



# Better Training for Safer Food *Initiative*

*Antimicrobial Resistance One Health approach*

## INTRODUCTION TO ENVIRONMENTAL RISKS

# BTSEF

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Food safety

**Malaga, Spain – 25-28 November 2019**

# Less Awareness of Environmental Issues of AMR

Messaging for human health  
Improving, but little  
Engagement with  
environment



# Antimicrobial resistance (AMR) in the environment

- Lack of current understanding of the issue
- Lack of regulatory process
- Remains a priority for the EU

## European Commission

*Commission's 2011-2016 Action Plan against the rising threats from AMR was followed by a 2<sup>nd</sup> One health (**that included the environment**) Action Plan to support Member states in the fight against Antimicrobial resistance (AMR: started 2017).*

## Environment Action Plan to 2020

The 7<sup>th</sup> Environment Action Programme (EAP) will be guiding European environment policy until 2020. And it sets a vision where it wants the Union to be in 2050.

## Veterinary Medicines

CVMP strategy on antimicrobials 2016-2020, published on 6 October 2016.

The importance of the environment as a reservoir for antimicrobial resistance genes is now widely recognised ...."The CVMP acknowledges that further consideration should be given to the contribution of veterinary antimicrobials use in the environmental resistome....."

## EMA and EFSA Joint Scientific opinion on measures to reduce the need to use antimicrobial agents in animal husbandry in the European Union, and the resulting impacts on food safety (RONAFA) published in 24<sup>th</sup> January 2017.

“...Although an environmental risk assessment is required as part of a MA application, this does not consider the effects of the excreted antimicrobial residues on bacteria in the environment, or the contribution of resistance genes that are excreted and their dissemination throughout the environment. The need to assess this risk is under consultation by CVMP, although further research into this complex topic is required.....” (Sarmah et al., 2006, Wellington et al., 2013)

# ***European Union Strategic Approach to Pharmaceuticals in the Environment***



Brussels, 11.3.2019  
COM(2019) 128 final

Concentrations

Sources

Effects on the environment

Effects via the environment  
including AMR

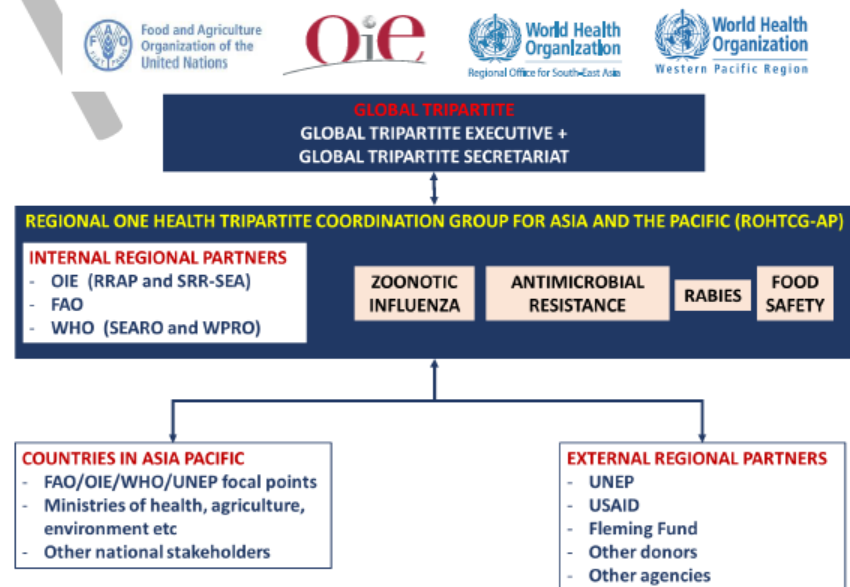
**COMMUNICATION FROM THE COMMISSION TO THE EUROPEAN  
PARLIAMENT, THE COUNCIL AND THE EUROPEAN ECONOMIC AND SOCIAL  
COMMITTEE**

**European Union Strategic Approach to Pharmaceuticals in the Environment**

# WHO, FAO, OIE

## Evolving Regional Tripartite Coordination (DRAFT)

- FAO, OIE and WHO, with UNEP (and other agencies in the future) are seeking to use their close links with human and animal health; food, agriculture and aquaculture; and environment to develop One Health responses to important and emerging health threats in the region



## Identification of focus areas

- Identification of knowledge and evidence gaps, in particular as regards the significance of different pathways for environmental releases of antimicrobials and APIs (developed and developing country)
- Consideration on an alternative risk assessment model which considers persistence of APIs and how they contribute to the emergence and spread of AMR
- Identification of the key data gaps relating to the (ERA) of antimicrobials, and their potential significance.
- Identify evidence to confirm if the presence of antimicrobials in the environment acts as reservoirs for transmission of AMR to humans and animals; and,
- Assess the potential control strategies/ risk management for pharmaceuticals to mitigate human health impacts in particular what the EU, WHO and Ministries of Health etc. can do.



Ongoing commitment from the EU to support the Member States, bring people together and strengthen its leading role – noting it is a global fight.

***So, my task today is help you to learn about the environmental aspects of AMR***



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## Better Training for Safer Food BTSF

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