

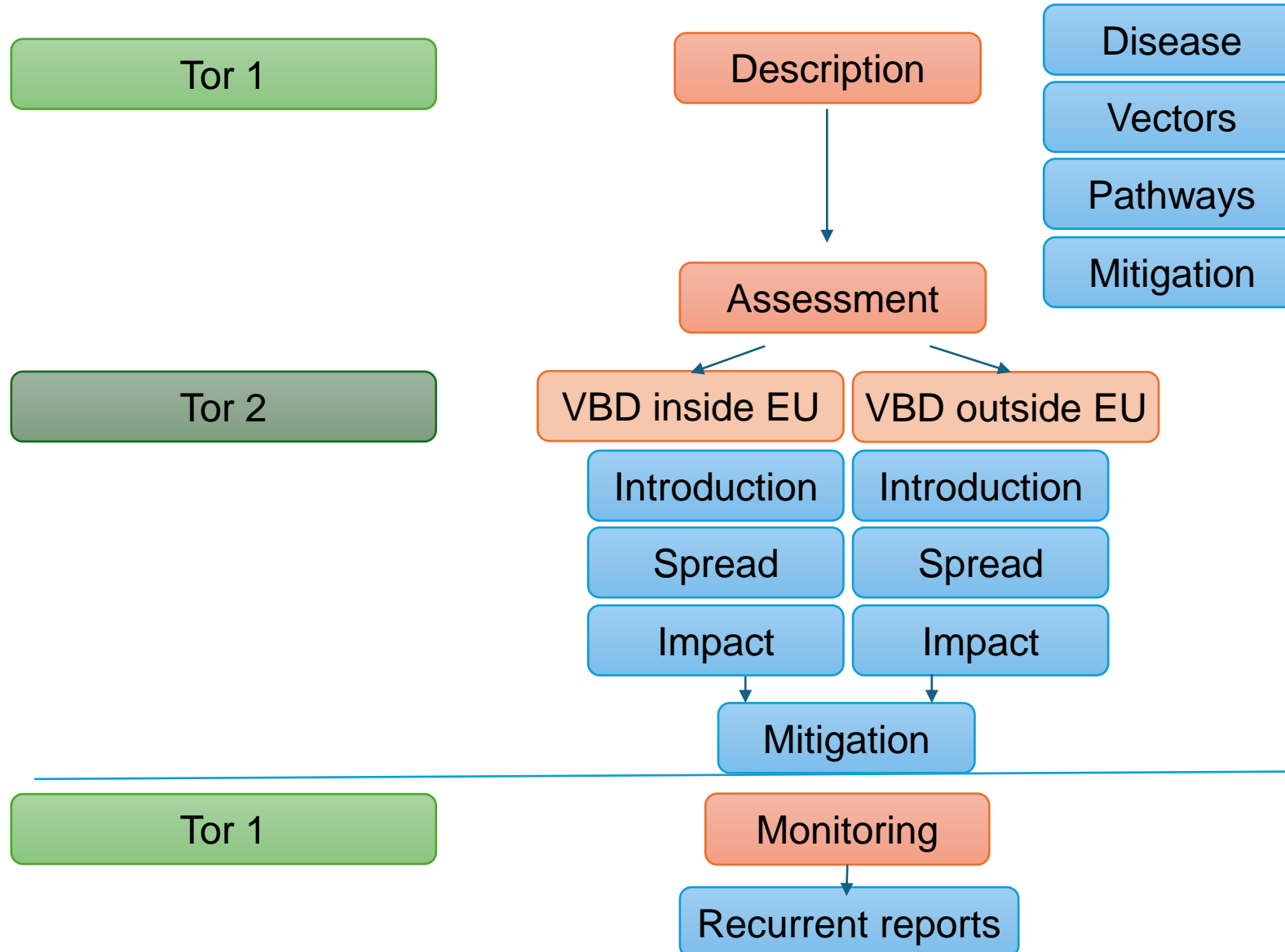


# Mandate on Vector-borne disease

EFSA-CVO WORKSHOP

8 Apr 2025

# New mandate: Vector-borne diseases



# TOR 1: Describe diseases, vectors mitigation measures and pathways

Description

Pathogens

Vectors

Mitigation

Pathways

Deadline:  
31/03/2026

## 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 epidemiological 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

