

What is One Health

One Health Definition developed by the OHHLEP



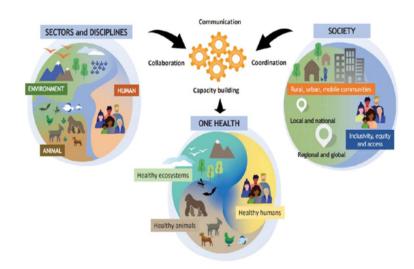
"One Health is an integrated, unifying approach that aims to sustainably balance and optimize the health of people, animals and ecosystems.



It recognizes the health of humans, domestic and wild animals, plants, and the wider environment (including ecosystems) are closely linked and interdependent.



The approach mobilizes multiple sectors, disciplines and communities at varying levels of society to work together to foster well-being and tackle threats to health and ecosystems, while addressing the collective need for clean water, energy and air, safe and nutritious food, taking action on climate change, and contributing to sustainable development".



Goal: Achieve optimal health outcomes through collaborative efforts across multiple sectors and disciplines



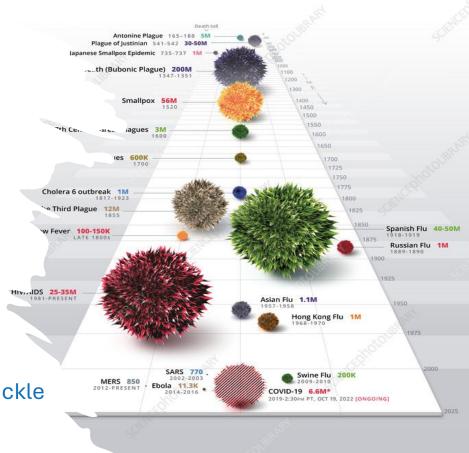
PLOS PATHOGENS

Why One Health is Important

Increasing risk of pandemics

The probability of a pandemic with a similar impact to COVID-19 is about 2% in any year.

This means that the probability of experiencing it in one's lifetime is about 38%



No one sector or one discipline can tackle health threats alone

Drivers of Health Risks

Human - Animal - Environment interface

Inequality, Fragility, Violence Unsustainable Habitat livestock production Agricultural Wildlife trade Land use changes encroachment and and value chain expansion deforestation **Forests** risks Drivers are Inter-connected Cities Climate change and Farms Poverty and Underinvestment in Human and Population growth extreme weather inequality One Health system animal movements events

Three core domains related to land use, food systems, and urbanization influenced by two crosscutting domains—climate change, inequality, and fragility

Insufficient attention to financing risk reduction and prevention

Ignored lessons from previous crises

Ongoing cycle of panic and neglect

Disregarding strong investment case: cost of prevention and preparedness is lower than response

The Need for Change

Recent events underscore the critical connection between human, animal, and environment health and the consequences of neglecting it



75% of emerging infectious human diseases have an animal origin



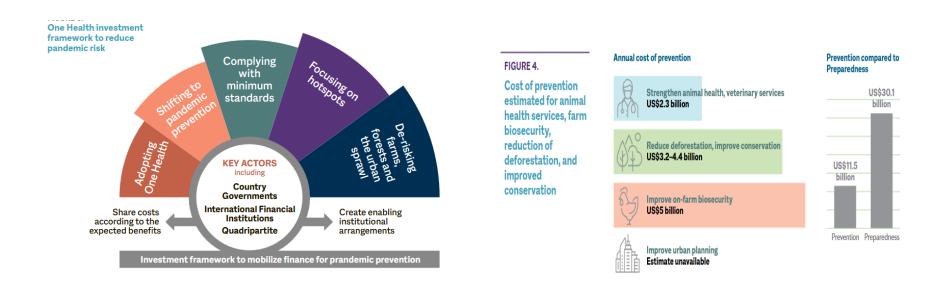
Human actions have severely altered 75% of terrestrial environments and 66% of marine ecosystems



Close contact
between people
and wild and
domestic animals
leads to more
opportunity for
disease spillover

- Growing urgency to prevent health risks as pathogens & resistance genes cross all boundaries
- Requires systems, policies and procedures to be put in place
- Need multisectoral & multidisciplinary action
- Joint use of diverse knowledge & technical innovations

One Health Economic Benefits



Global evidence:

Every \$1 invested in One Health yields \$5 or more in savings on outbreak response and recovery.

The World Bank's flagship report lays out the economic case for One Health—highlighting that a comparatively modest annual investment of \$10–11.5 billion could help prevent pandemics and potentially save up to \$30 billion per year in response costs, plus generate high returns (up to 86%) in saved lives and avoided economic damage.

source: https://hdl.handle.net/10986/38200

Benefits of the One Health approach

- •VBD outbreaks impose massive economic costs:
- •Bluetongue Virus (2006–2009): Estimated €1 billion losses in Europe in direct and indirect costs
- One Health reduces long-term costs by:
- •Enabling **early detection**, avoiding widespread epidemics.
- •Supporting **coordinated interventions**, reducing redundant or conflicting measures.
- •Promoting **sustainable vector control**, cutting repetitive pesticide and treatment costs.

