



EFSA Advisory Forum
2 December 2021

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European Commission



The presentation shall neither be binding nor construed as constituting commitment by the European Commission



Agriculture and Rural Development

Sustainable livestock systems: challenges ...and opportunities



Commission

Topics most relevant to livestock in Cluster 6 WP 2021-2022



Destination 1 Biodiversity and ecosystem services

HORIZON-CL6-2022-BIODIV-02-03-two-stage: Resilient beekeeping



Destination 2 Sustainable food systems from farm to fork

HORIZON-CL6-2021-FARM2FORK-01-05: Animal welfare 2.0 (€8Mio)

HORIZON-CL6-2021-FARM2FORK-01-06: **Vaccines** and diagnostics for priority animal diseases (2x€6Mio)

HORIZON-HORIZON-CL6-2021-FARM2FORK-01-18: **One Health approach** for Food Nutrition Security and Sustainable Agriculture **(FNSSA)** (3x6€Mio)



HORIZON-CL6-2022-FARM2FORK-01-03: Enhancing biosecurity in terrestrial livestock production (2x€5Mio)

HORIZON-CL6-2022-FARM2FORK-01-15:Support for **international research** on infectious animal diseases (€3Mio)

HORIZON-CL6-2022-FARM2FORK-02-03-two-stage: Ecology of infectious animal diseases (2x€6Mio)



Destination 3 Circular and bioeconomy



Destination 4 Clean environment and zero pollution



Destination 5 Land, oceans and water for climate action

• HORIZON-CL6-2021-CLIMATE-01-06: **Resilient livestock** farming systems under climate change (€12Mio)



Destination 6 Resilient, inclusive, healthy and green rural communities



Candidate European Co-Funded Partnership on Animals Health and Welfare (PAHW)

Scope:

- Animal infectious diseases, including impact on public health; animal welfare
- Livestock (terrestrial and aquatic animals); wildlife and companion animals where relevant

• Aim:

- Reinforce preparedness against upcoming and emerging threats for both animals and humans
- Promote and strengthen animal welfare
- Generate innovative methodologies and products
- Support evidenced based policy making
- Strengthen ERA and leverage resources in animal health and welfare

Impact:

- Help reduce socio-economic and environmental impact of animal infectious diseases
- Improve animal welfare
- Protect the economic viability of farms
- Produce safe food and be beneficial for public health













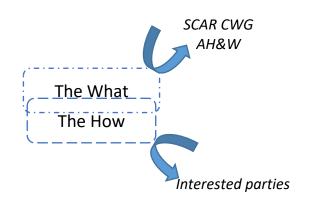




PAHW: co-creation under umbrella of SCAR CWG AHW

- 4 Working Groups on 'What' (themes, activities), to feed into PAHW Dossier + SRIA
 - WG Surveillance: Y Van der Stede (EFSA) and W van der Poel (EPIZONE)
 - WG Diagnostics: P Jokelainen (OHEJP) and M Beer (CWG)
 - WG Farming Practices: K Möller (ICRAD, farming) and V Michel (Animal Welfare)
 - WG Treatment & Vaccines: S Arnouts (Industry perspective) and A Morrow (IRC)
 - Plus transversal working groups: WG AMR (see One Health EJP and JPIAMR): A Käsbohrer and R La Ragione (OHEJP); WG Fish (see SCAR Fish): M Bagni and G Arcangeli
- Interested parties working on 'How' (organization)
- Draft Dossier version May 2020:

https://scar-europe.org/images/AHW CWG/Documents/Partnership Animal-Health-Welfare.pdf







Timeline CoF partnerships for WP 2023-24

Partnership proposal

Draft by end Dec 2021 -> RTD review
Approved version January 2022
Commitment letters sent Jan/Feb 2022

If Member States do not commit early 2022, there will be no PAHW!

SRIA

SRIA process start end 2021 SRIA finalised end 2022

Horizon Europe Work programme 23-24

First draft Jan 2022 ISC ready version with topics mid-2022 Publication end 2022/ beginning 2023

