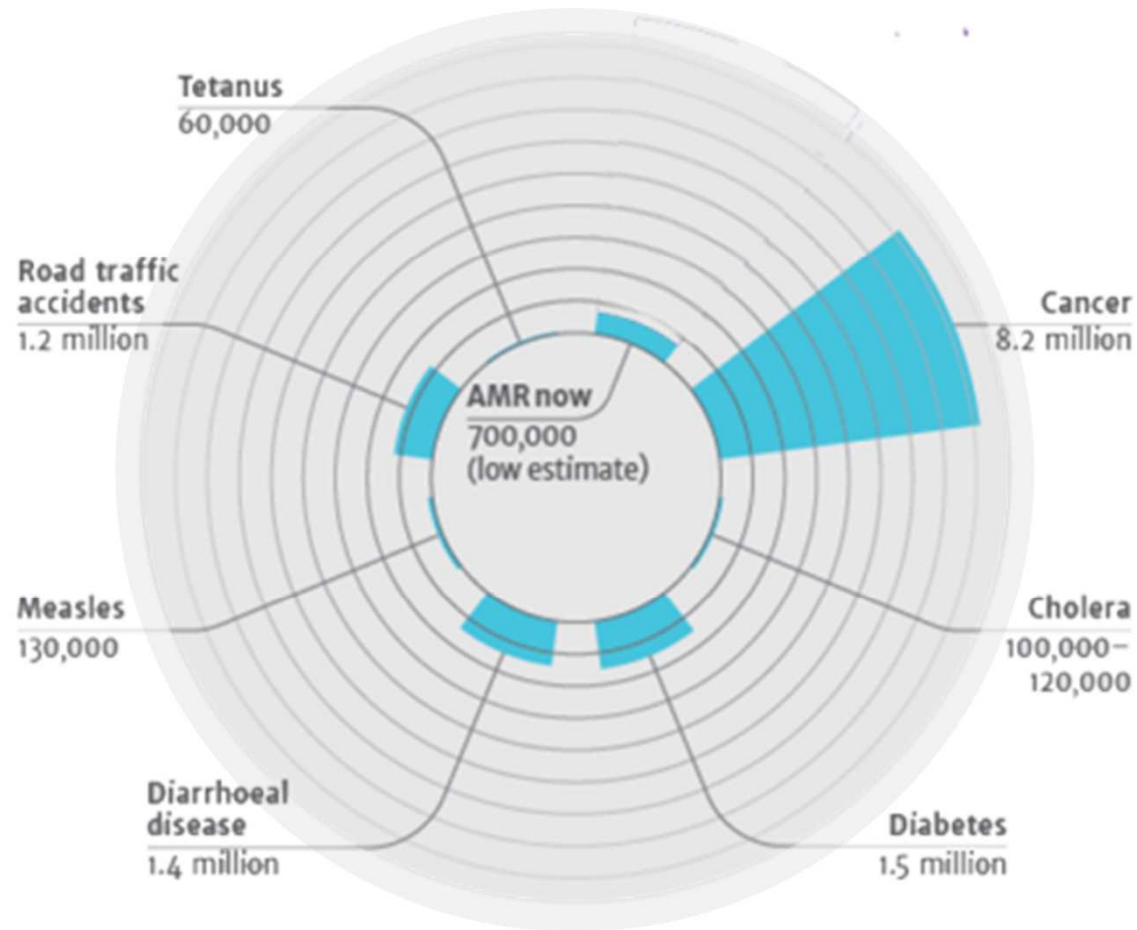


# OUTLINE



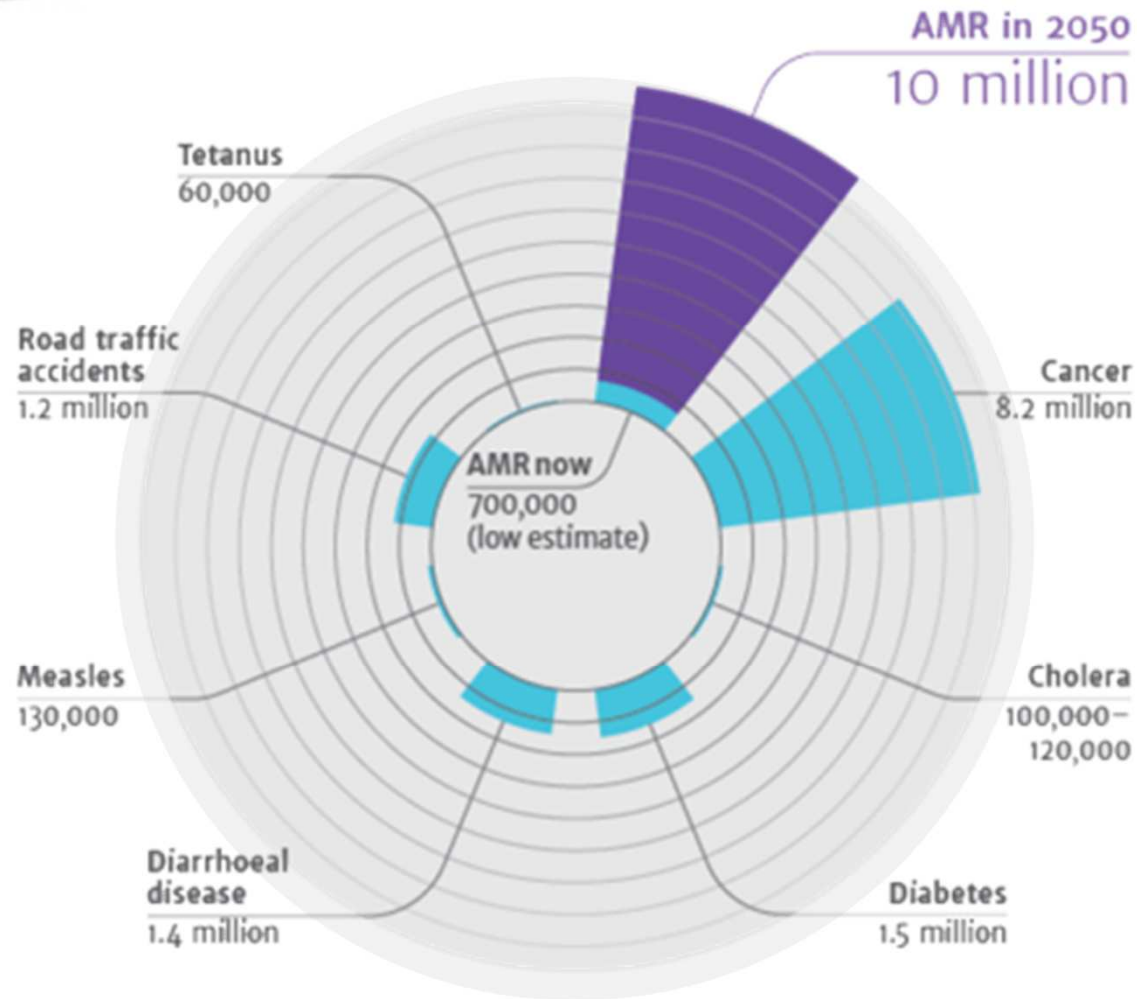
- 1 Introduction**
- 2 AMR at the human-animal interface**
- 3 Challenges**
- 4 Needs**
- 5 Some initiatives**
- 6 Collaborations**

