





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

AGM Antwerp 2010



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.

Antwerp, June 2010



VBORNET general objectives (2/3)

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

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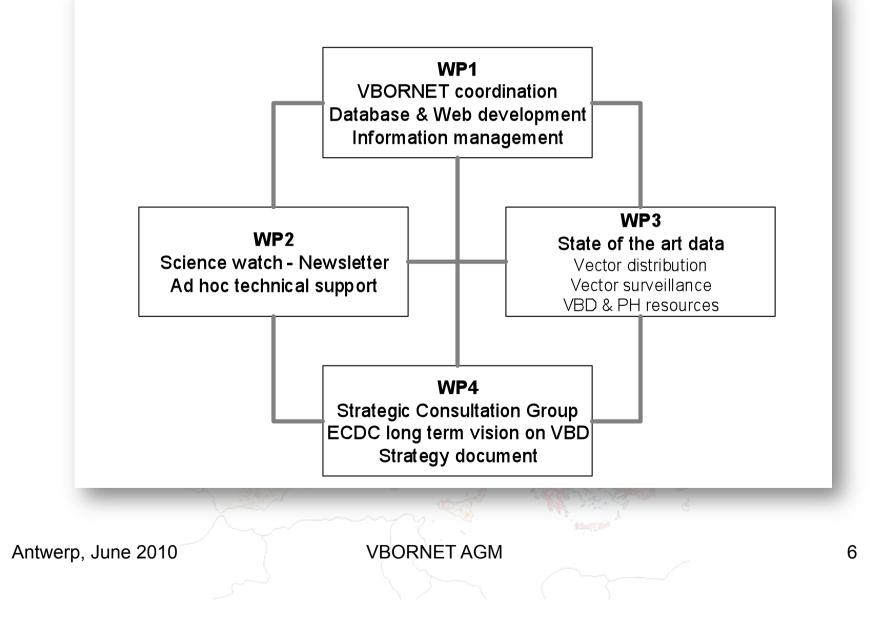


VBORNET general objectives (3/3)

- 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





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



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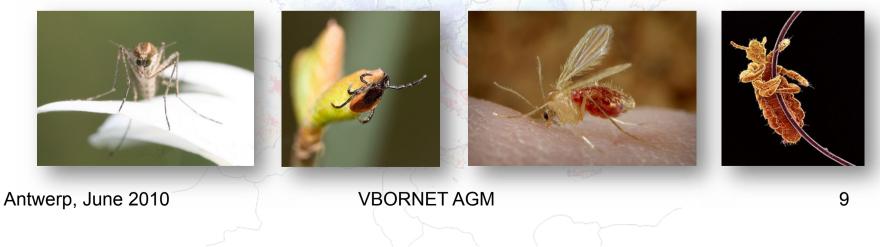
VBORNET Consortium (3/4)

- WP 3: Vector surveillance and distribution data:
 - Leader: Veerle Versteirt ITM
 - Vector network focal points:

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- 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