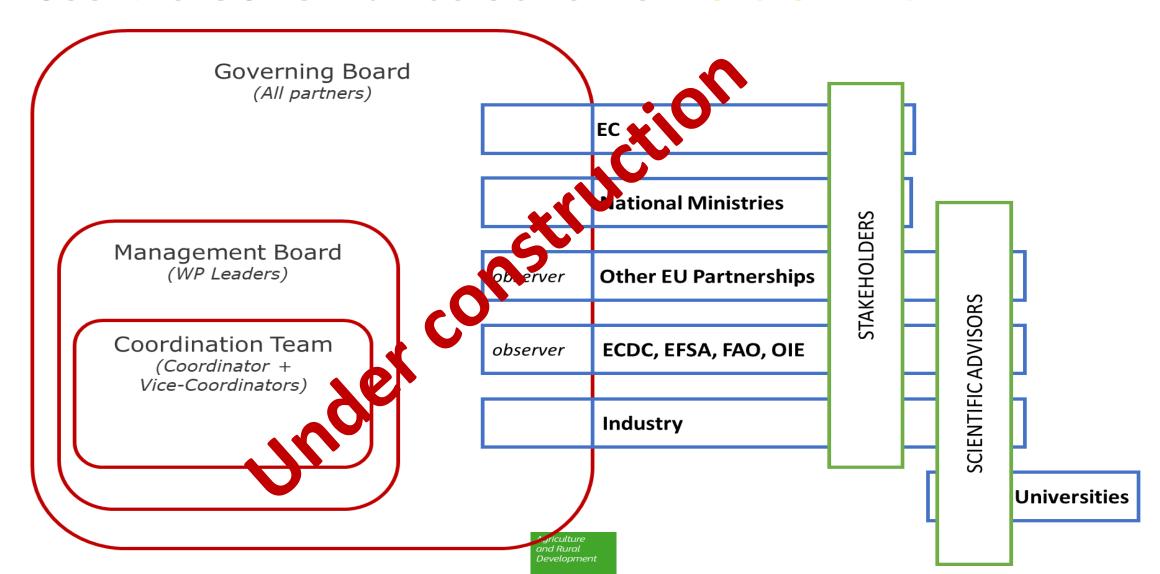
Application & GAP

Application by .. 2023 Grant by .. 2023-... 2024: *SRIA* to be adopted by partnership





Possible Governance scheme: role of EFSA?





ANNEX

Background slides for information that will not be presented during meeting



Policy framework







































Key EU targets & objectives to be achieved by 2030

-50% chemical pesticides

-20% chemical fertilizers

-50% sales of antimicrobials to livestock

...and many others

Proposal for a revision of the existing animal welfare legislation, including on transport and slaughter (2023)

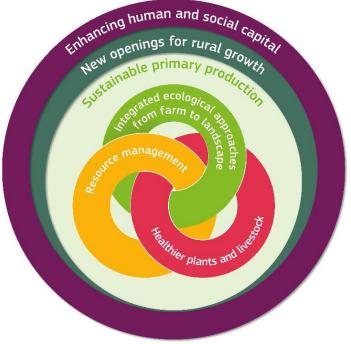
Proposal for a revision of the feed additives Regulation to reduce the environmental impact of livestock **farming (2021)**

Revision of Sustainable Use of Pesticides Directive and enhancement of IPM (2022)



Sustainable livestock in AGRI R&I strategy and H2020









Also:



https://ec.europa.eu/programmes/horizon2020/en/news/final-paper-strategic-approach-eu-agricultural-research-and-innovation





PAHW: WHY addressing Animal Health and Welfare

- > AH&W a Global Public Good
- > Livestock play a major economic role (€168 billion annually for EU)
- > 20% of animal production loss due to animal diseases worldwide (OIE)
- > Increasing threats from **exotic diseases**, notably vector-borne diseases
- ➤ Increasing rate of emergence of **novel (zoonotic) pathogens**; jumps between species (SARS, SARS-Cov2)
- > Major crises **disturbing trade** and jeopardising **consumer confidence** (BSE, ASF).
- > One Health: Zoonoses and Antimicrobial resistance (AMR) are serious health threats
- Societal concerns about the conditions under which animal production takes place and the level of animal welfare





PAHW: policy/regulatory environment

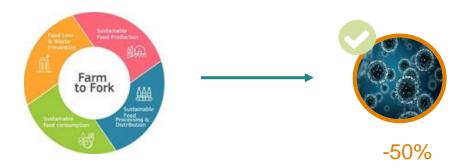
SDGs:





Green Deal, notably Farm to Fork strategy:

sustainable agriculture
target on reduction AM sales
review of animal welfare legislation



EU Animal Health and Welfare regulatory framework

EU One Health Action Plan against AMR





Vision of the Partnership

The European Partnership Animal Health & Welfare aims to build a strong research and innovation framework strengthening Europe's capacity to raise healthy animals with increased welfare standards, in order to enhance the societal, economic and environmental sustainability of livestock and the secure production of safe, nutritious food, thus contributing to the protection of the health of animals and, where appropriate, of humans.

The Partnership will coordinate public-public and public-private collaboration of all major actors involved in animal health and animal welfare in Europe by coordinating high-quality research, developing innovative methodologies, tools and animal health and welfare products, and supporting science based policy making.

PAHW dossier v3.0, October 2021





PAHW: WHAT

 Knowledge development: pathogens, vectors, genome, etc.

