









National Institute for Public Health and the Environment Ministry of Health, Welfare and Sport

## **VBORNET WP4**

Questionnaire

#### **Florianne Bauer**

Agnetha Hofhuis, Wilfrid van Pelt, Marieta Braks and Margriet Harms



## Content

- Questionnaire
- Vector-borne diseases
- EU member states
- Human surveillance
- Animal surveillance
- Vector surveillance
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## Questionnaire

- Aims to assess:
  - surveillance activities vector-borne diseases
  - other efforts to estimate occurrence vector-borne diseases
  - extent of information exchange
  - availability of surveillance or contingency plans
  - availability of public health campaigns
  - interest in contribution to VBORNET
- Queries on:
  - human, animal and vector surveillance
  - 11 mosquito-, tick-, sandfly-borne diseases



### Vector-borne diseases

#### Mosquito-borne diseases:

- Chikungunya
- Dengue
- West Nile Fever
- Rift Valley Fever

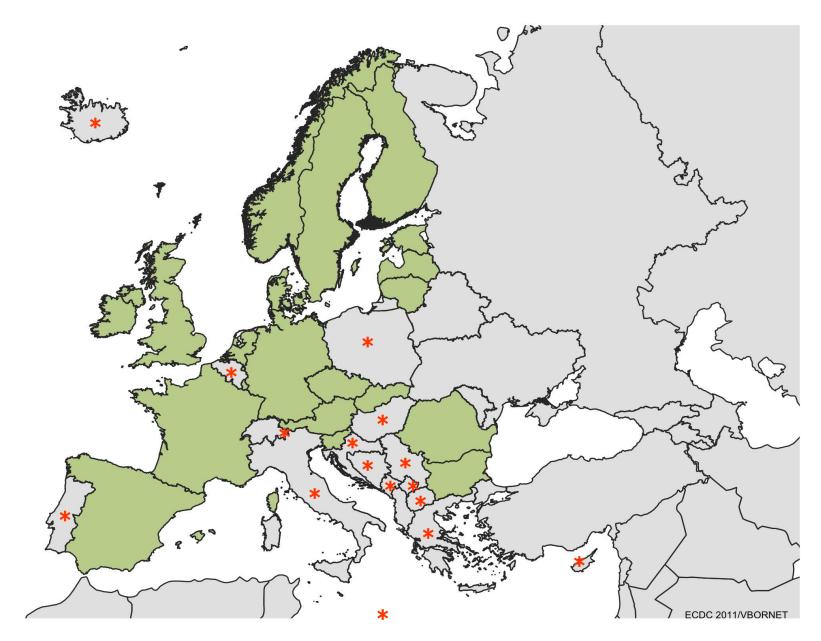
#### Sandfly-borne diseases:

- Leischmaniasis
- Sandfly fevers

#### • Tick-borne diseases:

- Tick-borne encephalitis
- Crimean-Congo haemorrhagic fever
- Lyme borreliosis
- Tularaemia
- Rickettsiosis

