Network for Evaluation of One Health - NEOH

Workshop on evaluation of data and information sharing in One Health initiatives
Faculty of Health and Medical Science, University of Copenhagen, Denmark

Barbara Häsler, bhaesler@rvc.ac.uk

LCIRAH
Leverhulme Centre for Integrative
Research on Agriculture and Health

cost
EUROPEAN COOPERATION
IN SCIENCE AND TECHNOLOGY

The challenges

- Malnutrition & food safety
  - Double burden of malnutrition; food systems that deliver the wrong diets

- Emerging zoonotic diseases
  - Boom in global demand for animal products creates new risks

- Endemic infectious disease, zoonoses and antimicrobial resistance
  - Greatest human and animal health burden

- Food production under environmental change
  - Livestock production as a major contributor to greenhouse gas emissions

Network for Evaluation of One Health

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

Can it provide solutions?

The dilemma

- One Health intuitively appealing
- Multiple benefits and added value perceived and described

What's lacking
- Not mainstream (yet)
- No systematic resource allocation

What's needed
- **Standardised methods, approaches and data to evaluate One Health activities**
- Robust evidence base for informed decision-making and resource allocation

Our vision

To develop and use methods and frameworks for improved One Health decision making
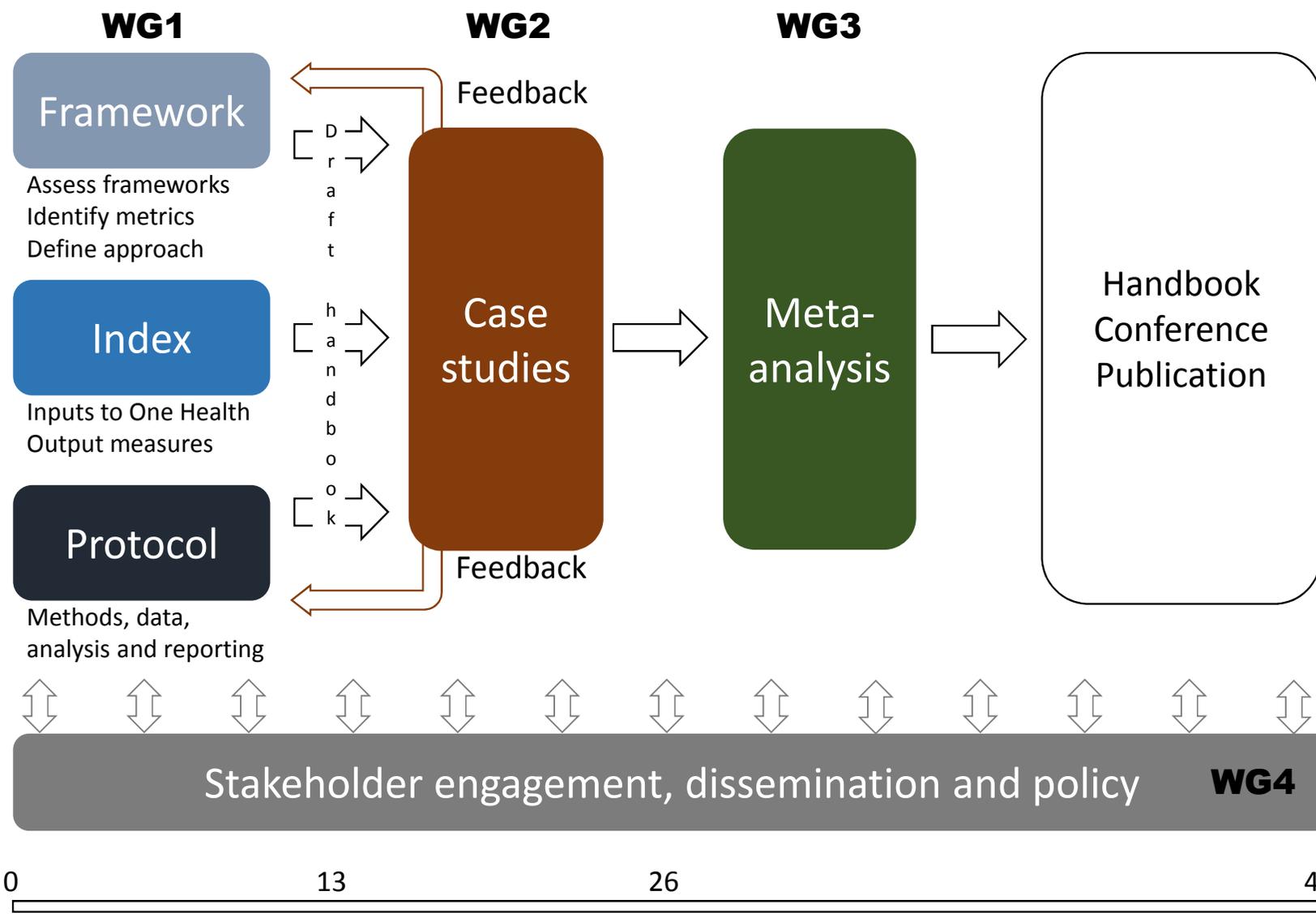
Our goals

