

# BELGIAN ONE HEALTH (BEOH)

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One Health science officer

Sciensano & Belgian Biodiversity Platform

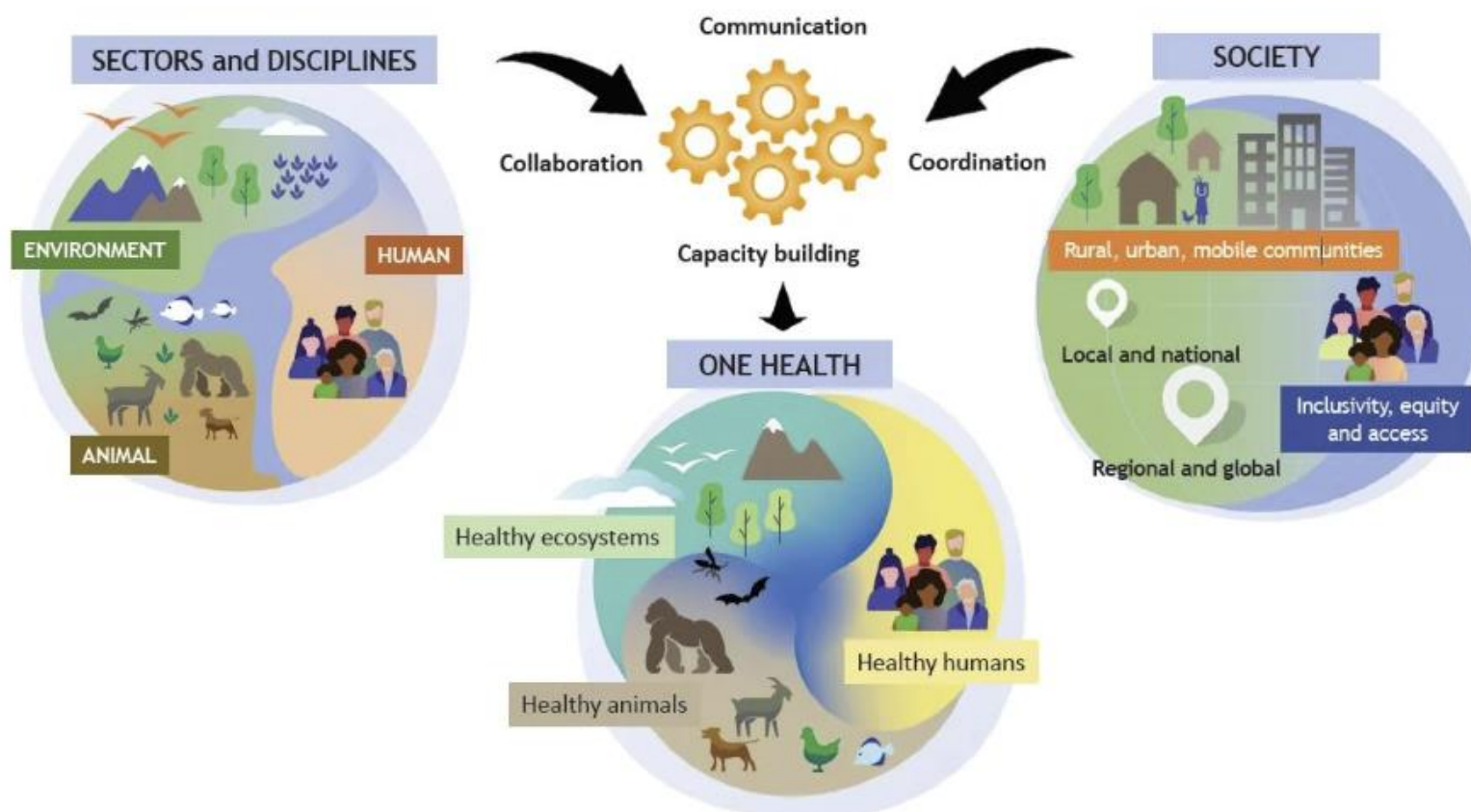
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The One Health definition developed by the OHHLEP states:

**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.*



## Belgian OH network / platform

- launched in 2019 (launch event ; report)
  - 3 partners (FPS Health, Belgian Biodiversity Platform, Sciensano)
  - several other organisations involved (UGent, ULg, UA, UHasselt, ...)
- integrating
  - human, animal and plant health
  - environment/nature/biodiversity
  - social and economic sciences, anthropology, ...
- activities
  - website update (foreseen by July 2024)
  - further development platform by e.g. mapping exercise
- activities & outputs supported by a coordination team
- e.g. description vision and mission

