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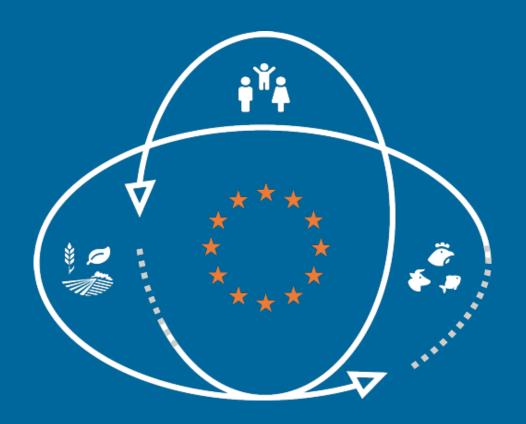
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Strategic Research and Innovation Agenda (SRIA)

Dolores Gavier-Widén

One Health EJP Final Meeting

Paris, 11-12 September 2023





Interactive document, follow the links for more information





SRIA: a strategy document for the sustainability of the OHEJP



Towards collaborative and coordinated, multidisciplinary networks where surveillance, laboratory procedures, risk assessment methodologies and intervention approaches are aligned across sectors and across borders, thus maximising the health of animals, humans and the environment





Introduction-The past

1 INTRODUCTION

1.1 The past: background and context of the One Health EJP

The main objective at the start of One Health EJP was to enhance the prevention, detection and control of zoonoses and antimicrobial resistance







Introduction-The past

- Threat of zoonoses and antimicrobial resistance
- A holistic approach to prevention, detection and control
- ➤ The role of the Med-Vet-Net Association at the initial stages of the One Health EJP
- > Pursuing common goals
- The vision of One Health EJP-Towards a shared landscape
- ➤ The overarching ambition..."creating a sustainable European framework"
- > Outputs and outcomes of the One Health EJP
- **▶** The One Health EJP network
- Dissemination of the One Health EJP outcomes







OHEJP specific objectives



6 specific objectives





Introduction-The present

- The present: current challenges and opportunities-Policy
- The need of international collaboration
- > The environmental pillar of One Health and policy







Introduction-The present

- **▶** The COVID-19 pandemic
- One Health approach and preparedness against possible pandemics
- Food safety and food security
- > State-of-the-art in One Health science and technology
- Society
- > One Health EJP progress and challenges



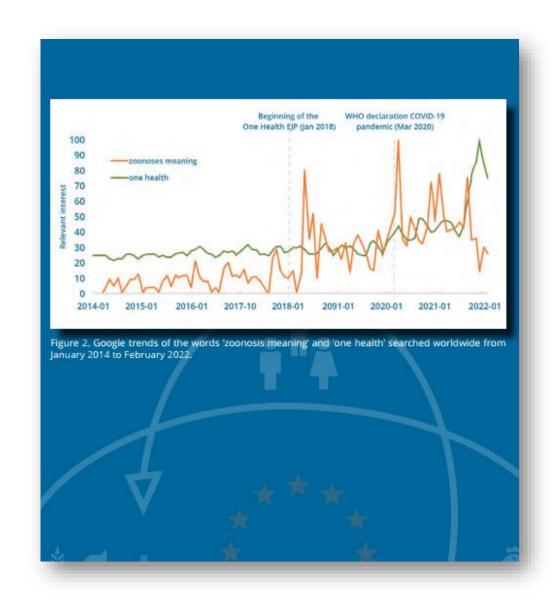






Introduction-The future: actual needs of stakeholders

- > Citizens' priorities
- Policy needs
- Globalisation and international cooperation



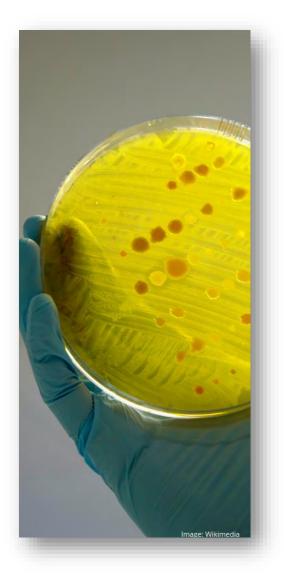




Introduction-The future

- Environment, ecosystem health and wildlife
- Climate chang
- AMR in the environment, with focus on water
- > One Health approach to tackle AMR