Ability to tackle complex health threats head-on by:

- Sharing resources
- Reducing duplication
- Providing a framework for collaboration

One Health is not only scientifically essential but economically smart—protecting health and economies simultaneously.

Key One Health Areas at WOAH to Prevent Health Risks



WOAH is committed to the One Health approach to confront these complex global challenges



Standards & Policy Development



Capacity Building



Advocacy and political engagement



Raising Awareness



Science, Research and Data Sharing



Enhancing emergency Preparedness and Response Frameworks



Global Collaboration



Surveillance and Early Warning Systems

Advancing One Health through the Quadripartite Collaboration

Strategic Priorities









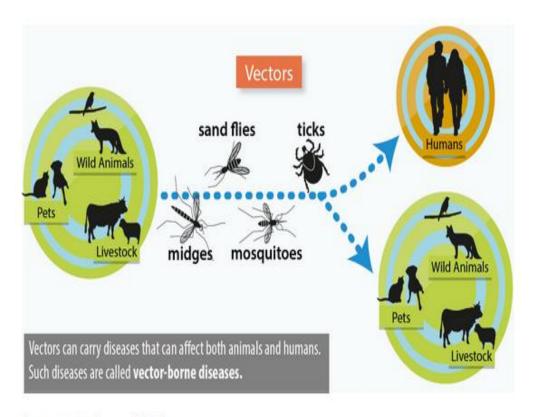
Implement ation of the One Health Joint Plan of Action

Science and Evidence

Political Engagement and Advocacy Leveraging investment for OH including the QPT Secretariat



Why One Health for VBD Risk Management?



Images courtesy of EFSA

Builds on complexity: VBDs involve animals, humans, vectors, environment

Overcomes sectoral silos seen in past failures

Complements technical tools with cross-sectoral strategy

Enhances coordination, early detection, and response.

The Unique Value of One Health

Integrated Risk Assessment:

 Combines climate, ecological, veterinary & human health data

 Shared Surveillance Systems:

 Early warning across species and sectors

 Cross-sector Response Planning:

 Joint contingency plans

 Coordinated Vector Control:

- Risk communication at community level

- Environmentally safe and sustainable

5. Public Engagement & Education:

Case Study 1: PROVNA Project



Integrated vector surveillance: animals, environment, vectors

Multi-stakeholder coordination: public health, vets, environmental agencies

Result: Improved risk-based surveillance, early detection and targeted interventions

Case Study 2: One Health Joint Surveillance in West Nile Virus (Europe)

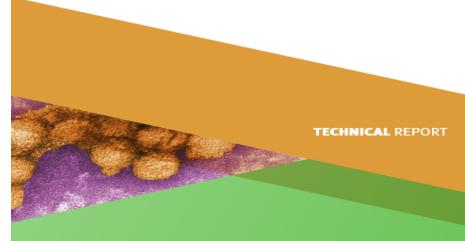
Coordinated surveillance in birds, horses, humans

Data sharing across veterinary and public health sectors

Result: Early alerts triggering preventive measures in high-risk areas







Surveillance, prevention and control of West Nile virus and Usutu virus infections in the EU/EEA



European Emerging and Vectorborne Diseases Network (EVD-Net)

The Emerging and Vector-borne Diseases (EVD) team of ECDC communicates, consults and cooperates with EVD-Net on surveillance, response, prevention, control and preparedness aspects of EVDs and vectors, with particular focus on country needs and country support possibilities.

Challenges One Health Helps Overcome

Gaps in cross-sector coordination

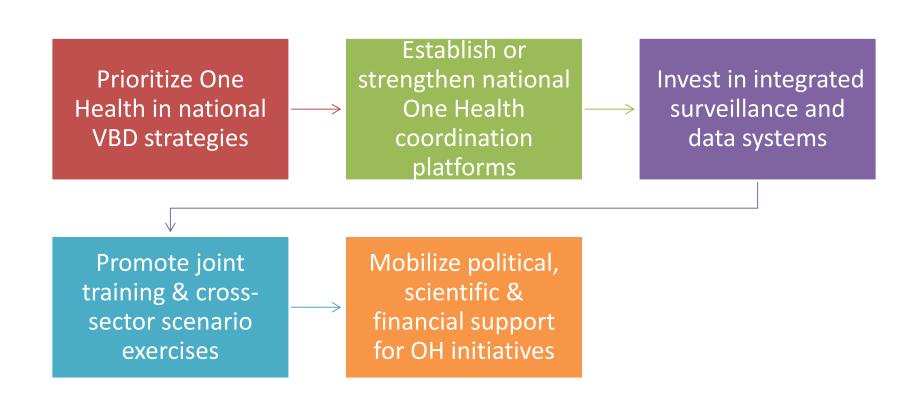
Data silos (veterinary, human, environmental)

Resource inefficiencies

Fragmented response to emerging threats

Lack of community involvement

Call to Action



One Health is not an option – it is essential.

For effective VBD risk management and control

✓ Break sectoral silos

Conclusion

✓ Build integrated systems

✓ Foster collaborative, science-based decision making

The time to act is now.

Thank you

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