Promoting One Health in Europe through joint actions on foodborne zoonoses, antimicrobial resistance and emerging microbiological hazards
One Health European Joint Programme (EJP) co-fund

by

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Innovating for the future of farming and rural communities
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anses
French agency for food, environmental and occupational health & safety
Investigate, evaluate, protect

**This meeting is part of the European Joint Programme One Health EJP.
This project has received funding from the European Union's Horizon 2020 research and innovation programme under Grant Agreement No 773830.**

What is the problem One Health EJP is trying to answer?

- **A POLICY DRIVEN RESEARCH PROJECT**
  - **Need to strengthen the links between human health, animal health and environmental aspects: One Health approach**
  - **Need to integrate surveillance and response capacities, preventive approaches, detection systems as well as preparedness and response to disease outbreaks**
  - **Need of collaboration in Joint Research and Joint Integrative Projects, as well as Training and Education activities throughout a consortium of national public mission organisations**
  - **Need to foster interaction between European, national authorities and stakeholders**
  - **Need to update policy makers on these achievements and, built on this knowledge, to take appropriate action**

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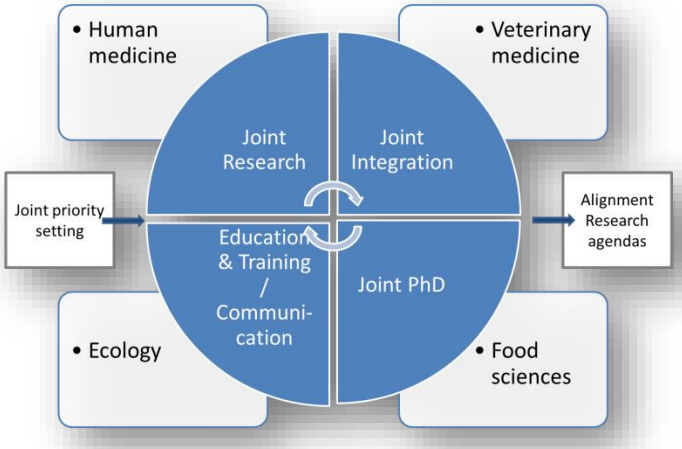
What are the main objectives of the One Health EJP ?

- **To develop a European network of public mission organisations**
- **Mainly with reference laboratory functions**
- **The EJP will integrate medical, veterinary and food scientists in the field of food and feed safety**



- **In order to improve research on the prevention and control of foodborne zoonoses, AMR et emerging infectious treats**
- **Whilst taking into account the public health concerns of consumers and other stakeholders throughout the food chain**

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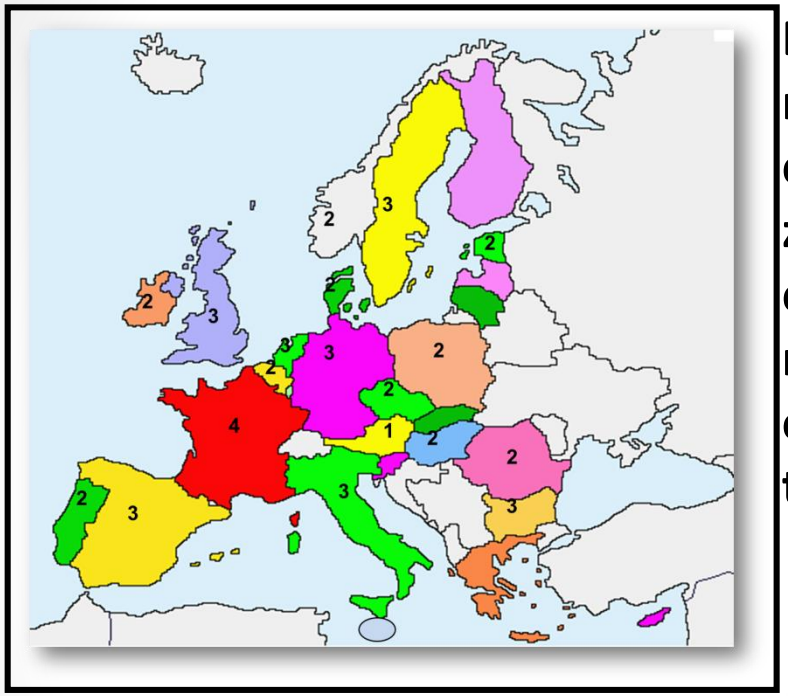
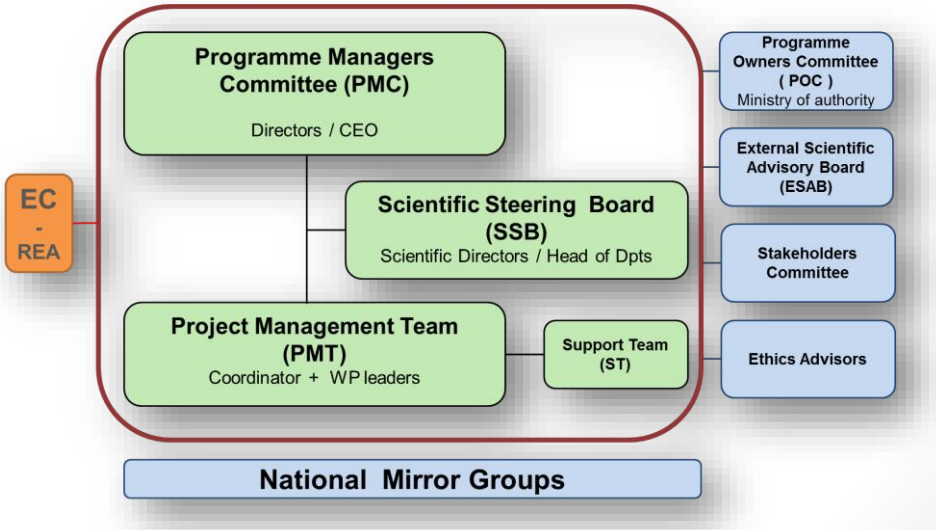
A network of 41 Research Institutes with mandates of Reference



