VBORNET

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

AGM Antwerp 2010

VBORNET
Network of medical entomologists and public health experts

VBORNET framework contract

- Open call for tender by ECDC
- Selection of consortium by ECDC based on objectives/ budget year 1
- Signature framework contract 2+2 between ECDC and main contractor
- Signature sub-contracts between main contractor and consortium members
- Signature specific contract/ budget for year 1
- Based on results year 1 → definition objectives/ budget year 2
- Signature specific contract/ budget for year 2
- The same procedure in Year 2 and 3
- At end year 4: VBORNET handed over to ECDC

VBORNET general objectives (1/3)

- Establish a network of medical entomologists and public health professionals in the EU.

- The network should support ECDC in strengthening vector surveillance activities to improve preparedness towards VBDs in the EU.

- It is crucial that within the network, the entomological expertise is directly linked and applied to public health expertise and experience.
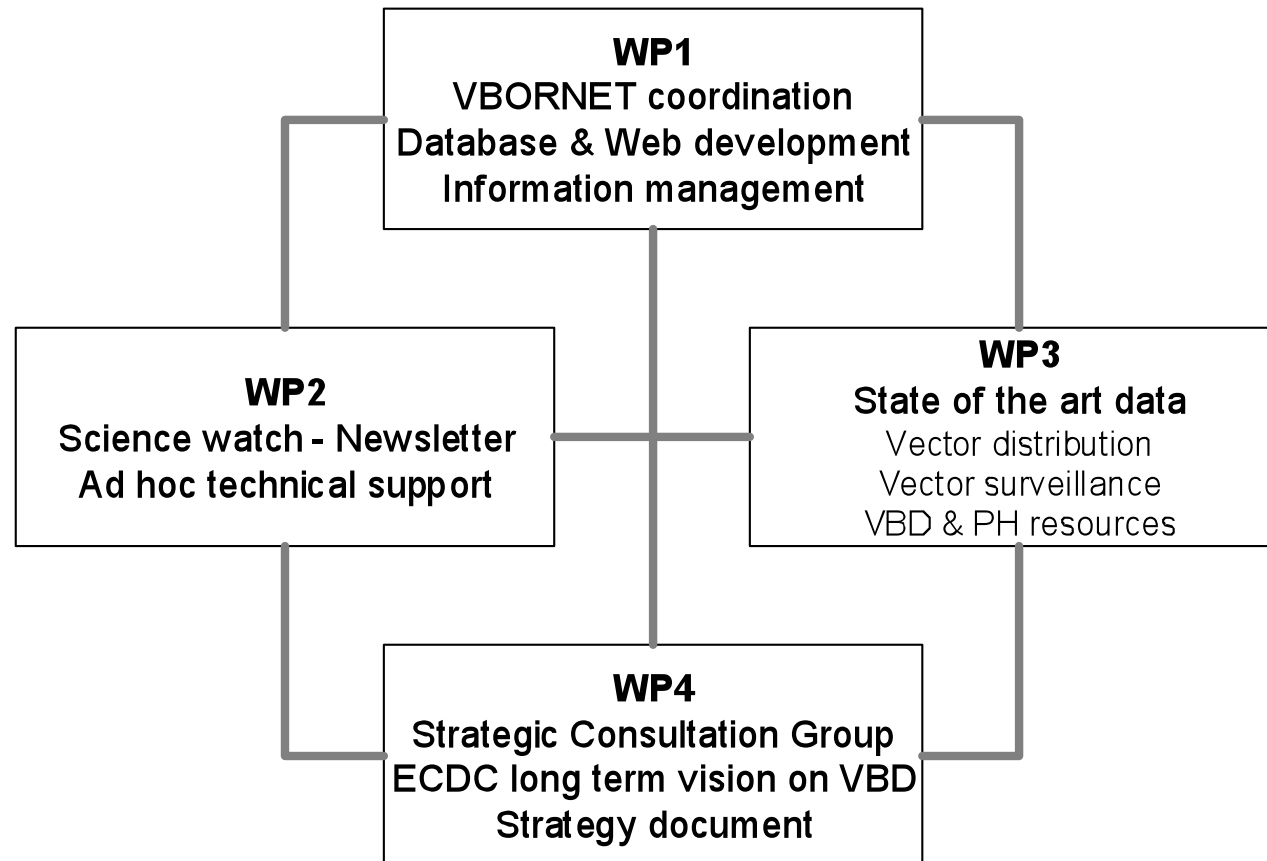
VBORNET general objectives (2/3)

- The tenderer is encouraged to build a consortium, joining different entomologists and public health specialists from academic, non-governmental and public health institutions with an assigned institution responsible for each of the four work packages.

