



SCIENCE AND  
EDUCATION **FOR**  
**SUSTAINABLE**  
**LIFE**

SLU Future One Health

# **The challenge to develop interdisciplinary One Health education programmes against the backdrop of evolving EU One health policies**

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## SLU Future One Health

- A strategic platform for transdisciplinary research and collaborations
- Contact point for One Health research
- Support for SLU researchers in the One Health field
- Communication of results from SLU research in the One Health field



## From zoonoses to the One Health triad to....

”The One Health Initiative will unite **human and veterinary medicine**”

“The One Health Initiative is a movement to forge co-equal, all-inclusive collaborations between physicians, osteopathic physicians, veterinarians, dentists, nurses, and other scientific-health and environmentally related disciplines”



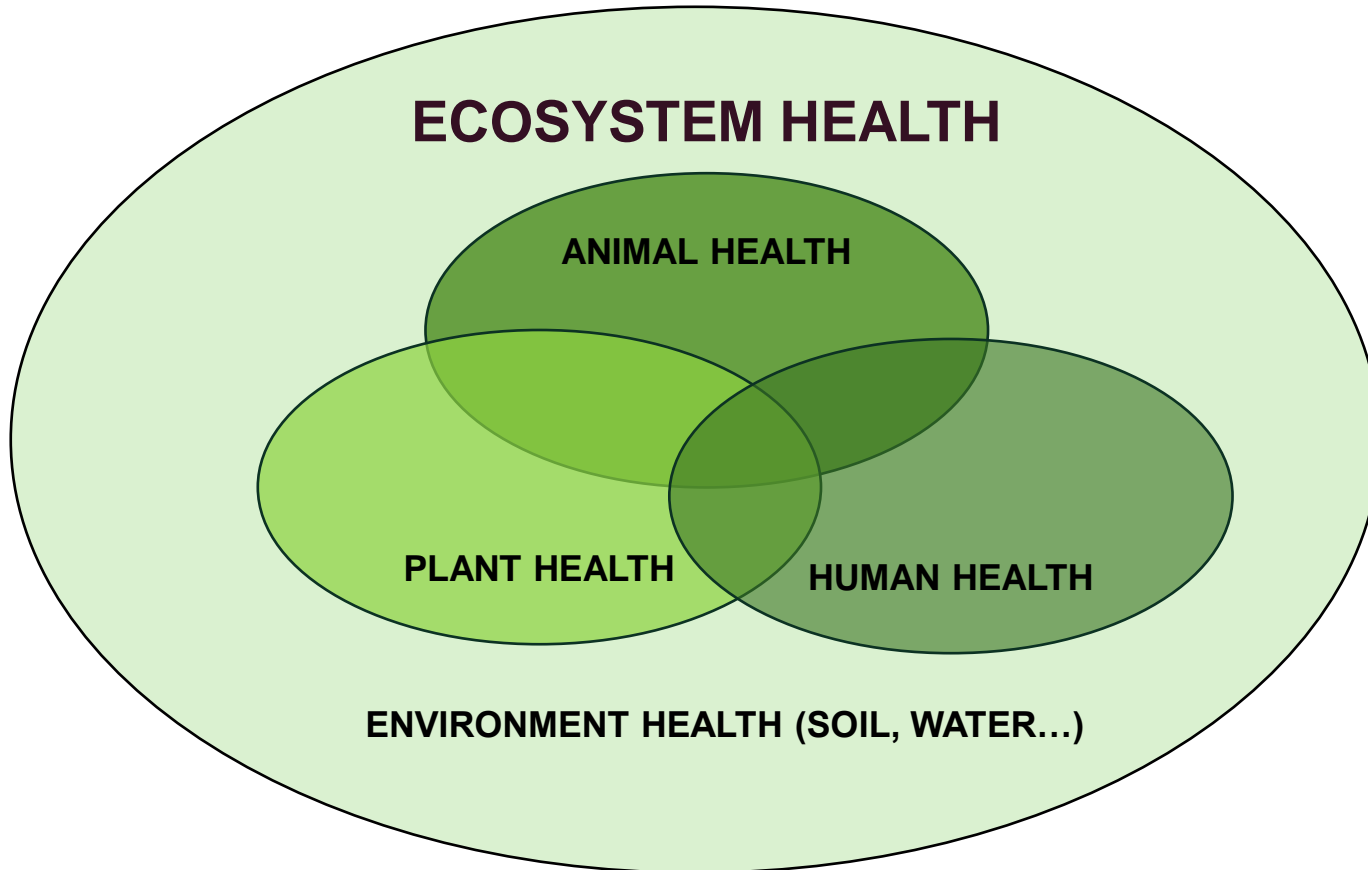
## **The global quadripartite (WHO, FAO, WOAH, UNEP) definition of One health**

