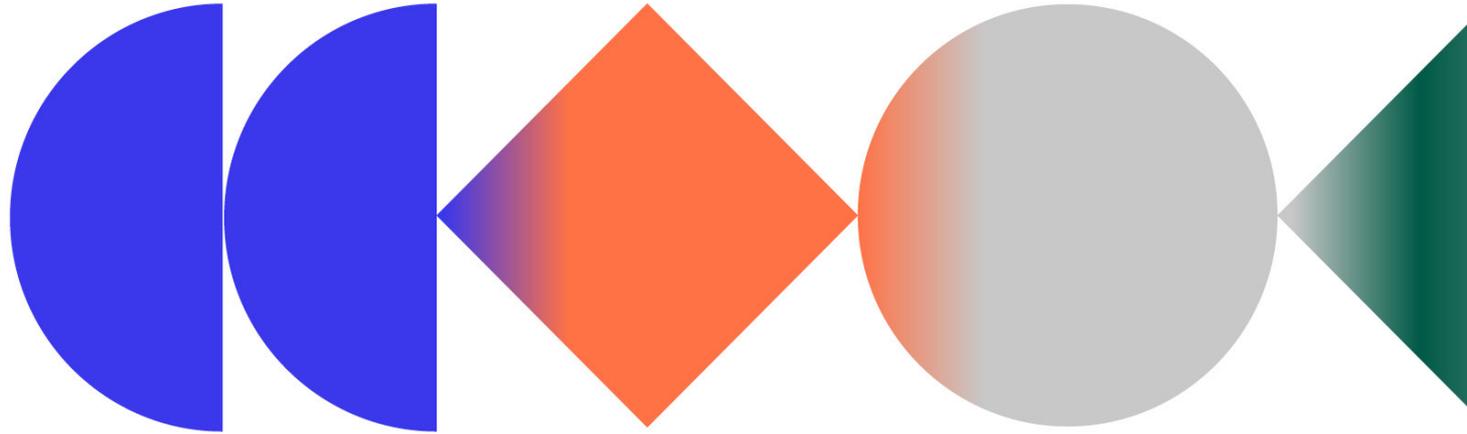


Horizon Europe 2023 matchmaking, One Health pilot



Matchmaking workshop 22nd September 2022



Agenda



Break-out rooms

13:00-13:30 Introductions, own research interest in relation to the topic

Main room

13:30-13:40 Welcome Prof. Alessandra Scagliarini, UNIBO, Chair of the Una Europa One Health SSC

13:40-13:45 Una Europa + Una.Resin, Elina Tonteri, Una.Resin project Manager

13:45-14:00 One Health: Insight on policy and EU funded research: Jean-Charles Cavitte, Research Policy Officer EC

14:00-14:15 Break

Break-out rooms

14:15-14:35 Special characteristic of the topic, Facilitators

14:35-15:50 Group discussion, On-line canvas with pre-questions (5min break, when suitable)