# Deaths attributable to AMR every year



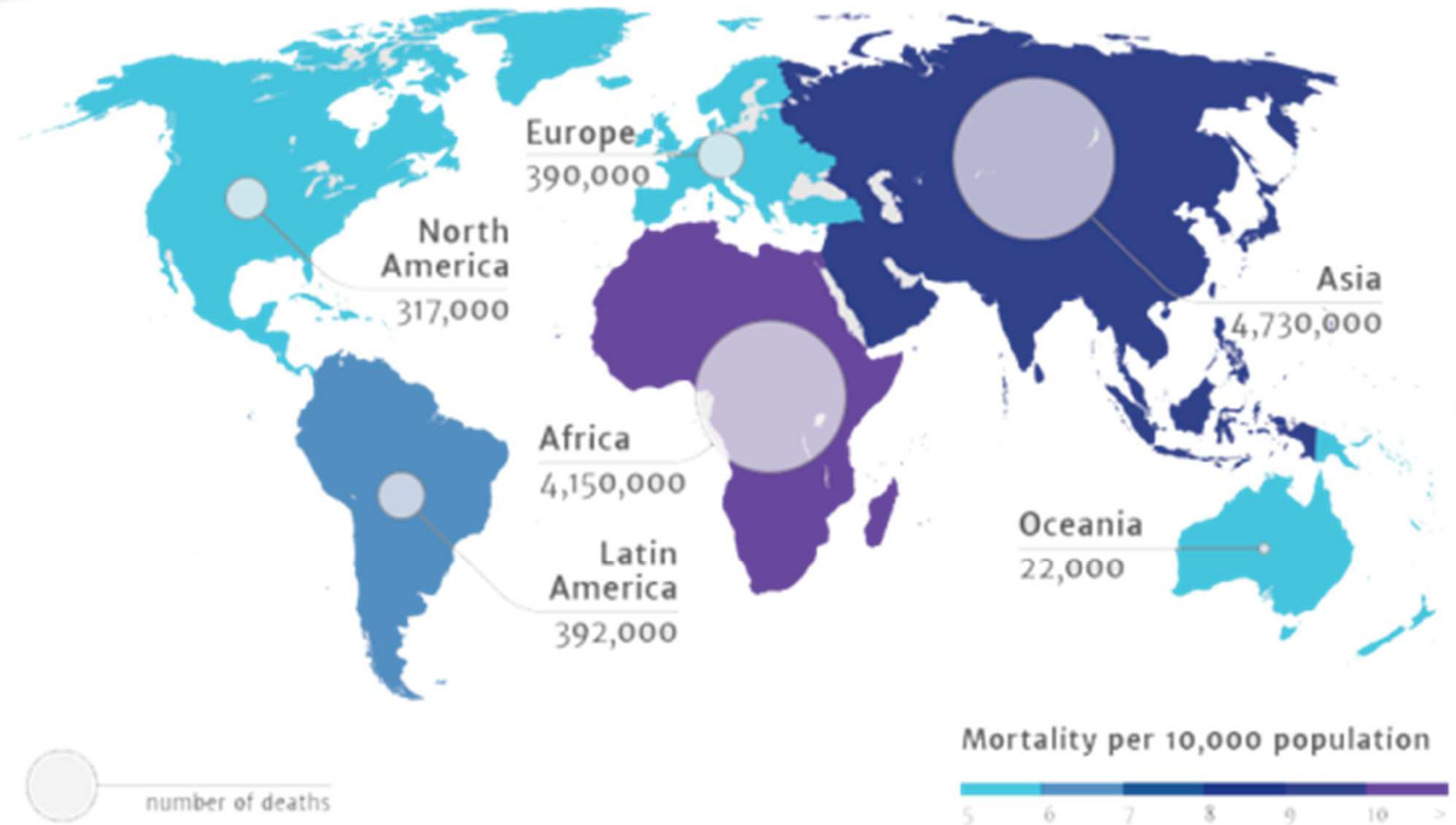
Source: *Antimicrobial Resistance: Tackling a crisis on the Health and Wealth of Nations. The Review of Antimicrobial Resistance, Chaired by Jim O'Neill (December 2014)*

