





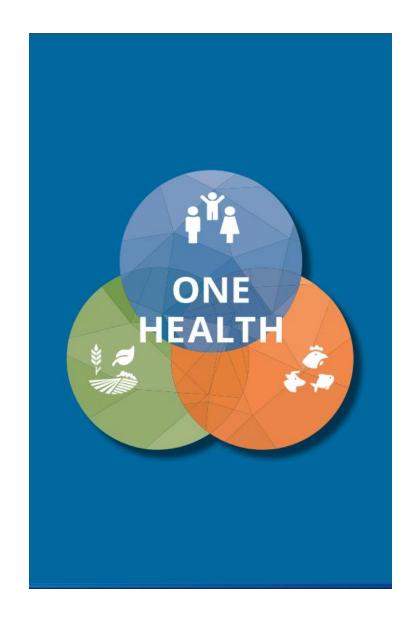


Implementing One health surveillance systems:

What have we learnt from the One Health European Joint Project Matrix?



One Health European Joint Project







OHEJP MATRIX



MATRIX: Connecting dimensions in One Health surveillance



Major outputs

JUCC

Roadmap to develop National OHSS

https://ohras.eu/page/home

(courtesy of: https://ohras.eu/page/home)

OH-EpiCap Tool
 https://onehealthejp.eu/wp-content/uploads/2022/11/OHEJP-MATRIX_OH-EpiCap-flyer.pdf

- Guidelines and checklists
 - Step-wise guide to developing OHSS from existing structures https://ejp-matrix.eu/
 - Best practices to operationalise cross-sectoral collaborations https://zenodo.org/records/7053387#.Y5nYiHbMJPY
 - A guide to design, implement, and evaluate official controls within the food safety sector using output-based standards

https://zenodo.org/records/7390006#.Y5nYjnbMJPY

Manual for OHSS dashboards
 https://sva-se.github.io/MATRIX-dashboards/

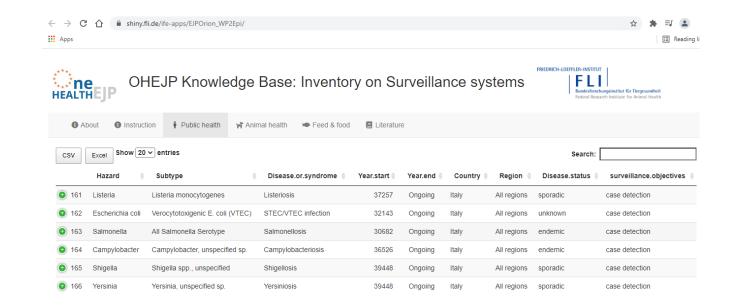


Step-wise guide to creating OHSS from existing structures

 Review existing structures

Literature review

Expert interview





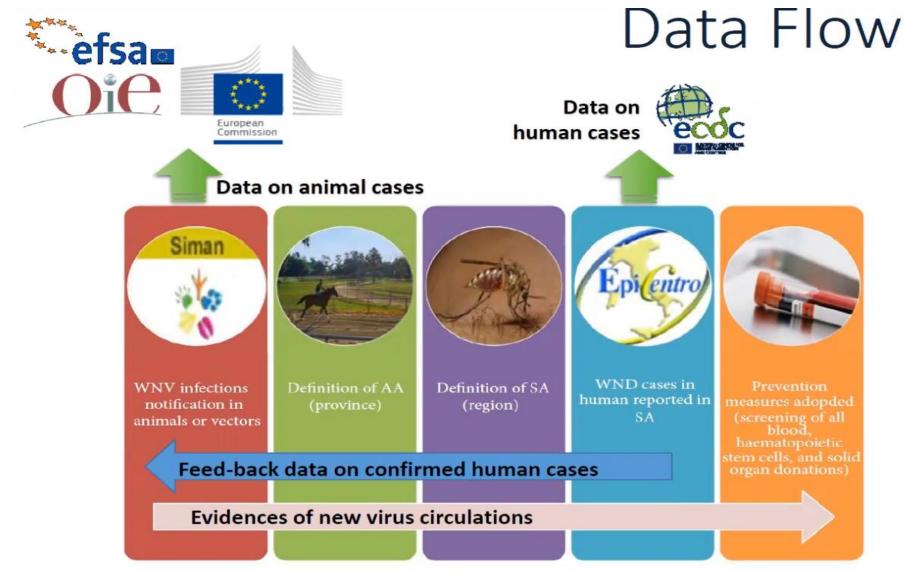
Existing OHSS

'a system in which collaborative efforts exist across at least two sectors (among human health, animal health, food safety and environment) in the surveillance process to produce and disseminate information with a purpose to improve any of human, animal or environmental health'

