

Cooperation

- University – Research institutes
- Animal – Plant – Environment – Agro&Food Sciences – Social Sciences
- Natural & Social Science
- Biological, Economical, Social aspects

- Short and long time scales
- Effects and interventions

List of research projects funded

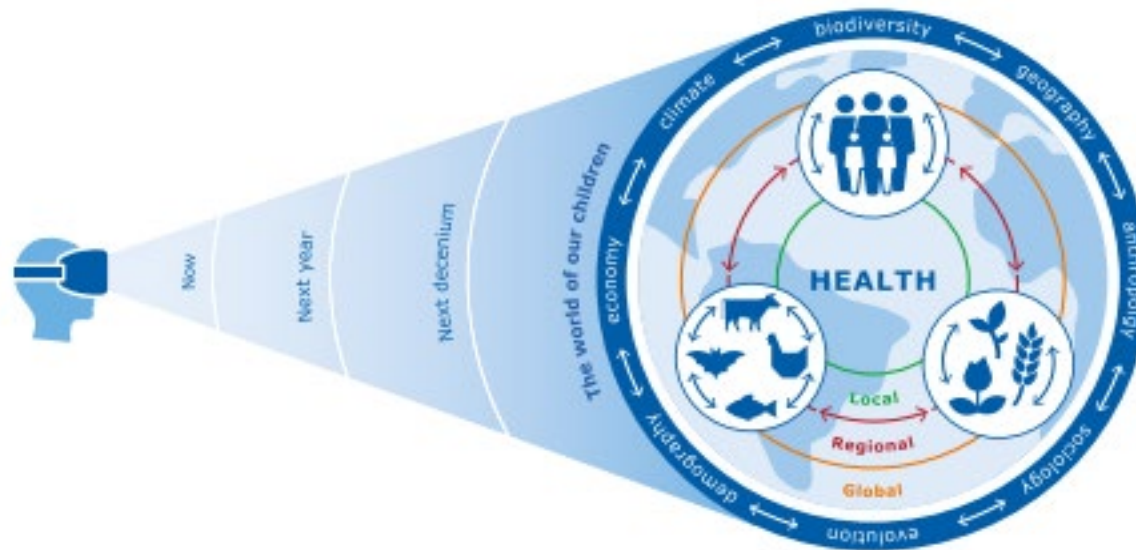
	R-Plant	R-Animal	R-AFSG	R-Env	R-soc	U Plant	U Animal	U AFSG	U Env	U Soc	WFSR
	WPR	WBVR/ WLR	WFBR	WENR	WECR						
Mycotoxin contamination					X						X
Implementation of interventions					X					X	
Airborne endotoxins		X	X		X		X	X		X	
Microbiomes of midges	X	X				X					
Risks of livestock manure application	X	X		X	X			X			X
Zoonoses /changing socio-economic environment		X			X				X	X	
Sustainable Healthy Food Systems	X		X		X			X			
Co-infections in the spread of Zika virus		X				X					
Obesity reduction	X		X					X			
AMR dispersal by wildlife		X		X			X	X	X		
Human/environmental health synergies					X	X		X			
The Social Nature of Global One Health	X	X	X	X	X	X	X	X	X	X	X

WPR= Wageningen Plant Research, WBVR= Wageningen Bioveterinary Research, WLR= Wageningen Livestock Research, WFBR= Wageningen Food and Biobased Research, WENR= Wageningen Environmental Research, WECR= Wageningen Economic Research

Future

Abundance, undernutrition, malnutrition and infectious diseases:

Complex, many disciplines, different parts of the planet, different niches in biology, and different time scales.



Integration and system approaches are needed

Future Concrete Follow-up: seeded for new cooperation

BMGF project:

Urban Food Markets in Africa – incentivizing food safety (Pull-Push Project)
WECr, WU Soc Sciences, WU AFSG

1. public health impact
2. describing the value chain
3. quantitative risk assessment and cost effectiveness of interventions
4. motivate and built capacity for regulators
5. empower VC actors
6. consumer campaign
7. impact assessment



Future Concrete Follow-up: seeded for new cooperation

Minor Global One Health

Contributing:

Host-Microbe Interactomics – van Baarlen

Resource Ecology – de Boer/Matson

Health & Society – Verbaan/Vaandrager

Quantitative Veterinary Epidemiology – de Jong

Food Microbiology – Zwietering

Human Nutrition and Health – van 't Veer

Wageningen Bioveterinary Research – van der Poel



Courses:

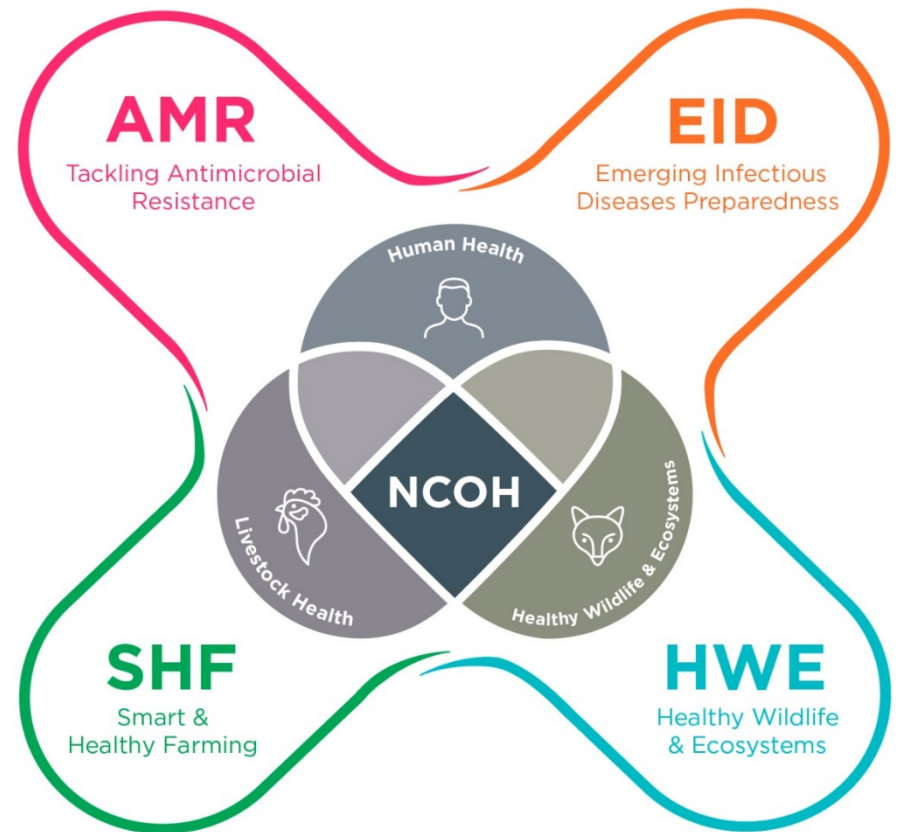
1. Introduction in Global One Health
2. Health Issues in Daily Life: a Bèta-Gamma approach OR Food Hazards
3. Disease Ecology
4. Advances in Global One Health

Netherlands Centre for One Health

Solutions to Global One Health Challenges

NCOH brings together academic research institutes in the Netherlands that are active in One Health research

- ✓ Our job: to explore and prioritize research gaps through a One Health perspective
- ✓ Our goal: to create durable solutions
- ✓ Our focal concerns: emerging infectious disease outbreaks, antibiotic resistance, including veterinary and environmental factors



European Joint Program for One Health

Creating a Sustainable European One Health Framework

- ✓ **Strategic Research Agenda based on:**
 - Consultation of national experts from partner organizations
 - EU Stakeholder's needs EFSA and ECDC
 - Interactions with other EU Projects
- ✓ **Joint Research Projects**
 - More than 20 projects
 - Innovative multidisciplinary research
- ✓ **Joint Integrative Projects**
 - integration and alignment of medical, veterinary and food institute activities
- ✓ **Education and Training**
 - Short term missions
 - PhD Projects
 - Summer Schools



Aims and Impact

- ✓ **Improve prevention, detection and response** in the fields of foodborne zoonoses, antimicrobial resistance and emerging infectious treats
- ✓ **Develop a European network** of public mission organisations
- ✓ **Science to policy**: feed the evidence based risk assessment and therefore the management of risks by the competent national and European authorities
- ✓ **Sustainability** of the network beyond the end of the One Health EJP (Dec. 2022)

Global One Health

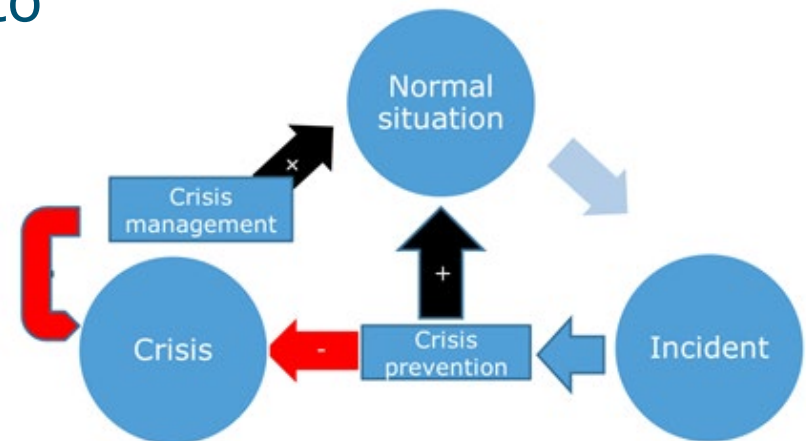
Summer School 2020

- Basic concepts and operationalization of global one Health
- WUR, NCOH, INRA, EJP One Health
- Wageningen, 24 Aug – 6 Sept 2020.



Emerging Health Risks and Emerging Food Safety Risks (KB37-001-006)

- WP1: Global One Health approach
- WP2: Impact pathogens
- WP3: Interactions animal and plant production in relation to human health.
- WP4: Impact assessment. Predictive methodology towards health



Global One Health

International cooperation world top ranked agricultural universities



University of
California Davis
USA



Nanjing
Agricultural
University
China



Wageningen
University
Netherlands



Massey
University
Palmerston
New Zealand