Main room

15:50-16:00 What next, Elina Tonteri, Una.Resin project manager



Prof. Alessandra Scagliarini, UNIBO, Chair of the Una Europa One Health SSC

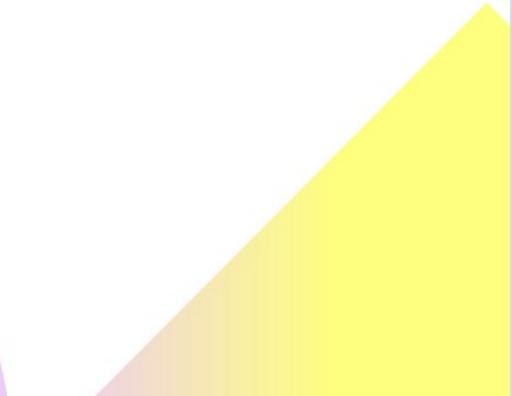


Horizon Europe

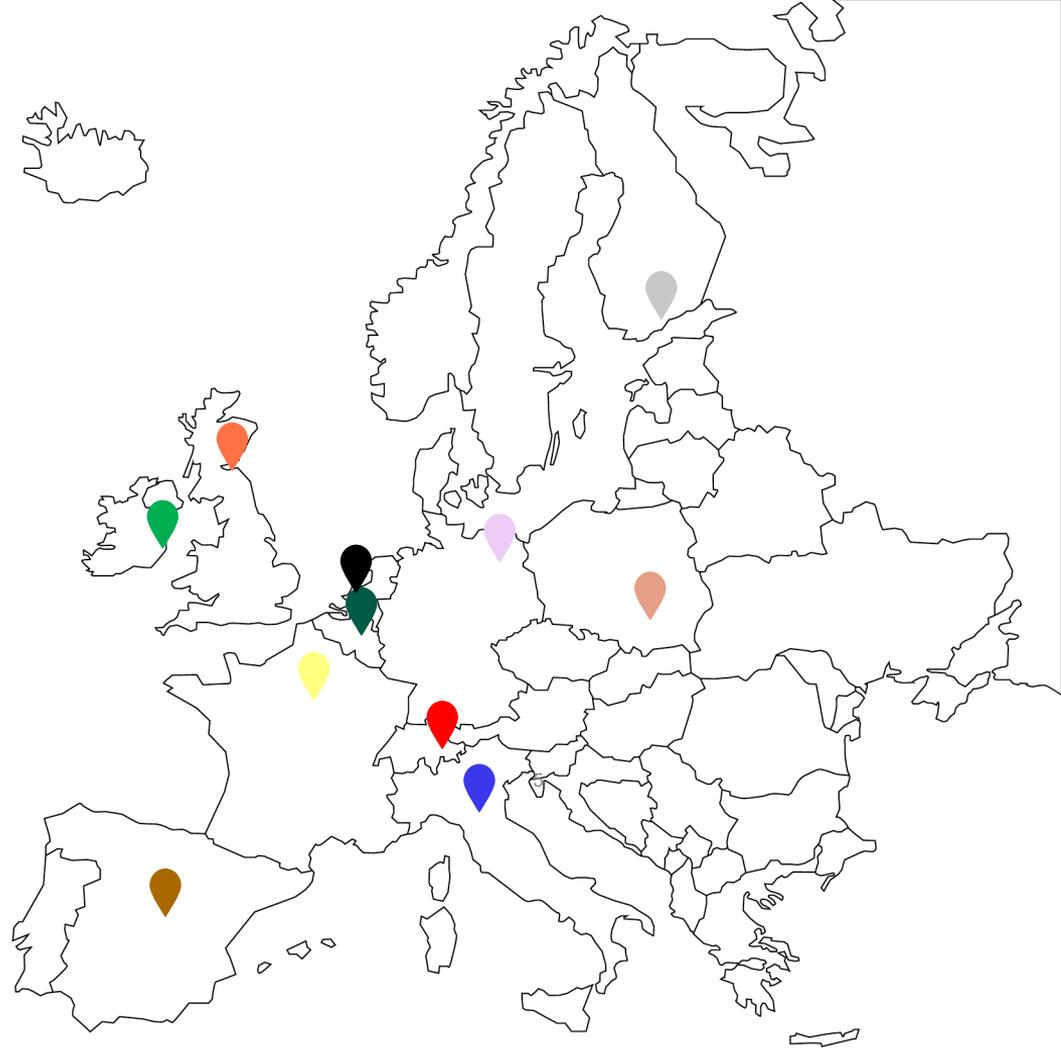
Una Europa matchmaking:

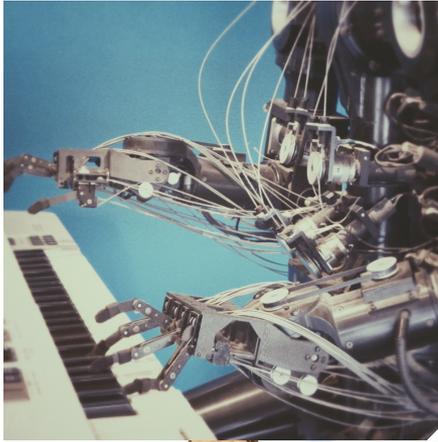
the UNA-One Health perspective

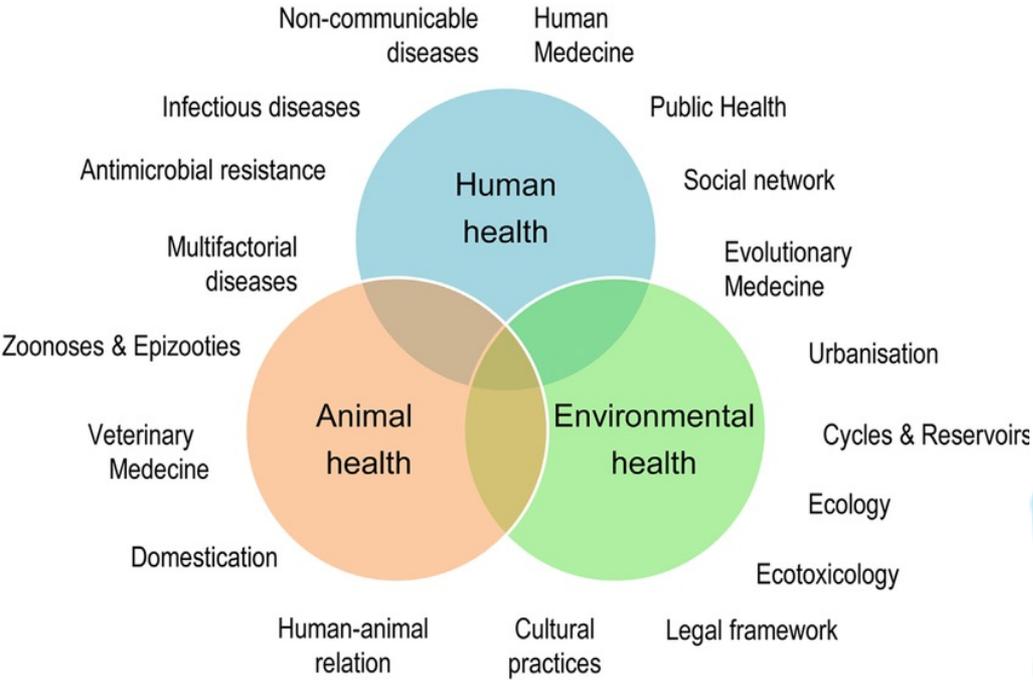
Prof Alessandra Scagliarini
Chair of UNA-OH Self Steering Committee



- + Freie Universität Berlin
- + Università di Bologna
- + University of Edinburgh
- + Helsingin Yliopisto
- + Uniwersytet Jagielloński w Krakowie
- + Universiteit Leiden
- + KU Leuven
- + Universidad Complutense de Madrid
- + Université Paris 1 Panthéon-Sorbonne
- + University of Zurich
- + University College Dublin









Why do this?