## EU member states



43 invited incl. Switzerland & 21 responded

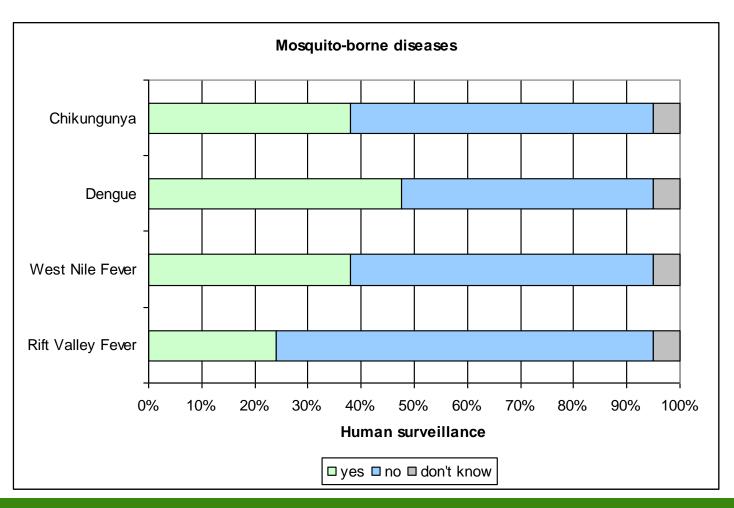


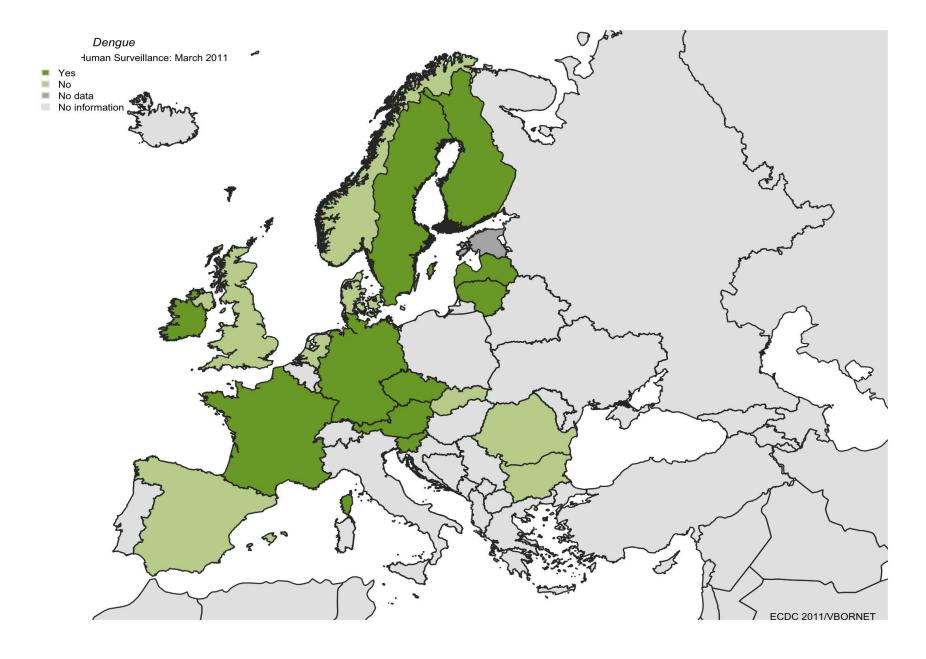
- Human surveillance activities
- Priority human surveillance
- Current public health campaigns about personal prevention against vector-borne diseases



- Mosquito-borne diseases:
  - Dengue: 48% human surveillance activities
  - West Nile Fever: highest priority human surveillance