VBORNET general objectives (3/3)

- The scope of the network should address – as a minimum – the vector surveillance activities for arthropods of importance to the following priority diseases in the EU:
  - MBD: chikungunya, dengue, West Nile.
  - TBD: TBE, CCHF, Lyme, tularaemia, rickettsiosis.
  - PhBD: Leishmaniasis, sandfly fevers.

- However, the tenderer is encouraged to cover additional arthropod-borne diseases of importance to public health in the EU.

VBORNET Work Packages

WP1
VBORNET coordination
Database & Web development
Information management

WP2
Science watch - Newsletter
Ad hoc technical support

WP3
State of the art data
Vector distribution
Vector surveillance
VBD & PH resources

WP4
Strategic Consultation Group
ECDC long term vision on VBD
Strategy document

VBORNET Consortium (1/4)

- WP 1: Secretariat, information management and coordination of the network:
  - Leader: Guy Hendrickx – Euro-AEGIS (Avia-GIS)
  - Contributors:
    - Els Ducheyne – Euro-AEGIS (Avia-GIS)
    - Bart de Groot – Euro-AEGIS (Avia-GIS)
    - Willy Wint – Euro-AEGIS (ERGO)

VBORNET Consortium (2/4)

- ## WP 2.1: Science watch and News Letters:
  - Leader: Paolo Calistri – IZS AM

- ## WP 2.2: Technical support and risk assessment fact sheets:
  - Leader: Jolyon Medlock – HPA

VBORNET Consortium (3/4)

- ## WP 3: Vector surveillance and distribution data:
  - Leader: Veerle Versteirt – ITM

  - Vector network focal points:
    - Mosquitoes: Francis Schaffner – Avia-GIS
    - Ticks: Laurence Vial – CIRAD
    - Phlebotomes: Bülent Alten - HACETTEPE
    - Other arthropod vectors: Pierre-Edouard Fournier – UNIVMED
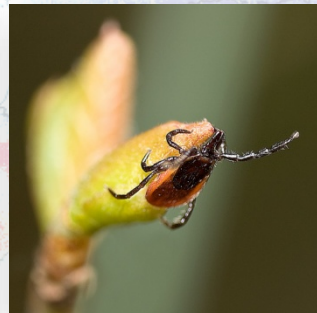
VBORNET Consortium (4/4)