New technologies and 'omics'

• (Big) data, data management & -sharing

Diagnostics

Farm practices

Aim: to build a strong research and innovation framework strengthening Europe's capacity to raise healthy animals with increased welfare standards

- Biosecurity, good practices, compliance
- Wildlife
- Antimicrobial Resistance



PAHW: draft Intervention Logic

Societal: Vulnerable sector with a societal recognition to be improved

Technological: New technologies and innovation opportunities, but need to overcome practical locks

Environmental: Negative impact of climate change, chemical contaminants incl. antimicrobials to be considered

Economic: Return on investment to be enhanced to stimulate funding

Political: Animal health,
welfare and food
regulations at EU level,
Tripartite Action Plan
AMR, Green Deal, new
CAP, etc. enforce rigid
restrictions

To better control animal infectious diseases and reinforce the preparedness of all actors

To place animal welfare at the foreground of livesto k p pauction

To enhance cross-sector cooperation and collaboration to prevent the spill-over from animals, food and the environment to humans in a one health perspective

To facilitate the cooperation between all actors on the responsiveness, monitoring, prevention and treatment of animal infectious diseases

o st research and to increase the end nce-base to develop products and old for animal infectious disease and animal welfare monitoring and control

To strengthen the communication and dissemination of project outputs to scientific, societal, political and private stakeholders

Surv. System animal health Surv. System animal welfare Suppo m vitorin animal health Support monitoring animal welfare Risk Assessment animal health

Risk Assessment animal welfare Prevention against AID on farm

Prevention regarding animal welfare on farm

ment of priority animal infectious diseases

accine

tives for antimicrobial use

Socioeconomic initiatives

DRIVERS

GENERAL OBJECTIVES



Output of PAHW thematic Working Gropus

PAHW Working Group 1 Surveillance

Yves Van der Stede





WG1, Surveillance, Epidemiology & Risk Analysis

Aims

- Provide new solutions and strategies for integrated animal and aquatic health surveillance and monitoring -- for different purposes
- Defining practical improvement strategies and reliable on-farm monitoring systems for livestock welfare
- Increase epidemiological knowledge

Expert profiles

± 10 experts (BE, NL, IT, SE, ES, EE, DK, EL, DE, FR)

Themes



Wildlife Surveillance



Genomic Surveillance



AMR surveillance & VMP surveillance



Horizon Scanning for (re) emerging AH & W issues using FAIR data



EPI Welfare Surveillance



Livestock Surveillance





OO1 Design surveillance systems for AH OO5 Adapt risk assessment and risk communication to new needs on AH

Needs ('why', EU policy, scientific questions)	Themes	Expected output / Short term impact
 ✓ Coordinating international action at European level for monitoring surveillance ✓ Applying the One Health approach in which the environment, ecosystems and animals are integrated in the overall surveillance and monitoring of animal health and transboundary animal diseases ✓ Integrating Next Generation Sequencing (NGS) as a routine "method/tool" for monitoring and surveillance of animal health and TBD in the EU ✓ Detecting emerging and re-emerging issues in animal health via an effective early warning system 	Wildlife Genomic AMR Horizon Scan Livestock	 Inventory, description and evaluation of data sources Build or further develop networks and mapping/coordinating of the activities of these networks (guidelines for reporting AMR) Development of analysis methods that integrated data for: Recommendations of wildlife surveillance, Genomic, clinical and epidemiological data Used to inform antimicrobial stewardship Creating a Dashboards including also warnings that allow informed decisions and identification of the hotspots (real time)





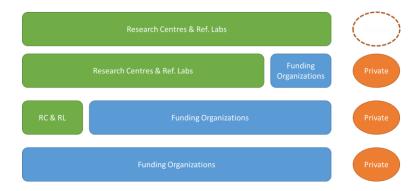
OO2 Design & encourage surveillance systems for AW OO6 Adapt risk assessment and risk communication to new needs in AW

 ✓ Assessing the risks related to different husbandry/farming systems and monitoring animal welfare ✓ Providing/establishing a data collection and monitoring infrastructure uniting the information on the monitoring of Animal Welfare (regulations) in the EU ✓ Stablishing a harmonised –preferentially standardised- welfare monitoring system ✓ Creating to also and methods (preferentially) and some 	Needs ('why', EU policy, scientific questions)	Themes	Expected output / Short term impact
quantitative) for distinguishing between good and poor welfare (animal-based indicators) and some important hazards 4. Development of animal welfare	 husbandry/farming systems and monitoring animal welfare ✓ Providing/establishing a data collection and monitoring infrastructure uniting the information on the monitoring of Animal Welfare (regulations) in the EU ✓ Stablishing a harmonised –preferentially standardised- welfare monitoring system ✓ Creating tools and methods (preferentially quantitative) for distinguishing between 	EPI-welfare	 legislation as foreseen within the legislative framework for sustainable food systems (Farm2Fork strategy as part of the Green Deal) 2. Creation of network on animal welfare in the EU 3. Design studies to evaluate the relationship between animal welfare (animal-based indicators) and some important hazards





PAHW implementation: Possible scenarios



This only refers to the joint research calls

- Only organize internal calls (only research centres in the consortium, no funding organizations)
- Mainly organize internal calls, but external, open calls, are possible (consortium with large number of research centres; plus funding organizations for open calls)
- 3. Mainly have external, open calls, but internal calls are possible (consortium with funding organizations for open calls; plus restricted number of research centres with specific (e.g. reference) activities)
- 4. Only organize external, open calls (consortium with essentially only funding organizations)

