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Network for Evaluation of One Health (NEOH)

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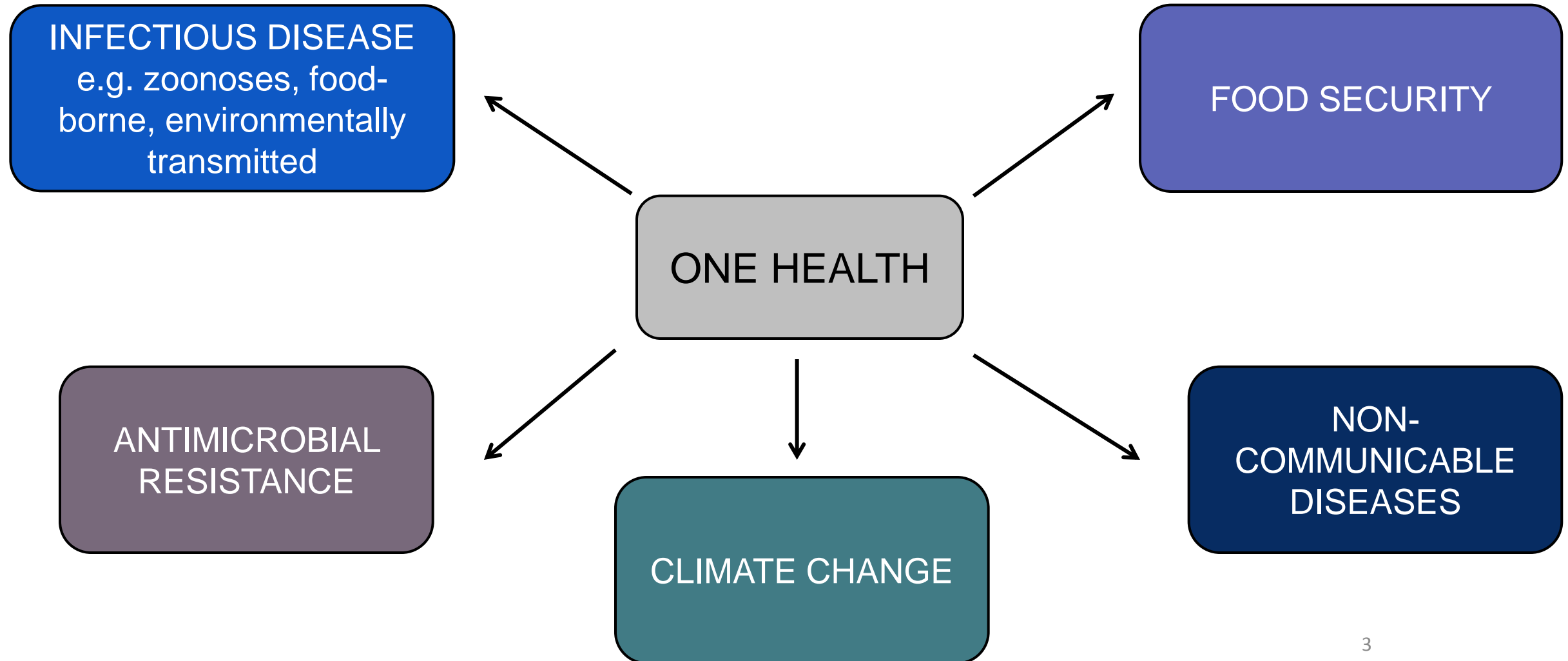
NEOH definition of One Health