Introduction-The future

- Sustainable food systems
- Emerging trends: edible insects, synthetic meat, synthetic biology
- Harmonisation of methods and data between sectors
- Animal welfare and new human animal interrelationships
- > Sharing of information, communication with the public, and science to policy translation







Objectives

Updated specific OHEJP objectives

Objective 1. To bring together the major representatives of the European scientific community in the domains of FBZ, AMR and ET

Objective 2. To implement scientific projects related to the prevention and control of FBZ, AMR, and ET

Objective 3. To stimulate scientific excellence by co-funding dedicated joint research projects

Objective 4. To foster the harmonization and standardization of the reference methods and tests by bringing together scientific and technical expertise in the domains of FBZ, AMR and ET

Objective 5. To exchange and communicate with all national and international stakeholders

Objective 6. To promote and develop food safety research in the EU by training, education and communication

Additional objectives





One Health EJP addresses the UN Sustainable Development Goals (SDGs)







Expected impacts

- ✓ Society
- ✓ Science and technology
- ✓ Policy
- ✓ Economy

- Increased food safety
- Improved public health
- Improved animal health
- Improved One Health
- Advancement of science
- Increased networking, collaboration and knowledge sharing
- Bringing stakeholders together
- Support to related strategies





Priority research and integrative topics

- Priority topic AMR
- Priority topic One Health





JPIAMR	PAHW
Discovery of new antimicrobials and therapeutic alternatives, and the improvement of current antimicrobials and treatment regimens for humans	Discovery of therapeutic alternatives, and the improvement of current antimicrobinand treatment regimens for animal diseases
Find new antimicrobials and targets	Promote the development of novel antimicrobial compounds Repurpose existing antimicrobials (look at MPC etc.)
Develop new chemical entities and scaffolds	
Improve pharmacokinetics and pharmacodynamics of antimicrobials, including neglected antimicrobials	• Improve pharmacokinetics and pharmacodynamics of antimicrobials for efficient treatment of diseased animals of different livestock and companion animal spec
Use personalised medicine and artificial intelligence to improve therapies	Use of Artificial Intelligence in mathematical modelling to improve therapies including the farming environment (e.g. SMART farming) and veterinary hosp
Develop alternatives for antimicrobials	 Develop alternatives to antibiotics Test alternatives to antimicrobials to treat diseased animals with a focus on for validation that new alternatives work in the field
Develop treatment protocols based on combination therapy using new and existing antimicrobials	 Develop alternative treatment schedules for antimicrobials considering also treatment of groups of livestock for metaphylaxis and long-term efficiency of treatment schedules with the aim of prudent use Develop treatment guidelines for prudent use of AM in livestock and comparanimals
Develop policy measures and economic stimuli to minimise barriers for the development, availability and introduction of new therapies and alternatives	
• Assess how regulation modifies and influences production and use of antimicrobials	





Sustainability plan

Aim: "to guide and/or recommend actions that will result in maintaining major outcomes of the One Health EJP so that the benefits will persist in the future..."



SUSTAINABILITY

6 SUSTAINABILITY PLAN 2021-2030

The aim of the sustainability plan for 2021-2030 is to guide and/or recommend actions that will result in maintaining major outcomes of the One Health EJP so that the benefits will persist in the future, after the end of the project in 2023. The research and integrative projects have advanced the state-of-the-art outputs in the domains of foodborne zoonoses, antimicrobial resistance and emerging threats, and created novel tools and solutions, paving the way to continuing innovation. The many outcomes delivered by the One Health EJP have made and will continue to make important improvements in the animal health, public health and food safety arenas in Europe. Moreover, expanding the involvement of additional One Health fields and related initiatives will all together contribute to build a stronger and truly integrated One Health in Europe. The actual needs of the EJP's Stakeholders have been central to the prioritisation of the One Health EJP activities, efforts have been directed to address these evolving requirements and this is still the focus of the sustainability strategies outlined in this SRIA.