Country	Pathogen(s) under surveillance
Norway	Listeria
Italy	West Nile Virus
Austria	West Nile Virus
Greece	West Nile Virus
Portugal	Observatory of Taeniasis and Cysticercosis
Tanzania	Zoonotic pathogens
England	AMR
Denmark	AMR
France	Salmonella
Germany	Salmonella
England	Salmonella
Denmark	Campylobacter
The Netherlands	Campylobacter
Switzerland	Campylobacter
The Netherlands	Dutch zoonosis signalling platform



WNV Surveillance Italy

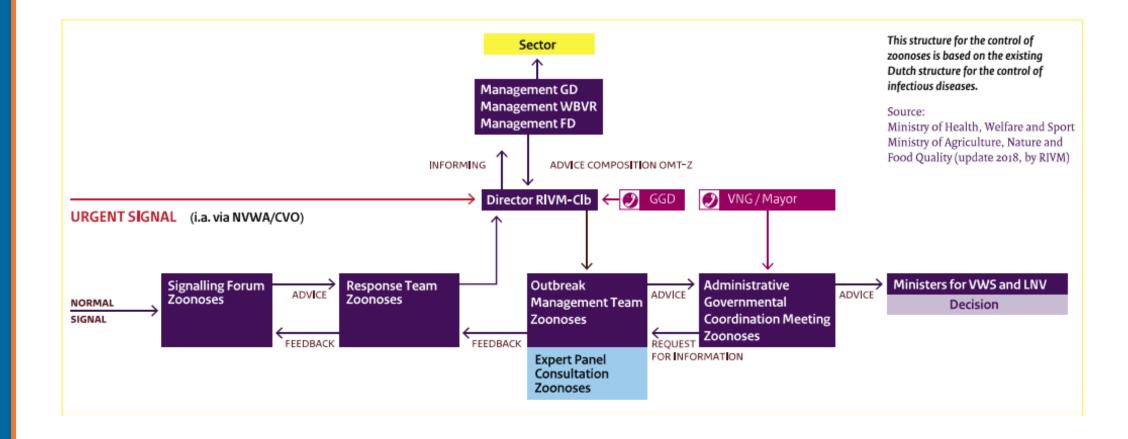


AA = affected area
SA = surveillance area

Courtesy of: Daria DiSabatino Istituto Zooprofilattico Sperimentale dell'Abruzzo e del Molise "Giuseppe Caporale", Teramo, Italy

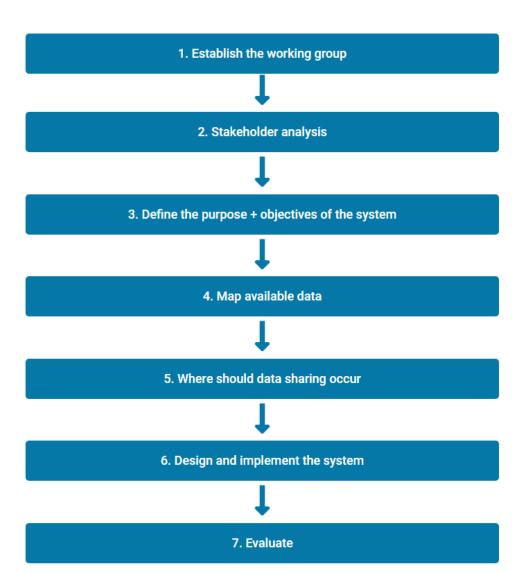


Dutch Signalling Forum Zoonoses





Step-by-step guide to creating OHSS from existing structures





1. Establish the working group

• Who:

- One representative from each sector
- an IT specialist/ programmer
- a social scientist
- a person with appropriate legal training to identify and interpret laws relevant to the project
- Assign members to a 'core' or 'support' function
- Establish trust between members each member should actively seek to better understand the other sectors



Stakeholder analysis

1. Identify stakeholders

Design, Data adjustment Data Data outcome Response and Sample Laboratory transfer and and collection analysis interpretation /communication prioritisation analysis collation optimisation

- With decision making power from each sector
- With access to, or power over resources from each sector
- Who represent the regulatory sectors
- Who are respected persons, or person perceived as champions within a field
- 2. Characterise stakeholders
- 3. Engage with stakeholders

Estimated influence and interest				
Influence	Interest			
High	High			
Low	High			
High	Low			
Low	Low			



3. Define the purpose and objectives of the system

- Frames the design of the system and subsequently the data needed
- Common purpose and common objectives
 - Developed jointly with all stakeholders