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



Applying a One Health approach



NEOH Rationale

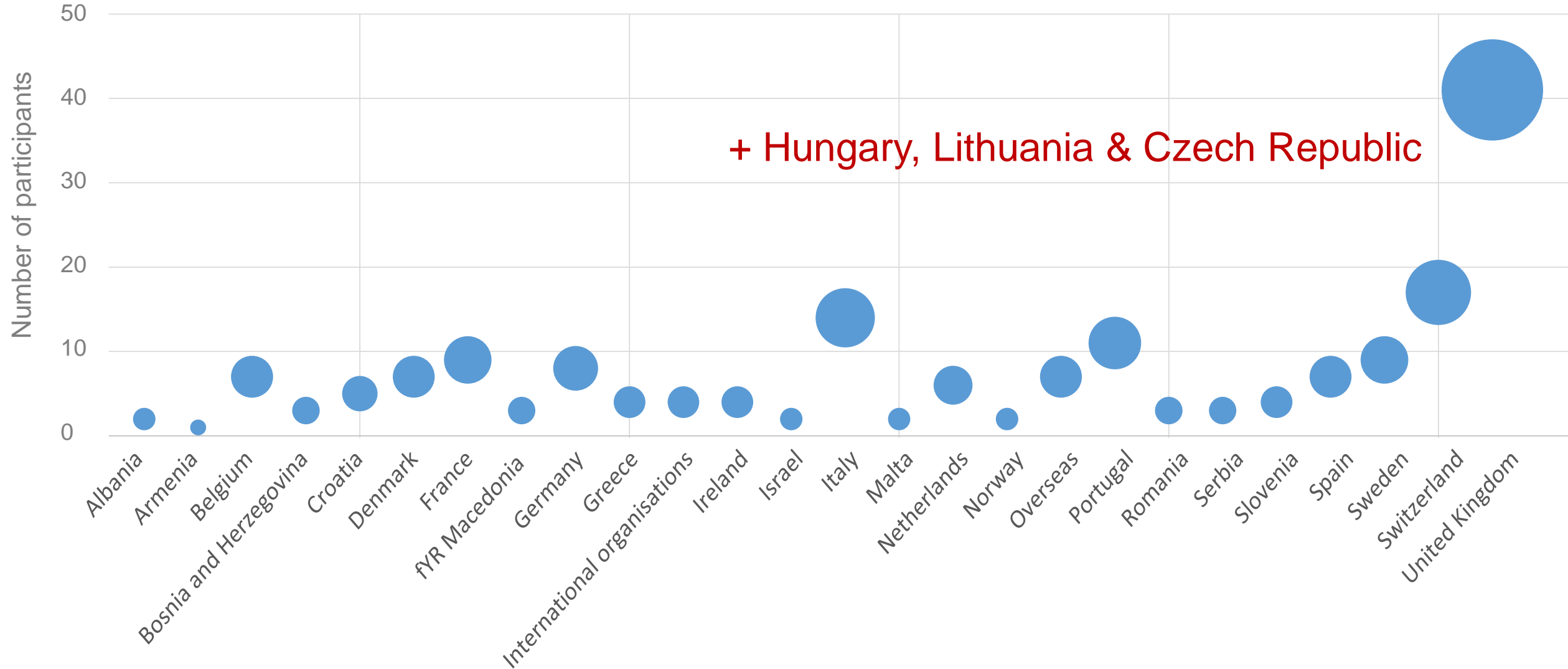
- One Health approach gathering momentum
- Few studies measuring benefits or added value of One Health
- Lack of
 - Standardised methods, approaches and data to evaluate One Health activities
 - Robust evidence base for informed decision-making and resource allocation
- Problem:
 - Different sectors use different metrics for measuring outcomes



