

*Open networks like communities
of practice for OneHealth: some
experiences from Belgium and
beyond*

Hans Keune

*CBD - WHO Regional capacity building workshop on biodiversity
and health – Helsinki 20171024*



Centre for
General Practice
University of Antwerp

RESEARCH INSTITUTE
NATURE AND FOREST



BIODIVERSITY AND HEALTH
Belgian Community of Practice



Biodiversity.be

How we started





BRAIN-be

Belgian Research Action through Interdisciplinary Networks

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Belspo



About BRAIN-be

- Agenda
- History
- Programme
 - > Objectives
 - > Management structure
 - > Thematic axis
- Call for proposals

Projects

- Axis 1: Ecosystems, biodiversity and evolution
- Axis 2: Geosystems, universe and climate
- Axis 3: Cultural, historical and scientific heritage
- Axis 4: Federal public strategies
- Axis 5: Major societal challenges
- Axis 6: Management of collections
- Pioneering projects

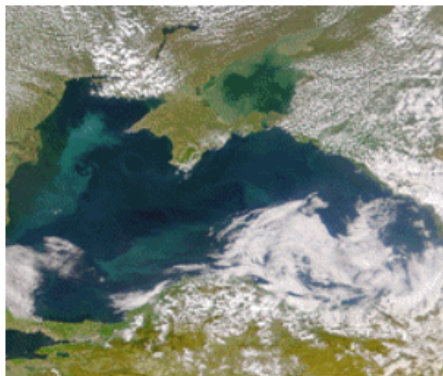
Welcome to the website of the research programme **BRAIN-be (Belgian Research Action through Interdisciplinary Networks)**.

BRAIN-be is the first phase (2012-2017) of a recurrent framework programme which allows, through the funding of research projects based on scientific excellence and European and international anchorage, to meet the needs for scientific knowledge of the Belgian federal departments and to support the scientific potential of the Federal Scientific Institutions.
[Read more...](#)

id ideas

Documentation

- General information
- Promotors documents
- Media



International cooperation

- ERA-NETs
- JPI



About us

- Team
- Contact



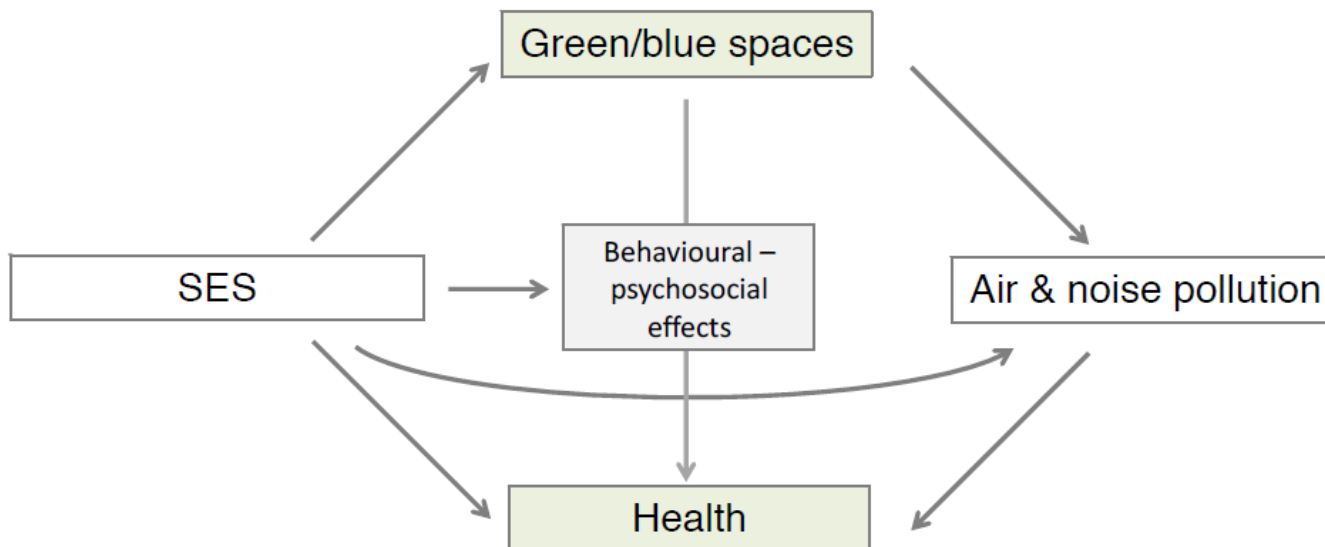
Impact of green/blue spaces on specific morbidity and cause-specific mortality in Belgium: the GRESP-