# Deaths attributable to AMR by 2050



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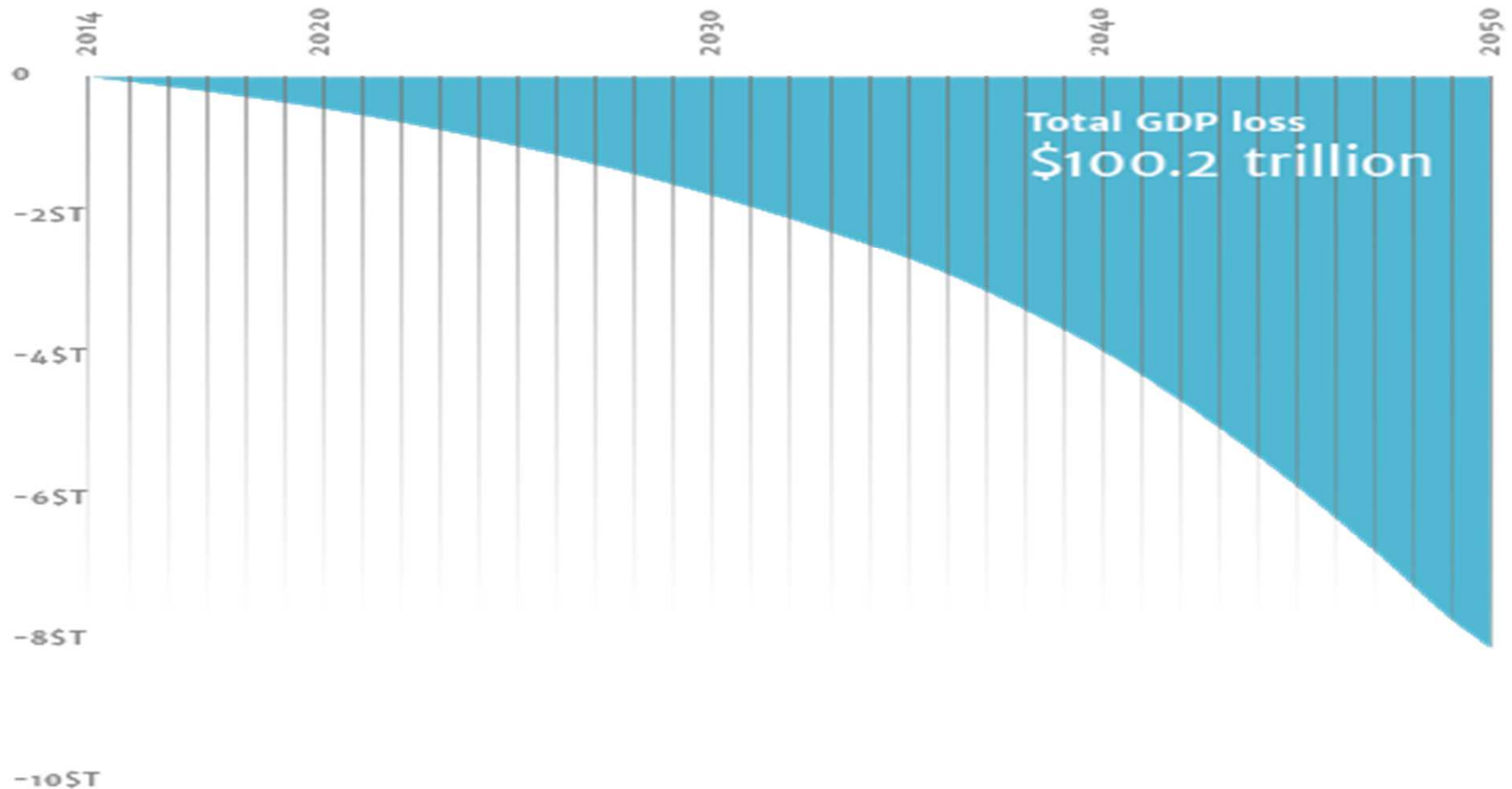