- The future is uncertain
- Opportunity to talk about the future together;
- Offer an inclusive and consultative process;
- Reflect the views and challenges facing all stakeholders;
- A neutral space (the future) for discussion;
- An important tool for organisational learning;
- Stories are more engaging (than numbers or policy papers) to describe strategic issues; and
- Allows detailed analysis – blending subjective and objective viewpoints.

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The Future
workshop

Una Europa - Control of Bovine Tuberculosis

15:29

KELLY Rob

AM
Abigail Mannelli - abigail.mannelli@studio.unibo.it

NF
Noemi Frison - noemi.frison@studio.unibo.it

CM
Carlo Mainardi - carlo.mainardi3@studio.unibo.it

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Federica La Rocca - federica.larocca3@studio.unibo.it

+11 AS FB GB NB EB RR FS CC

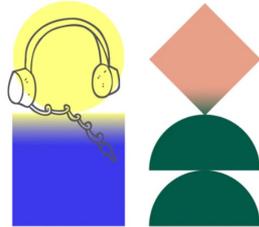
Meeting chat

joined the meeting.

Caterina Cristofori - caterina.cristofori@studio.unibo.it
12:10 PM
Given that chimpanzees are closely related to humans, what's the veterinarian role in the management of bTB in endangered species? Are there bTB monitoring programs and action plans on other than Great Apes endangered species (zebra, okapi, ...)?

Elena Boanini - elena.boanini@studio.unibo.it
12:10 PM
In the case of England, given the very significant problem of badgers, to replace the culling practices that, as we have seen, do not have great results, is it possible to develop a vaccine to be administered via bait such as for rabies?

incollate le domande



Podcast #9

One Health Summer School



THE UNIVERSITY
of EDINBURGH



One Big Issue: Antimicrobial Resistance

Una Europa
One Health webinar

5 October 2022 | 14:00 - 17:00 CEST



MSD

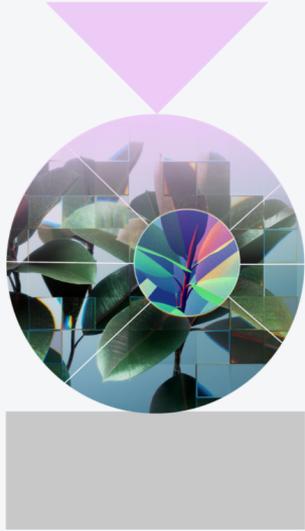


27 Jul 2022

Una.Universitas gets the Commission's green light

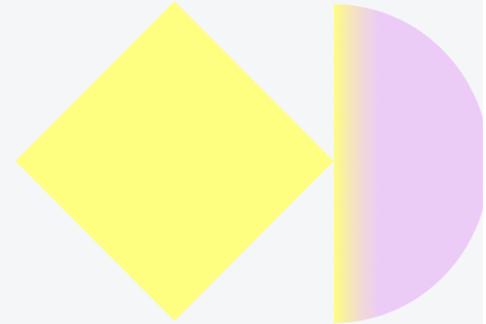


Una.Universitas will further Una Europa's mission to build a joint educational offering fit for the Graduates of the Future.



AI in Society

START COURSE



The hero section image is derivative of an image by [Alan Warburton](#) / © BBC / [Better Images of AI](#) / Plant / [Licenced under CC-BY 4.0](#)

An Una Europa MOOC

GIVE FEEDBACK



Horizon Europe 2023 Call

Una Europa matchmaking pilot 2022



Prof Alessandra Scagliarini

Chair of the UNA EUROPA One Health Self Steering Committee UNA_OH

Dipartimento di Medicina Specialistica, Diagnostica e Sperimentale

Via Massarenti 9, Bologna

Alma Mater Studiorum Università di Bologna (Italia)

e-mail: alessand.scagliarini@unibo.it



Dr. Elina Tonteri, Project manager, Una.Resin, University of Helsinki

Una Europa in nutshell

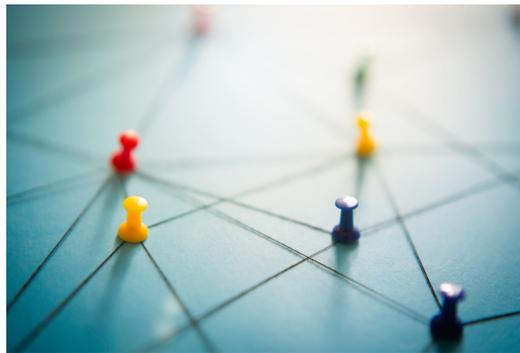
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1Europe



- Building a truly European inter-university environment for collaboration in education, research and innovation
- Developing a truly European Joint Doctorate

