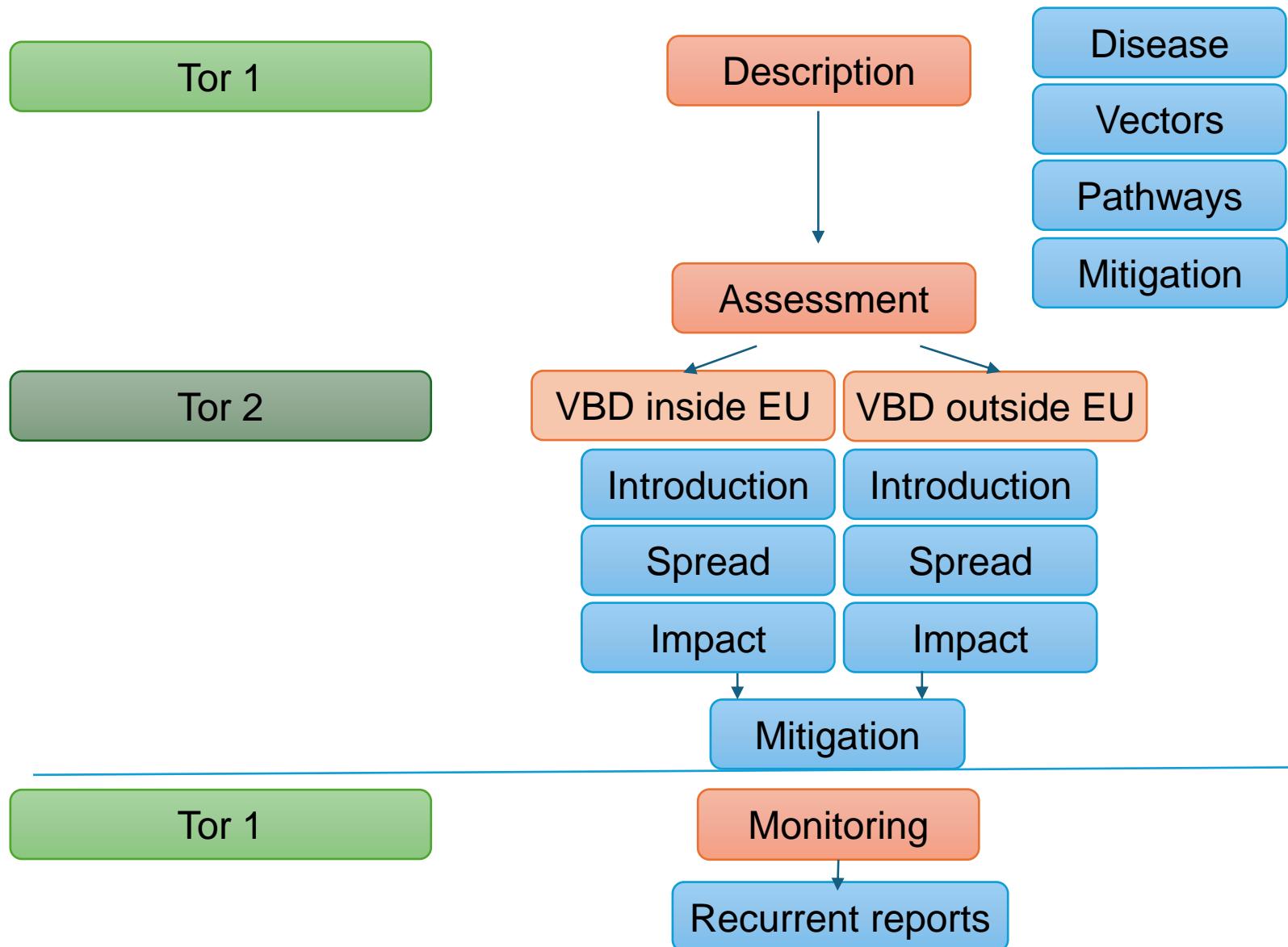




Mandate on Vector-borne disease

EFSA-CVO WORKSHOP
8 Apr 2025

New mandate: Vector-borne diseases



TOR 1: Describe diseases, vectors mitigation measures and pathways



1.1. Provide a "knowledge mapping" of the VBDs

- VBDs listed in the EU AHL, and not listed but deemed to have a potential impact
- Including geographic distribution in the EU, neighbouring regions or other regions presenting a particular risk due to epidemiolocal considerations;