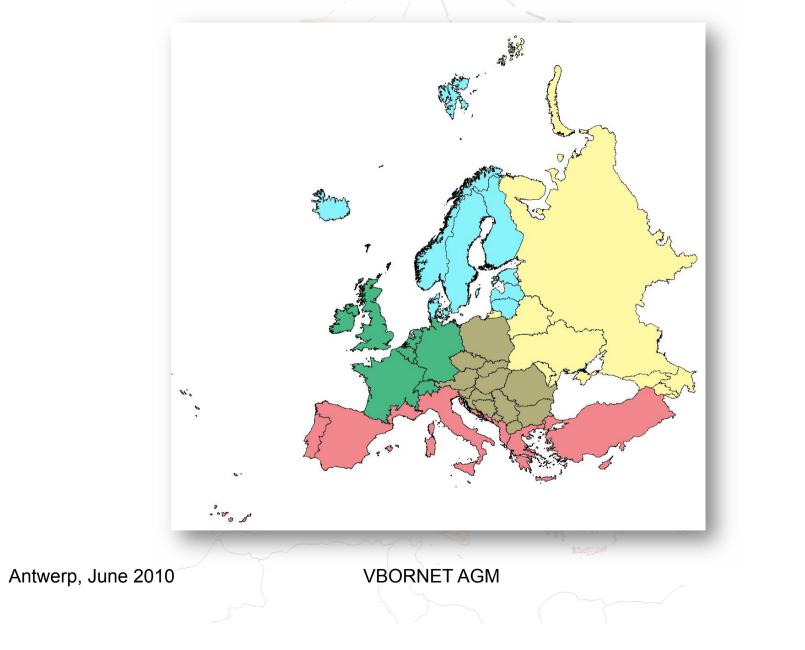


Antwerp, June 2010

VBORNET AGM



VBORNET PH geographical zones





VBORNET KOM 9/9/2009







Objectives, Achievements and Suggestions for Future Activities

WP1

Antwerp, June 2010

VBORNET AGM

Objectives WP1

Data sharing rules

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- 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

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- 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.

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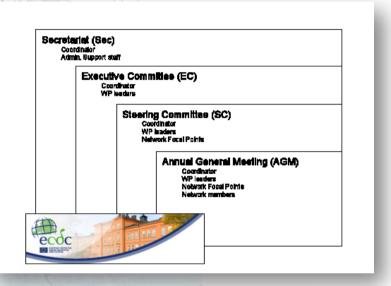
Achievements WP1 (2/6)

- 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)



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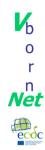
Antwerp, June 2010



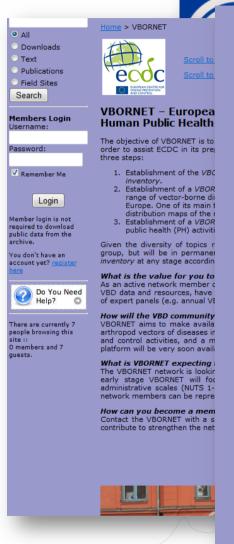
Achievements WP1 (4/6)

- 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

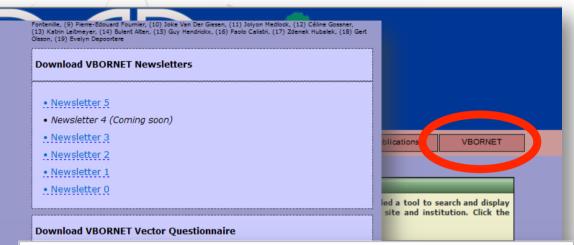
Antwerp, June 2010

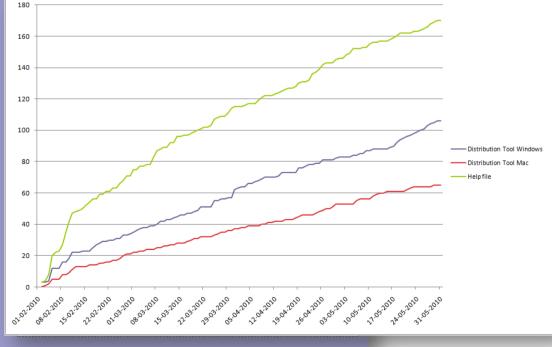


Achievements WP1 (5/6)



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Achievements WP1 (6/6)