Hypotheses

- Associations exist between residential proximity to **green and/or blue spaces** and **specific morbidity, perceived health, and all-cause and cause-specific mortality**.
- These associations are partly but not entirely attributable to various underlying **environmental** characteristics of the residential area and to **SE factors**.

The G

Impact of green/blue spaces on mortality in Belgium



DRIVERS of ALLERGIC SYMPTOMS



RESPIRIT

ASSESSING SPATIO-TEMPORAL RELATIONSHIPS
BETWEEN RESPIRATORY HEALTH AND BIODIVERSITY
USING INDIVIDUAL WEARABLE TECHNOLOGY



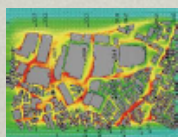
POLLEN LOADS



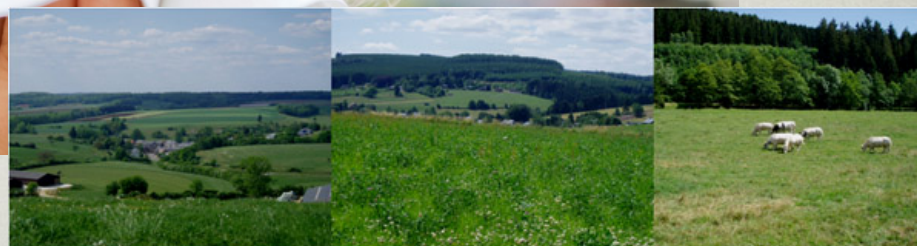
AIR POLLUTION

CLIMATE CHANGE
and ALLERGENICITY
OF POLLEN

**CENTRAL RESEARCH QUESTION: DOES RECENT
EXPOSURE TO PLANT DIVERSITY HAVE AN IMPACT
ON THE ACUTE EXPRESSION OF ALLERGENIC
SYMPTOM SEVERITY?**



MICROCLIMATE



BIODIVERSITY IN THE LANDSCAPE

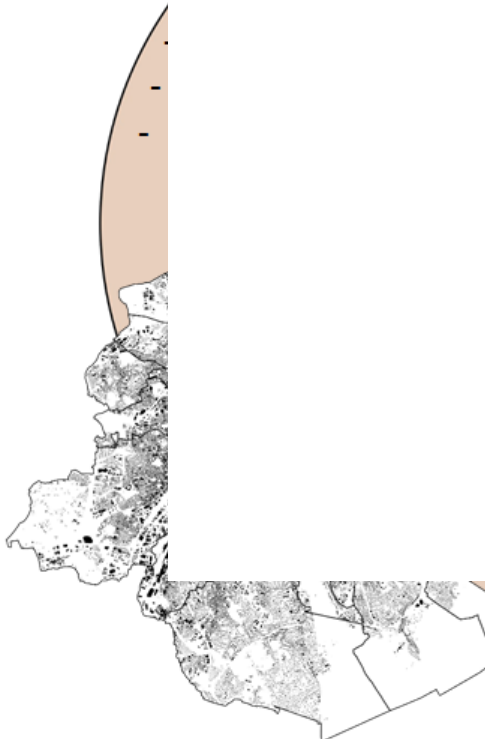


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Nature impact on MEntal health Distribution