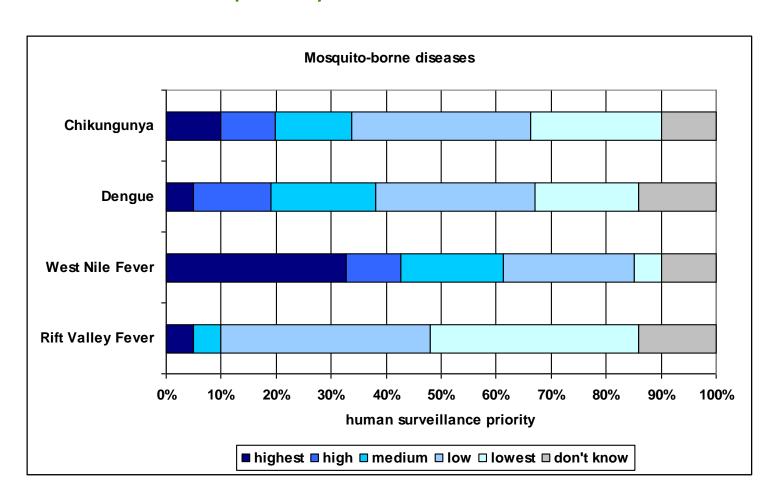




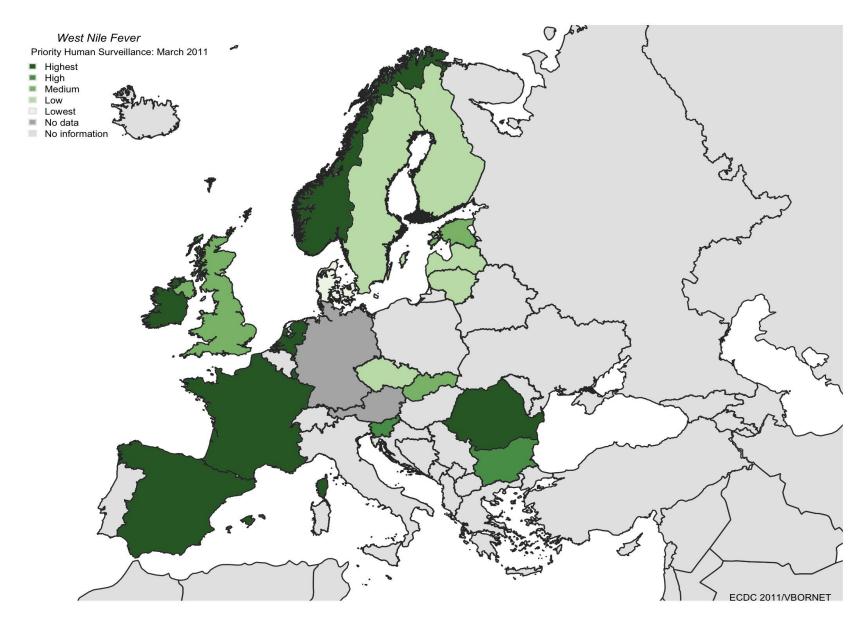
Dengue 48% human surveillance activities



## Human surveillance priority



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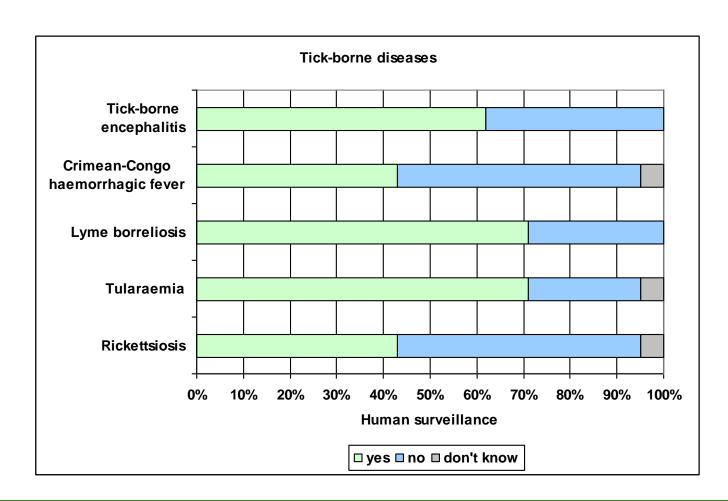


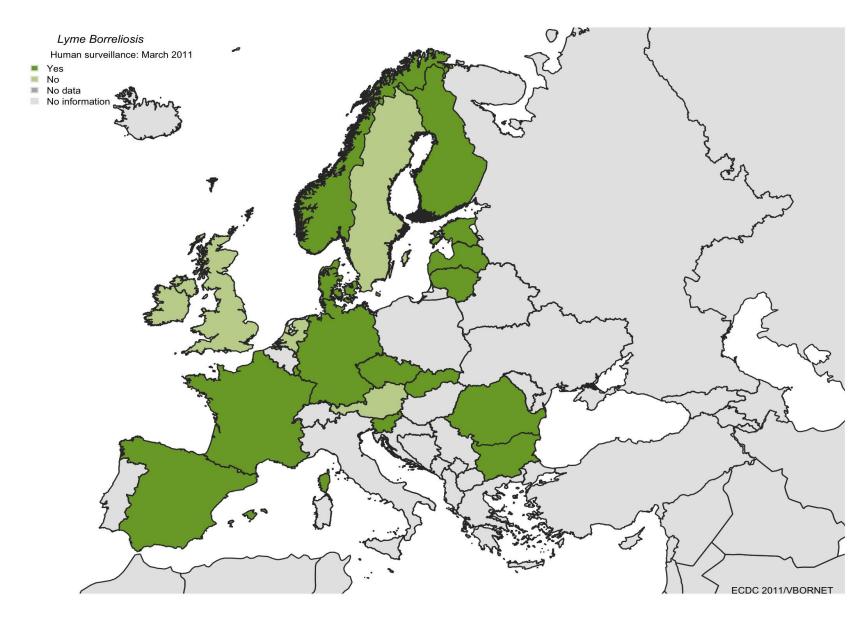
West Nile Fever priority human surveillance



- Tick-borne diseases:
  - Lyme borreliosis: 71% human surveillance activities
    - > priority high
  - Tularaemia: 71% human surveillance activities
    - > priority medium