1.2. Provide a "mapping" of the competent vectors in the EU and neighbouring countries

- Provide a mapping of the currently known, as well as potential new vectors competent for 'listed VBDs' and 'non-listed VBDs' in the EU and neighbouring countries

1.3. Describe the currently available surveillance, prevention and control measures for listed and non-listed VBDs in the EU

- Describe prevention and control measures in AHL
- Summarise the efficacy of vaccination efficacy, efficacy biocidal treatments or repellents, animal treatments or insect nets or other husbandry practices

1.4. Describe the potential pathways for potential introduction in the EU of VBD-agents, currently not present in the EU-

- Including animals, products animal origin, plant material or means of transport, equipment, packaging materials, transport water and feed and fodder and other material, carrying viruses and/or vectors;...



Which Vector Borne Diseases?

- Maximum 25 VBD's
- Inclusion criteria for assessment of probability of introduction, spread and impact

AHL-listed diseases: all included

Not-listed, include when:

- Pathogen absent (or unknown status) in more than 50% of the EU MS
- Competent vector present in the EU
- Infects (proven pathogen detection) domestic animal species present in the EU
- Clinical signs
 - Present in animals (exclude asymptomatic) OR
 - Asymptomatic in animals, but severe in humans
- Data not scarce (minimum primary data needed about the pathogens distribution, pathogenesis in animals, epidemiology, competent vectors)

- **Proposed shortlist for risk assessment**

1. AHSV
2. Akabane virus
3. Borreliosis
4. Bovine Ephemeral Fever
5. BTV
6. Cache Valley virus
7. CCHF
8. Coxiella burnetii (Q-fever)
9. EEE/ WEE
10. EHDV
11. EIA (Equine infectious anaemia)
12. JEV
13. Leishmaniosis
14. LSDV
15. RVFV
16. Schmallenberg virus
17. Shuni virus
18. St. Louis encephalitis virus
19. Surra (T. evansi)
20. T vivax
21. TBE
22. VEE
23. VSV
24. WNV



TOR 1.1. Knowledge mapping VBDs



Disease fact sheets

- Disease agent
- Geographic distribution
- Hosts
 - Primary animal species affected and their role as reservoir/sentinel
 - Clinical signs of different livestock, pets or wildlife
 - Zoonotic potential.
- Transmission
- Vectors
- Diagnosis
- Prevention and control