For any sustainability mechanism to be effective, however, it will be important to put emphasis on equity and fair representation, as One Health collaboration, being it cross-border or cross-sectoral, is based on trust. In addition, there is increasing realisation that health threats affect many aspects of society, therefore fair representation implies going a step further from simple balance among the classical One Health triad.







Key instruments for the sustainability of the One Health EJP

The MedVetNet Association

European Partnerships: Animal Health & Welfare, Sustainable Food Systems, Pandemic Preparedness, One Health AMR, Biodiversa

One Health Initiatives and initiatives dealing with zoonotic infections: strategic links established and developments (OHEJP), Global One Health initiatives: One Health High-Level Expert Panel (OHHLEP)

- European funding of One Health research, development, innovation, networking and training
- Dissemination instruments





Priority outcomes, activities and actions of the OHEJP to be sustained and further developed in the future

JOINT INTEGRATIVE PROJECTS	(IID) STRATEGIC											
(JIP) STRATEGIC ACTIVITIES		FOODBORNE ZOONOSES		ANTIMICROBIAL RESISTANCE (AMR)		ICE E	EMERGING THREATS					
MATRIX: solutions to support and advance One Health surveillance	Design and implementation	AIR-SAMPLE: air filters to de Campylobacter in broiler ho										
COHESIVE: pathway analysis of detection of outbreaks	of surveillance activities	NOVA: code to model diseas and explore disease surveilla options	e spread nce									
OH-HARMONY-CAP: diagnostics,		METASTAVA: Guidelines for		IMPART: updated	l and improved	TOX-De	tect: databas	e of protein				
laboratories capabilities, capacities and interoperability collection tool		sequence based metageno disease surveillance	JOINT INT	EGRATIVE PROJECTS	INTEGRATIVE STRATEGIC			JOINT RESEARCH PR	ROJECTS (JRP)			
				(JIP)	ACTIVITIES	FOODBORN	E ZOONOSES	ANTIMICROBIAL RESIS	STANCE (AMR)	EMERGING THREATS		
		TOXOSOURCES: Hamonised I for detecting <i>Toxoplasma go</i> contamination in fresh pro		pase of strains and r quality control analysis ty	Reference material and data	LISTADAPT: Algori strains to explore strains circulating	the diversity of	ARDIG: collection of la of genomes that can b reference material for confirmation	oe used as			
	Laboratory methods		and informa	nework for understanding ation exchange - One eillance Codex		ADONIS: decision determine causes interventions in he infections	and best	ARDIG: Comparibility be antimicrobial usage an to improve AMR surve	nd AMR data			
			of SARS-CoV	odels for risk assessment /-2	Interpretation of surveillance data	BeONE: integrative foodborne pathog	e solutions for ens surveillance	FULL-FORCE: data on p structure and variabili resistant organisms				
			stores geno	nformation system that mics data and metadata as from different lemo)		DISCoVeR: models attributing humar infections to anim environment sour	n foodborne al, food and					
								TOXOSOURCES: n uate the relative of different sources gondii infections	ontribution of			
						MedVetKlebs: Mult Klebsiella Pneumoni food products						
			zoonoses; Fo application to items; quan application	isk Analysis System for oodChain-Lab web o trace suspicious food trative shiny Rrisk assessment toolbox; risk Decision Support Tool	Cross-sector communication of data	BIOPIGEE: educat activities	ion and training	FULL-FORCE: tool box Molecule Real Time se AMR surveillance	for Single equencing for			
						NOVA: mathemat data combination One Health syndr systems	and analysis for	FED-AMR: new data or extracellular DNA as a and on AMR spread in environment	n AMR source			
			to improve of Glossary, Or	itions for interoperability data FAIRness - OHEJP ne Health Linked Data alth Surveillance Ontology				RaDAR: modelling met for AMR specific sourc disease burden	thodology e attribution,			
				review on economic coodborne zoonoses	Action (prevention and	MoMIR-PPC: Preve Measures against poultry production	Salmonella at the n level					
					response)	BIOPIGEE: biosecu	irity measures for					