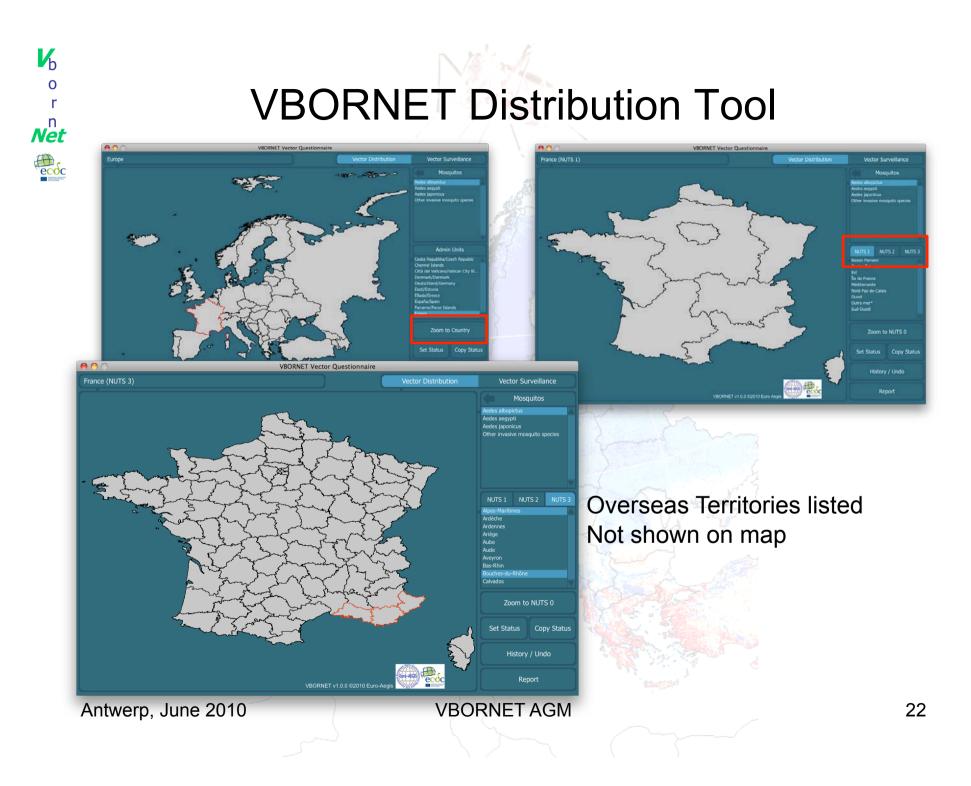
VECTOR DISTRIBUTION TOOL by E. Ducheyne

Antwerp, June 2010



- Collect data at different NUTS levels
 - Entomological
 - Surveillance
- Spatial coverage
 - Continental Europe
 - Overseas Territories
- Standardised definition of status
- Periodic generation of maps

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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



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antal harente	5.1.7 E-mail (*):	francis.schaffner@	access.uzh.cl	h	5.1.	6 Phone Mobi	le:	
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Online Help

D1: Is species present

Please indicate the current status of the species' presence. The categories are defined as:

- 1. indigenous: species has been present at least since beginning of 19th century
- 2. recently present: species has been recently introduced
- 3. absent: species has always been absent
- 4. extinct: indigenous species is now absent
- 5. not anymore: recently present species is nows absent
- 6. no data: it is confirmed that there is no data available
- 7. unknown: there is no information about status nor whether data is available

D2: Presence only in sheltered environment

Please indicate if the species is only found in a sheltered environment and cannot survive outside. Select

e type of sheltered environment from the drop-down list, or add a different category if required.

D3: Date first confirmed record

ndicate whether you have information about the first date of confirmation of the presence/absence status.

D4: Date last confirmed record

Indicate whether you have information about the last date of confirmation of the presence/absence status.