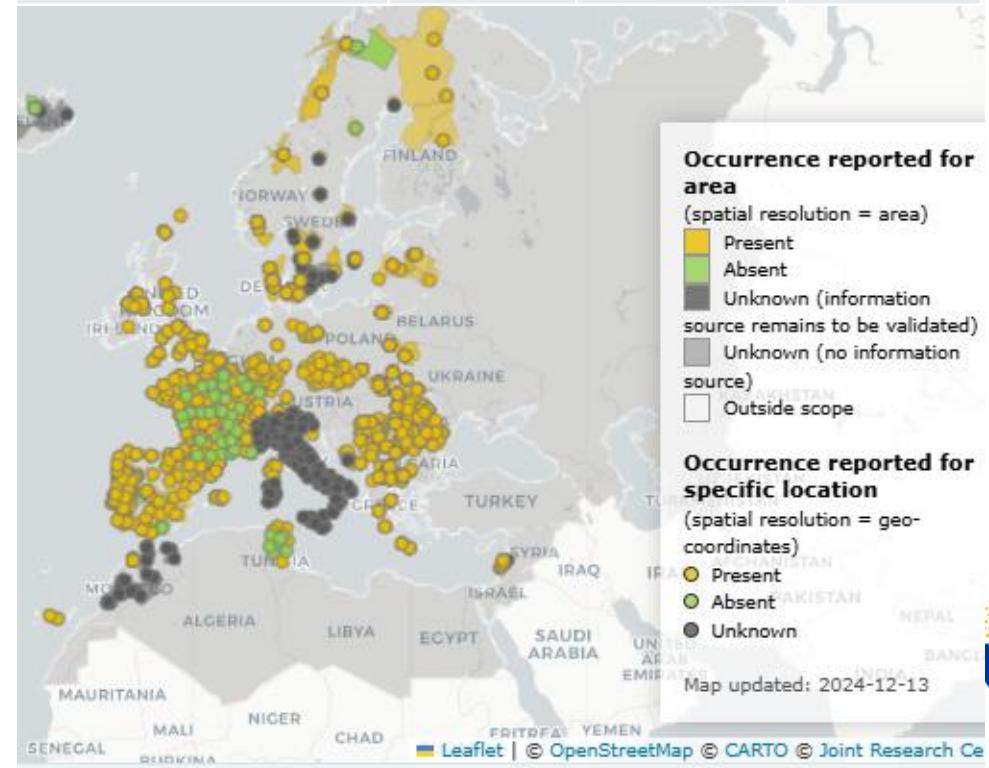
- Annual EFSA Scientific Reports
- Fact sheets, based on evidence collected by 7 systematic literature reviews (SLRs)
- Real time updated: [African horse sickness](#)
- Developed by Disease Profiles -procurement
- Reviewed by EFSA's VBD working group



TOR 1.2. Knowledge mapping of the competent vectors

- Annual EFSA Scientific Reports
- Vector maps based on evidence collected by SLRs
 - Geographic distribution vectors
 - Vector competence
- and one health surveillance, or other validated surveillance data
- Real time updated: [African horse sickness](#)
- Developed by Disease Profiles –Vectornet procurements
- Reviewed by EFSA's VBD working group

Vector fact sheets			
Vectors species	AHS	BTW	EHD
<i>Culicoides imicola</i>	No data	Highly likely	No data
<i>Culicoides obsoletus s.l.</i>	Potential	Potential	Potential
<i>Culicoides scoticus</i>	Potential	Potential	Potential
...			



ToR 1.3 Description mitigation measures

- **Annual EFSA Scientific Reports**
- **Evidence collected by SLRs:**
 - Diagnostic tests accuracy
 - Vaccination efficacy
 - Treatment efficacy
 - Biocide efficacy/resistance
- **SLR-Real time updated: African horse sickness**
- **Developed by procurements Disease Profiles and VectorNet**
- **Reviewed by EFSA's VBD working group**

Mitigation measures fact sheets

- Description AHL measures
- Summary of SLRs
 - Diagnostic tests accuracy
 - Vaccination efficacy
 - Treatment efficacy
 - Biocide efficacy/resistance



TOR 1.4. Description VBD-introduction pathways

- Scientific EFSA Scientific Reports
- Evidence collected by narrative reviews, SLR
- TRACES
- Developed by procurement (LORA)
- Reviewed by EFSA's VBD working group

Pathway fact sheets

- Livestock
- Products of animal origin
- Companion animals
- Wildlife
- Vectors
- Not registered movements/illegal movements



TOR : 1 Monitoring

Recurrent reports

Annual

1.5. Monitor the geographic spread and potential impact of listed and non-listed VBDs already circulating in the EU

Six-monthly

1.5.1 Yearly update of the " knowledge mapping" TOR 1.1 (Disease fact sheets), 1.2 (Vector fact sheets) and 1.3 (Mitigation measures fact sheets);

1.5.2 Six-monthly newsletter with important highlights about possible changes in distribution, transmissibility, virulence, or zoonotic potential of listed and non-listed VBDs inside or outside the EU;