- WP 4: Strategic consultation group (VBD public health):
  - Leader: Joke van der Giessen – RIVM
  - Public health focal points:
    - Northern EU: Marika Hjertqvist – SMI
    - Western Temperate EU: Joke van der Giessen – RIVM
    - Central Temperate EU: Zdenek Hubalek - IVB
    - Mediterranean basin: Renaud Lancelot – CIRAD
    - Overseas EU: Didier Fontenille – IRD
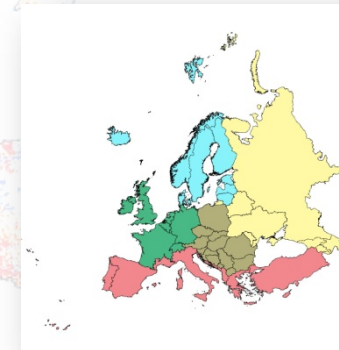
VBORNET PH geographical zones
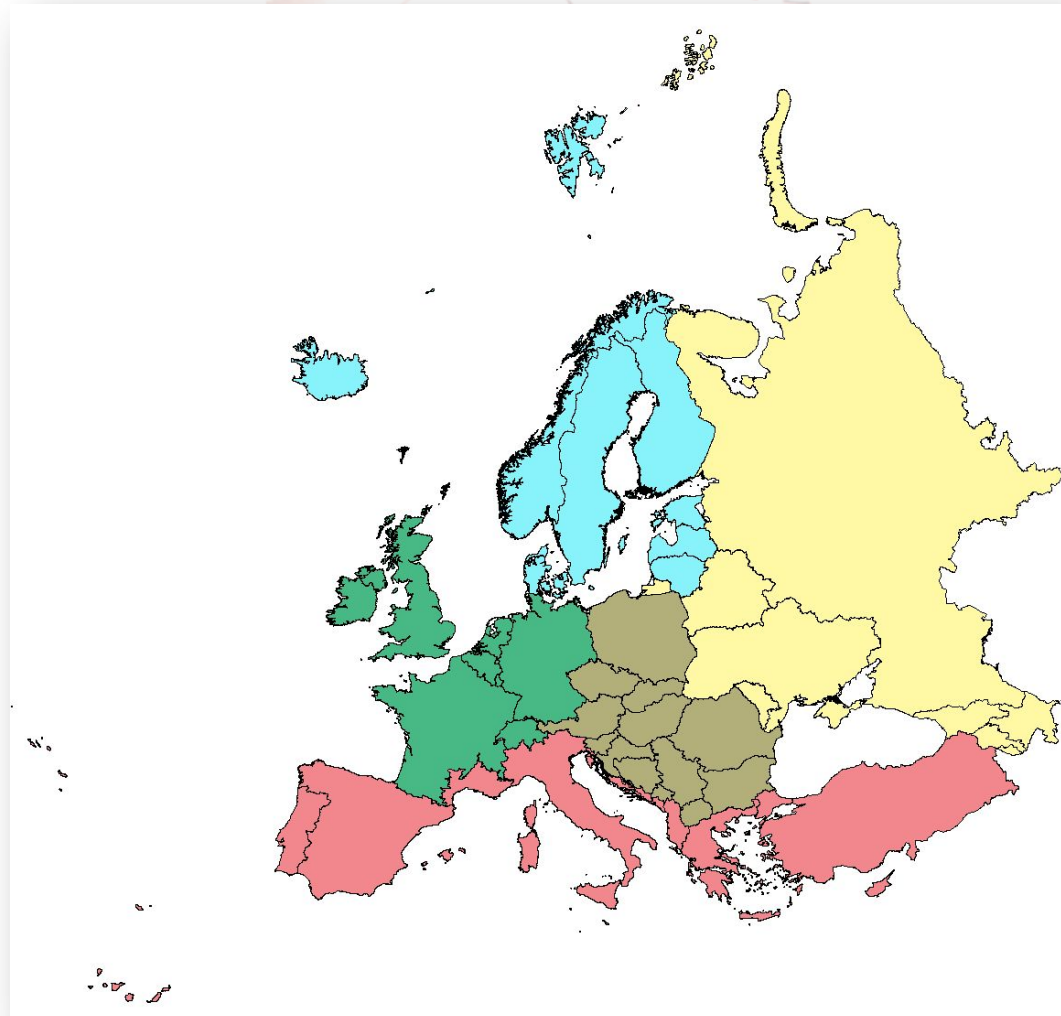
VBORNET KOM 9/9/2009

WP1

Objectives, Achievements and Suggestions for Future Activities

Objectives WP1

- Data sharing rules

- Network development

- Network administration, coordination and communication

- ICT development:
  - Database
    - Vector distribution tool
    - Related expert database
    - Data quality control tool
  - Web portal

- Kick-off meeting, Steering Committee meetings and Annual General Meeting

Achievements WP1 (1/6)

Data sharing rules

- ***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.

- ***How will the VBD community as a whole benefit from VBORNET?***
  VBORNET aims to make available through internet regularly updated vector distribution maps of the major arthropod vectors of diseases in Europe, inventory of VBD and related PH expertise, publications, surveillance and control activities, and a monthly newsletter with news items and events.

- ***What is VBORNET expecting from you as a network member?***
  The VBORNET network is looking for VBD experts who are interested in data sharing and networking. At this early stage VBORNET will focus on acquiring baseline data on confirmed vector presence at various administrative scales (NUTS 1-2-3) and quality control of the various VBORNET database inputs. VBORNET network members can be representatives of other existing VBD networks.

Achievements WP1 (2/6)

- Network development:
  - EDEN, V-borne, TigerMaps
  - Open request for membership
  - Network member inputs
  - Links with other networks: ENIVD, EMCA, ICTTD
  - 400+ VBD experts currently listed
  - 60 invited at AGM (as per contract)

Achievements WP1 (3/6)

- ## Network administration:
  - KOM
  - Liaison with ECDC
  - Coordination consortium
  - Coordination network
  - AGM (seperate budget)