**4,752,000**



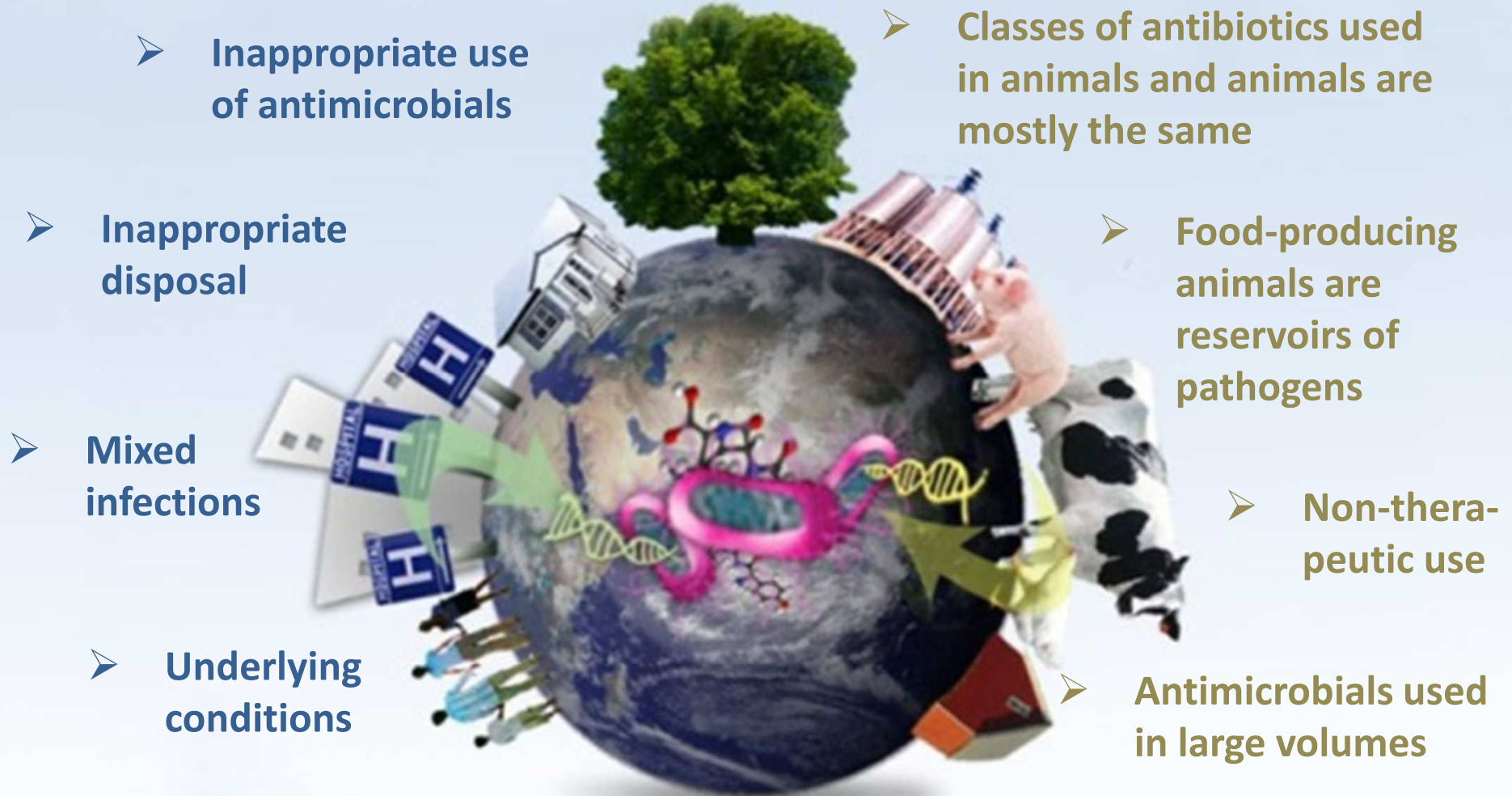
Source: *Antimicrobial Resistance: Tackling a crisis on the Health and Wealth of Nations. The Review of Antimicrobial Resistance, Chaired by Jim O'Neill (December 2014)*

# Impact on world GDP by 2050



Source: *Antimicrobial Resistance: Tackling a crisis on the Health and Wealth of Nations. The Review of Antimicrobial Resistance, Chaired by Jim O'Neill (December 2014)*

# AMR at the human-animal interface



**= BUILD UP AND COMPLICATION OF AMR ISSUES**



# AMR at the human-animal interface

Resistance events  
in humans



Resistance events  
in animals



Potential shared  
events

Shared resistance events



between humans and animals

# AMR at the human-animal interface

Human health sector will continue to need antibiotics to treat diseases in order to:

- Prevent spread of infection
- Contain diseases
- Improve quality of life

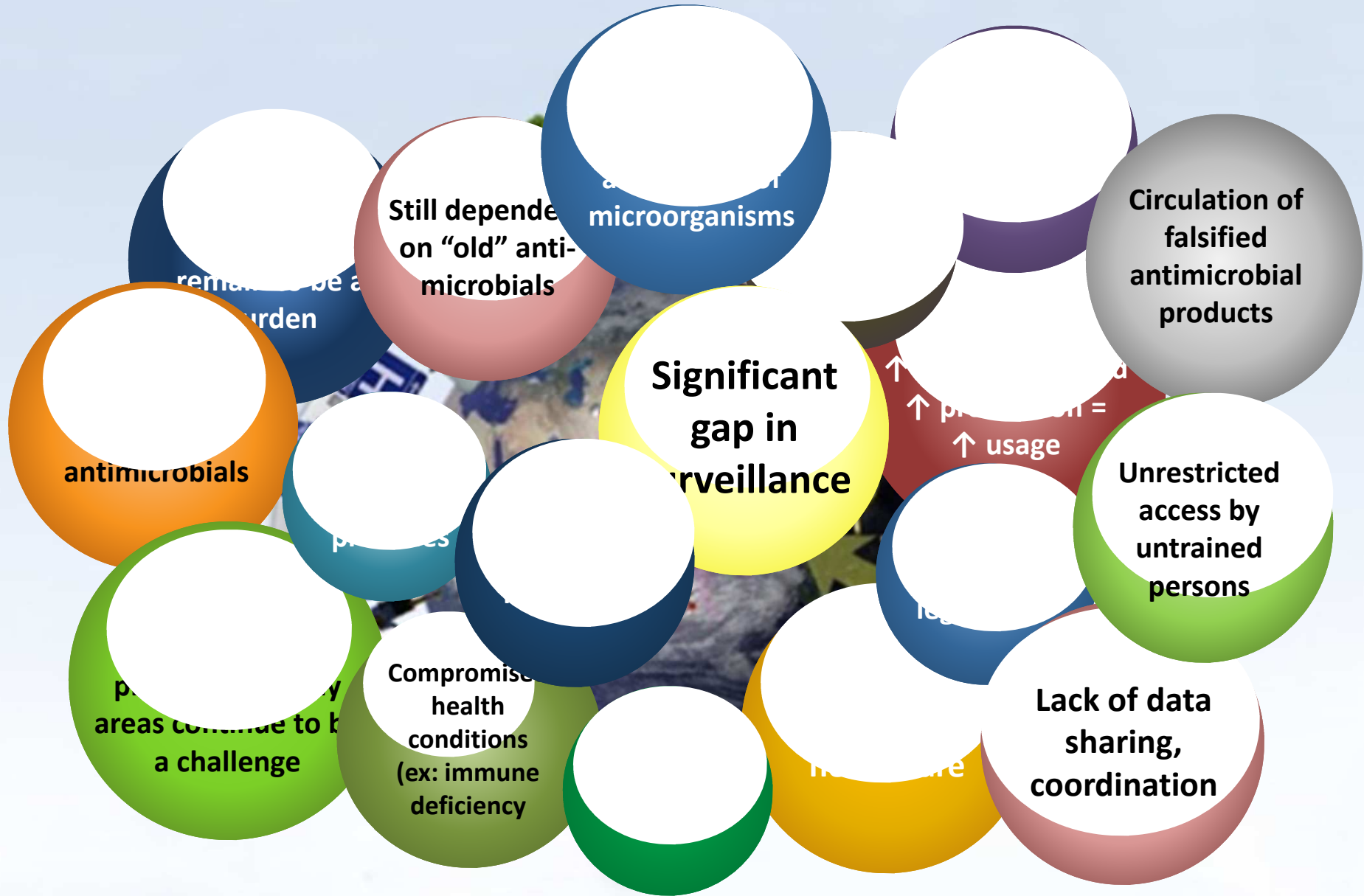
Animal health sector will continue to need antibiotics in animals in order to:

- Ensure food security
- Prevent animal suffering
- Protect public health



**= WE NEED TO PRESERVE ANTIMICROBIALS FOR CONTINUED USE**

# AMR at the human-animal interface | Challenges



# AMR at the human-animal interface | Challenges



Support for developing countries to implement good governance aspects including veterinary legislation

**Quality veterinary services, including the private sector and laboratories**

Involvement of all stakeholders

**Measures for controls on importation, production, distribution and use**

# AMR at the human-animal interface | Needs



More risk assessment and banning of non-priority practices in animals

**Awareness raising at all levels**

Animal health and welfare must be sustained

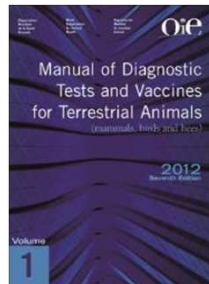
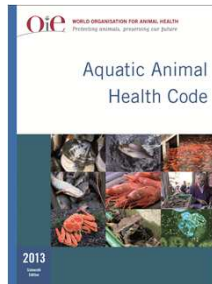
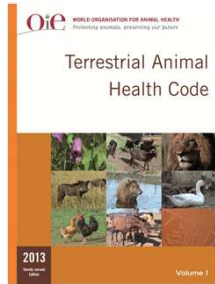
**Food security and food safety must be ensured**

■ Veterinary supervision for animal use is a priority

No universal optimal solution for the delivery of antimicrobials at farm level worldwide.

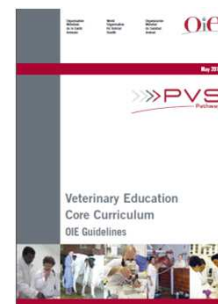
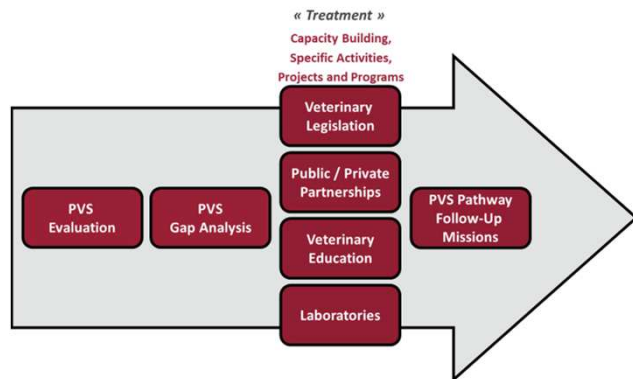
**The well qualified veterinarian is the solution**

# AMR at the human-animal interface | OIE Initiatives



OIE List of antimicrobial agents of veterinary importance

## International Standards (Terrestrial and Aquatic animals)



- National Focal Points
- Veterinary Education
- Veterinary legislation

## Strengthening Veterinary Professional Standards

# AMR at the human-animal interface | OIE Initiatives



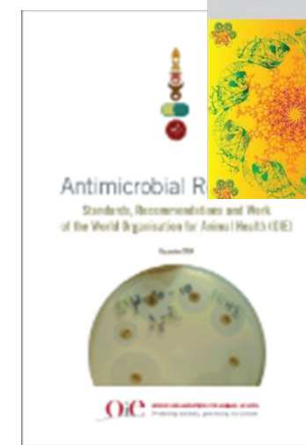
**OIE GLOBAL CONFERENCE  
ON THE RESPONSIBLE AND  
PRUDENT USE OF  
ANTIMICROBIAL AGENTS  
FOR ANIMALS**