# Belgian OH network / platform

- **Vision**

*Bringing together Belgian scientists, practitioners, citizens, decision- and policy-makers to enable and stimulate sharing knowledge in support of sustainable health for humans, animals, plants and the environment, joining the global effort and contributing to the pursuit of a One Health agenda in Belgium.*

- **Missions**

- *We offer a multidisciplinary platform for all relevant stakeholders to nurture and strengthen the One Health approach both in research, policy and decision-making.*
- *We foster activities, collaboration and information sharing between all actors and sectors to identify and cover One Health knowledge gaps.*
- *We leverage communication and enhance the visibility of knowledge and activities to raise awareness on the added value of the One Health approach.*

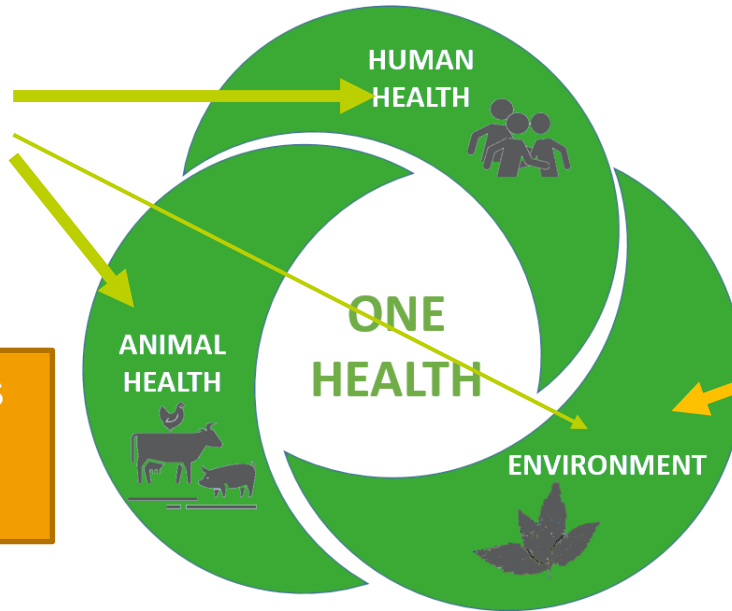


connects health, science and society





# One Health in practice



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- Across disciplines
- Across different institutions

## Breaking silos → building synergies

- reinforce collaboration
- create/participate in external platforms with key partners
- obtain funding for One Health projects
- pay attention to the health-environment dimension
- innovation

## 4 Cs :

- Communication
- Collaboration
- Coordination
- Capacity building

# Internal & external OH platforms



**Monitoring  
zoonoses**  
Geraldine Boseret

**Exposome**  
Svetlana  
Malysheva



**AMR**  
Pieter-Jan Ceysens



**Vector-Borne Diseases**  
Nick De Regge



**Food Toxicoinfections**  
Bavo Verhaegen

**Respiratory Pathogens**  
Kaat Ramaekers



**Climate**  
Eveline Cleyen



**Innovative & generic OH  
approaches**  
Sigrid De Keersmaecker





Preventing zoonotic  
disease emergence

# PREZODE

- PREventing ZOonotic Disease Emergence (2021)
- <https://prezode.org/>
- Belgium joined Oct. 2021
- FPS Health and Sciensano co-piloting
- Development of One World One Health vision policy recommendations



Health  
Food Chain Safety  
Environment



UNIVERSITEIT  
GENT



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INSTITUTE  
OF TROPICAL  
MEDICINE  
ANTWERP



BRUSSELS CAPITAL-REGION



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# OH workshop 'Innovation'

- Aim : brainstorm
  - on the potential of using existing and new sensors and their data
  - to monitor and surveil new and existing pathogens
  - in waste water and air
- Experts representing several organisations



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# Programme

## **13:00 Welcome**

*Prof. Sofie De Broe*

*Strategy and External Positioning, Sciensano  
Leading Official (ai) of the Health Data Agency*

## **13:05 Belgian One Health Initiative**

*Dr Dominique Vandekerchove, One Health Science Officer*

*Strategy and External Positioning, Sciensano*

## **13:10 One Health institute KU Leuven**

*Dr Catherine Decouttere, Manager Access to Medicines Research Centre  
Faculty of Economics and Business, KU Leuven*

## **13:15 Wastewater surveillance : opportunities and challenges**

*Dr Raphael Janssens, Scientist wastewater-based surveillance,  
Epidemiology of Infectious Diseases, Sciensano*