Una.Resin



- Aimed at building an Una Europa Research ecosystem
- Shared **Una Europa Research & Innovation Strategy** setting the overall R&I direction of the Alliance and laying the foundations for further high impact research collaborations

Una Europa roll-out project



- Supporting the **SSCs to evolve into hubs** for interdisciplinary education and research
- Strong focus on **Early Career Researchers** – training, networking and mobility opportunities

External funding opportunities to support ECRs

Una.Resin: Towards a Common R&I Ecosystem



Our common R&I eco-system will enable barrier-free collaboration, sharing of infrastructure, knowledge, resources, local communities and non-academic partners, between staff and researchers from all Una Europa universities

Research & Innovation

Developing a format for supporting systematic collaboration on the priority global challenges

Developing a concept for a Una Europa collaboration platform.

Infrastructure & Resources

Developing formats to share existing data infrastructures between Una Europa partners

Exploring paths to widen access to existing data infrastructures to citizens and non-academic partners.

Strengthening Human Capital

Strengthening team science approach to research activities, mainstreaming open science practices within the research community, strengthening the role of citizen science in the research activities, strengthening research cooperation with non-academic sectors

What can we offer to researchers?



Scouting for external funding and support matchmaking to promote collaboration



Providing advice on how to build successful joint proposals, including links with stakeholders, where possible



Facilitating proposal development through project team approach, developed by lead university with input from academics and professional experts



Mr. Jean-Charles Cavitte, Research Policy Officer EC



One Health: some insight on policy and EU funded research

Una Europa – European alliance of European research universities

22 September 2022

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

**JCh Cavitte – Research Policy Officer
DG AGRI F2 – Research and Innovation**

One health, a concept



- ✓ **No single definition of One Health; scope can be very large:**
 - ✓ 'A collaborative, international, cross-sectoral, multidisciplinary mechanism to address threats and reduce risks of *detrimental infectious diseases* at the *animal-human-ecosystem interface*.' (former FAO definition)
 - ✓ 'One Health is the collaborative effort of multiple health science professions, together with their related disciplines and institutions – working locally, nationally, and globally – to attain *optimal health for people, domestic animals, wildlife, plants, and our environment*.' (One Health Commission)
 - ✓ 'One Health is an integrated, unifying approach that aims to sustainably balance and optimize the health of people, animals and ecosystems. It recognizes the *health of humans, domestic and wild animals, plants, and the wider environment (including ecosystems)* are closely linked and inter-dependent. The approach mobilizes multiple sectors, disciplines and communities at varying levels of society to work together to *foster well-being and tackle threats to health and ecosystems, while addressing the collective need for clean water, energy and air, safe and nutritious food, taking action on climate change, and contributing to sustainable development*.' (One Health High Level Expert Panel OHHLEP ; supported by Quadripartite; <https://www.fao.org/3/cb7869en/cb7869en.pdf>)
 - ✓ Etc.

The environmental pillar



- ✓ *Reference is sometimes made to ECOHEALTH, where interest is more focused on the environmental health, i.e. health of ecosystems*
- ✓ *“When one considers the multiple factors at play and the complexity of public health issues, it is clear that the “One Health” holistic approach cannot be disassociated from the notion of ecological health (EcoHealth)... Researchers in “Ecohealth” and its practitioners implement systemic and integrated practices to promote sustainable ecosystemic services linked to the concept of health (human, animal, and ecosystem) and to social stability” (Destoumieux-Garzón D et al. The One Health Concept: 10 Years Old and a Long Road Ahead. Front. Vet. Sci. 5:14. doi: 10.3389/fvets.2018.00014.*
- ✓ *According to IPBES report ‘human activities that drive climate change and biodiversity loss also drive pandemic risk’*
- ✓ *With SARS-Cov2, a strong attention is put on prevention and preparedness to avoid/reduce the impact of such threats*

See also OneMedicine, Global Health, Planetary Health

How to address this complex challenge?