Monthly

1.5.3 Contribution to monthly automated West Nile Fever monitoring reports in collaboration with ECDC.

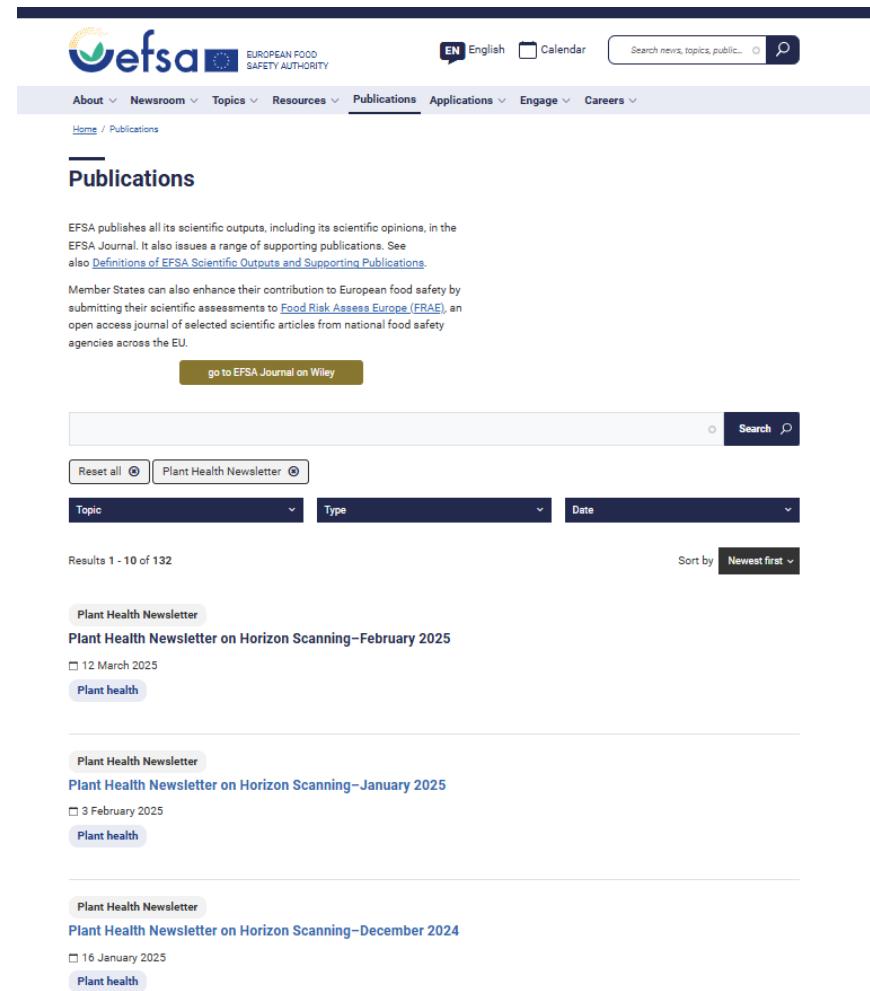


ToR 1.5.2. VBD-newsletter

PROPOSAL:

- Horizon scanning
- New countries affected by 25 VBDs
- New countries affected by invasive mosquitoes
- Important epidemiological events concerning VBDs
- Six-monthly EFSA Scientific Reports

SUGGESTIONS?



The screenshot shows the EFSA Publications page. At the top, there is a navigation bar with links for About, Newsroom, Topics, Resources, Publications (which is underlined), Applications, Engage, and Careers. There is also a language selector (EN English), a calendar link, and a search bar. The main content area is titled "Publications" and contains text about EFSA's scientific outputs, including its journal and supporting publications. Below this, there is a search bar with the placeholder "Search news, topics, public...". Underneath the search bar, there are filters for "Topic", "Type", and "Date". The results section shows three entries, each with a title, date, and a "Plant health" tag. The titles are "Plant Health Newsletter on Horizon Scanning–February 2025", "Plant Health Newsletter on Horizon Scanning–January 2025", and "Plant Health Newsletter on Horizon Scanning–December 2024". The dates are 12 March 2025, 3 February 2025, and 16 January 2025 respectively.