**International Solidarity to Fight against  
Antimicrobial Resistance**

**Paris (France), 13–15 March 2013**



Recommendations

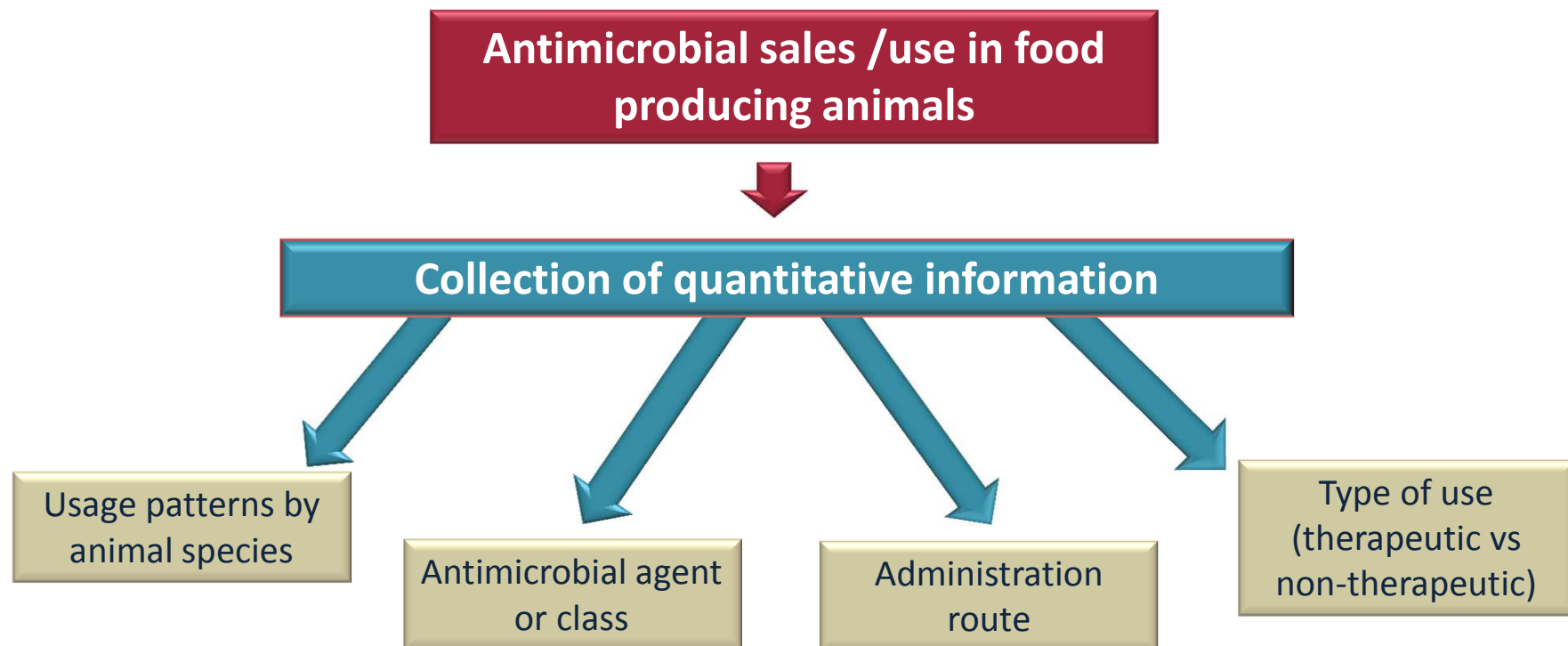


Scientific  
Review

Advocacy

# AMR at the human-animal interface | OIE Initiatives

Collection of baseline information and different reporting options





# AMR at the human-animal interface | Collaboration



**LEADING THE WAY ON ONE HEALTH**

**1995**  
FIRST ANNUAL  
TRIPARTITE  
MEETING

**2008**  
IMCAPI  
SHARM EL  
SHEIKH

**2009**

**2010**  
TRIPARTITE  