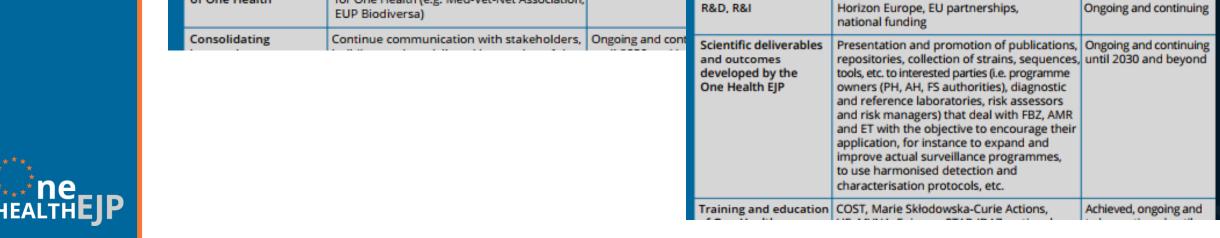




Sustainability plan

and the control of th				CD VCT NCT				
One Health EJP outcome or activity to be sustained	How the outcome or activity can be sustained in the future, instruments and opportunities that can be applied to achieve sustainability	Timeline		* IVI	ASSOCIATION			
COLLABORAT	TION, COMMUNICATION, ADVOCACY A	ND POLICY						
The One Heath EJP network	Med-Vet-Net Association	Ongoing and continuing until 2030 and be		515	How the outcome or activity can be	Timeline		
	consortium/network, possibly with funding from Horizon Europe or a Coordination	Initiated in 2022	outco	Health EJP ome or activity sustained	sustained in the future, instruments and opportunities that can be applied to achieve sustainability			
	and Support Action		COLLABORATION, COMMUNICATION, ADVOCACY AND POLICY					
European Animal Health & Welfare Research, Med-Vet-Net Association	Ongoing and cont until 2030 and be depending on the initiative		ng towards SDGs	Promote scientific and technological advance for the sustainable development of Europe and the protection and improvement of the quality of the environment. Website to Med-Vet-Net Association				
				munication to	Website to Med-Vet-Net Association	From 2023 and beyond		
Promoting the environmental pillar	Any (future) One Health initiative should stress the importance of the environment	Ongoing and cont until 2030 and be						
of One Health fo	for One Health (e.g. Med-Vet-Net Association, EUP Biodiversa)		Scientific Activities					
			R&D,	R&I	Horizon Europe, EU partnerships, national funding	Ongoing and continuing		
Consolidating	Continue communication with stakeholders,	Ongoing and cont	Scient	tific deliverables	Presentation and promotion of publications,			









Dissemination

Areas for Dissemination

- Dissemination Sustainability
- > Target Audiences

AUDIENCE	INFORMATION	COMMS FUNCTION	COMMS OBJECTIVES	COMMS CHANNEL
One Health EJP Partners	All internal and external communications.	Maintain good relationships and lines of communication.	Foster integrative and collaborative work approaches. Demonstrate One Health EJP impact/scientific outcomes. Demonstrate use of funds.	Website, social media, newsletters, email marketing, editorial, conferences, PR.
Stakeholders	Internal and external (relevant) communications.	Maintain good relationships and lines of communication.	Transparency of project and progress. Demonstrate use of Grant. Demonstrate One Health EJP impact/scientific outcomes.	Website, social media newsletters, editorial, conferences, PR.
Policy Makers	External communications.	Brand awareness. Foster relationships to grow network. Sustainability of project. To affect change.	To inform and open dialogue. Demonstrate One Health EJP impact/ scientific outcomes.	Social media, website, external newsletter, editorial, PR.
International bodies	External communications.	Brand awareness. Foster relationships.	To inform.	Social media, website, external newsletter, editorial, PR.
Scientists -external	External professional communications.	Brand awareness. Foster relationships.	To inform.	Social media, editorial website, external news email marketing, networking, conferences, PR.
Healthcare Professionals -external	External professional communications.	Brand awareness. Foster relationships.	To inform.	Social media, editorial website, external news email marketing, networking, conferences, PR.
Students, Early Career Researchers	External communications.	Brand awareness. Create the next generation of One Health EJP collaborators and One Health scientists.	To inform, educate and inspire.	Social media, website editorial, email, marketing, networking conferences.









Thank you for your attention!







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