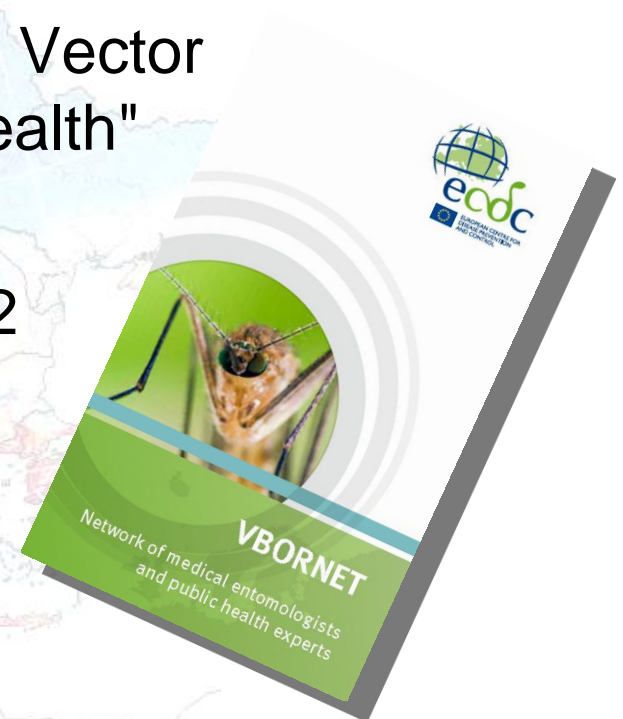




# VBORNET

"European Network for Arthropod Vector  
Surveillance for Human Public Health"

Third AGM Riga 2012





# VBORNET – WP1

## Objectives and achievements



# WP1 contributors

- Executing agency: Avia-GIS, Zoersel, Belgium
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# Main outputs of WP1

- Network secretariat
- VBORNET webpages
- Development, integration and transfer of the vector surveillance and distribution IT tools and databases
- Maintenance of the vector surveillance and distribution databases
- Develop and implement strategy for vector distribution gap analysis

## WP1.1 – Network secretariat

- General administration of network:
  - Three-monthly TelCo with Executive Committee members (= WP leaders) to review deliverable status.
  - Three-monthly TelCo with ECDC project follow-up staff.
- Maintain the directory of the network members and their expertise and send the updated Access database to ECDC on a three-monthly basis.
- Joint AGM with ENIVD
- Two SC meetings

## WP1.2 – Web pages

- Contents vector surveillance network web pages of the ECDC web portal.

[http://ecdc.europa.eu/en/activities/diseaseprogrammes/emerging\\_and\\_vector\\_borne\\_diseases/Pages/VBORNET.aspx](http://ecdc.europa.eu/en/activities/diseaseprogrammes/emerging_and_vector_borne_diseases/Pages/VBORNET.aspx)

[http://ecdc.europa.eu/en/activities/diseaseprogrammes/emerging\\_and\\_vector\\_borne\\_diseases/Pages/VBORNET\\_maps.aspx](http://ecdc.europa.eu/en/activities/diseaseprogrammes/emerging_and_vector_borne_diseases/Pages/VBORNET_maps.aspx)

<http://www.vbornet.eu/>

- Documents and reports produced by the network,
  - Dates of upcoming events and meetings related to VBDs, and
  - News from the network.
- The final content on the ECDC web portal will be decided upon by ECDC.

# VBORNET ECDC Web page

Home
About Us
Activities
Health Topics
Publications
Media Centre

You are here: [ECDC Portal](#) > [English](#) > [Activities](#) > [Disease programmes](#) > [Emerging and Vector-borne Diseases](#) > [Network of medical entomologists and public health experts \(VBORNET\)](#)

**Disease programmes**

- Antimicrobial Resistance and Healthcare-associated Infections
- Emerging and Vector-borne Diseases
- What's new
- About the programme
- Strategy
- Projects
- Network for diagnostics of "imported" viral diseases / Collaborative laboratory response network (ENIVD/CLRN)
- Network of travel and tropical medicine specialists (EuroTravNet)
- Network of medical entomologists and public health experts (VBORNET)**
- VBORNET maps - Mosquitoes
- VBORNET maps - Sandflies

## Network of medical entomologists and public health experts (VBORNET)

VBORNET is a network of medical entomologists and public health experts, funded by the European Centre for Disease Prevention and Control (ECDC).

The network supports ECDC activities in the area of arthropod vector surveillance within the European Union to improve preparedness towards vector-borne diseases.