NEOH aim

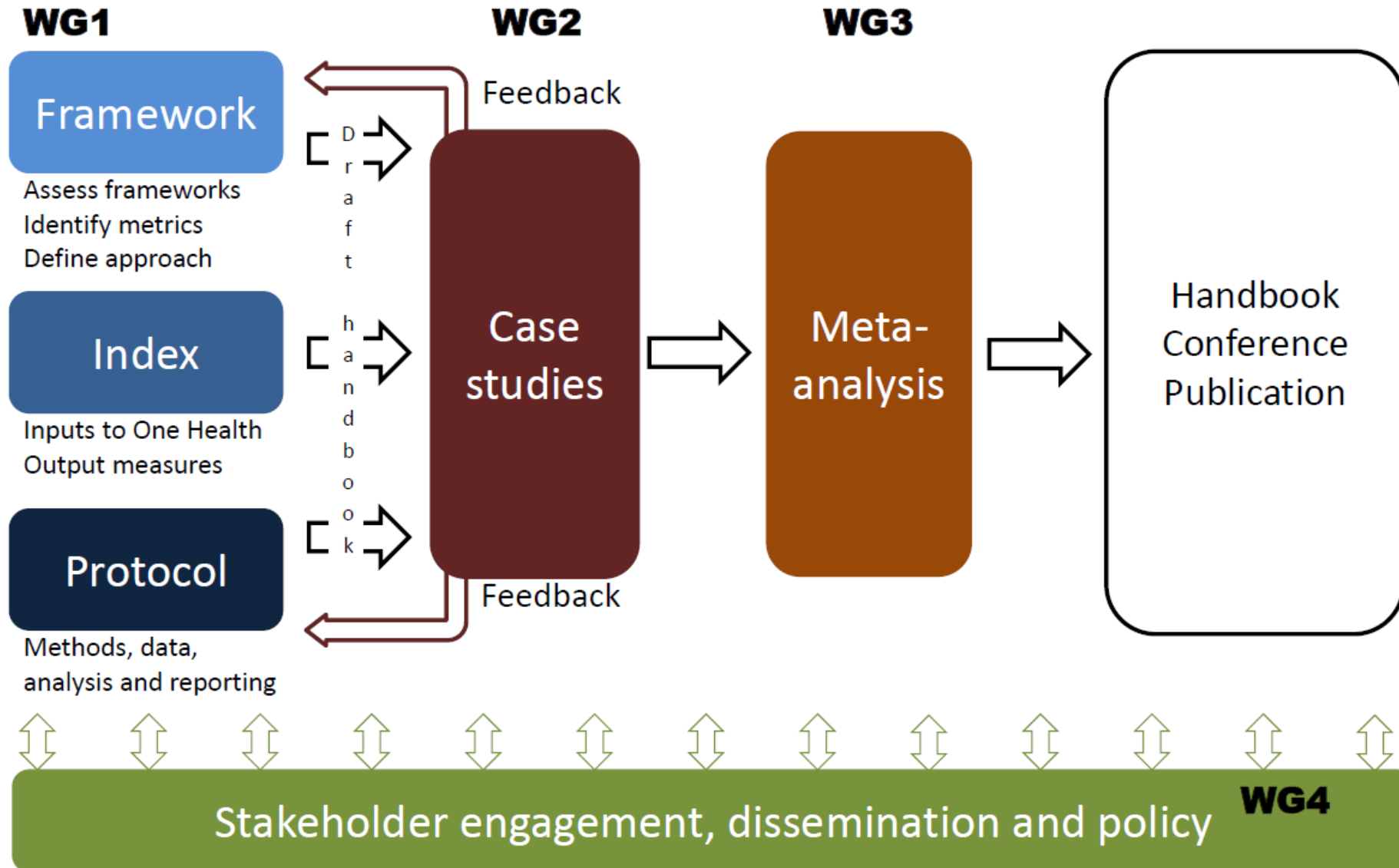
- To enable future quantitative evaluations of One Health activities by developing and applying a science-based evaluation protocol in a community of experts
- Deliverables:
 - 1) a standardized framework for the evaluation of One Health
 - 2) a suite of example evaluations of One Health initiatives
 - 3) a networked community of experts collaborating to assess the value of One Health
 - 4) a pool of early-stage researchers trained in performing One Health evaluation