African horse sickness



### 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

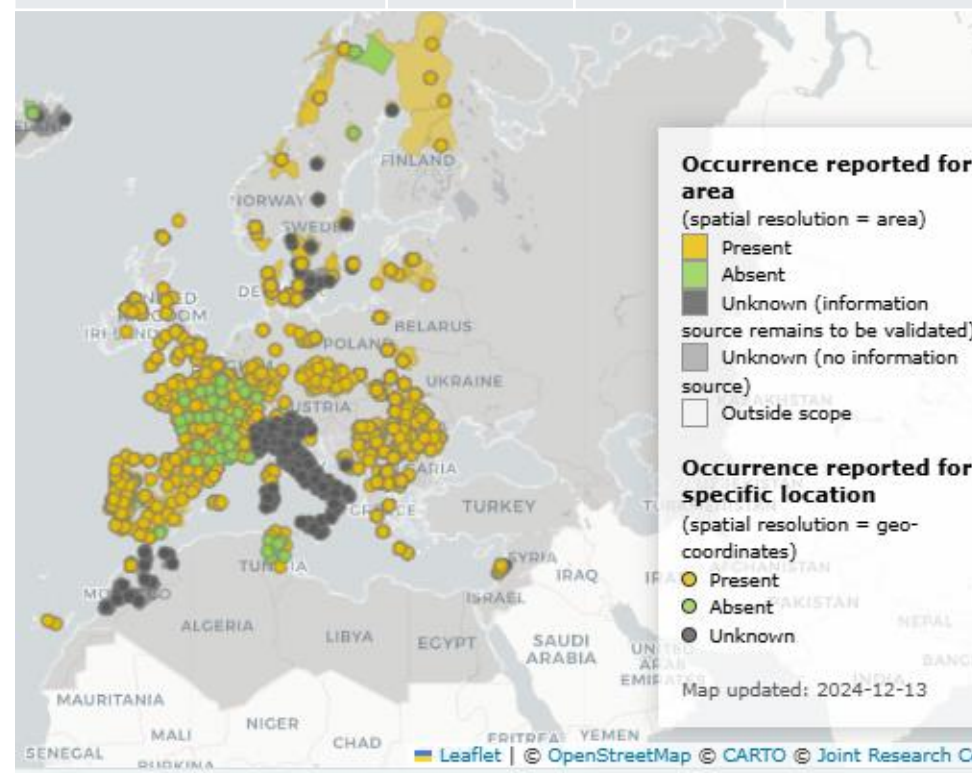


## TOR 1.2. Knowledge mapping of the competent vectors

- Annual EFSA Scientific Reports
- Vector maps based on evidence collected by SLRs
  - Geographic distribution vectors
  - Vector competenceand 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	BTV	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