*One Health is an integrated, unifying approach that aims to sustainably balance and optimize the health of people, animals and ecosystems.*

*It recognizes that the health of humans, domestic and wild animals, plants, and the wider environment (including ecosystems) are closely linked and inter-dependent.*

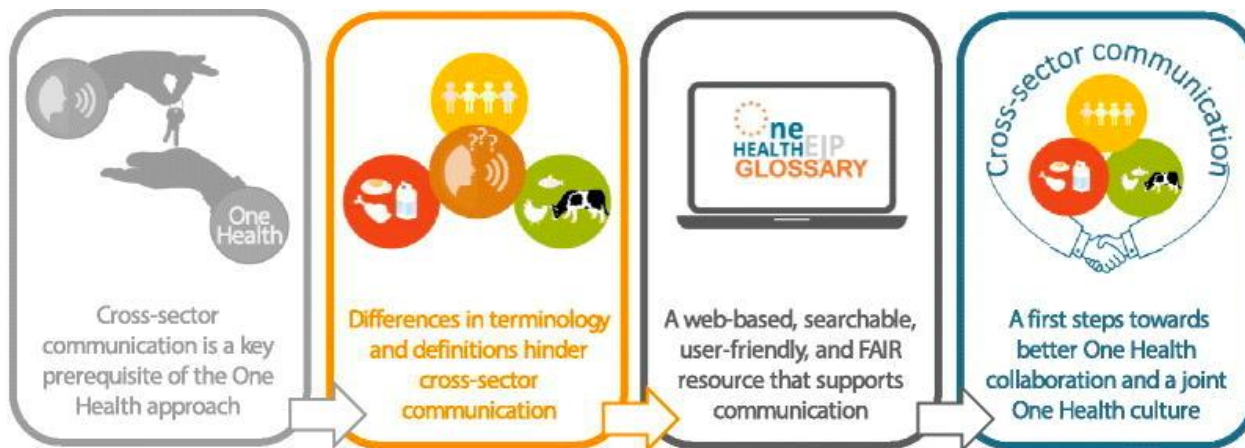


# ONE HEALTH



## But definitions vary...

- One Health/Planetary Health/One Welfare
- Lack of consistent terminology
- Absence of a shared understanding of its scope of application
- Limited engagement of certain scientific disciplines
- Tendency towards maintaining siloed approaches





# One Health in the European Union

- European Union Agencies Network for Scientific Advice (EU-ANSA)
- The One Health European Joint Programme (OHEJP)
- Policy cooperation deemed crucial to EU agencies, individual agencies succeed only if the policy as a whole succeeds
- ONE – Health, Environment, Society – Conference, June 2022 (EFSA, ECDC, ECHA, EEA, EMA, JRC)
- Enhance synergies between research efforts in respective EU Agency domains of expertise – transdisciplinary approach called for
- One Health cross-agency task force





## Objectives EU OH cross-agency task force

- Facilitate strategic coordination of the work of the agencies on implementing One Health
- Promote research coordination and One Health-driven agenda setting
- Provide a forum for the coordination of activities to update, inform and support EU policymakers in their goal to prioritise One Health,
- Strengthen joint activities and the sharing of information on One Health aspects among the agencies, identifying interlinkages, interdependencies and fields of cooperation, and good practices