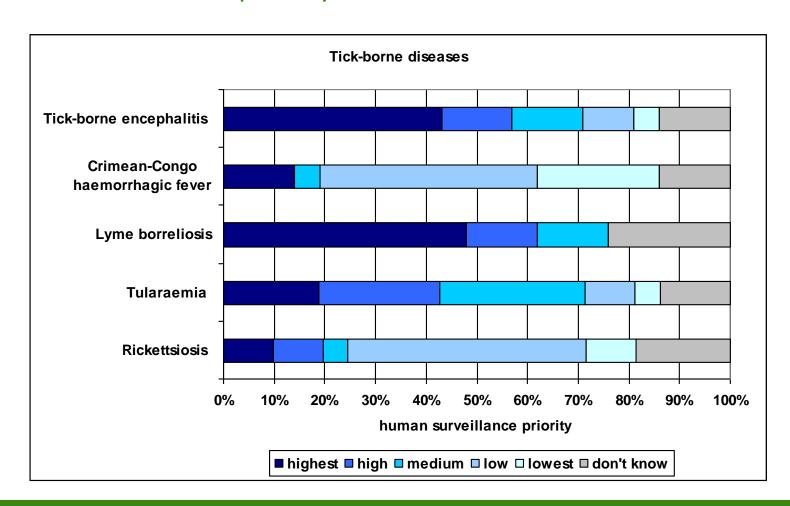




Lyme borreliosis 71% human surveillance



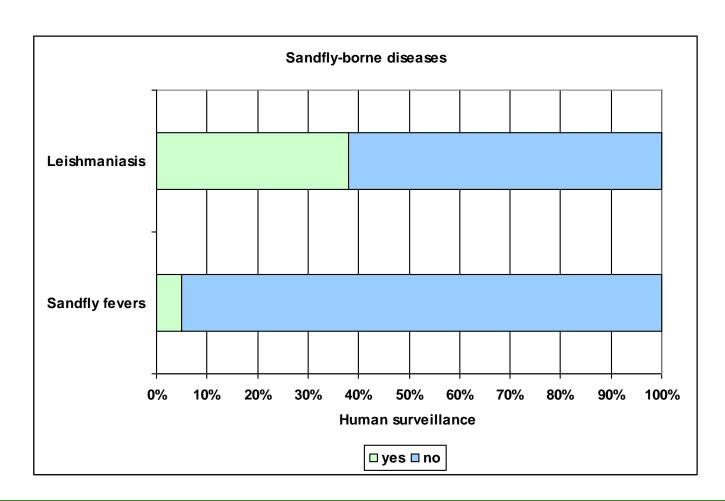
## Human surveillance priority





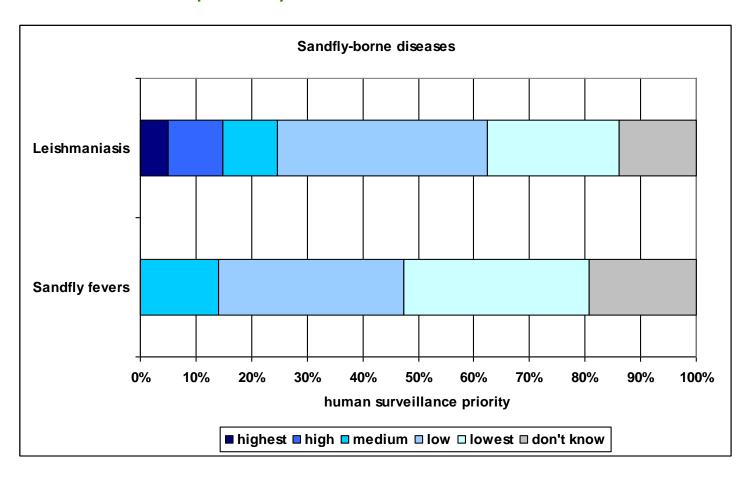
- Sandfly-borne diseases:
  - only France performs human surveillance activities for Sandfly fevers
  - lowest priority for human surveillance in Europe