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

### Annual

**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);

### Six-monthly

**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.**

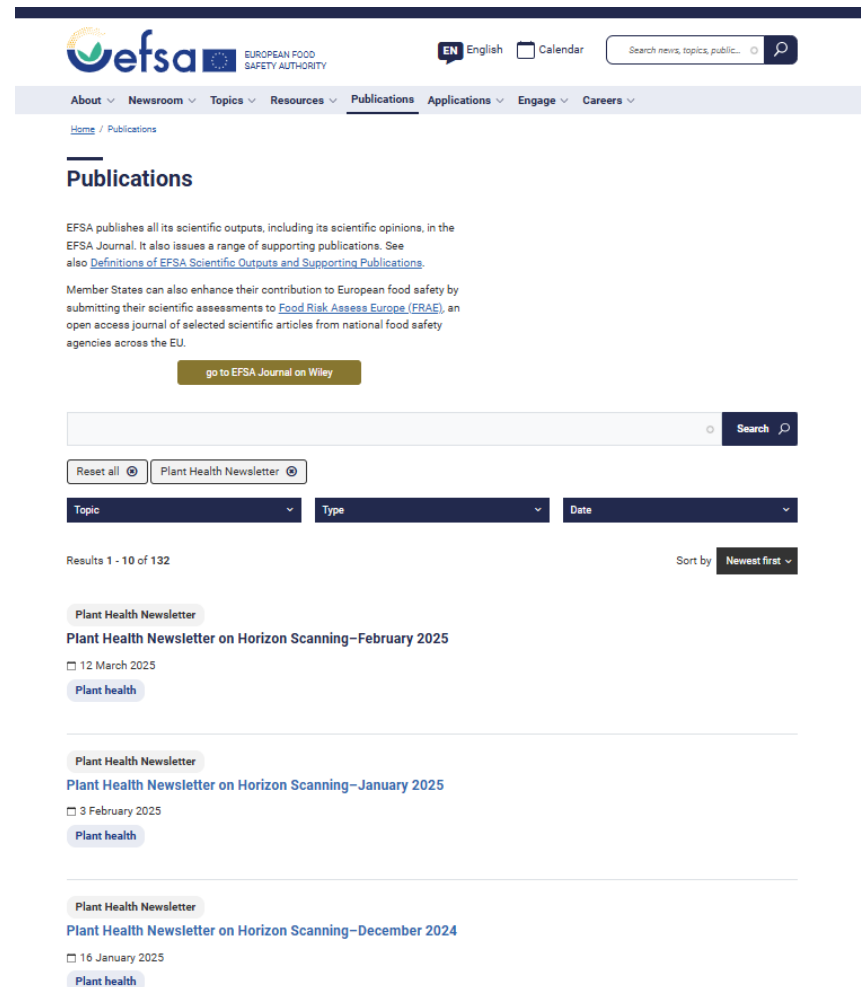


## ToR 1.5.2. VBD-newsletter

### 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 displays the EFSA Publications page. At the top, the EFSA logo and navigation menu are visible. The 'Publications' section is active, showing a search bar and filters. The search results are filtered by 'Plant Health Newsletter' and 'Horizon Scanning'. The results list three items:

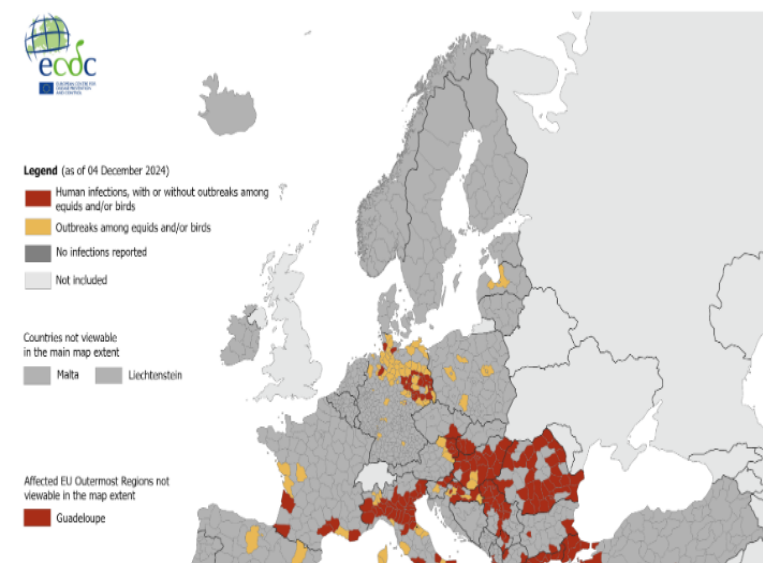
- Plant Health Newsletter on Horizon Scanning–February 2025**  
12 March 2025  
Plant health
- Plant Health Newsletter on Horizon Scanning–January 2025**  
3 February 2025  
Plant health
- Plant Health Newsletter on Horizon Scanning–December 2024**  
16 January 2025  
Plant health