Will produce a joint interagency statement on One Health

# EU One Health research funding

- AMR
- Zoonoses
- **HORIZON**

## Five Missions Areas



Adaptation to climate change, including societal transformation



Cancer



Healthy oceans, seas, coastal & inland waters



Climate-neutral & smart cities



Soil health & food

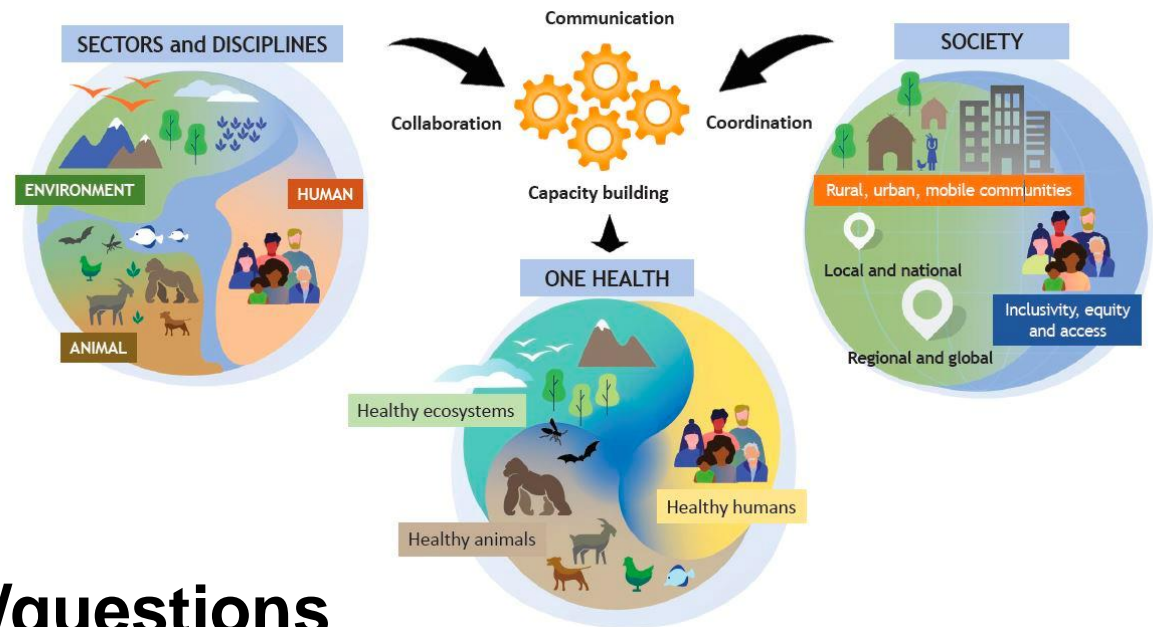
## Six clusters



## Education – linked to research, built on research

- What to include (definitions...)
- Interdisciplinary approach needed
- Based on specialised research AND interdisciplinary research