EC services' work on One Health



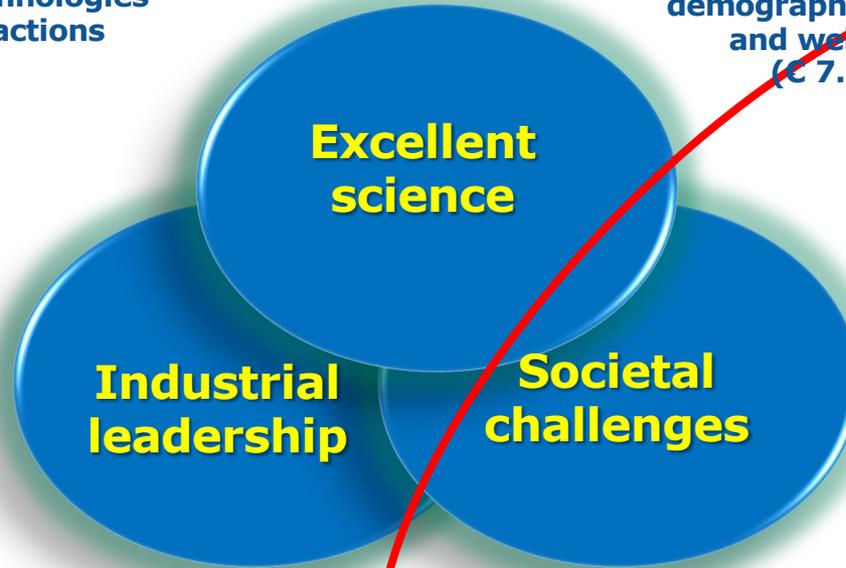
- ✓ **Is there a One Health policy at EU level? Yes, to a certain extent**
 - ✓ One Health AMR action plan (2017)
 - ✓ One Health in research : One health European Joint Programme co-fund (H2020), One Health mentioned in Horizon Europe (e.g. planned Horizon Europe co-funded partnership on One Health AMR)
- ✓ **In most cases, no unique entry point for One Health**
 - ✓ **DG SANTE** (public health -initiator of HERA; veterinary/food legislation, coordinating OH AMR action plan, together with DG RTD; lead of Farm to Fork strategy)
 - ✓ **DG ENV** (e.g. pharmaceutical strategy on AMs)
 - ✓ **DG CLIMA** (e.g. European Climate and Health Observatory: <https://climate-adapt.eea.europa.eu/en/observatory>)
 - ✓ **DG AGRI** (AMR and 'greening' in CAP; lead on agriculture research planning)
 - ✓ **DG RTD** (co-creation with other DGs under Horizon Europe; RTD lead on health and environmental aspects; RTD and SANTE co-chairs on Health (Cluster1) ; RTD, AGRI and ENV co-chairs on Cluster 6)
 - ✓ **DG INTPA** (international cooperation)
 - ✓ **DG TRADE** (e.g. trade barriers; agreements); **JRC** (e.g. data; observatories);
 - ✓ **Agencies** i.e. EFSA (RA, scientific opinions); ECDC, EEA (observatory), EMA ... (see JIACRA reports)

Horizon 2020 (2014–2020)



- European Research Council
- Future and Emerging Technologies
- Marie Skłodowska-Curie actions
- Research infrastructures

- Leadership in enabling and industrial technologies
- Access to risk finance
- Innovation in SMEs



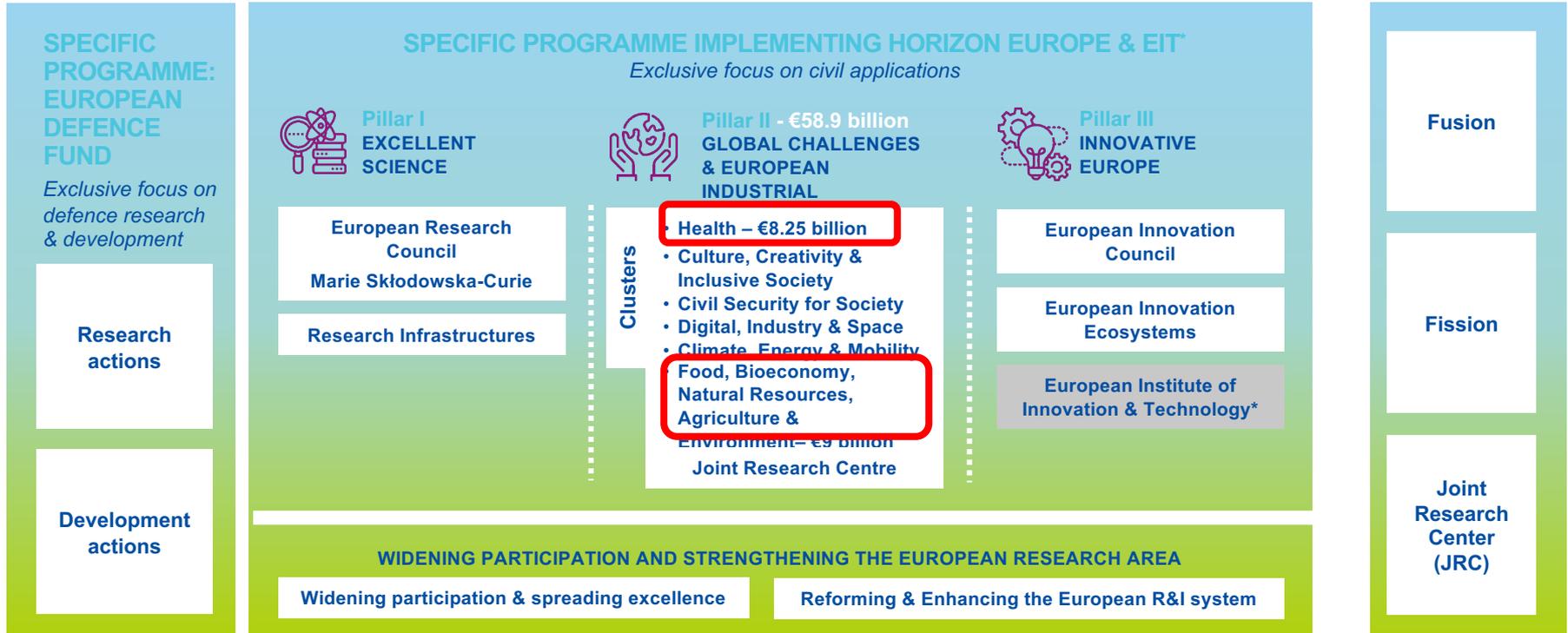
SC1- Health, demographic changes and wellbeing (€ 7.2 b)