## Human surveillance priority



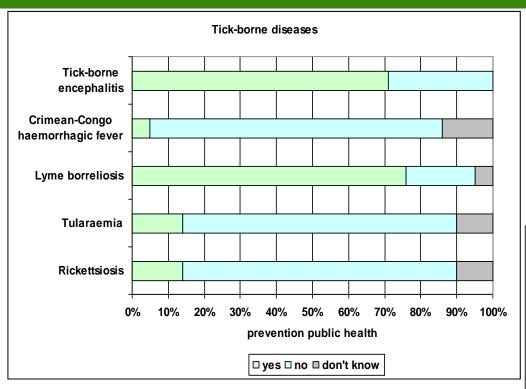


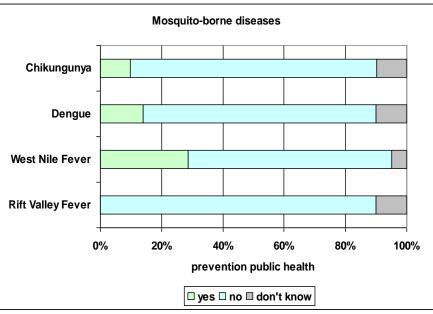
Human surveillance vector-borne diseases is mostly passive

Public health interventions mostly for tick-borne diseases

 Mosquito- and tick-borne diseases are in many countries notifiable by law









## Animal surveillance

- Almost no animal surveillance for vector-borne diseases
- Except for West Nile Fever: 52% of countries perform activities



### Vector surveillance

- Moderate performance vector surveillance activities for mosquitoborne and tick-borne diseases:
  - > Dengue 29%
  - > Lyme borreliosis 38%
- No vector surveillance for sandfly-borne diseases

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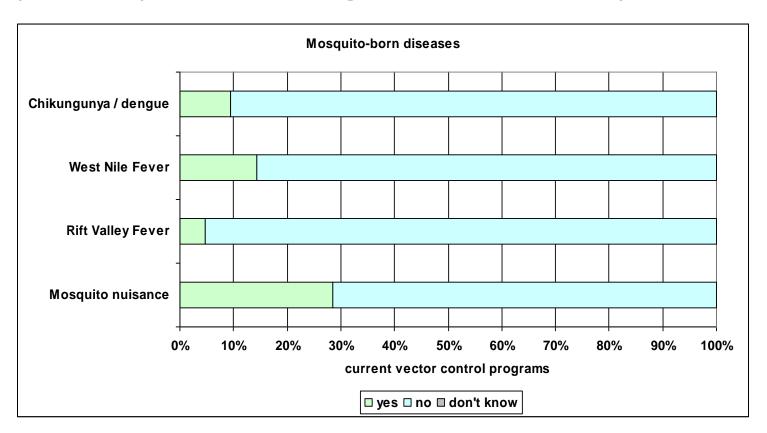
## Vector surveillance priority

- Priority highest:
  - > Lyme borreliosis
  - > Tick-borne encephalitis
- No priority:
  - > Crimean-Congo haemorrhagic fever



## Vector control programs

• Only for mosquito nuisance in general vector control plan: 29%



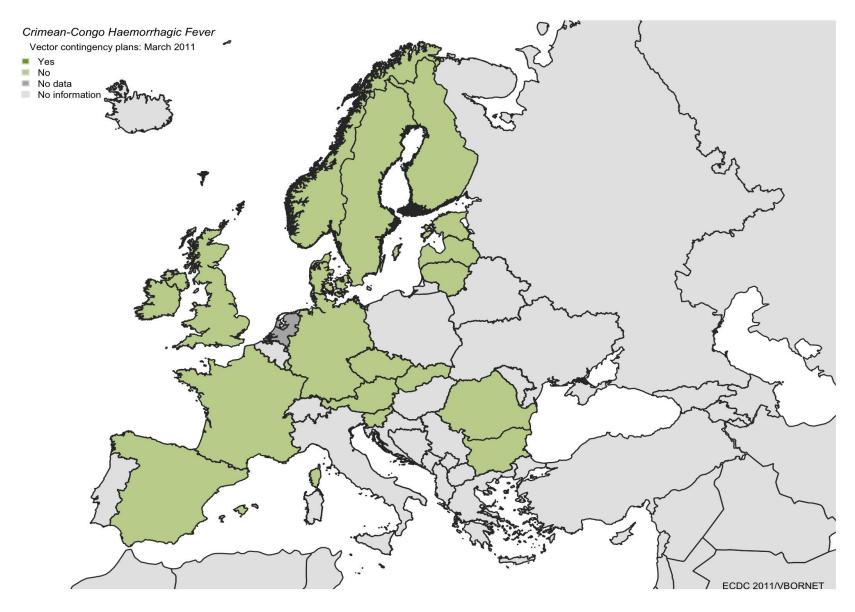
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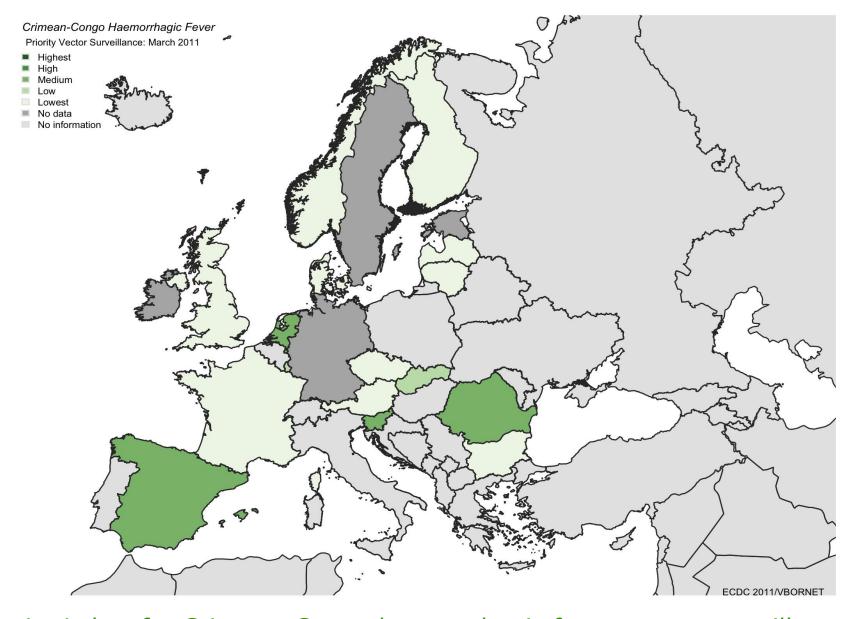