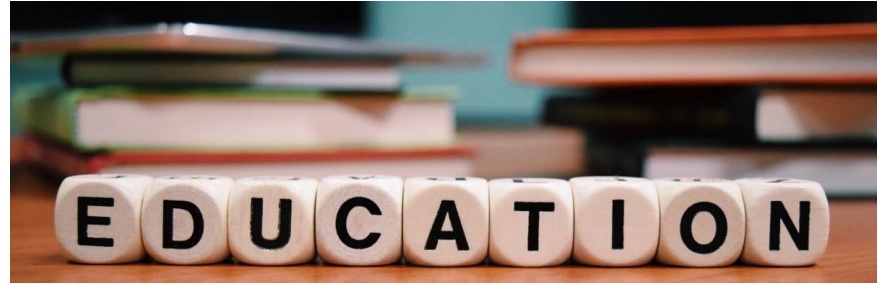




## Main challenges/questions

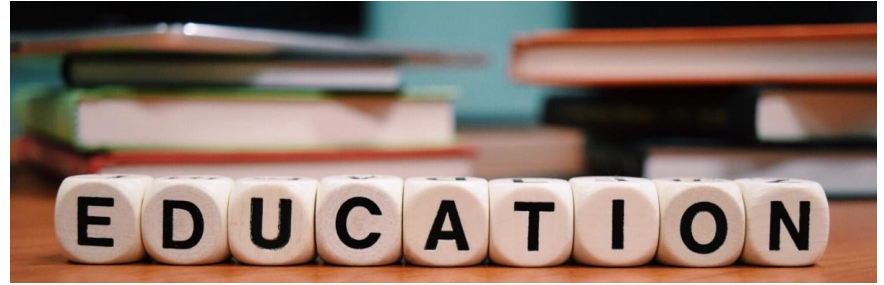
- University institutions/departments usually organised in disciplines
- The host institution most influence on content/approach
- In-depth vs broad knowledge may confuse students
- We need specialists to link
- Some in-depth needed to understand linkages
- A vast number of relevant subjects





## Examples of programmes/courses

- University of Milano-Bicocca **MSc programme** in One Health – focus on human health and molecular biology
- Pavia university **PhD programme**: One Health approaches to infectious diseases and life science research – focus viral zoonoses and AMR
- Edinburgh university Wellcome Trust **PhD programme** in One Health Models of Disease – focus on translational medicine and zoonoses
- Université Paris Cité/Institut Pasteur **Graduate School** One Health-Emerging Infectious Diseases
- Université de Tours, Universitat Autònoma de Barcelona and Hannover Medical School **ERASMUS Mundus Joint Master Degree** Infectious Diseases and One Health.



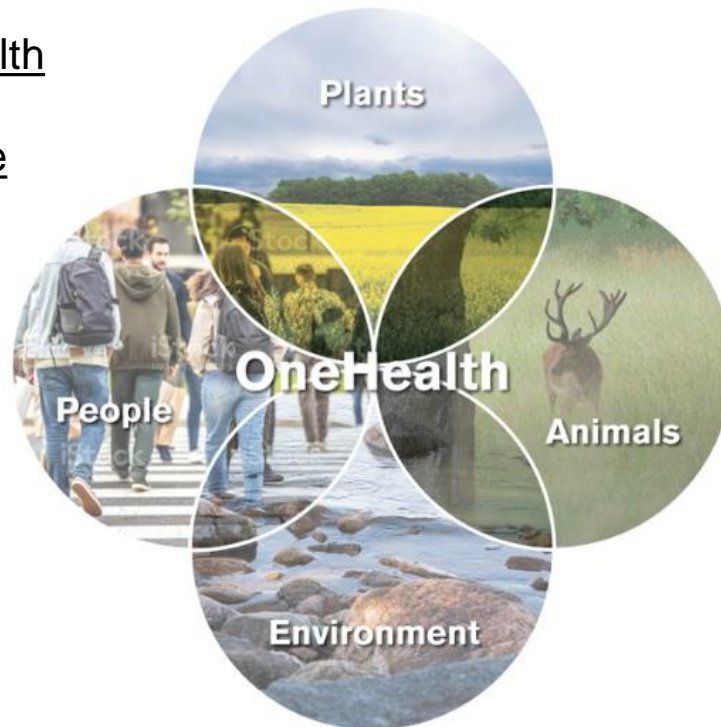
## Examples of programmes/courses cont'd

- Nantes Université Man-imal One Health **Master's Degree** - From animal to man: Analysing and managing health and food risks
- Universitat Autònoma de Barcelona **Máster Oficial** Zoonosis y Una Sola Salud (ONE HEALTH)
- Edinburgh university **MSc programme** in One Health – broad, interdisciplinary, targets life science professionals
- Copenhagen university **summer course** in One Health – interdisciplinary aspects of infectious and chemical health challenges
- SLU **PhD course** in One Health – interdisciplinary, targets PhD students in Life Science

**Thank you for your attention**

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