ECDC started the VBORNET network in September 2009, bringing together entomologists and public health experts that represent all aspects of vector-borne disease-related research and public health activities in Europe.

The network's main tasks are:

- to produce distribution maps of the major arthropod disease vectors and related surveillance activities;
- to define priority strategic topics concerning the public health perspective of vector-borne diseases and vector surveillance.

Updated maps on [exotic mosquitoes](#) and on [ticks and phlebotomines](#) are published at the ECDC website to provide the ECDC stakeholders and the general public with the most updated information on vector distribution.

Investigations to gain an overview of the activities and resources in the Member States related to vector-borne diseases have been launched - to guide Emerging and Vector-borne Diseases Programme to further define a strategy related to vector-borne diseases.

### VBORNET Vector surveillance activities

The network addresses the vector surveillance activities for arthropods of importance to the following priority diseases in the European Union:

**West Nile fever maps**  
[VBORNET maps - mosquitoes](#)  
[VBORNET maps - sandflies](#)

**VBORNET LINKS**

- [VBORNET website](#)
- [VBORNET newsletters](#)

**EXTERNAL LINKS**

- [Delivering Alien Invasive Species In Europe \(DAISIE\)](#)
- [Global Invasive Species Database \(GISD\)](#)
- [National Invasive Species Information Center \(NISIC\)](#)
- [North European and Baltic Network on Invasive Alien Species \(NOBANIS\)](#)