SC2- Food security, sustainable agriculture and forestry, marine and maritime and inland water research and the bioeconomy (€ 3.8 b)

SC5- Climate action, environment, resource efficiency (€ 3 b)

HORIZON EUROPE

European Framework Programme for Research and Innovation (2021-2027)



* The European Institute of Innovation & Technology (EIT) is not part of the Specific Programme

Examples of One Health (partly) operationalised

- ✓ **Collaborative projects:**
 - ✓ **COMPARE:** COllaborative Management Platform for detection and Analyses of (Re-)emerging and foodborne outbreaks in Europe (<https://cordis.europa.eu/project/id/643476>; H2020 SC1&SC2)
 - ✓ **VEO:** Versatile Emerging infectious disease Observatory (<https://cordis.europa.eu/project/id/874735>; H2020 SC1)
 - ✓ **MOOD:** MOnitoring Outbreak events for Disease surveillance in a data science context (<https://cordis.europa.eu/project/id/874850>; H2020 SC1)
- ✓ **Public-public partnerships:**
 - ✓ **JPI AMR** (Member States driven; supported by H2020 SC1; <https://www.jpamr.eu/>)
 - ✓ **EJP One Health co-fund** (<https://onehealthjep.eu> ; H2020 SC2)
 - ✓ **Biodiversa** (H2020 SC5) followed by **Biodiversa+** (HE Cluster 6) <https://www.biodiversa.org/>;
- ✓ **Public-Private partnership: ZAPI** (part of IMI-2; www.zapi-imi.eu; H2020 SC1)
- ✓ **International cooperation** (INTPA): e.g. Sustainable Wildlife Management programme