NEOH members and associates



Open network, EU COST funded, 4 years, >200 members

Working groups



NEOH handbook



1. Evaluation of approaches to health

2. Roadmap to a OH Agenda 2030

3. OH Evaluation Framework

4. OH methods & metrics I: ecological dimension

5. OH methods & metrics II: social sustainability

6. OH methods & metrics III: economic evaluation

7. OH methods & metrics IV: interactions and integration of parts I-III

8. OH governance

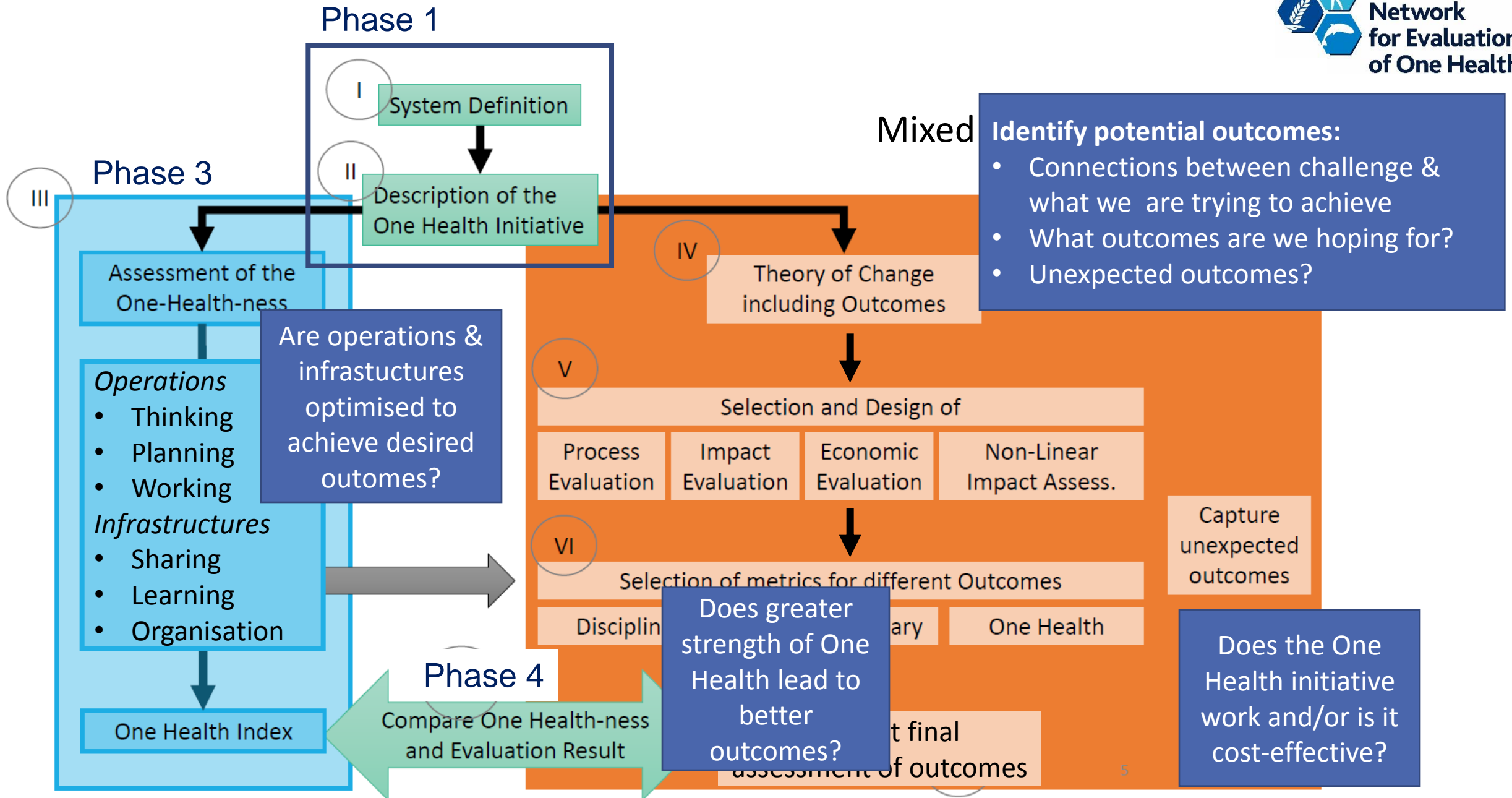
9. NEOH Glossary

10. Case studies (WG2)

11. Meta-analysis (WG3)

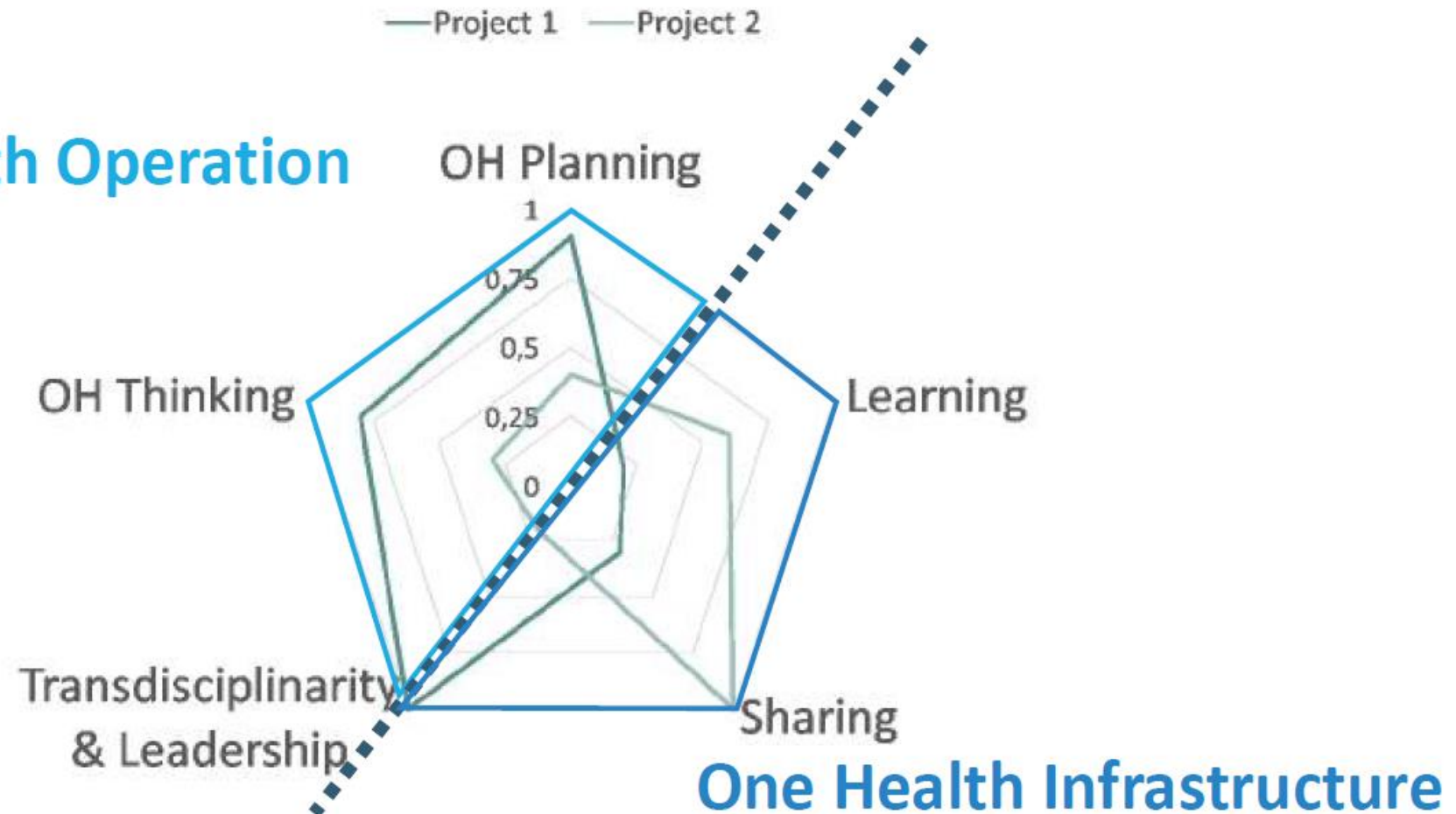
12. Reassessment of theory and methods

Overview of evaluation framework



One Health index & ratio

One Health Operation



Application to case studies

- Ongoing One Health projects in which NEOH participants are involved
- 12 case studies evaluated
- Criteria:
 - Impact on humans, animals (and environment)
 - Relevance at European level
 - Interdisciplinarity & intersectorality
 - Measurable benefits of One Health

Case studies I

Title

Leader

- | Title | Leader |
|--|--|
| 1 Human and canine obesity: One Health Approach | Asta Tvarijonavičiute |
| 2 "Portuguese observatory of taeniasis and cysticercosis": a One Health example for epidemiological surveillance of a neglected disease in a European country. | Ana Claudia Coelho |
| 3 Comparison of Eradication of Brucellosis in Malta with a Case Study on Eradication of Brucellosis in Serbia | Sara Savic,
Sandra C. Buttigieg |
| 4 UC-Care process evaluation | Liza Rosenbaum Nielsen,
Anaïs Léger |