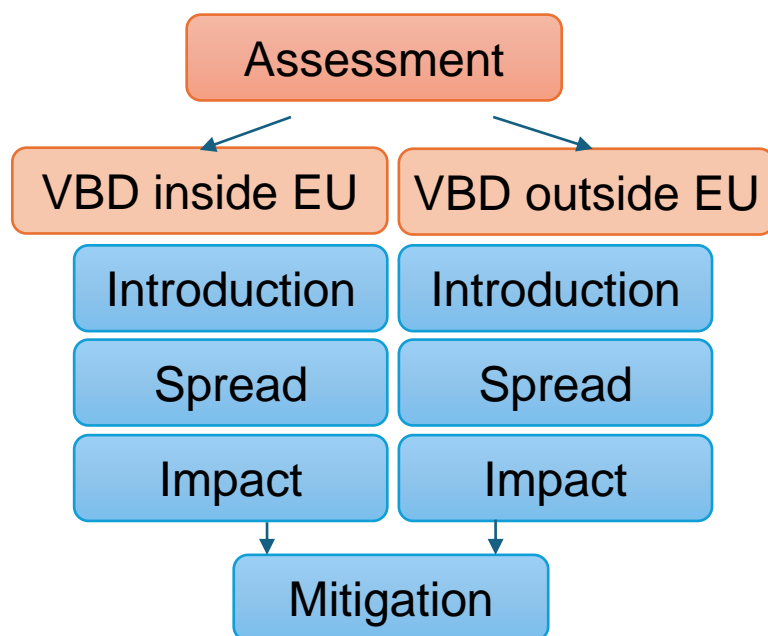
## TOR 1.5.3. WNV reports

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

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.

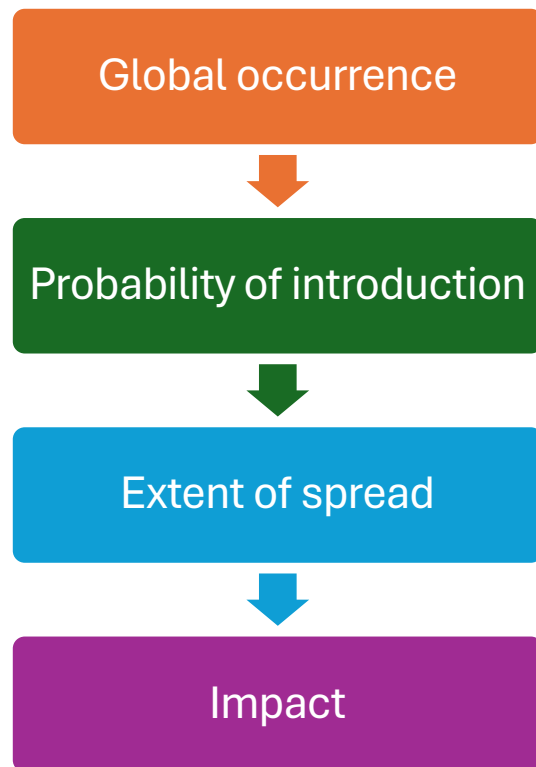
2.3. Assess the impact of the introduction and potential further spread of of listed and not listed VBD-agents during one year after the introduction.