Bringing together the major representatives of the European scientific communities in the field of foodborne zoonoses, antimicrobial resistance and emerging threats dealing with national mandates of reference and performing official research programmes in these three domains (41 partners, 19 MS)



Building a consortium with the official mandate from the Ministries of authority, in a co-fund dynamic

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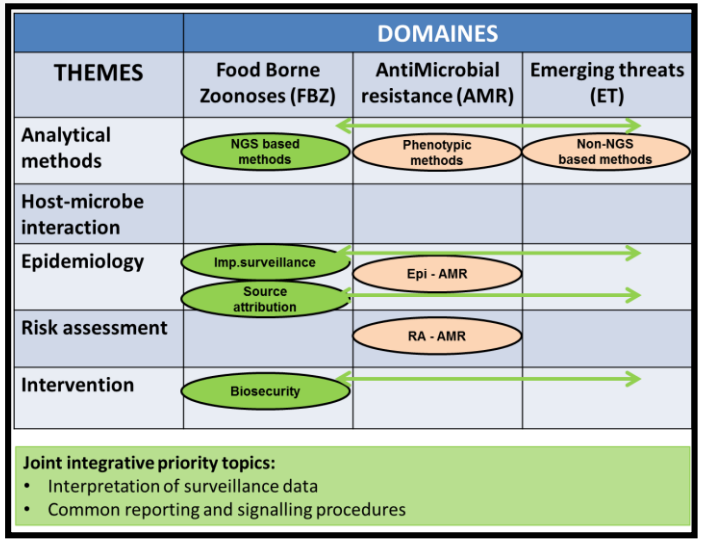
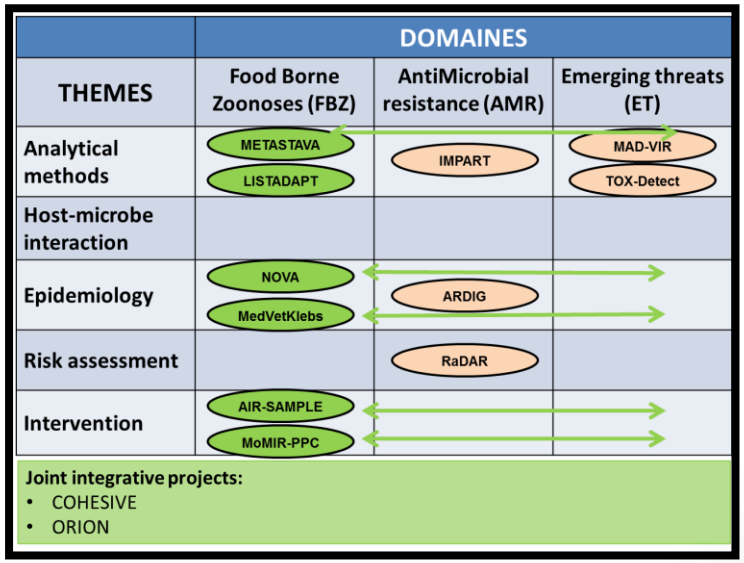
Network actions: Joint Programming and Joint Implementation



Implementation of scientific projects by creating synergies between the five thematic areas of expertise: detection and analytical methods, host-microbe interaction, epidemiology, risk assessment and socio-economic impact and intervention (13 Joint Projects running)



Development of food safety research in the European Union by training, education and communication (12 PhD grants planned)