| 5 First report on MRSA recovered from wild boars in the north of Portugal. Omic tools to characterize methicillin resistant Staphylococcus aureus recovered from wild animals: the labile epidemiology of virulence and drug resistance. | Patrícia Poeta |
| 6 Use of acaricides to control ticks and tick-borne diseases in Zambia: Implications in Public & Environmental Health | Daniele De Meneghi,
Gaby Laing,
Maurizio Aragrande |

Case studies II

Title	Leader
7 International One health master program in Western Balkan universities	Joze Staric, Sabina Seric-Haracic
8 ComAcross: InterRisk Master	Flavie Goutard
9 ComAcross: long-term study on parasitic food born diseases in South Lao	Flavie Goutard
10 West Nile virus integrated Surveillance in Northern Italy: impact evaluation	Barbara Vogler, Giulia Paternoster, Laura Tomassone
11 Evaluation of an Animal Welfare Center from the One Health Perspective	Miroslav Radeski
12 Evaluation of the implementation of One Health in Kenya: A case study of the Zoonotic Disease Unit (ZDU)	Kelvin Momanyi

Next steps...

- Complete evaluation of case studies
- Meta-analysis/integrated analysis of case studies
- Refinement and editing of handbook chapters
- Production of an applied version of handbook



Further information

NEOH website <http://neoh.onehealthglobal.net/>

Ruegg SR et al. (2017) “A blueprint to evaluate One Health”. *Front. Public Health* 5:20. <https://doi.org/10.3389/fpubh.2017.00020>

Special NEOH edition of Frontiers “Concepts and experiences, integration and evaluation of One Health and EcoHealth”
<http://journal.frontiersin.org/researchtopic/5479/concepts-and-experiences-in-framing-integration-and-evaluation-of-one-health-and-ecohealth>