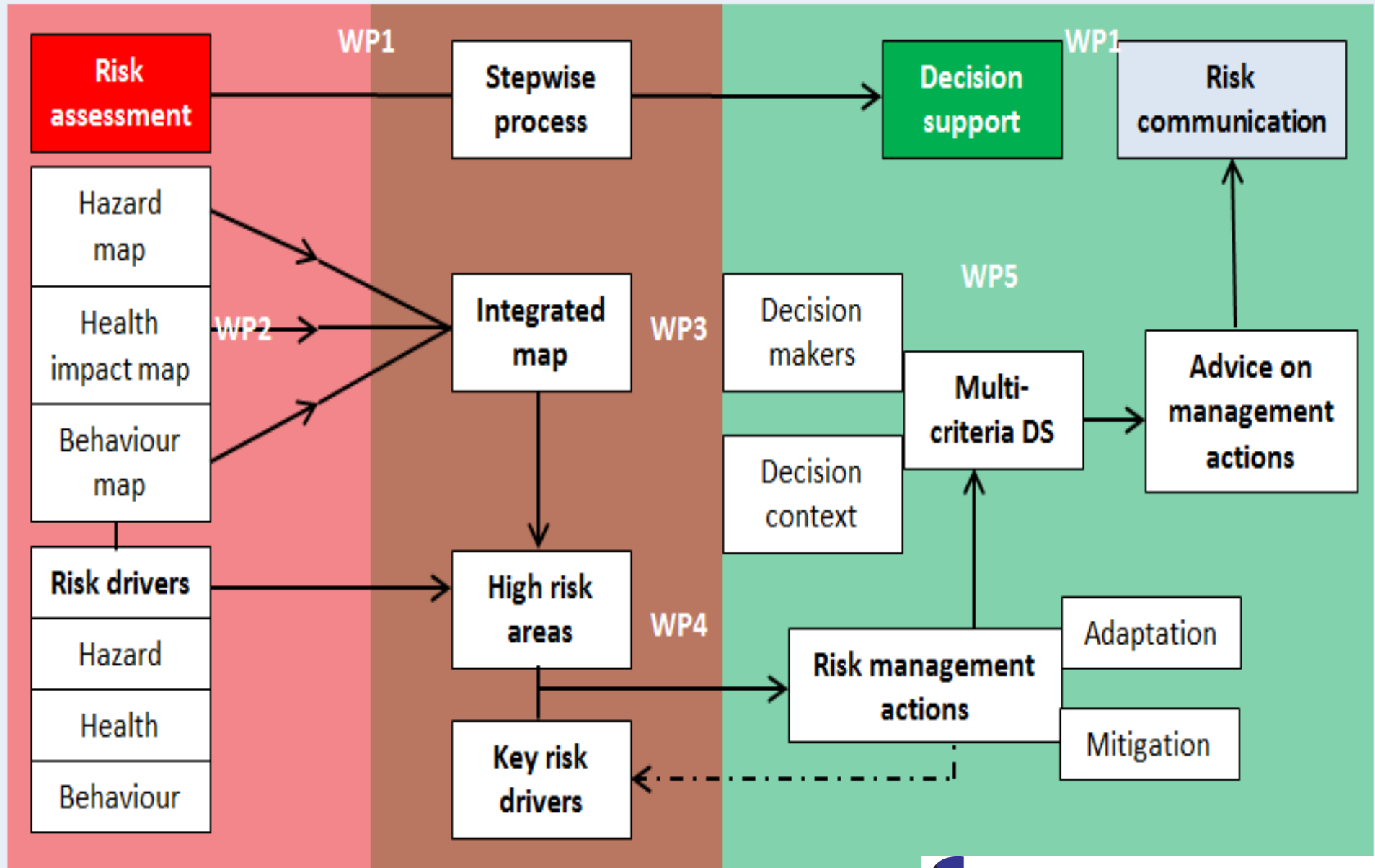
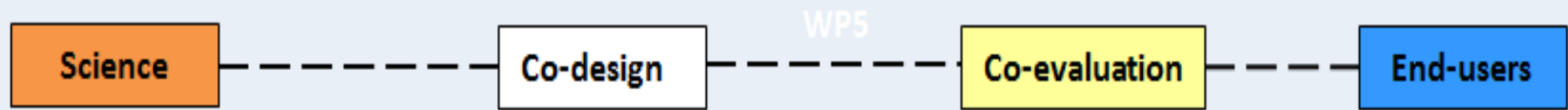
Figuur 4 | Percentage van de bevolking (van 15 jaar en ouder) met recente psychische problemen, gemeten aan de hand van de gedichotomiseerde GHQ-12 score [2+], volgens leeftijd en geslacht, Gezondheidsenquête, België, 2013

50



Example database : Cadastre

NAt



On-going collaborations: more than only science





natuur



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Home »

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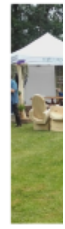
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29 MAAI

Na de s
gezins
Welzijn

Hieron



Natuur en gezondheid

VEEL POTENTIEEL, EN VEEL WERK AAN DE WINKEL!