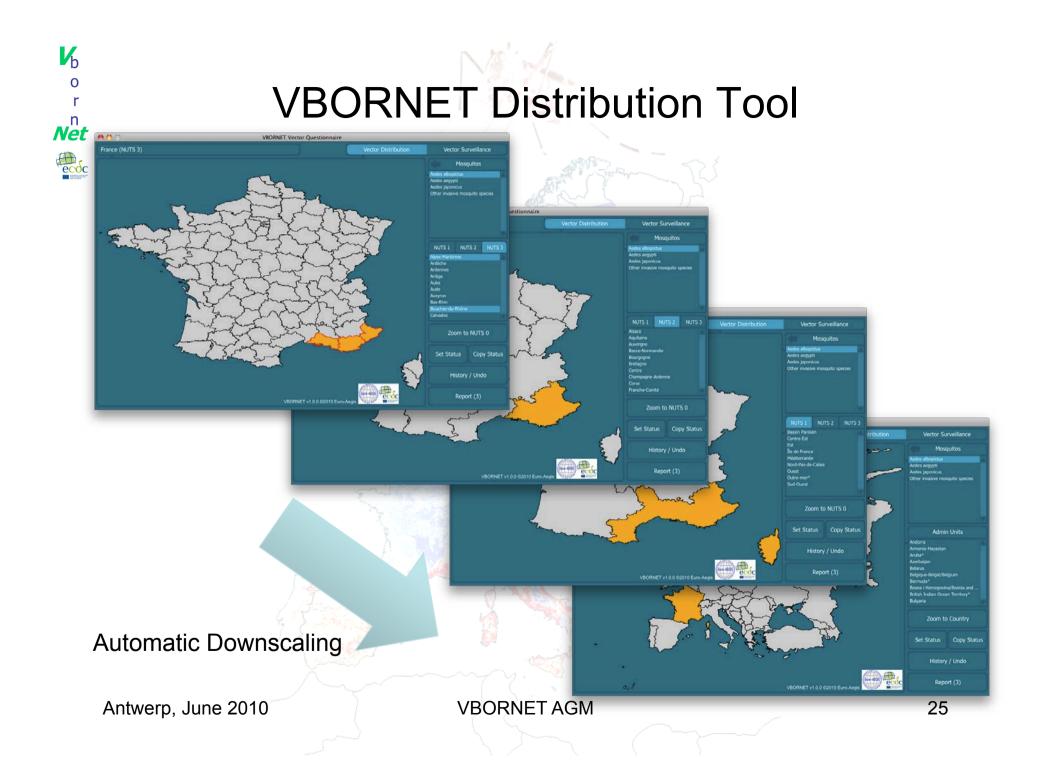
D5: Scientist providing information

inter your personal details. You can retrieve previously entered data using the 'Re-use expert' drop-down