CONCEPT NOTE  
IMCAPI HANOI

**2011**  
HIGH-LEVEL  
TECHNICAL  
MEETING  
MEXICO

**2012**

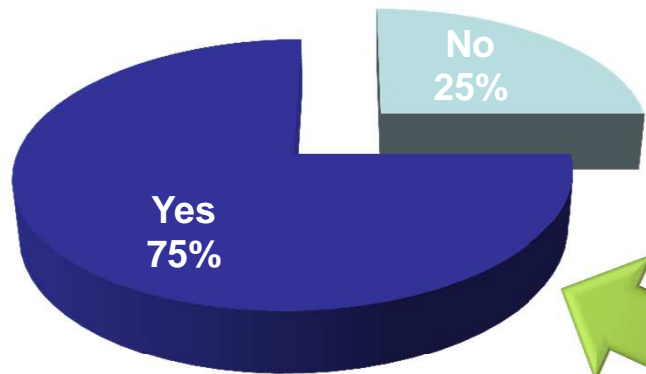
**2013**

FAO OIE World Health Organization

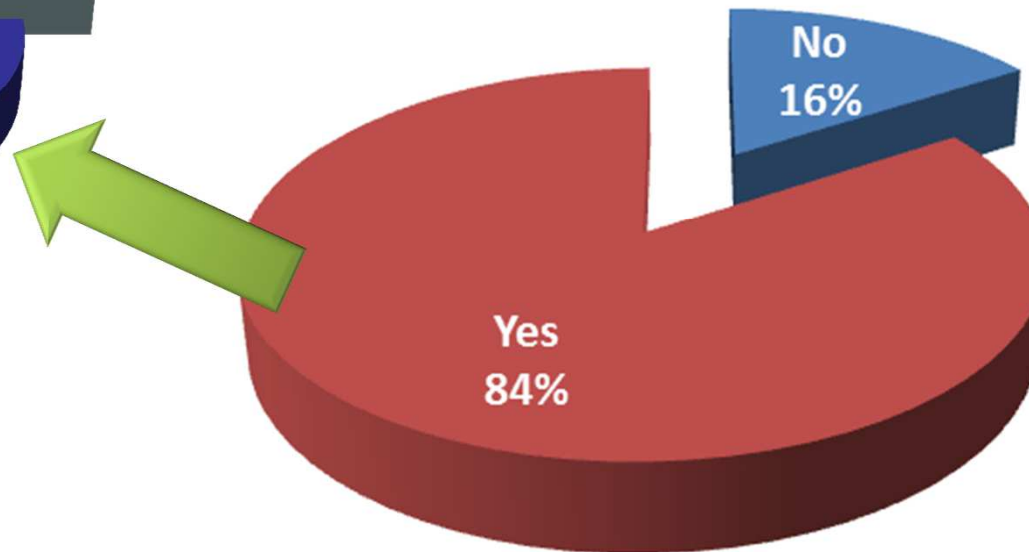
**ONE HEALTH TRIPARTITE COLLABORATION**

# AMR at the human-animal interface | Collaboration

**With legal recognition**



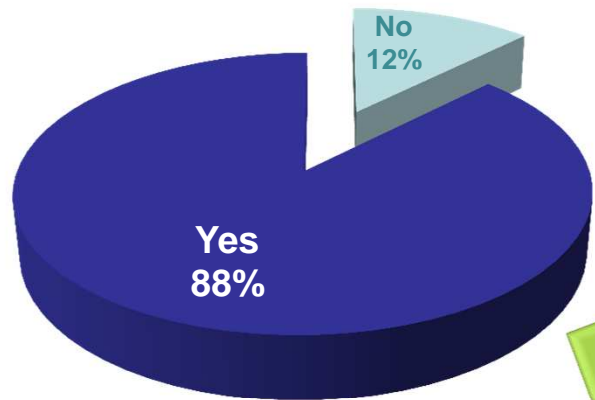
**Countries with National OH Mechanism**



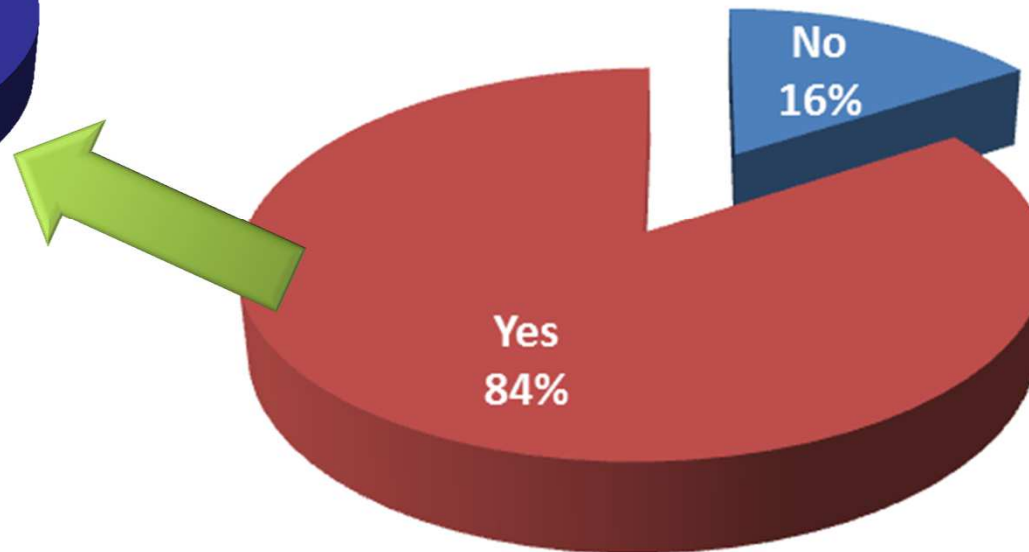
**Status of OH Coordination mechanism in Asia-Pacific Countries (n=19)**