TOR 1.5.3. WNV reports

- JOINT ECDC –EFSA online WNV updates
- One-health approach
- ADIS and TESSy data> OH surveillance data
- Monthly

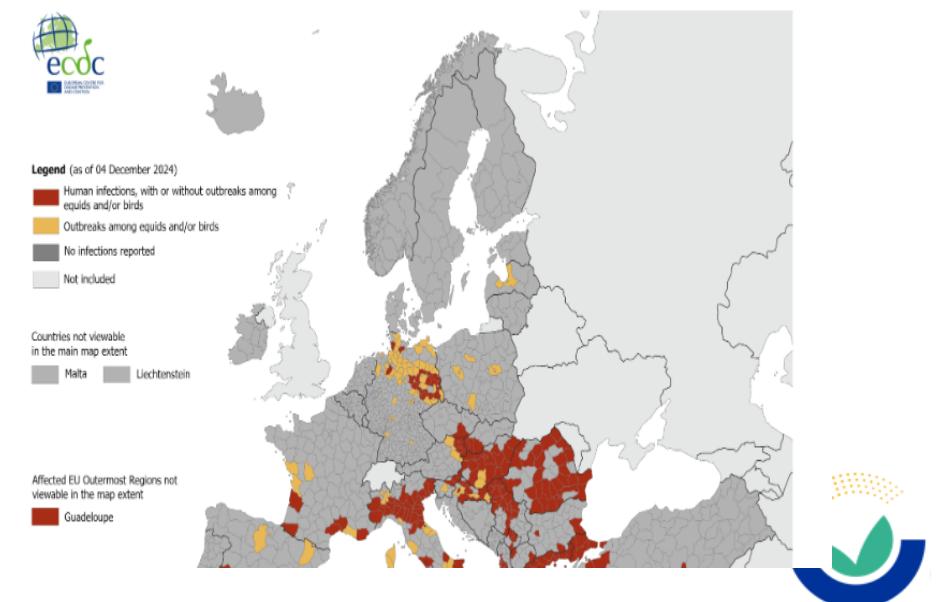
[Home](#) [Infectious disease topics](#) [Publications and data](#) [Training and tools](#)

Home > Infectious disease topics > West Nile virus infection > Surveillance and updates > Monthly updates: 2024 West Nile virus transmission season

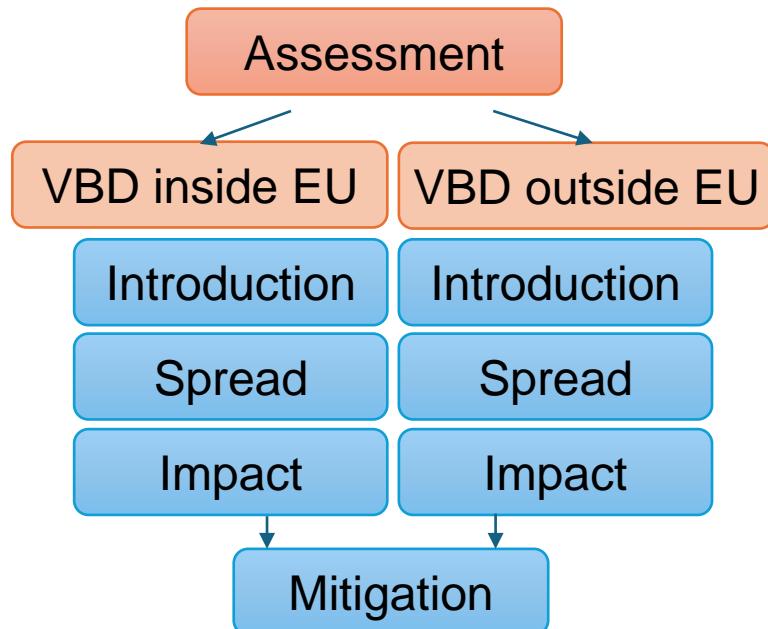
[Surveillance and monitoring](#)



Figure 7. Distribution of locally acquired human WNV infections in NUTS 3 or GAUL 1 regions among equids and/or birds within Europe during 2024, as of 4 December 2024.