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

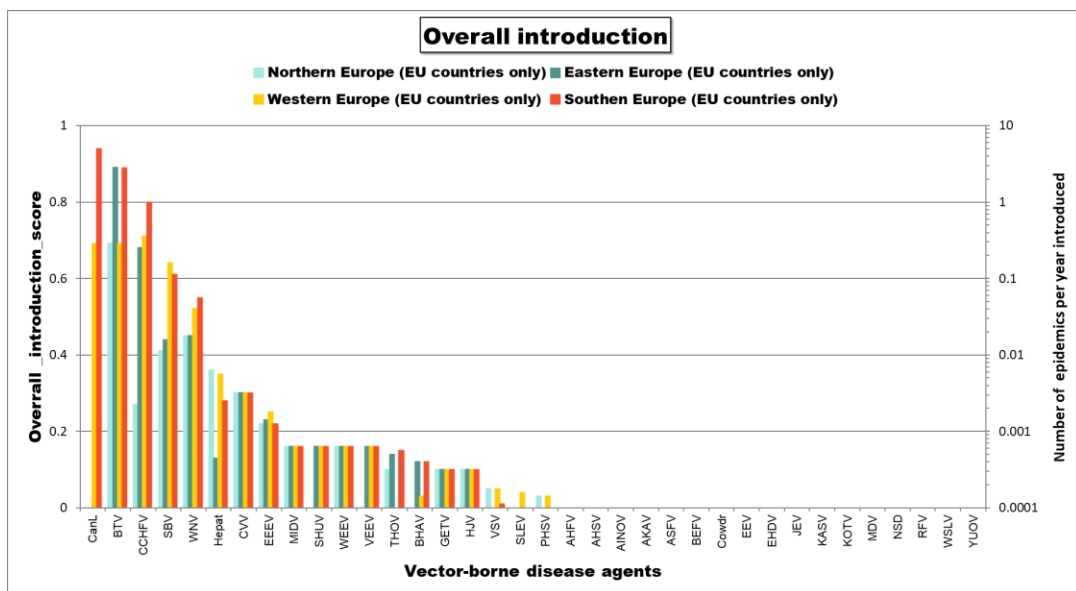


- Scientific Opinion EFSA
- Developed by LORA consortium (Living Online Risk Assessment)
- Reviewed by EFSA- VBD working group
- Adopted by EFSA AHAW Panel (31/12/2026)