1. To develop a robust and standardised evaluation approach (WG1)

2. To evaluate and compare existing One Health initiatives (WG2 and WG3)

3. To involve decision-makers in network activities (WG4)

4. To create the interdisciplinary network required to address the evaluation of One Health (cross-cutting)

Our approach

WG1

Framework

Assess frameworks
Identify metrics
Define approach

Index

Inputs to One Health
Output measures

Protocol

Methods, data,
analysis and reporting

Draft handbook

WG2

Feedback

Case studies

Feedback

WG3

Meta-analysis

Handbook
Conference
Publication

Stakeholder engagement, dissemination and policy **WG4**

0   13   26   48

Network
for Evaluation
of One Health

Networking tools used

- Meetings and training
    - Working Group Meetings, Workshops
    - Short Term Scientific Missions
    - Training Schools
- Dissemination tools
    - Website
    - Presentations at conferences
    - (Scientific) publications
- Networking with existing initiatives
- Internal communication
    - Alfresco document management and sharing system
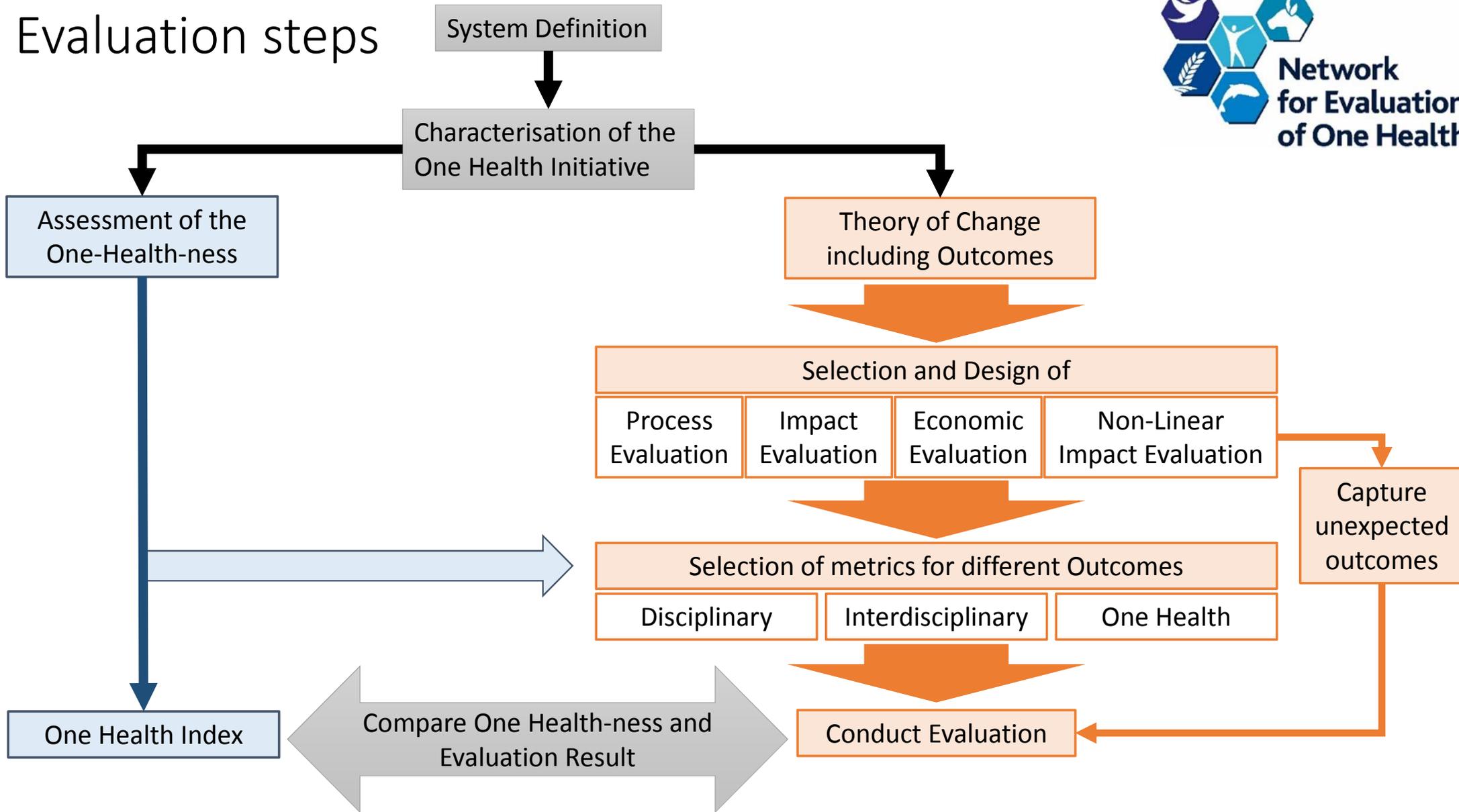   - MoU, Roadmap, Milestones, Factsheet, NEOH Consortium list