# AMR at the human-animal interface | Collaboration

**Meets regularly**

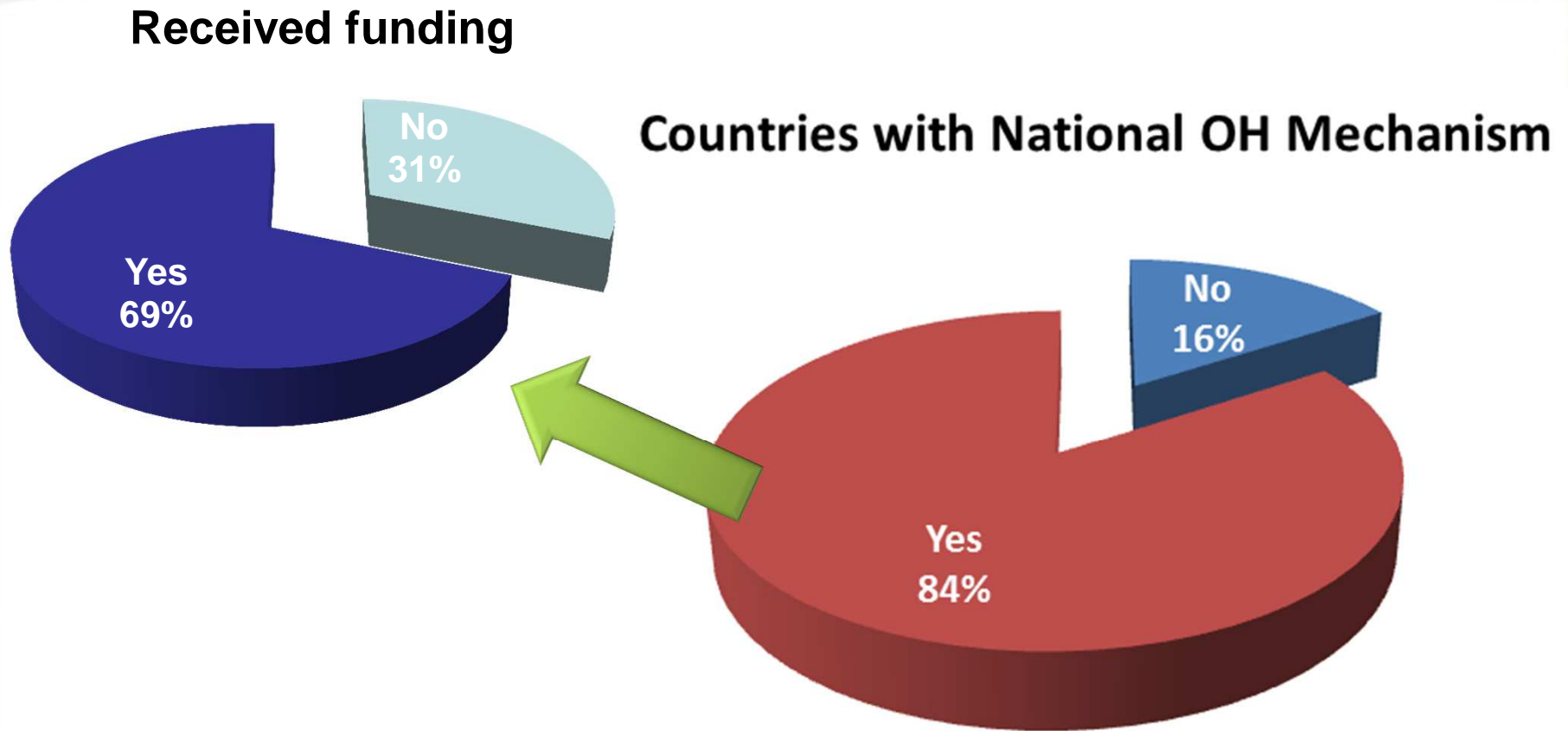


**Countries with National OH Mechanism**



**Status of OH Coordination mechanism in Asia-Pacific Countries (n=19)**

# AMR at the human-animal interface | Collaboration



**Status of OH Coordination mechanism in Asia-Pacific Countries (n=19)**

# AMR at the human-animal interface | Collaboration



**Figure 1.** Number of countries with actions on the 2013 Recommendations (n = 14)

# AMR at the human-animal interface | Collaboration

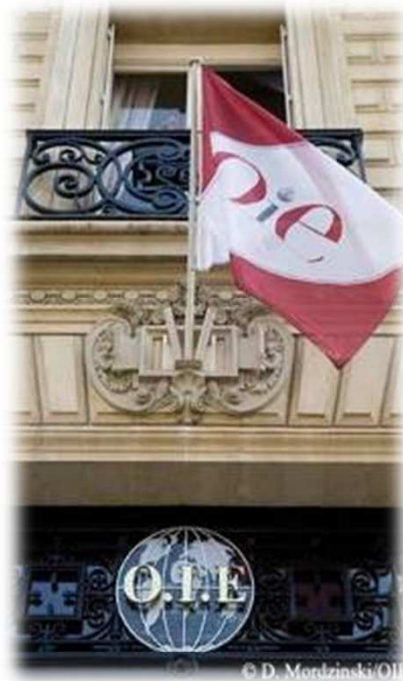
**Table 3.** Sectoral involvement of reported activities

Rec. No.	No. of actions reported	Sectors involved		
		Uni-sectoral	Human-Animal	Multi-Sectoral
1	15	0	5	10
2	19	1	12	6
3	13	0	4	9
4	9	4	3	2
5	12	4	5	3
6	12	1	10	1
7	16	4	11	1
<b>8</b>	<b>8</b>	<b>4</b>	<b>4</b>	<b>0</b>
9	14	2	10	2
10	15	1	11	3
11	15	1	0	14
	148	22 (14.9%)	75 (50.7%)	51 (34.5%)

**Table 4.** Funding of reported activities

Rec. No.	No. of actions reported	Funding Involvement			
		Gov't	Int'l	Others	Not id'd
1	15	15	7	0	0
2	19	17	11	7	0
3	13	12	8	5	0
4	9	7	6	0	0
5	12	9	7	0	1
6	12	10	8	0	0
7	16	15	12	11	0
<b>8</b>	<b>8</b>	<b>8</b>	<b>2</b>	<b>0</b>	<b>0</b>
9	14	7	9	0	1
10	15	15	10	3	0
11	15	10	6	5	1
	148	125 (84.5%)	86 (58.1%)	31 (20.9%)	3 (2.0%)

# Thank you for your attention!



**WORLD ORGANISATION FOR ANIMAL HEALTH**

*Protecting animals, preserving our future*