In deze tekst zetten verschillende organisaties samen het belang van de relatie natuur & gezondheid op de kaart. Eerst goed nieuws: er is al heel wat gaande! Vervolgens gaan we in op volgende stappen: waar liggen de kansen? En wat stellen wij voor als volgende stap: werk aan de winkel! Ten slotte een overzicht van organisaties die hier rond samenwerken.

Goed nieuws!

Eerst het goede nieuws: er is al heel wat kennis en er wordt al heel wat in praktijk uitgetoet. Er is al heel wat onderzoek gedaan. In België begint dit op gang te komen.



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Natuurpunt CVN
Leren zit in onze natuur











roject



Provincie
Antwerpen

In the pipeline:

March 28th 2018 official announcement *Chair
Care & the natural environment* – University of
Antwerp

October 4th 2018 in close collaboration with the
*COPBH: Capacity building and networking
event* – presentations, project-market, try outs,

...

prof. dr. Hilde Bastiaens

Hearing Nature & Health Flemish Parliament Com.

W 111 - D 111 - 119 - F 111

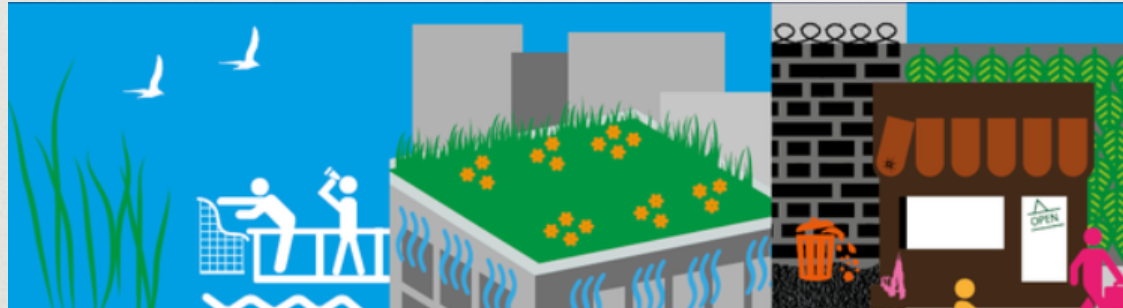


- <https://www.vlaamsparlement.be/commissies/commissievergaderingen/1189721#volledig-verslag>



Hoge Gezondheidsraad: advies in voorbereiding

Green and blue cities: nature and health in an urban setting



A five-step approach is proposed:

- Literature review
- Scoping with stakeholder consultation
- Preparing a draft report
- Stakeholder hearing to assess draft conclusions and recommendations
- Finalizing the advisory report.



Hoge Gezondheidsraad
Conseil Supérieur de la Santé



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International capacity building, collaboration, networking





CBD



Convention on Biological Diversity

Distr.
GENERAL

UNEP/CBD/SBSTTA/REC/XIX/6
4 November 2015

ORIGINAL: ENGLISH

SUBSIDIARY BODY ON SCIENTIFIC,
TECHNICAL AND TECHNOLOGICAL ADVICE
Nineteenth meeting
Montreal, Canada, 2–5 November 2015
Agenda item 4.1

RECOMMENDATION ADOPTED BY THE SUBSIDIARY BODY ON SCIENTIFIC, TECHNICAL AND TECHNOLOGICAL ADVICE

XIX/6. Biodiversity and human health

ipbes
Science and Policy
for People and Nature

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Intergovernmental Platform on Biodiversity and Ecosystem Services
Regional Assessments



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B) Characterization of evidence

C) Key messages

Nature step

Policy step

for People and Nature

Intergovernmental Platform on Biodiversity and Ecosystem Services

Health? Assessments



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<http://www.biodiversity.be/health/58>

Nice people!