TOR 2: Assessment

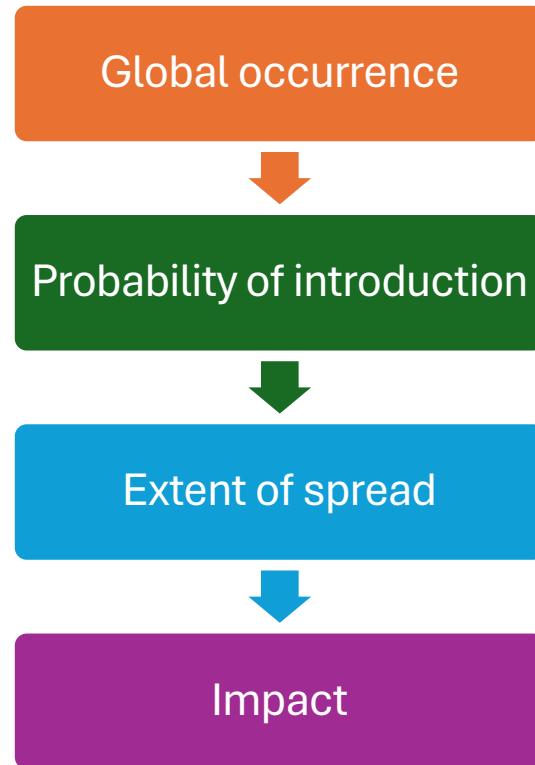


Deadline:
31/12/2026

- 2.1. Assess the probability of introduction (i.e., the probability of entry, exposure and transmission to local host) of listed and not listed VBD-agents into free EU MSs, considering the relevant pathways identified in 1.4.**
- 2.2. Assess the extent of spread of listed and not listed VBDs in the previously free EU MSs, after local transmission has taken place.**
- 2.3. Assess the impact of the introduction and potential further spread of listed and not listed VBD-agents during one year after the introduction.**
- 2.4. Critically assess the effectiveness of the currently available risk mitigation measures for VBDs in the EU, in particular different biosecurity and surveillance systems, regionalisation, and vaccination tools; and**
- 2.5. Assess the need for the development of these and further measures within the EU, notably to enable safe intra-EU movements of animals from affected or non-affected areas**



TOR 2.1-TOR 2.3. Risk Assessment 25 VBDs



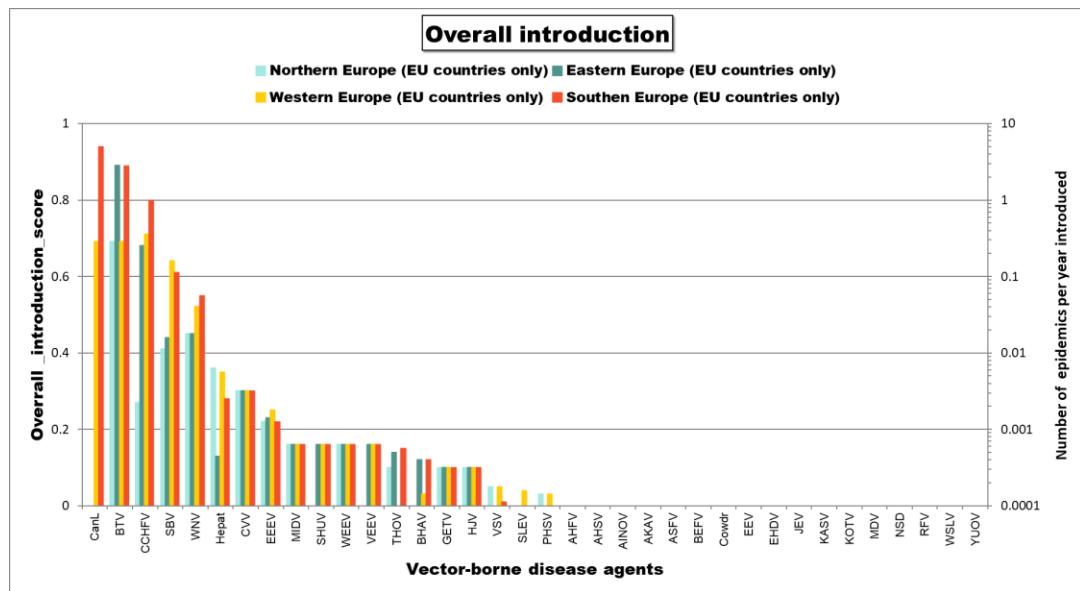
- **Scientific Opinion EFSA**
- **Developed by LORA consortium (Living Online Risk Assessment)**
- **Reviewed by EFSA- VBD working group**
- **Adopted by EFSA AHAW Panel (31/12/2026)**