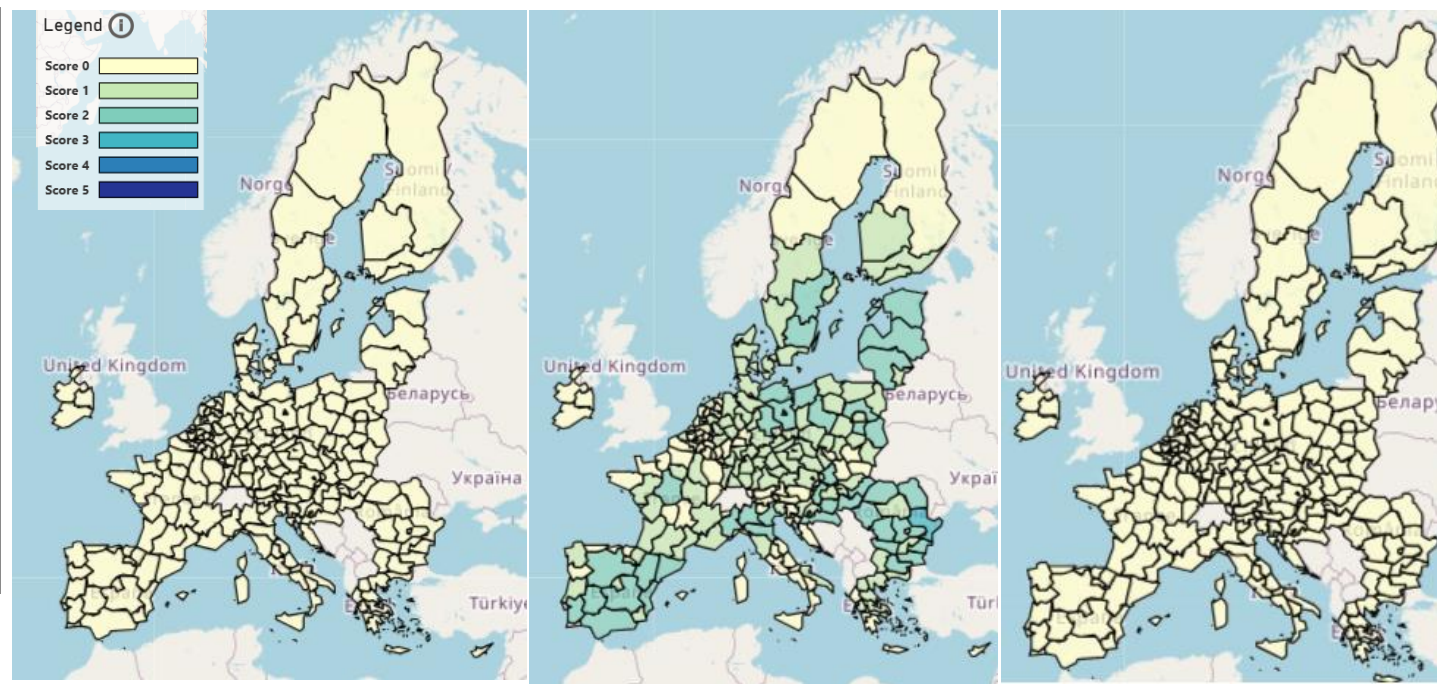


# TOR 2.1-TOR 2.3. Risk Assessment 25 VBDs

- **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

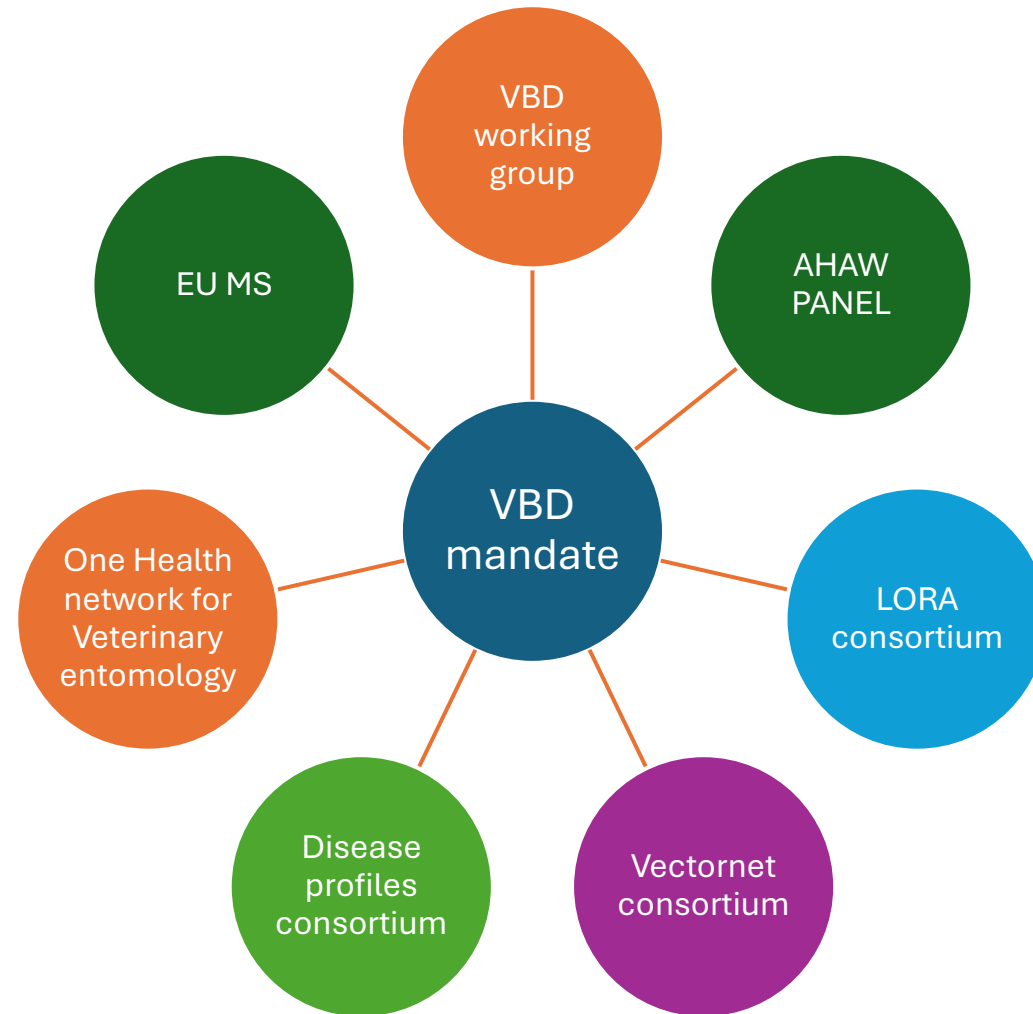
- Scientific Opinion EFSA
- Different epidemiological scenarios developed by working group for 25 VBDs
- Fact finding by VectorNet and Disease profiles consortia
- Assessment by VBD working group
- **Identification of need for the development of measures in workshop together with MS for different scenarios, 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