CLIMATE
PACT AND CLIMATE
LAW

PROMOTING
CLEAN
ENERGY



INVESTING IN
SMARTER, MORE
SUSTAINABLE
TRANSPORT



PROTECTING NATURE



Cluster 6
&



STRIVING
FOR GREENER
INDUSTRY



FROM FARM
TO FORK



The European
Green Deal



ELIMINATING
POLLUTION



LEADING THE
GREEN CHANGE
GLOBALLY



MAKING
HOMES ENERGY
EFFICIENT



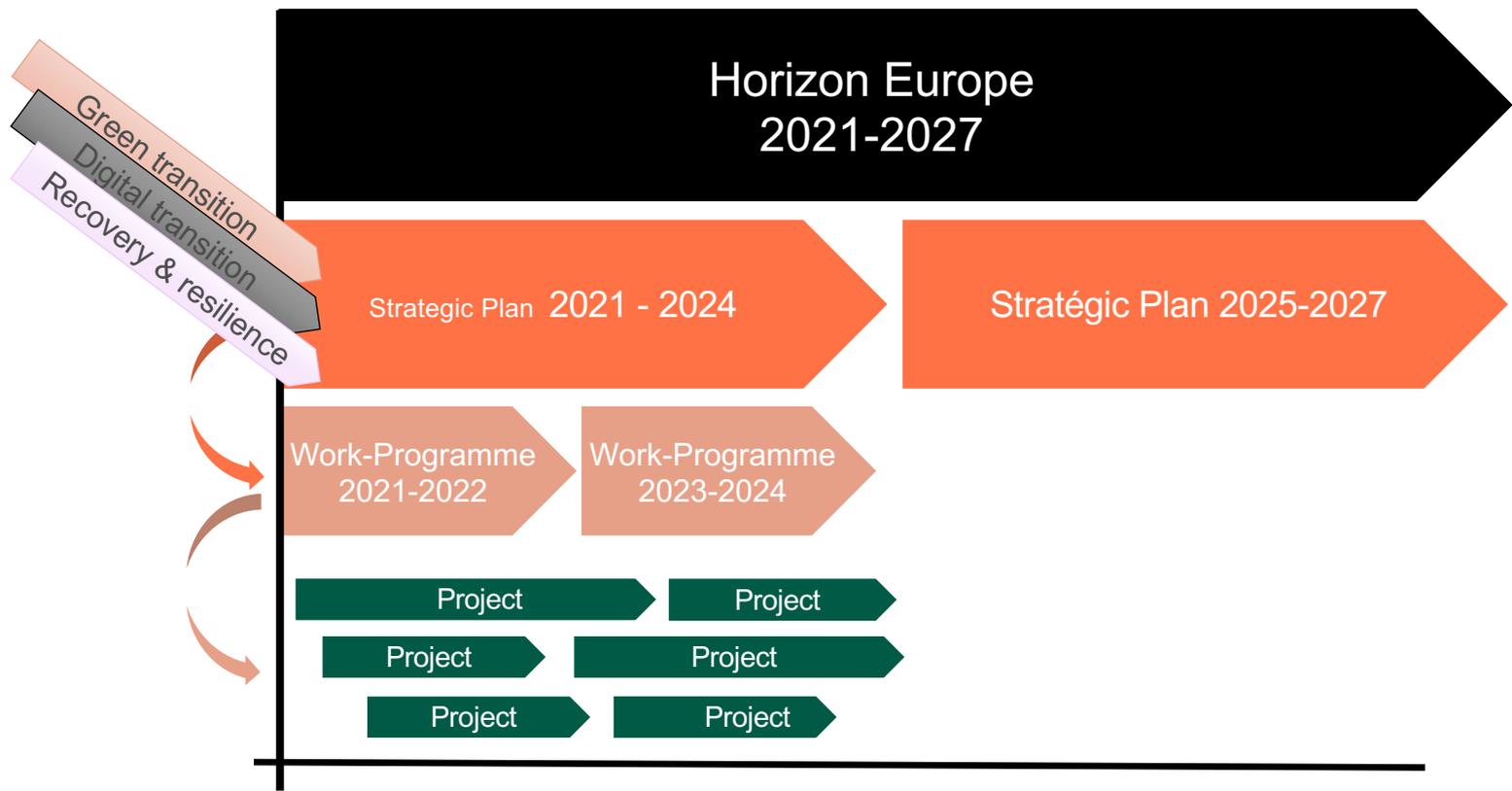
FINANCING
GREEN
PROJECTS



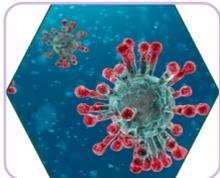
ENSURING
A JUST TRANSITION
FOR ALL



From political priorities to R&I activities



Some topics relevant to One Health in Cluster 6 WP 2021-2022



Destination 1 Biodiversity and ecosystem services

- HORIZON-CL6-2021-BIODIV-01-11: What else is out there? Exploring the connection between biodiversity, ecosystems services, pandemics and epidemic risk
- HORIZON-CL6-2021-BIODIV-01-16: Biodiversity, water, food, energy, transport,



Destination 2 Sustainable food systems from farm to fork

HORIZON-CL6-2021-FARM2FORK-01-06: **Vaccines** and diagnostics for priority animal diseases

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



Destination 3 Circular and bioeconomy



Destination 4 Clean environment and zero pollution



Destination 5 Land, oceans and water for climate action



Destination 6 Resilient, inclusive, healthy and green rural communities

- HORIZON-CL6-2022-COMMUNITIES-02-02-two-stage: Developing nature-based therapy for health and well-being

Biodiversity and human health topics included in WP 2021-2022 of Horizon Europe – **projects starting**

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6. Biodiversity and Health

What else is out there? Exploring the connection between biodiversity, ecosystems services, pandemics and epidemic risk

- Molecular and phylogenetic characterisation of potential emerging pathogens and their hosts in natural areas for use as pre-leads for future vaccines and antimicrobials.
- Relationship of biodiversity loss, land use change and ecosystems dynamics with the evolution and spread of microbiomes within the broader context of socio-economic driving forces, climate change, public health, and increasing resilience.

Nature Therapy

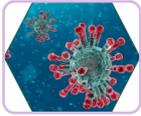
A bridge between health, wellbeing, biodiversity conservation and NBS.

- Quantify and demonstrate health benefits from biodiversity and its integration into medical practice, therapies, health policy, hospital architecture, urban planning, etc.
- Facilitating transformational changes in health business, building on the OneHealth approach at EU and global level

Biodiversity, water, food, energy, transport, climate and health nexus in the context of transformative change

- Approaches, tools and knowledge to influence policies at the adequate level for transformative change

Some topics somewhat relevant to One Health in Cluster 6 draft WP 2023-2024



Destination 1 Biodiversity and ecosystem services

- Interlinkages between biodiversity loss and degradation of ecosystems and the emergence of zoonotic diseases



Destination 2 Sustainable food systems from farm to fork

- European partnership on animal health and welfare
- Agro-pastoral/outdoor livestock systems and wildlife management
- Towards sustainable livestock systems: European platform for evidence building and transitioning policy
- European partnership on sustainable food systems for people, planet and climate
- Climate change and food safety: effects of climate change on food safety across food systems



Destination 4 Clean environment and zero pollution

- Optimisation of manure use along the management chain to mitigate GHG emissions and minimize nutrients/contaminants dispersion in the environment

Overview of 49 candidate European Partnerships (2021-2024)



PILLAR II - Global challenges & European industrial competitiveness

PILLAR III - Innovative Europe

CLUSTER 1: Health	CLUSTER 4: Digital, Industry & Space	CLUSTER 5: Climate, Energy & Mobility	CLUSTER 6: Food, Bioeconomy, Agriculture, ...	EIT	SUPPORT TO INNOVATION ECOSYSTEMS
Innovative Health Initiative	Key Digital Technologies	Clean Hydrogen	Circular Bio-based Europe	InnoEnergy	Innovative SMEs
Global Health Partnership	Smart Networks & Services	Clean Aviation	Rescuing Biodiversity to Safeguard Life on Earth	Climate	
Transformation of health systems	High Performance Computing	Single European Sky ATM Research 3	Climate Neutral, Sustainable & Productive Blue Economy	Digital	
Chemicals risk assessment	European Metrology (Art. 185)	Europe's Rail	Water4All	Food	
ERA for Health	AI-Data-Robotics	Connected and Automated Mobility (CCAM)	Animal Health & Welfare*	Health	
Rare diseases*	Photonics	Batteries	Accelerating Farming Systems Transitions*	Raw Materials	
One-Health Anti Microbial Resistance*	Made in Europe	Zero-emission waterborne transport	Agriculture of Data*	Manufacturing	
Personalised Medicine*	Clean steel – low-carbon steelmaking	Zero-emission road transport	Safe & Sustainable Food System*	Urban Mobility	
Pandemic Preparedness* <i>Co-funded or co-programmed</i>	Processes4Planet	Built4People		Cultural and Creative Industries	
	Global competitive space systems**	Clean Energy Transition			
		Driving Urban Transitions			