Secretariat (Sec)
Coordinator
Admin. Support staff

Executive Commitee (EC)
Coordinator
WP leaders

Steering Committee (SC)
Coordinator
WP leaders
Network Focal Points

Annual General Meeting (AGM)
Coordinator
WP leaders
Network Focal Points
Network members
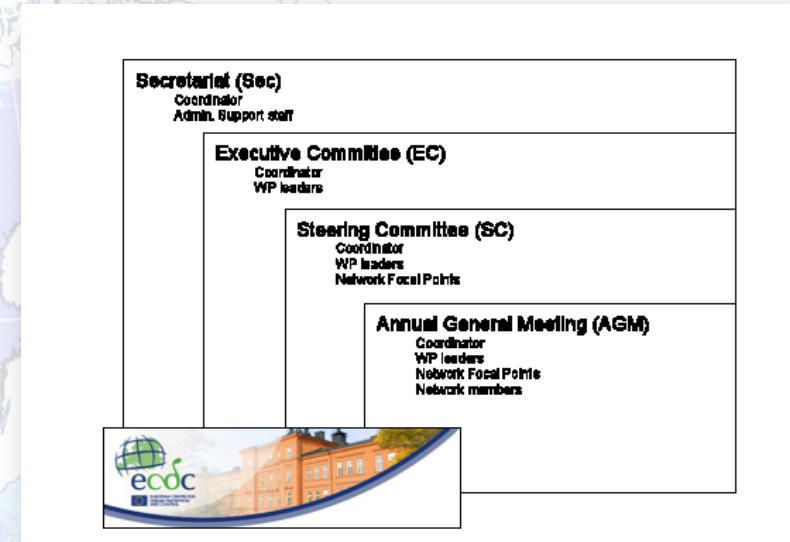
		2009				2010							
		9	10	11	12	1	2	3	4	5	6	7	8
	KOM SC	X											
Tel Conferences	Sec-ECDC	X	X		X	X		X	X		X	X	
	EC	X	X		X	X		X	X		X	X	X
	EC-ECDC			X						X			X
	SC						X						
	AGM										X		

Achievements WP1 (4/6)

- ## Database and webportal

  - ### ICT standardization issue

    - ECDC webpage
      http://www.ecdc.europa.eu/EN/ACTIVITIES/DISEASEPROGRAMMES/Pages/VBORNET.aspx

    - EDEN webpage
      http://edendatasite.com click VBORNET TAB

  - ### Vector distribution tool

    - Downloadable

    - User manual

    - Automatic data upload to database

    - Quality control tool

Achievements WP1 (5/6)