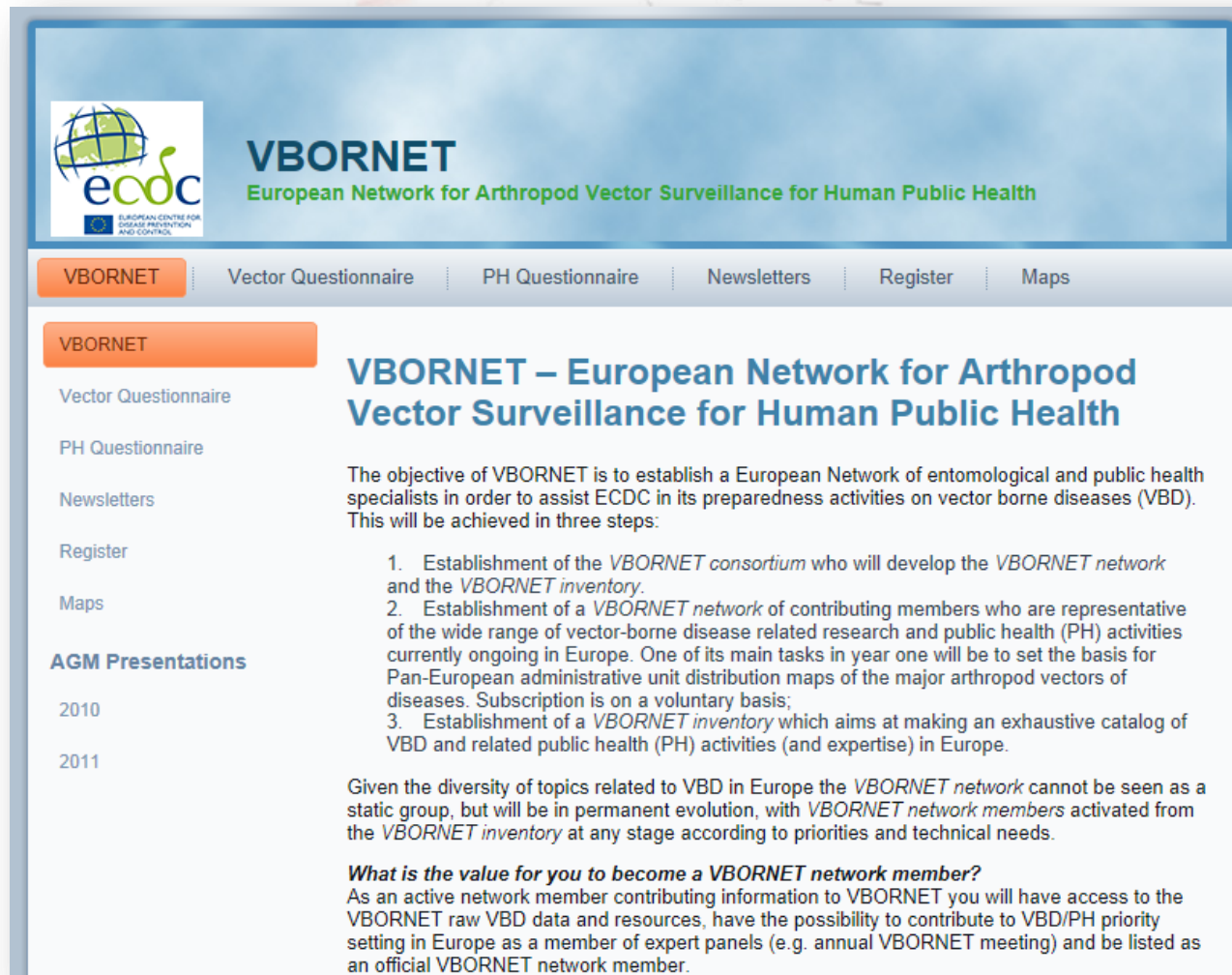
**RELATED HEALTH TOPICS**

- [Aedes aegypti](#)
- [Aedes albopictus](#)
- [Aedes japonicus](#)

# VBORNET ECDC Map page

The screenshot shows the ECDC website interface. At the top, there is a navigation bar with 'Home', 'About Us', 'Activities', 'Health Topics', 'Publications', and 'Media Centre'. The main content area is titled 'VBORNET maps - Mosquitoes' and features a legend for 'EXOTIC MOSQUITOES - DISTRIBUTION MAP'. The legend defines five categories: Purple (Stabilised), Red (Recently present), Green (Absent), Medium grey (No data), and Light grey (Unknown). Below the legend is a map of Europe with a dropdown menu set to 'Aedes japonicus'. The map shows the distribution of this mosquito species across various European regions, with a legend for 'Outbreak regions' including Austria (AT), Canary Islands (ES), Iceland (IS), and Switzerland/Mexico (CH/MX).





The screenshot shows the VBORNET website homepage. At the top left is the ECDC logo. The main header features the text "VBORNET European Network for Arthropod Vector Surveillance for Human Public Health". Below this is a navigation menu with links for "VBORNET", "Vector Questionnaire", "PH Questionnaire", "Newsletters", "Register", and "Maps". The left sidebar contains a "VBORNET" menu item and links for "Vector Questionnaire", "PH Questionnaire", "Newsletters", "Register", "Maps", and "AGM Presentations" (with sub-links for 2010 and 2011). The main content area has a heading "VBORNET – European Network for Arthropod Vector Surveillance for Human Public Health" followed by a paragraph explaining the network's objective and a three-step process. A section titled "What is the value for you to become a VBORNET network member?" provides details on the benefits of membership.

**VBORNET**  
European Network for Arthropod Vector Surveillance for Human Public Health

VBORNET | Vector Questionnaire | PH Questionnaire | Newsletters | Register | Maps

**VBORNET**

Vector Questionnaire

PH Questionnaire

Newsletters

Register

Maps

**AGM Presentations**

2010

2011

## VBORNET – European Network for Arthropod Vector Surveillance for Human Public Health

The objective of VBORNET is to establish a European Network of entomological and public health specialists in order to assist ECDC in its preparedness activities on vector borne diseases (VBD). This will be achieved in three steps:

1. Establishment of the *VBORNET consortium* who will develop the *VBORNET network* and the *VBORNET inventory*.
2. Establishment of a *VBORNET network* of contributing members who are representative of the wide range of vector-borne disease related research and public health (PH) activities currently ongoing in Europe. One of its main tasks in year one will be to set the basis for Pan-European administrative unit distribution maps of the major arthropod vectors of diseases. Subscription is on a voluntary basis;
3. Establishment of a *VBORNET inventory* which aims at making an exhaustive catalog of VBD and related public health (PH) activities (and expertise) in Europe.

Given the diversity of topics related to VBD in Europe the *VBORNET network* cannot be seen as a static group, but will be in permanent evolution, with *VBORNET network members* activated from the *VBORNET inventory* at any stage according to priorities and technical needs.