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Europe

ANTIMICROBIAL RESISTANCE (AMR) SESSION

This is a report of the session on cross-pollinating agro-eco-human health perspectives to reduce antimicrobial resistance (AMR) threats that took place on 6th October 2016 in Brussels, in the framework of the European OneHealth/EcoHealth workshop organised by the Belgian Community of Practice Biodiversity & Health which is facilitated by the Belgian Biodiversity Platform



Session coordinator: Wim Hiemstra & Aurélie Binot

We

Meet

INTRODUCTION

The session focused on the global threat of antimicrobial resistance (AMR) which poses an important challenge for human, animal and environmental health experts and practitioners to overcome disciplinary silos and quicken understanding and action towards a *One Health*

antibiotic resistance. In the morning session, three presenters reflected on how the human, animal, environmental streams of information on AMR-ABR were brought together in a practical way, thus presenting a systems perspective.

The afternoon session deepened presenters' and

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with i
developed over time. The CD
approach and One Medicine
of the OneHealth concept as

COMMENTARY

Open Access



The need for European OneHealth/ EcoHealth networks

Hans Keune^{1,2,3,4*}, Lucette Flandroy⁵, Séverine Thys⁶, Nick De Regge⁷, Marcella Mori⁷, Nicolas Antoine-Moussiaux⁸, Maarten P.M. Vanhove^{9,10,11,12}, Javiera Rebolledo¹³, Steven Van Gucht¹³, Isra Deblauwe⁶, Wim Hiemstra¹⁴, Barbara Hasler¹⁵, Aurélie Binot¹⁶, Sara Savic¹⁷, Simon R. Ruegg¹⁸, Sjerp De Vries¹⁹, Julie Garnier²⁰ and Thierry van den Berg⁷

Abstract: Elaborating from the European One Health/Ecohealth (OH/EH) workshop that took place in fall 2016 and aimed to bring together different communities and explore collaborative potential, the creation of European networks focusing on the development of important OH/EH perspectives was a direct output from discussions at the end of some sessions, in particular:

- A network on transdisciplinary One Health education.
- A network integrating inputs from social sciences in One Health/EcoHealth actions and networks.
- A network aiming at translating research findings on the Environment-Microbiome-Health axis into policy making, with a view to make healthy ecosystems a cost-effective disease prevention healthcare strategy.

It was also suggested that a European Community of Practice could be initiated in order to support these several concrete networking initiatives, and to help to promote the building of other emerging initiatives.

Keywords: One Health, EcoHealth, Community of Practice, Europe, Interdisciplinarity, Transdisciplinarity, Crosssectorial

Some key conclusions

OH, EH, Planetary Health and related concepts share similar ambitions aimed at the integration of various dimensions and realities that are influencing health.

Although these different concepts have different histories within diverse expert contexts, the core message of integration is basically similar.

It was preferred to underline commonalities, rather than differences, in order to benefit from complementarity.

Implementation of OH/EH concepts can benefit from transdisciplinary and iterative processes between policy, science and practice.

One should however be careful of creating big OH/EH institutions resulting in building fences rather than creating openness to (new) collaborations. This may be overcome by focusing on open, collaborative networks like Communities of Practice

Network ideas

A network on transdisciplinary One Health education.

A network integrating inputs from social sciences in One Health/EcoHealth.

A network aiming at translating research findings on the Environment-Microbiome-Health axis into policy making.

A European Community of Practice could be initiated in order to support these several concrete networking initiatives, and to help to promote the building of other emerging initiatives.



**Network
for Evaluation
of One Health**



Network for Evaluation of One Health (NEOH)

Barbara Häsler, NEOH chair, Royal Veterinary College and Leverhulme Centre for Integrative Research on Agriculture and Health, United Kingdom

