

Gregorio Torres Head of Science Department WOAH 25-27 June 2025



Number of months per year when disease transmission by Aedes aegypti mosquito is possible Mosquito Habitat: Current & Projected THIS PROJECTION IS BASED ON A WORST-CASE SCENARIO WITH THE IMPACT OF CLIMATE CHANGE UNMITIGATED.

Source: Sadie J. Ryan, Colin J. Carlson, Erin A. Mordecai, and Leah R. Johnson

Global threat to animal and human health

- •17% of all infectious diseases
- >700,000 deaths annually (WHO)
- •VBD impact on animal health/environment

(2006-2009 BTV cost over 1 billion E in Europe)

Many vectors transmit both animal and human diseases.

Key Drivers

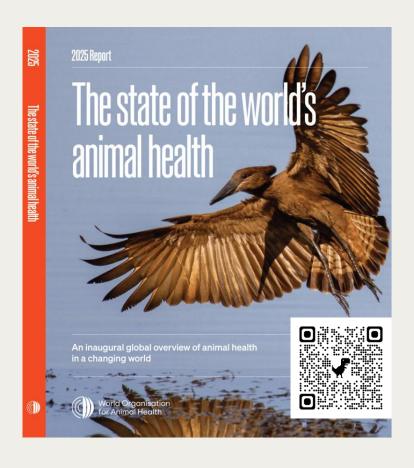
- **\sqrt** Climate change
- Clobal travel & trade
- 🌇 Urbanization and land use change
- ♣ Biodiversity loss and ecosystem disruption
- Wildlife reservoirs and spillover risks
- ❖ Insecticide/repellent resistance

VBDs involve **complex** interactions between animals, humans, vectors, and the environment.

One Health



The role of WOAH on VBD



WOAH is the global authority on animal health

- Supports Members through:
 - International standards: to support risk management
 - **WAHIS**: official disease (domestic and wildlife) reporting and transparency
 - Reference Centres: diagnostics, training, and research.
 - Vaccine/vaccination recommendations: vaccine quality and use
 - PVS Pathway: strengthening Veterinary Services and their capacity to manage VBDs.
 - 🝘 🎇 Research and innovation (STAR-IDAZ)

Promotes intersectoral partnership **One Health**: integrating animal, human, and environmental health (GF-TADS, regional networks such as REMESA, projects, scientific consortiums, etc)



Toolbox against VBD

Integrated Surveillance, Early Warning:

Diagnostic for monitoring vectors and pathogens, integrating data systems

Vaccination

Preventive and emergency vaccination, ensuring vaccine quality and availability

Vector Protection and Control:

Chemical, biological, and environmental methods to reduce vector populations and avoid contact

Movement Control and Quarantine:

Restricting animal movement, applying quarantine, and enforcing trade standards

Public Awareness and Education:

Training keepers and veterinarians, and communicating risks effectively.

Capacity Building and Infrastructure:

Strengthening Veterinary Services, labs, etc.

Collaboration, Coordination, Harmonisation:

Fostering One Health partnerships and regional networks.

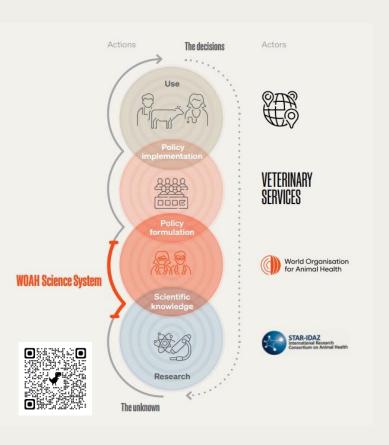




WOAH's vision for VBDs

WOAH as a science-policy facilitator

bridging science and policy to support Members in risk-based decision-making



Scientific Excellence:

Promote scientific rigor and innovation in diagnostics and sustainable risk management

Disease Intelligence

Strengthen (integrated) surveillance systems

Transparency

Collaboration and Solidarity

Foster regional and global intersectoral partnerships.

Resilience and Sustainability:

Investment in Veterinary Services



WOAH 8th Strategic Plan and VBD



Orientation 1: Science-Based Standards for Decision-Making

- Standards for VBD surveillance, disease and vector control, and safe trade.
- Ensures quality assurance of diagnostic and vaccines for VBDs
- Support Members through with Reference Centre expert networks

Orientation 2: Empowering Robust Animal Health Systems

- Strengthens Member capacities to detect, prevent, and respond to VBDs
- Integrated One Health surveillance systems
- Preparedness and resilience in the changing world (climate-driven VBD threats)

Orientation 3: Positioning Animal Health in Global Challenges

- Advocates for the role of animal health in addressing climate change, food security, and zoonotic risks
- Elevates VBDs in global health political agendas
- Mobilises stakeholders and resources to tackle transboundary VBD threats



Enablers for the 8th Strategic plan



Governance & Partnerships

Foster regional and global collaboration (e.g., Quadripartite, scientific networks)

Data Management Leadership:

Advance digital data management tools and data integration for VBD risk analysis

People & **Performance**

Build **expertise** in entomology, epidemiology, risk management and communication



Strategic challenges

Risk management Climate-driven risks ->expansion of vectors into new regions Limited surveillance capacity and entomological expertise Limited access to quality-assured vaccines and diagnostics Resistance to vector treatment & environmental impact



Coordination

Gaps in cross-sectoral coordination (One Health)

Data sharing barriers across sectors and borders

Underinvested Vet Services

Competing priorities within Vet Services Crisis of multilateralism, geopolitic

Call to joint actions (5)

Better Data

Climate-adaptive and integrated surveillance systems & monitor shifting vector habitats (One Health)

Better Tools

Investment in research and development: diagnostics, and innovative control tools

Better Coordination

Cross-sector and cross-border coordination and science-based response frameworks

Better Capacity

Invensting in animal and human health system, including entomology

Better Engagement

Political and Community engagement and risk communication strategies





Thank you

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