6: GIS related point data is available

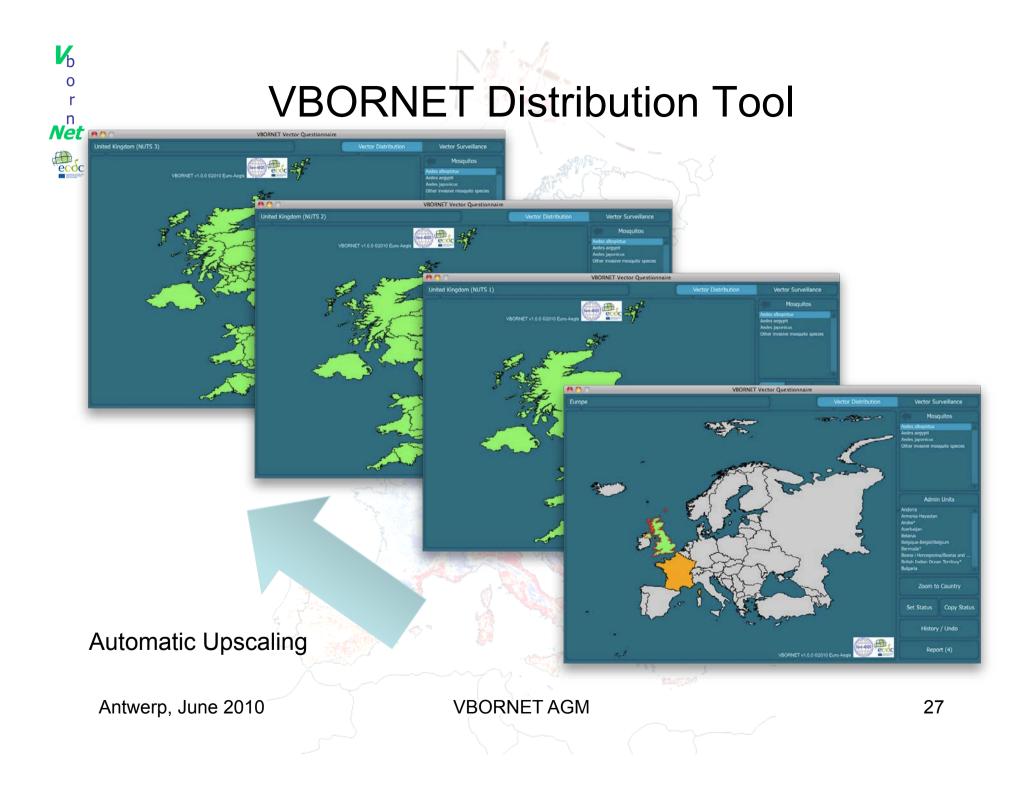
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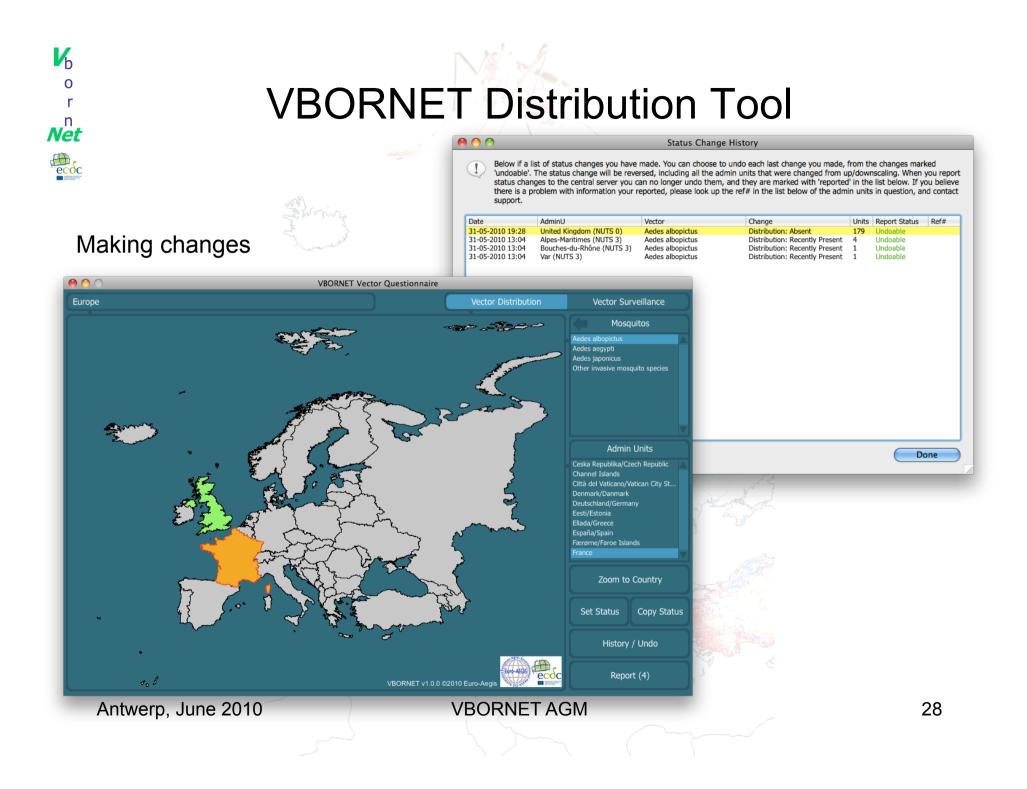
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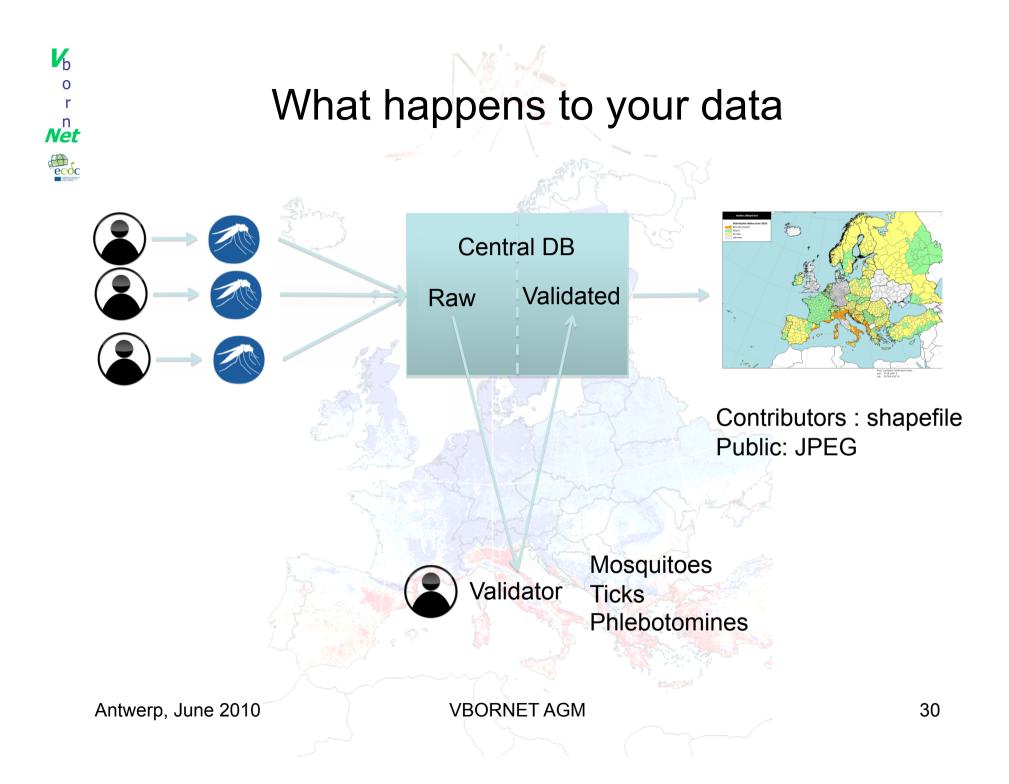