Handbook content

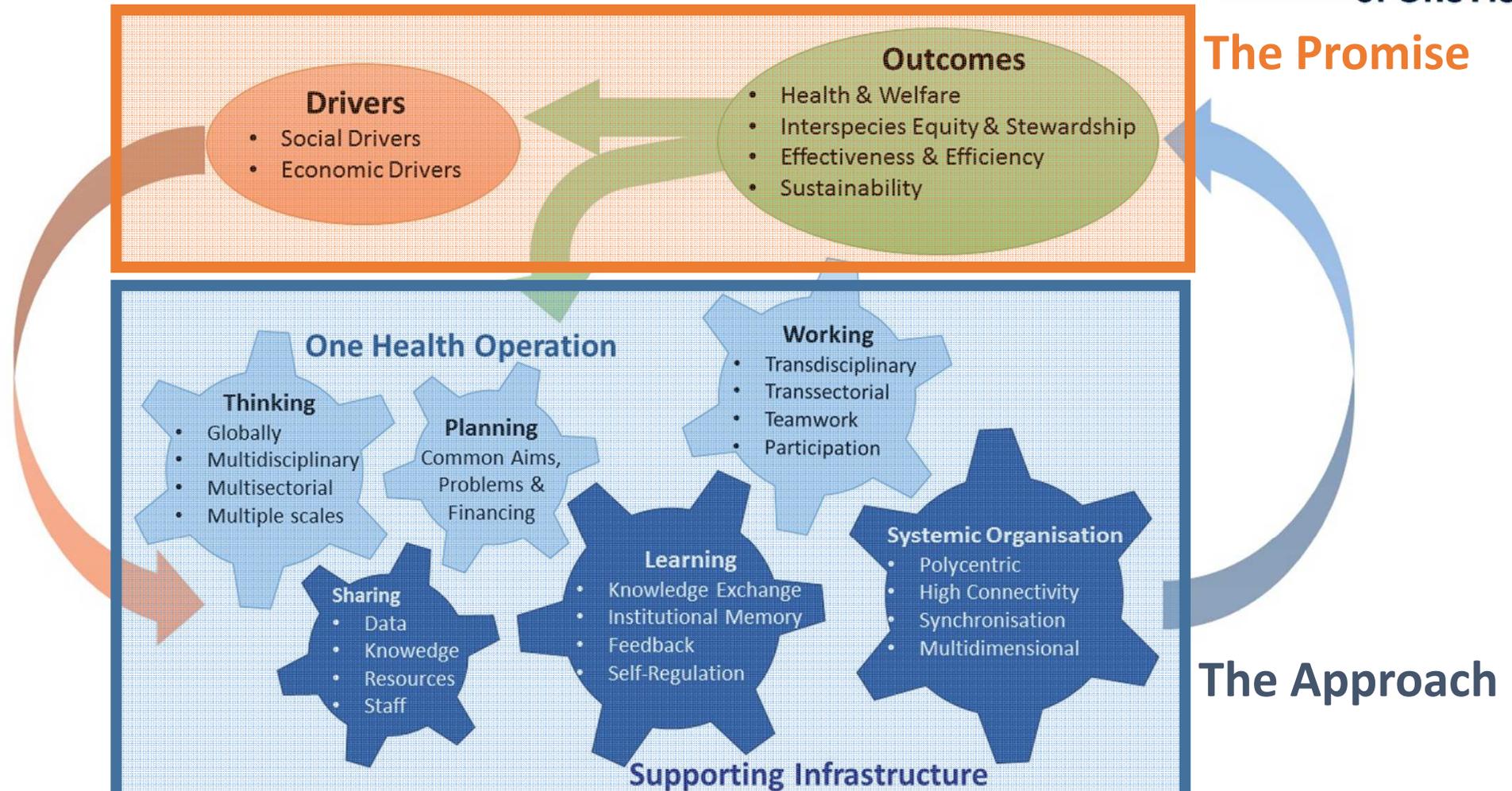| Chapter |
| --- |
| 1. Current state of evaluation of health initiatives |
| 2. Approaches to health and the Sustainable Development Goals |
| 3. One Health Evaluation Framework |
| 4. One Health Metrics and Methods |
| 5. One Health Governance |