Antwerp, June 2010

Achievements WP1 (6/6)
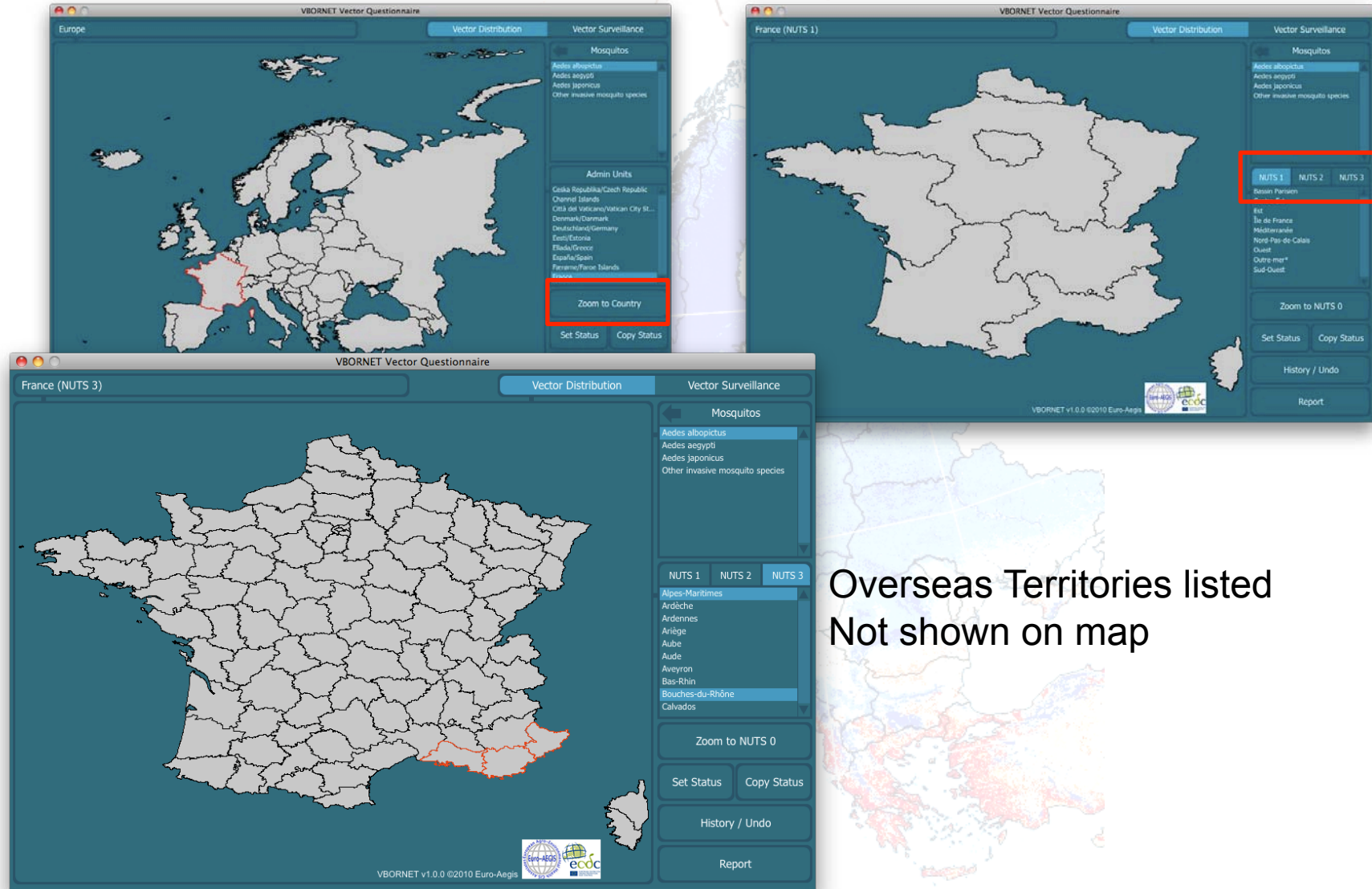