# Vector contingency plans

- Contingency plans:
  - > Crimean-Congo haemorrhagic fever
  - > Tularaemia
  - → priority vector surveillance is low



95% vector contingency plans Crimean-congo haemorrhagic fever



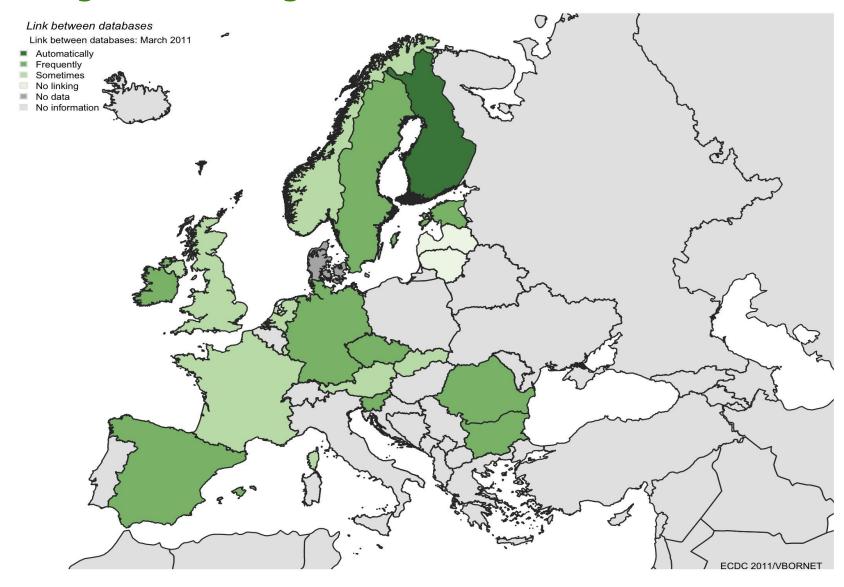
priority is low for Crimean-Congo haemorrhagic fever vector surveillance



# Linkage or exchange information

- Between public health surveillance systems and vector or animal surveillance systems:
  - 5 countries responded YES:
    - > Finland
    - > France
    - > Latvia
    - > Netherlands
    - > Spain

# Linking or exchange information surveillance





## Summary

#### Questionnaire

• 49% response

#### Surveillance:

- Human: Lyme borreliosis: 71% → high priority
- Animal: West Nile Fever: 52%
- Vector: Lyme borreliosis: 38% → high priority

#### Contingency plans:

- Crimean-Congo haemorrhagic fever → low surveillance & priority
- Tularaemia → low surveillance & priority

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### Discussion

 Distinction between surveillance activities performed and priority of surveillance in humans, animals and vectors in Europe

 Why do some countries perform surveillance activities, whereas priority is low

• Results based on information from 49% of EU member states