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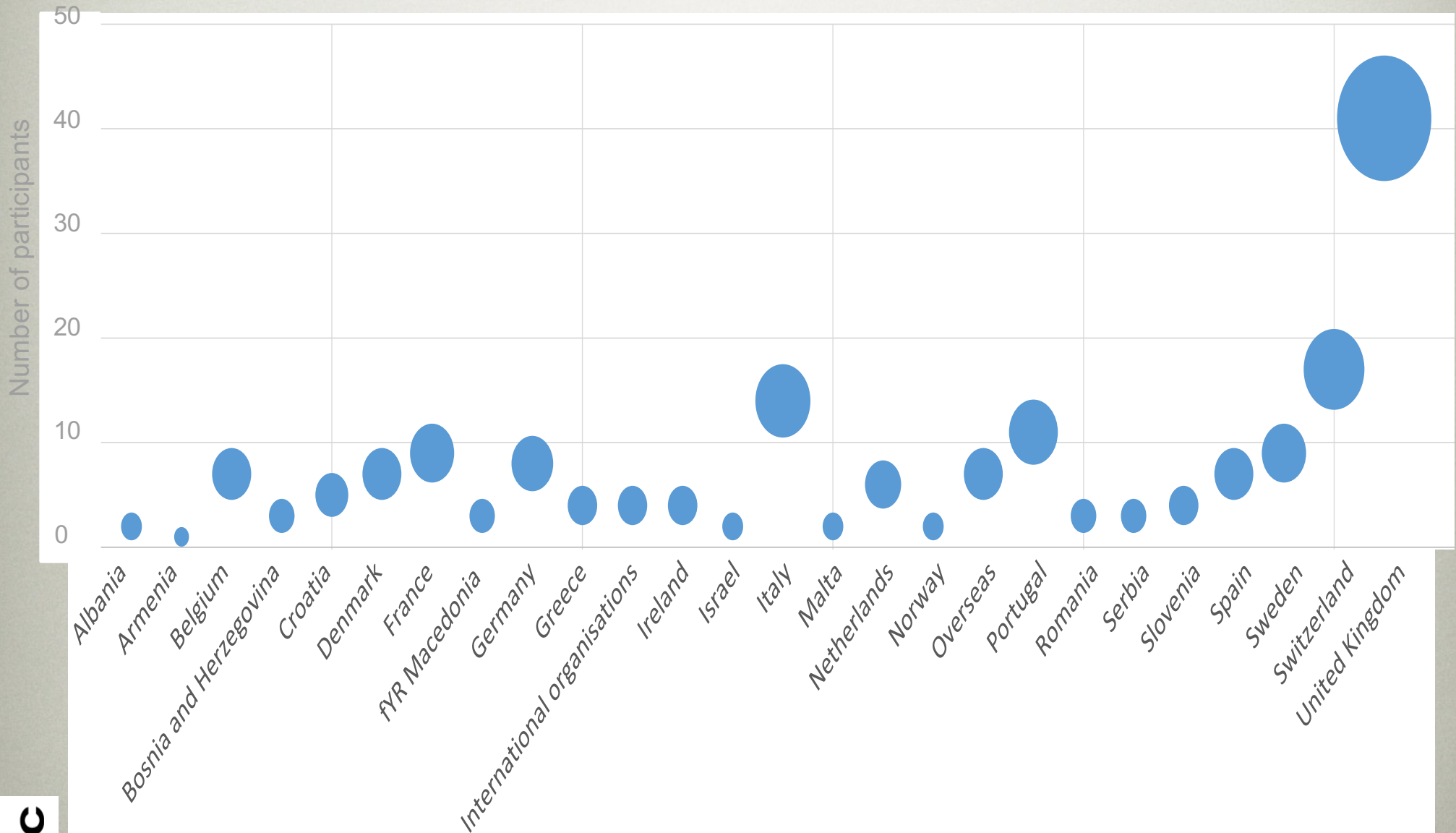
NEOH definition of One Health

A paradigm that addresses complex challenges to promote the health and well-being of all species and the environment through the integration of relevant sciences at systems level

Substantial overlaps and links with the **Ecohealth** movement



NEOH members and associates



Next step after NEOH

Network European OneHealth/EcoHealth

Open network, open for other networks – ECA region

Integration:

- Nature related health benefits & risks
 - Social science

Capacity building/mainstreaming:

- European OneHealth/EcoHealth Summer school
- Networking on education and capacity building

Next meeting:

Second European OneHealth/EcoHealth meeting

September 10 – 15 2018

Bologna, Italy

Multi-level



Biodiversity and Health

Chapter

On the importance of OneHealth/EcoHealth networks

Open invitation for contributions about national, regional, international experiences, needs

What are your experiences?