ecóc	00	VBORNET Questionnaire - Set Status
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	Hrvatska/Croatia Ireland	D1: Is Aedes albopictus present: Absent
00	Ísland/Iceland Isle of Man	D2: Environment: Only Present In Sheltered Environment, Specify:
Europe	Italia/Italy Kypros-Kibris/Cyprus Latvija/Latvia	D3: Date first confirmed record: NA Don't Know Date (ddmmyyyy):
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Liechtenstein Lietuva/Lithuania	D4: Date last confirmed record:   NA Don't Know Date (ddmmyyyy):
	Luxembourg (Grand-Duché) Magyarorszag/Hungary Makedonija/Macedonia	D5: Scientist providing information:       Q       Re-use recently entered expert:         5.1.1 Surname (*):       Schaffner       5.1.2 First Name(s) (*):       Francis
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-	Moldova Monaco	5.1.7 E-mail (*):     francis.schaffner@access.uzh.ch     5.1.6 Phone Mobile:
anno A	Monserrat* Montenegro Nederland/Netherlands	5.2.1 Organisational legal name (*): University of Zürich
• • • • • • • •	Nederlandse Antillen/Netherlands Antilles* Norge/Norway	5.2.2 Org. short name: 5.2.3 Department/Faculty/Institute/Labaratory:
	Nouvelle Calédonie/New Caledonia* Österreich/Austria	5.3.4 Street name and number:         5.3.1 PO Box:           5.3.2 Postal Code:         5.3.3 Cedex:         5.3.5 Town:         5.3.6 Country:
	Polska/Poland Polynésie française/French Polynesia* Portugal	5.3.7 Internet homepage:
	România/Romania Rossija/Russia	D6: Point data: Related GIS Point Data is available
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•	Sverige/Sweden The British Virgin Islands*	
To \$	The Cayman Islands* The Falkland Islands* The Pitcairn Islands*	
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Antwerp, June 2010		VBORNET AGM 26
Antwerp, Julie 2010		