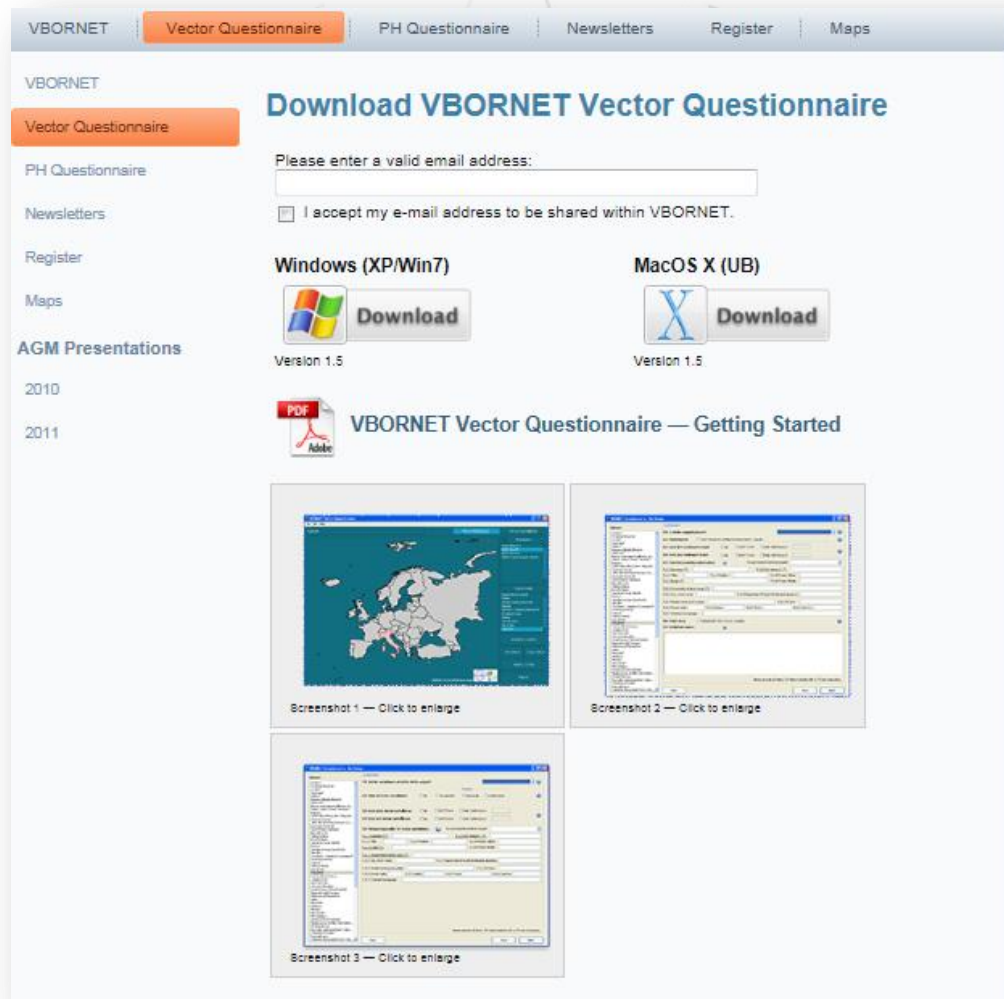
**What is the value for you to become a VBORNET network member?**

As an active network member contributing information to VBORNET you will have access to the VBORNET raw VBD data and resources, have the possibility to contribute to VBD/PH priority setting in Europe as a member of expert panels (e.g. annual VBORNET meeting) and be listed as an official VBORNET network member.

## WP1.3 – Integration and transfer of vector DBs

- Provide further support for the integration and transfer of the surveillance and distribution databases, the data collection tool and the web-based map servers to ECDC IT platform.
- Includes all IT developments as agreed during previous IT meetings and/or further adapted according to ECDC needs.
- Conducted in close collaboration with the ECDC IT, GIS and VBORNET teams.

# VBORNET IT Tools




VBORNET | **Vector Questionnaire** | PH Questionnaire | Newsletters | Register | Maps

**Download VBORNET Vector Questionnaire**

Please enter a valid email address:


I accept my e-mail address to be shared within VBORNET.

**Windows (XP/Win7)**


 **Download**

Version 1.5

**MacOS X (UB)**

 **Download**

Version 1.5

 **VBORNET Vector Questionnaire — Getting Started**

Screenshot 1 — Click to enlarge

Screenshot 2 — Click to enlarge

Screenshot 3 — Click to enlarge

## WP1.4 – Maintenance vector distribution and surveillance DBs

- Continue the maintenance of database software including improvements as required.
- Further update the content of the databases and include newly validated vector distribution and surveillance data.
- Produce and publish four sets of updated vector distribution and surveillance maps (15<sup>th</sup> April, July & October 2012 and 15<sup>th</sup> January 2013)

## WP1.5 – Distribution gap analysis

- Design and implement a strategy for gap analysis for each NUTS3 vector distribution map to identify possible missing data and to allow the targeted search for new vector distribution.
- The gap analysis strategy will include:
  - Expert based identification of confirmed absence zones;
  - A NUTS3 modeling approach;
  - Mixed NUTS3 maps observed/ predicted;
  - Expert evaluation to trigger new inputs.
- The issue of including new legend categories for the predicted probability of presence will be discussed and agreed with ECDC.



# VBORNET – WP1

# Thank you for your questions!