What goes well?

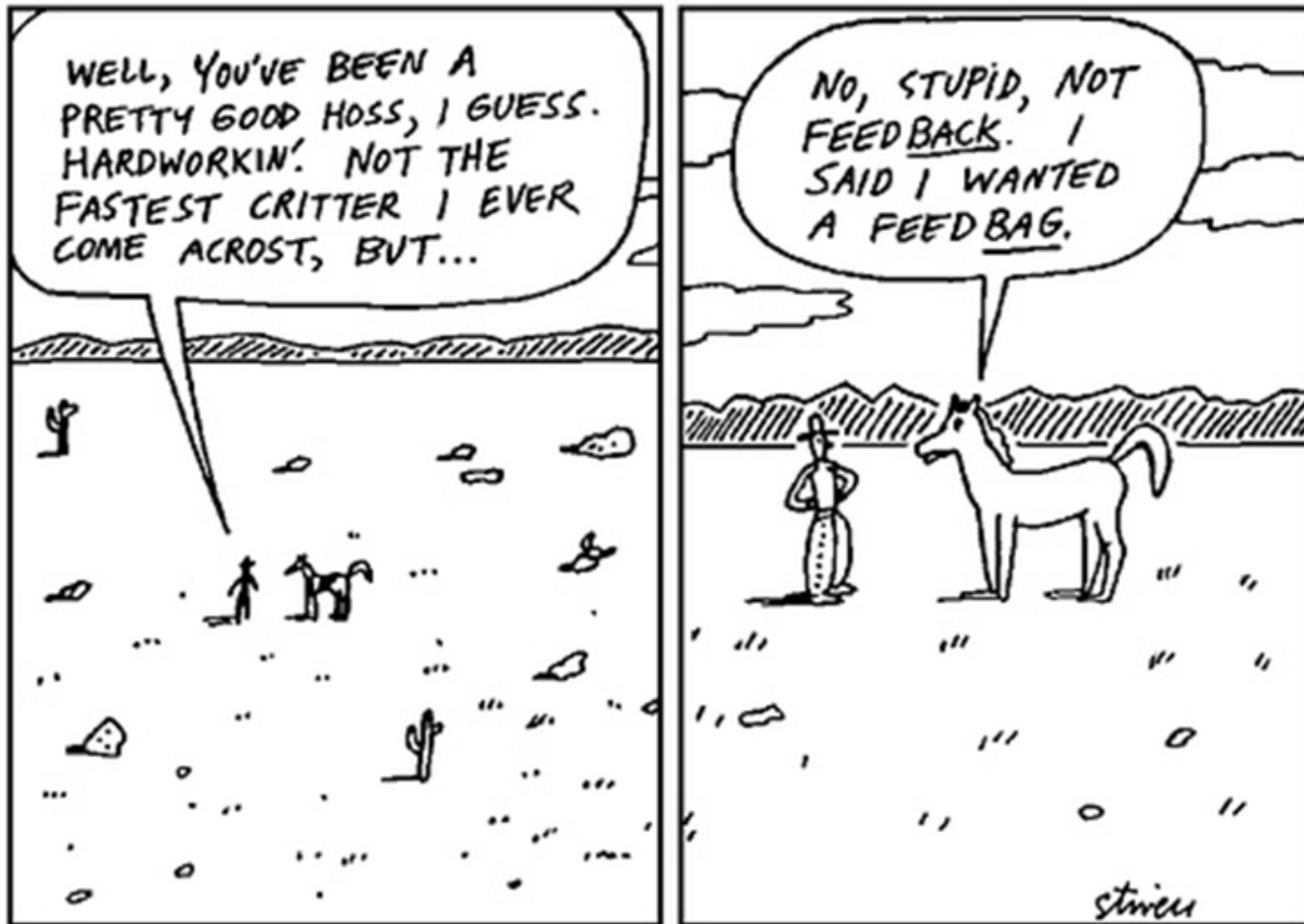
What are your needs?

What are your challenges?

Interested to collaborate? hans.keune@inbo.be



Thank you!



hans.keune@inbo.be