	Sign Up
Report The status changes you have made will be reported to the central server. Each	The VBORNET Vector Questionnaire tool requires you to have a VBORNET enabled EDEN DMT website account. Please out the fields below to create such an account and have it VBORNET enabled. If you already have an EDEN DMT account, please click the 'I already have an EDEN DMT account' button to have it VBORNET enabled. Items with a bold label and an asterisk (*) are compulsary.
be reported individually. After they have been reported you will no longer be al Each reported item will be marked with a reference number, you can find this r	(0-9). Your username may not contain any other charact spaces. Usernames are case sensitive!
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## 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

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				Zürich (N-2)	1	1			
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hing				Rossija/Russia	8	8			
				Slovenija/Slovenia	3	3		Absent	
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# **VBORNET** Validation tool

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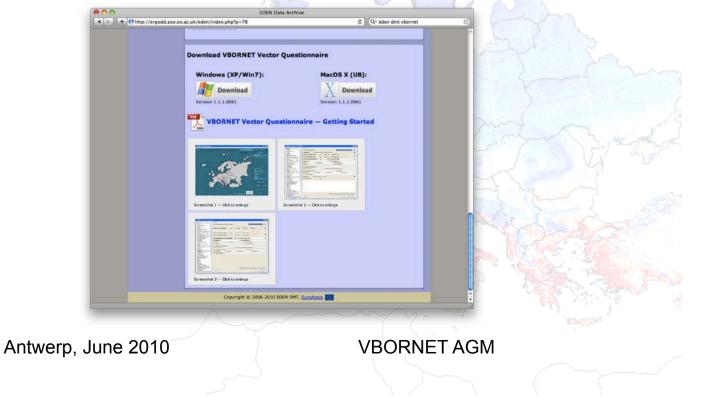
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00		enzell Ausserrhoden (N-3)	
Vector Distribution	: Aedes albopic	IS 🔰	
Admin Unit - Parents and Children:		Reports Metadata	
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<ul> <li>Schweiz-Suisse-Svizzera/Switserland (N-1)</li> <li>Ostschweiz (N-2)</li> </ul>	Reporter	Date Status Valid Invalid	
Appenzell Ausserrhoden (N-3)	Francis Schaffner [francis]	09-03-2010 14:09:04 No Data 🗌 Valid 🗌 Invalid	
		O VBORNET Vector Validator	
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		Vector Distribution Vector Surveillance Admin Unit Univer.  Total	Current Status New
		Arthropod     Unverified       V     Schweiz-Suisse-Svizzera/Switserland	
		Vectors Schweiz-Suisse-Svizzera/Switserland (N-1)	
		✓ Mosquitos ✓ Ostschweiz (N-2)	
		Aedes albopictus 2 Appenzell Ausserrhoden (N-3)	No
		Aedes aegypti 0 Appenzell Innerrhoden (N-3)	
		Ticks     Glarus (N-3)       Phlebotomines     Graubünden (N-3)	
		Phlebotomines         Graubünden (N-3)           Schaffhausen (N-3)         Schaffhausen (N-3)	
		St. Gallen (N-3)	
		Thurgau (N-3)	
		Zentralschweiz (N-2)	
		Espace Mittelland (N-2)	
	Current Status	Nordwestschweiz (N-2)     Région lémanique (N-2)	
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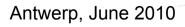
### Where can we find everything?

- All tools + documentation available on EDEN datasite <u>http://edendatasite.com</u> 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?



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### 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?

Antwerp, June 2010

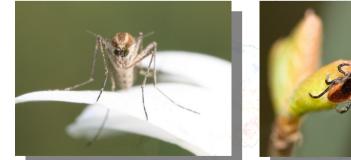




### Thank you for your questions!

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

#### http://edendatasite.com click VBORNET TAB



Antwerp, June 2010