VECTOR DISTRIBUTION TOOL
by E. Ducheyne
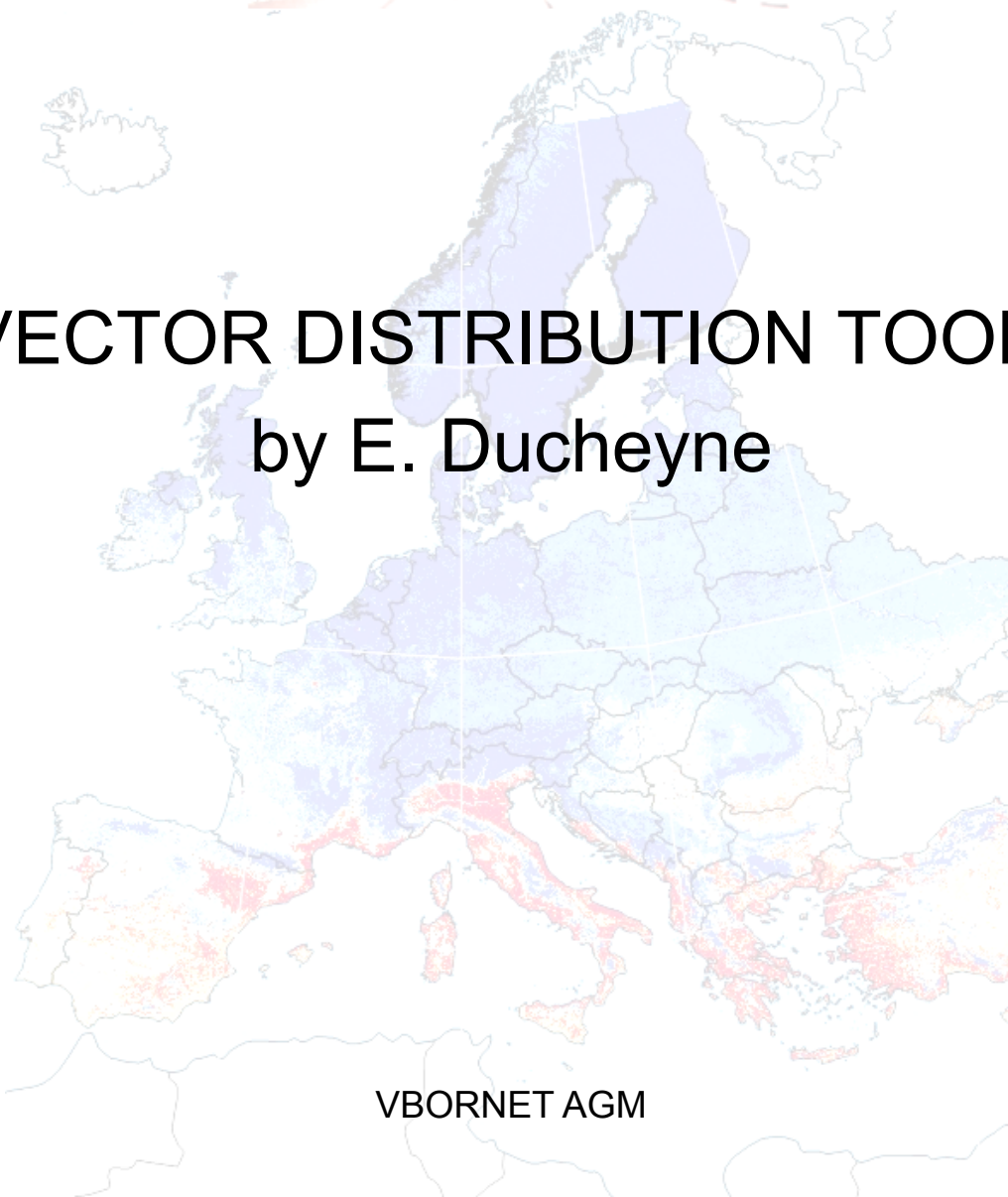
VBORNET Distribution Tool