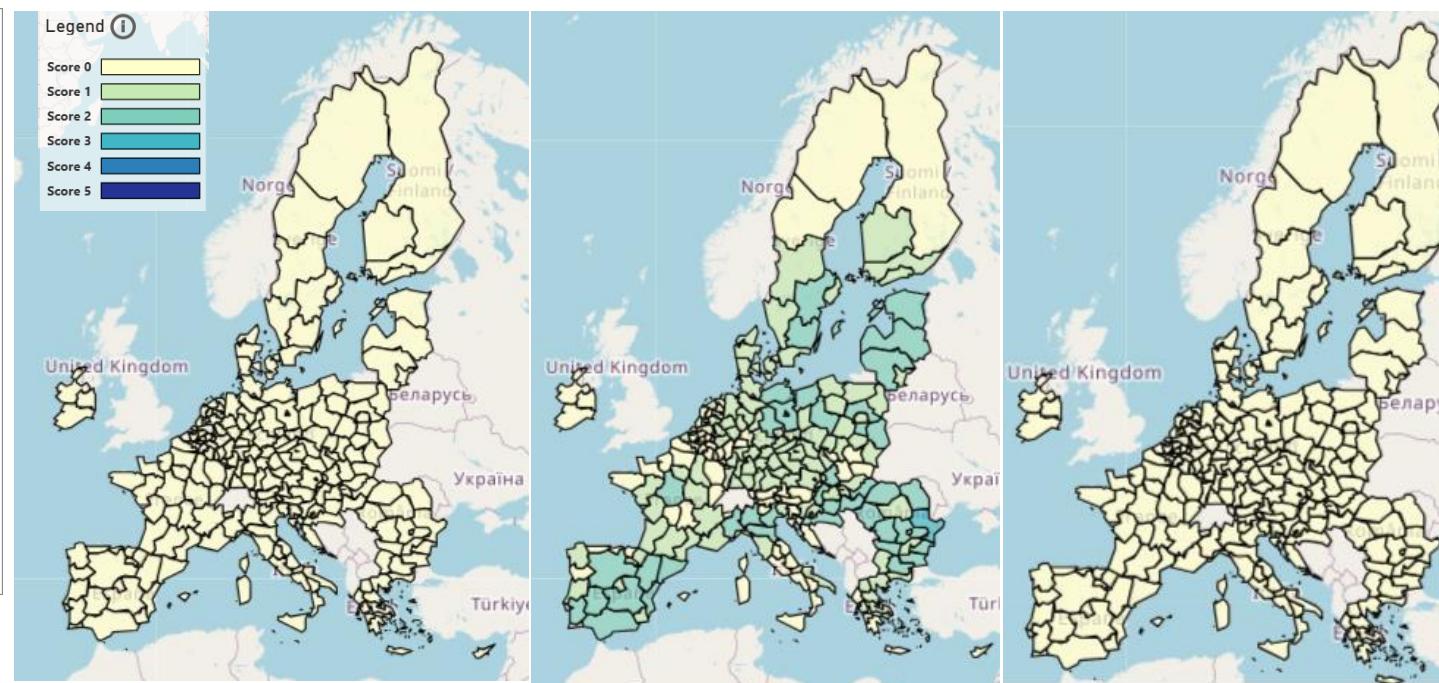
TOR 2.1-TOR 2.3. Risk Assessment 25 VBDs

• Comparative Risk Assessment

- Comparing risks for different VBDs in the same region



- Comparing risks for different regions for the same VBD



EFSA 2017 Scientific Opinion AHAW Panel

Risk for JEV introduction in August 2023 via vectors (A); wild birds (B); Movements live animals (C)