CROSS-PILLARS II AND III

European Open Science Cloud

- Institutionalised Partnerships (Art 185/7)
- Institutionalised partnerships / EIT
- Co-Programmed
- Co-Funded

* Calls with opening dates in 2023-24
 ** Calls with opening dates not before 2022

HE - The Biodiversity Partnership: Biodiversa+



- 38 funding agencies/foundations
- 18 ministries in charge of environment
- 9 ministries in charge of research
- 8 environment protection agencies
- 4 other ministries/regional actors



- ✓ Biodiversa+ SRIA
- ✓ First call: "Supporting the protection of biodiversity and ecosystems across land and sea"
- ✓ Second call on Biodiversity monitoring

Opportunities for collaboration!

Biodiversity Partnership Biodiversa+: Possible Flagship Programme

Biodiversity and (One)Health / (Eco)Health



Emerging from proposals by prospective Members of the Partnership and the BiodivERsA Advisory Board

- Possibly 4 years: calls + other activities (mapping, foresight, monitoring)
- Probably after 2023
- Build on outcomes of the BiodivERsA 2018-2019 Call for proposals
- Possible links with other relevant Partnerships focusing on (One)Health issues. Also IPBES nexus assessment
- Interactions between biodiversity and plant, animal and human health, including but not restricted to fundamental research on underlying causes of pandemics as well as science-based solutions to prevent such outbreaks, from local and low-cost solutions to management of wild species to broader, system-wide solutions, including nature-based solutions;
- International – global - component

Conclusions

One Health is more than a buzzword from an EU research funding perspective.

One Health is operationalised at least in part, through many projects, some directly (examples provided), many more indirectly.

The interdisciplinary approach exists, but various obstacles exist: different communities, players, interests. Until recently, the environmental dimension has probably not been addressed as intensively as other dimensions

Various other concepts (e.g. eco-health, planetary health etc) emerged and tend to enlarge the concept/system

How to better address One health in a systems' approach?

Thank you



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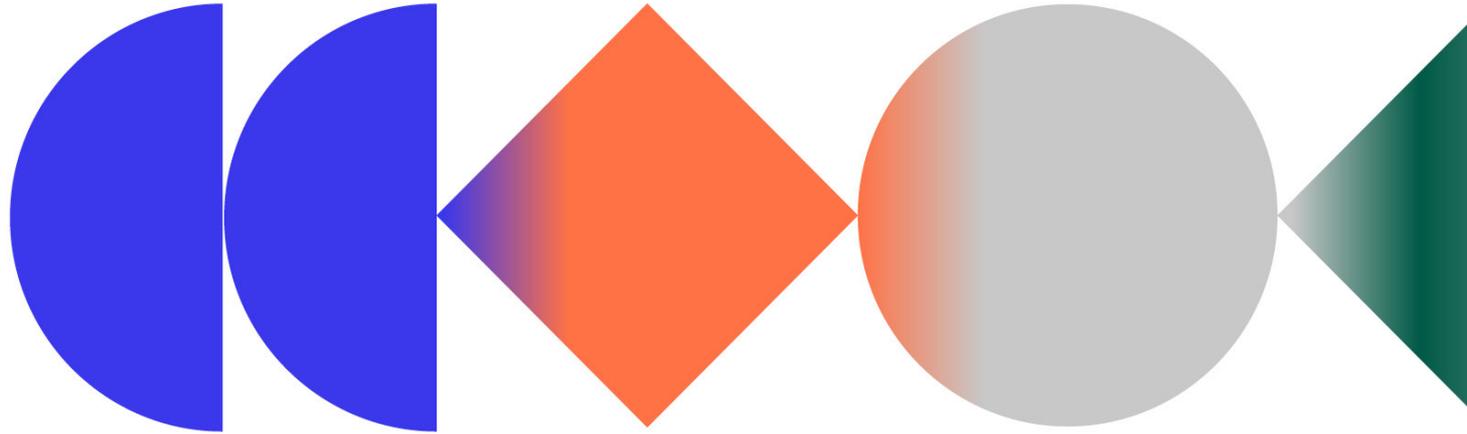
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**Take a 15 minute break
back @14:15 CET!**



Please stay in Zoom



Next steps



- Discussion with the potential coordinators
 - Summary report sent to all EoI participants (including non-Una)
 - Setting the date and place for on-site workshop together with the coordinators
 - Helping to set up a team to support the proposal writing
 - Scaling the learnings of this pilot to give the optimal support in coming years
- Una Europa R&I strategy outlining the priority actions and services for Una Europa research collaboration will be launched in 2023.

Thank you!