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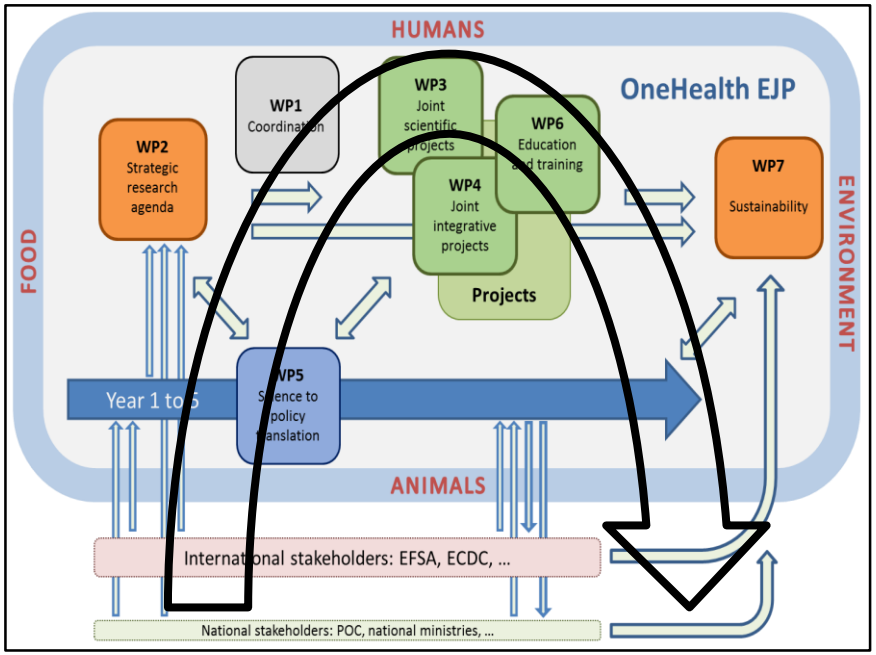
List of 13 Joint Research and Integrative projects started 2018

Topic ref	coord MS	coord Org	Projects Acronyme	Projects Title
IA-1	DE	BfR	ORION	One health surRveillance Initiative on harmOnization of data collection and interpretation
IA-2	NL	RIVM	COHESIVE	One Health Structure In Europe
AMR-1	NL	CVI	IMPART	IMproving Phenotypic Antimicrobial Resistance Testing
AMR-2	GB	APHA	ARDIG	Antibiotic Resistance Dynamics: the influence of geographic origin and management systems on resistance gene flows within humans, animals and the environment
AMR-3	NL	RIVM	RADAR	Risk and Disease burden of Antimicrobial Resistance
ET-1	FR	Anses	TOXdetect	Development and harmonization of innovative methods for comprehensive analysis of food-borne toxigenic bacteria, ie. Staphylococci, Bacillus cereus and Clostridium perfringens
ET-1	DK	SSI	MAD-VIR	Metagenomic Array Detection of emerging Virus in EU
FBZ-1	SE	SVA	NOVA	Novel approaches for design and evaluation of cost-effective surveillance across the food chain
FBZ-2	FR	Anses	LISTADAPT	Adaptive traits of Listeria monocytogenes to its diverse ecological niches
FBZ-2	BE	CODA-CERVA	METASTAVA	Standardisation and validation of metagenomics methods for the detection of foodborne zoonoses, antimicrobial resistance and emerging threats.
FBZ-3	DK	DTU	AIR-SAMPLE	A Low-Cost Screening Tool in Biosecured Broiler Production
FBZ-3	FR	INRA	MoMIR-PPC	Monitoring the gut microbiota and immune response to predict, prevent and control zoonoses in humans and livestock in order to minimize the use of antimicrobials
FBZ-4	FR	IP	MedVetKlebs	Klebsiella pneumoniae: from ecology to source attribution and transmission control

A policy driven EJP, acting with European Stakeholders



1. **Exchange and communication with all national and international stake-holders and in particular with the European Centre for Disease Control and Prevention (ECDC) and the European Food Safety Authority (EFSA)**
2. **Deliverables from the EJP activities should feed the approach of evidence based risk assessment and therefore the management of risks by the competent national and European authorities**

One Health EJP in frame with EC strategy

- **ONE HEALTH EJP**

Comprehensive measures will be promoted to fight diseases, in particular considering a One Health approach

- **RISK BASED AND POLICY DRIVEN EJP**

Disease prevention is better than cure, research into measures that can reduce the risk of introduction and spread of diseases

- **EJP RESEARCH ON INTERVENTION TOOLS**

Tools to control diseases need to be strengthened beyond the above (vaccines, alternatives treatments, biosecurity)

- **30% EJP RESSOURCES TO AMR PROJECTS**

Addressing the issues related to the uses of antimicrobials in the animal sector (cfr the EU One Health Action Plan against AMR)

- **20% EJP RESSOURCES TO EMERGING THREATS**

Dealing with the emerging risks and ensuring preparedness, wild animals are reservoirs of zoonotic agents

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Identified gaps and new direction expected

- **<u>PROCESS of the EJP</u>**
  - **New instrument, limited number of previous experiences**
  - **Based on mandates provided by the Ministry of authority**
  - **Programming actions and internal calls**
  - **5 years duration: too short, probably two times 5 years needed**

- **<u>CONTENT</u>**
  - **Need to take into consideration environmental parameters**

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Thank for your attention

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