- Collect data at different NUTS levels
  - Entomological
  - Surveillance

- Spatial coverage
  - Continental Europe
  - Overseas Territories

- Standardised definition of status

- Periodic generation of maps

VBORNET Distribution Tool

Overseas Territories listed
Not shown on map

VBORNET Distribution Tool

- ## Automatic up/downscaling mechanism
  - ### If there is a 'Recently present/Yes' entered at NUTS3
    - Automatic Downscaling to lower NUTS levels
    - NUTS3->NUTS0 will get 'Recently present/Yes'
  - ### If there is a 'Absent/No' entered at NUTS0
    - Automatic Upscaling to higher NUTS levels
    - NUTS0->NUT3 will get 'Absent/No'

- ## Recommendation for users:
  - ### Enter 'Recently present/Yes' at highest level
  - ### Enter 'Absent/No' at lowest level

VBORNET Distribution Tool

VBORNET Distribution Tool

Automatic Downscaling

VBORNET Distribution Tool

VBORNET Distribution Tool

Automatic Upscaling

VBORNET Distribution Tool

Making changes

VBORNET Distribution Tool

After successful upload
- confirmation
- data entry not 'undo'

What happens to your data

Central DB

Raw   Validated

Validator

Mosquitoes
Ticks
Phlebotomines

Contributors : shapefile
Public: JPEG
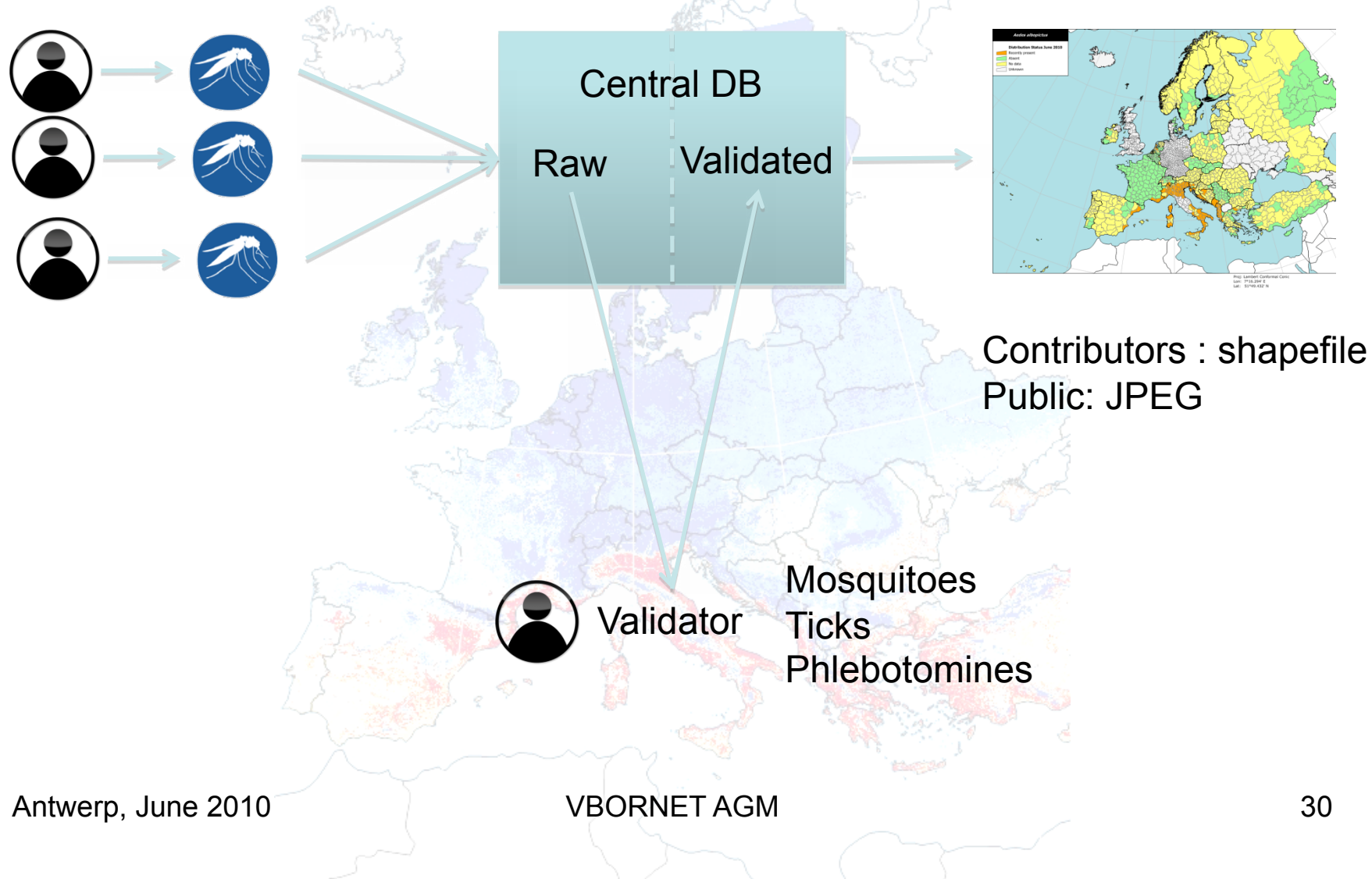
Validation procedure

- Validator downloads new entries using validation tool
  - Split according to period
  - Split according to three groups

- Validation tool
  - Per admin unit all entries from multiple contributors are listed
  - Validation of
    - Expert data
    - Entomological/Surveillance data
  - Assignment of overall status per admin unit

VBORNET Validation tool

VBORNET Validation tool

Where can we find everything?

- All tools + documentation available on EDEN datasite http://edendatasite.com click VBORNET TAB

- Available for Windows and Mac OS
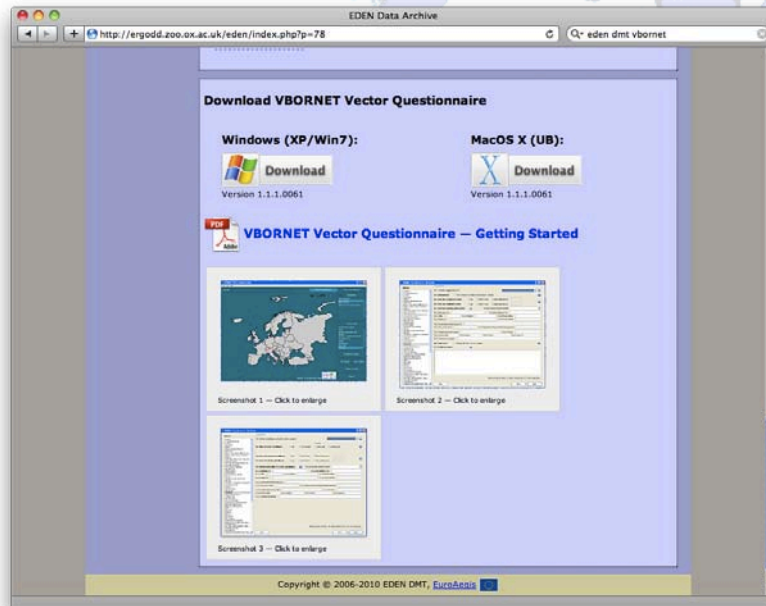
Dissemination