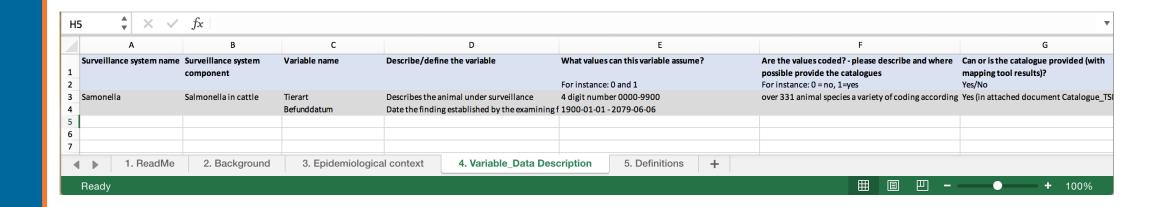
Benefits of creating a common purpose and objectives:

- 1. Creates a clear and unified vision
- 2. Improves the likelihood of stakeholder buy-in and subsequent success of the project as each stakeholder has the chance to express the needs of their sector
- 3. Supports improved inter-sectoral understanding and subsequently builds trust between the stakeholders due to the interactive nature of the activity



4. Map the available data

- 1. Identify all available data sources
- 2. Map the different data sources
 - Background
 - Epidemiological and situational context within which the system operates
 - Detailed description of variables





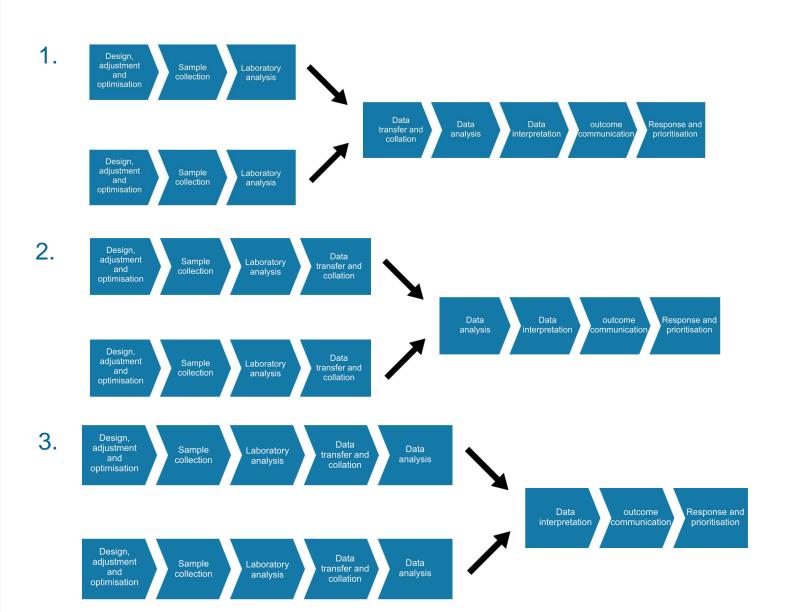
5. Where should data sharing occur

- 1. Where along the surveillance pathway do data NEED to be shared
- 2. Where along the surveillance pathway CAN data be shared
 - Technically
 - Legally





6. Design and implement the system





7. Evaluate the system

Evaluation framework, guideline or tool	Comments	Access
NEOH	An evaluation framework based on a systems approach to evaluate the 'One Health-ness' of OH initiatives	Wageningen Academic Publishers
ОНЕріСар	An evaluation tool to assess the OH capacity in an existing OH surveillance system	Beta version
ISSEP	The added value for integrated surveillance of AMR	paper
CDC Guide to evaluating public health surveillance systems		CDC Guidelines
EcoSur	multisectoral collaboration	EcoSur
Framework for evaluating public health surveillance systems for early detection of outbreaks	mostly for syndromic surveillance systems	CDC
Joint External Evaluation tool	country capacity to prevent, detect and rapidly respond to public health threats	WHO pdf



Summary

- MATRIX outputs
- Review of existing OH systems
- Step-by-step guide to creating OHSS from existing structures







Thank you for your attention!







@OneHealthEJP



/company/h2020-One-Health-EJP



OneHealthEJP.eu







What are the commonalities and differences: Hazards?

Hazard or Syndrome/Disease	Animal health	Public health	Food safety
*Anthrax	✓	✓	
*Brucellosis	✓	✓	
*Psitticosis	✓	✓	
*Ebola	✓	✓	
*Echinococcosis	✓	✓	
Enterococcus		✓	✓
*Escherichia coli		✓	✓
Influenza	✓	✓	
*Leptospirosis	✓	✓	
*Prion diseases	✓	✓	
*Q Fever	✓	✓	
*Rabies	✓	✓	
*Toxoplasmosis	✓	✓	
*Tularemia	✓	✓	
*West Nile	✓	✓	
*Campylobacterosis	✓	✓	✓
*Listeriosis	✓	✓	✓
*Methicillin-resistant Staphylococcus aureus	✓	✓	✓
*Salmonellosis	✓	✓	✓
*Trichinosis	✓	✓	✓