Evaluation steps

System Definition

→ **Characterisation of the One Health Initiative**

Assessment of the One-Health-ness

Theory of Change including Outcomes

Selection and Design of

| Process Evaluation | Impact Evaluation | Economic Evaluation | Non-Linear Impact Evaluation |

Selection of metrics for different Outcomes

| Disciplinary | Interdisciplinary | One Health |

Capture unexpected outcomes

One Health Index

Compare One Health-ness and Evaluation Result

Conduct Evaluation

Network for Evaluation of One Health

Working group 1 meeting and training school on evaluation
Cluj, Romania, June 2015

Network for Evaluation of One Health
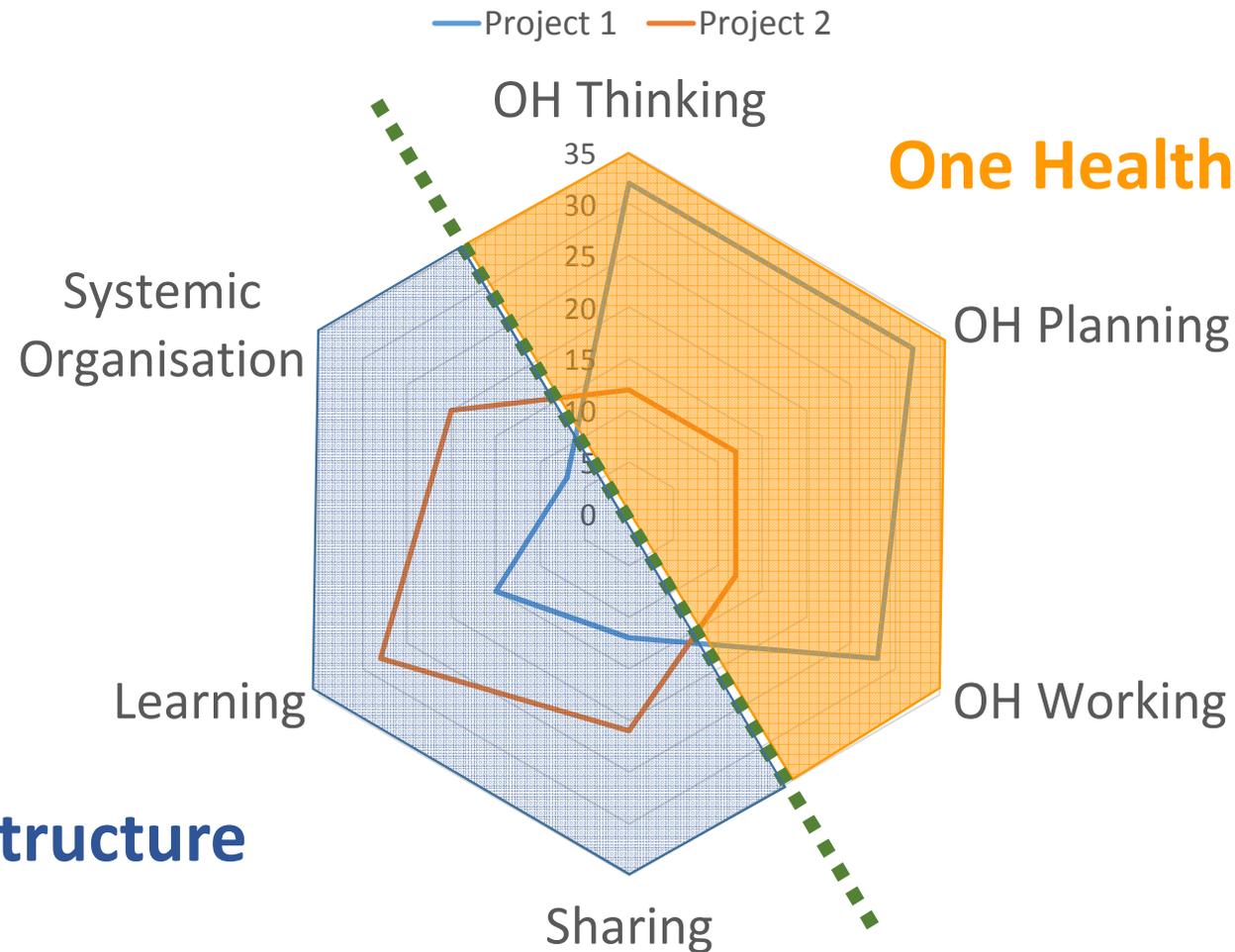
One Health characteristics

Evaluation of One Health-ness

Workshop

To provide

1) an **overview of existing knowledge and methods on opportunities and challenges in data and information use, sharing**, and examples of systems in which sharing is already underway

2) an introduction to **evaluation methods for data and information sharing** mechanisms

3) a **discussion forum on how to further develop evaluation methods on data and information sharing methods and mechanisms** in One Health research, governance and surveillance settings including quantitative measures describing barriers and accessibility of data within a community