- Distribution of shapefiles to contributors
  - E-mail that shapefiles are available online
- Public dissemination of JPEG via ECDC
- How to manage other requests for data access?
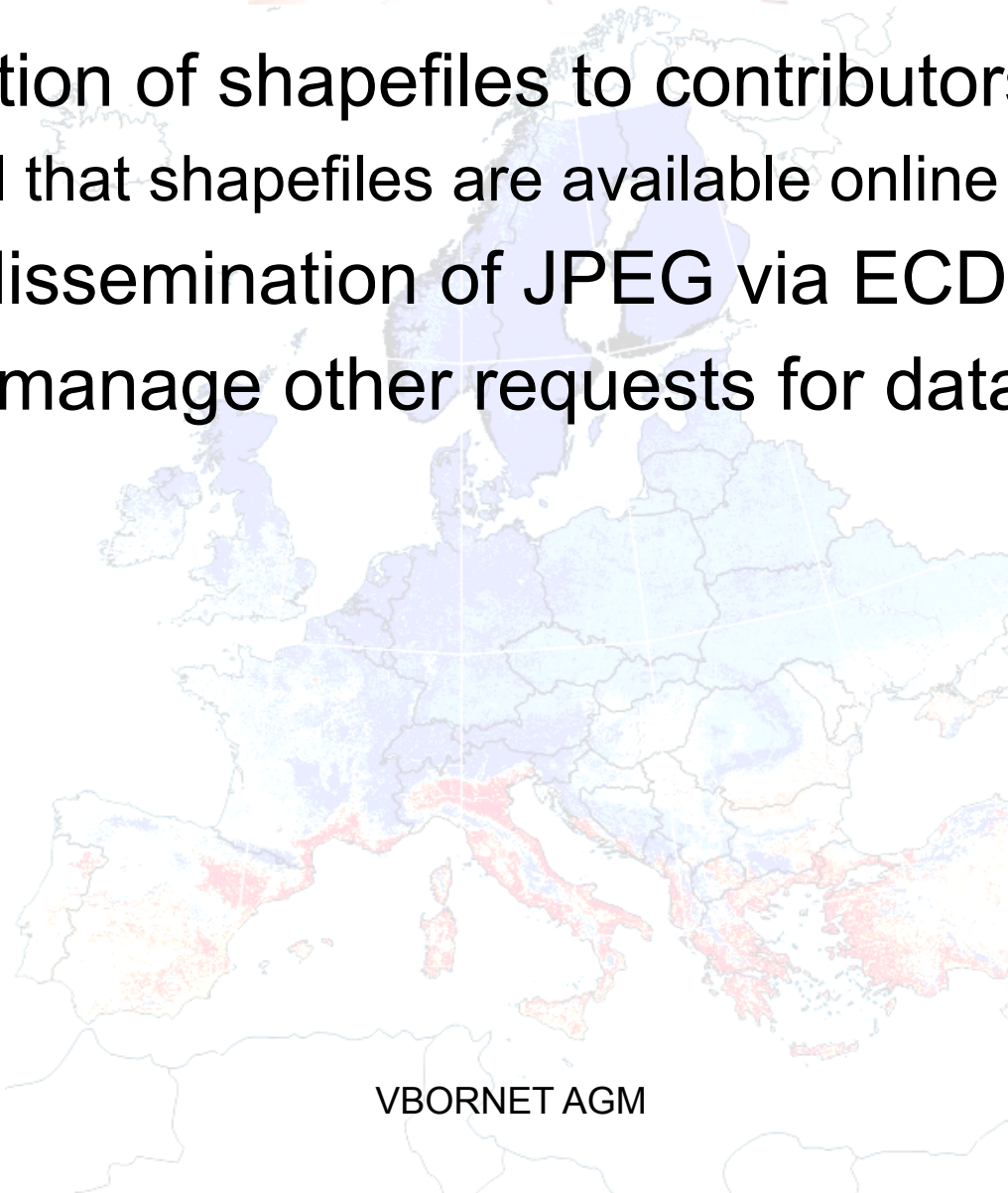
Points to consider for future developments

- How to deal with data gaps and how may spatial modelling approaches contribute to alleviate this?

- Under which circumstances are additional field data needed? How to acquire such data?

- How to use spatial models with the available data to identify vector specific climatic envelopes and how these may serve as a basis for predicting distribution shifts.

- How to use the vector data base to contribute to VBD risk analysis studies? Should we compile additional vector parameters such as vector species co-occurrence using primary database?

Thank you for your questions!

http://www.ecdc.europa.eu/EN/ACTIVITIES/
DISEASEPROGRAMMES/Pages/VBORNET.aspx

http://edendatasite.com   click VBORNET TAB