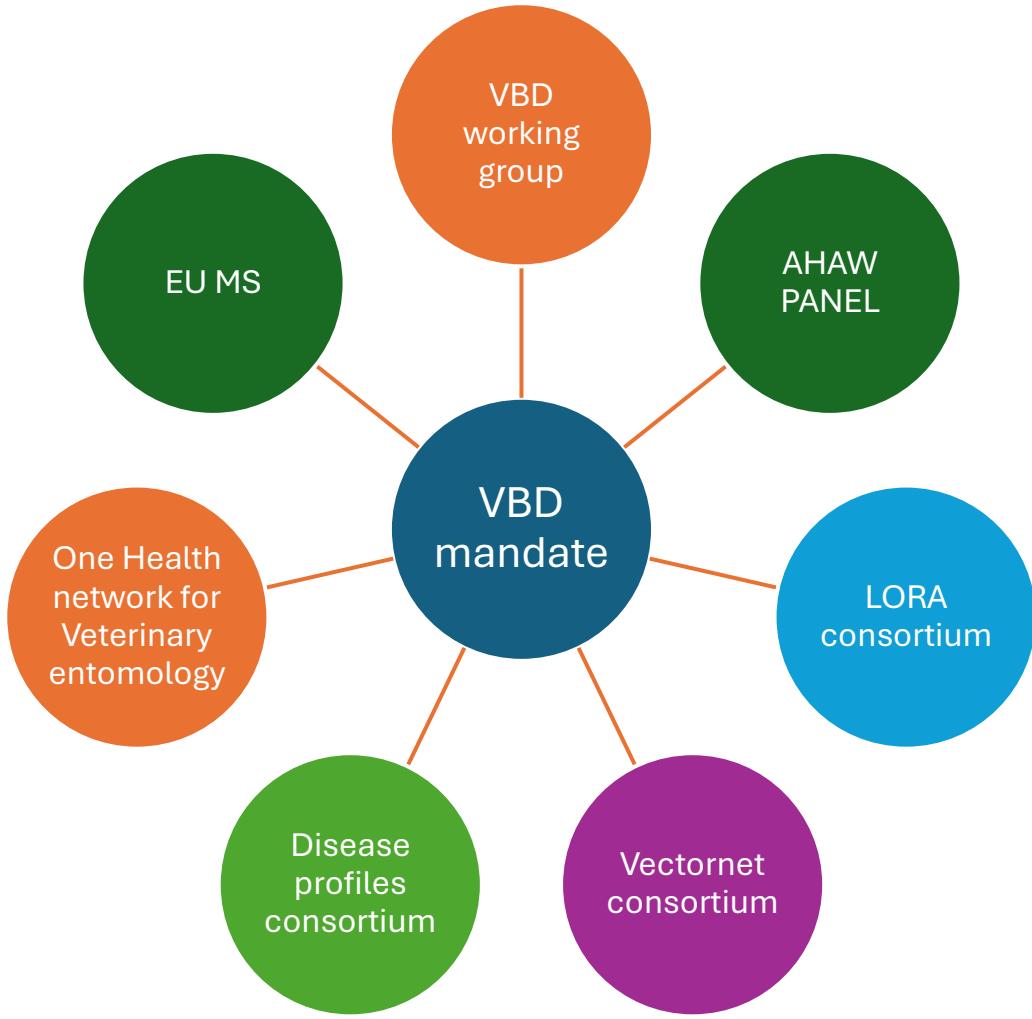


TOR 2.4-TOR 2.5. Assessment mitigation measures

- Scientific Opinion EFSA
- Different epidemiological scenarios developed by working group for 25 VBDs
- Fact finding by VectorNet and Disease profiles consortia
- Assessment by VBD working group
- Identification of need for the development of measures in workshop together with MS for different scenarios, e.g.
 - Epidemiologic situation
 - Level of risk in area
 - Impact of disease incursion
- Other suggestions?
- Adopted by EFSA AHAW Panel (31/12/2026)



Contributors



Timeline