## **13:35 Insights into Indoor Air Quality: Beyond CO2 to Chemical and Microbial Pollutants**

*Dr Sarah Nauwelaerts, Sciensano*

*Platform chromatography and mass spectrometry, Sciensano*

*Dr Babette Muyshondt*

*Mycology and aerobiology, Sciensano*

## **13:55 Sensors : newest developments**

*Dr Marcel Zevenbergen*

*Principal member of the technical staff 'Emerging sensors', IMEC*

# Programme

14:15 Coffee break

14:35 **Discussion in 2 parallel groups** (wastewater, air quality)

16:15 **Presentation of the conclusions**

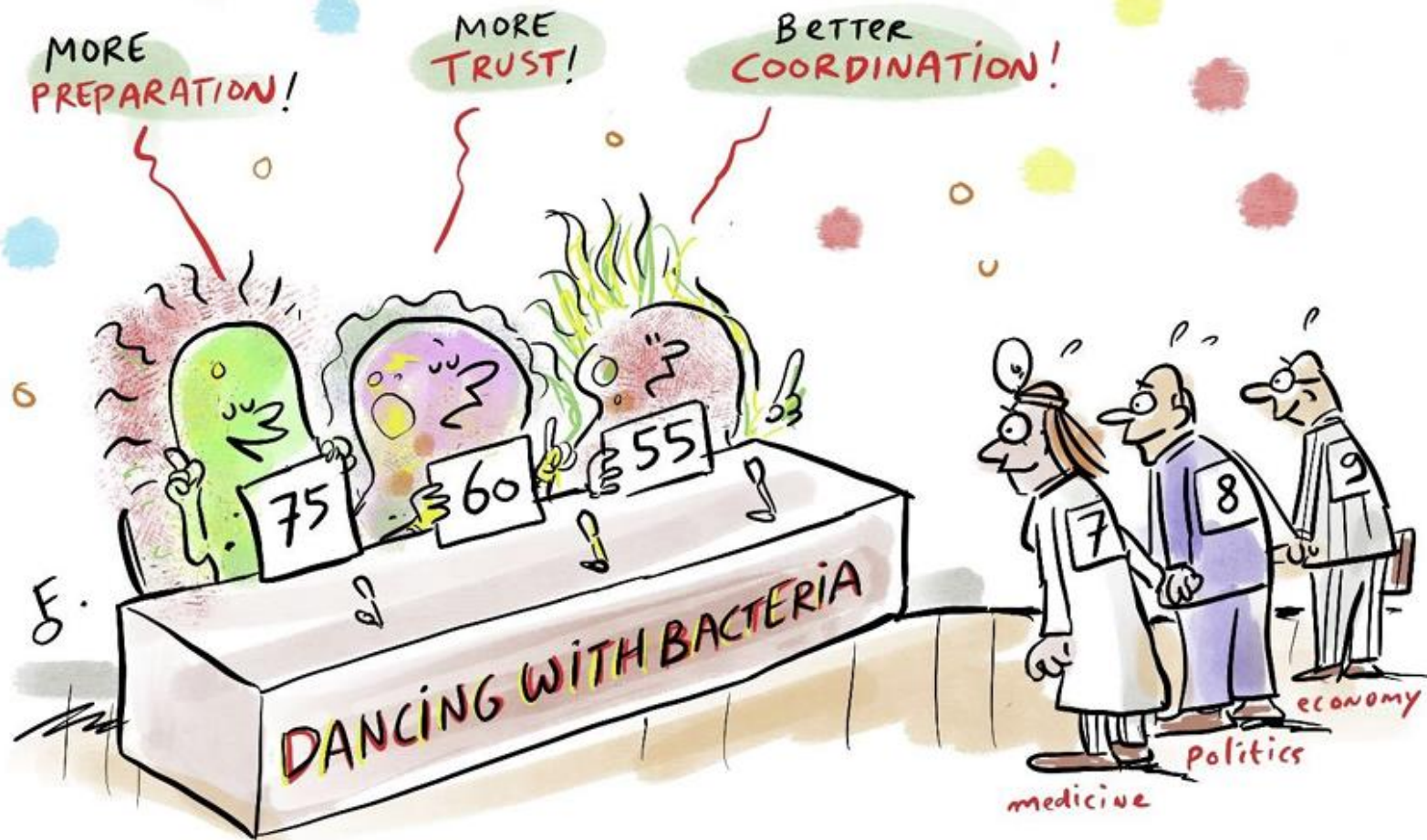
*Moderators : Sofie De Broe (Sciensano) and Robbert Boudewijns (KU Leuven)*

16:25 **Closure**

*Prof. Sofie De Broe, Scientific Coordinator*

*Strategy and External Positioning, Sciensano*

16:30 End of the seminar



• FLORIS OUDSHOORN  
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.. CONVERGENCE....

