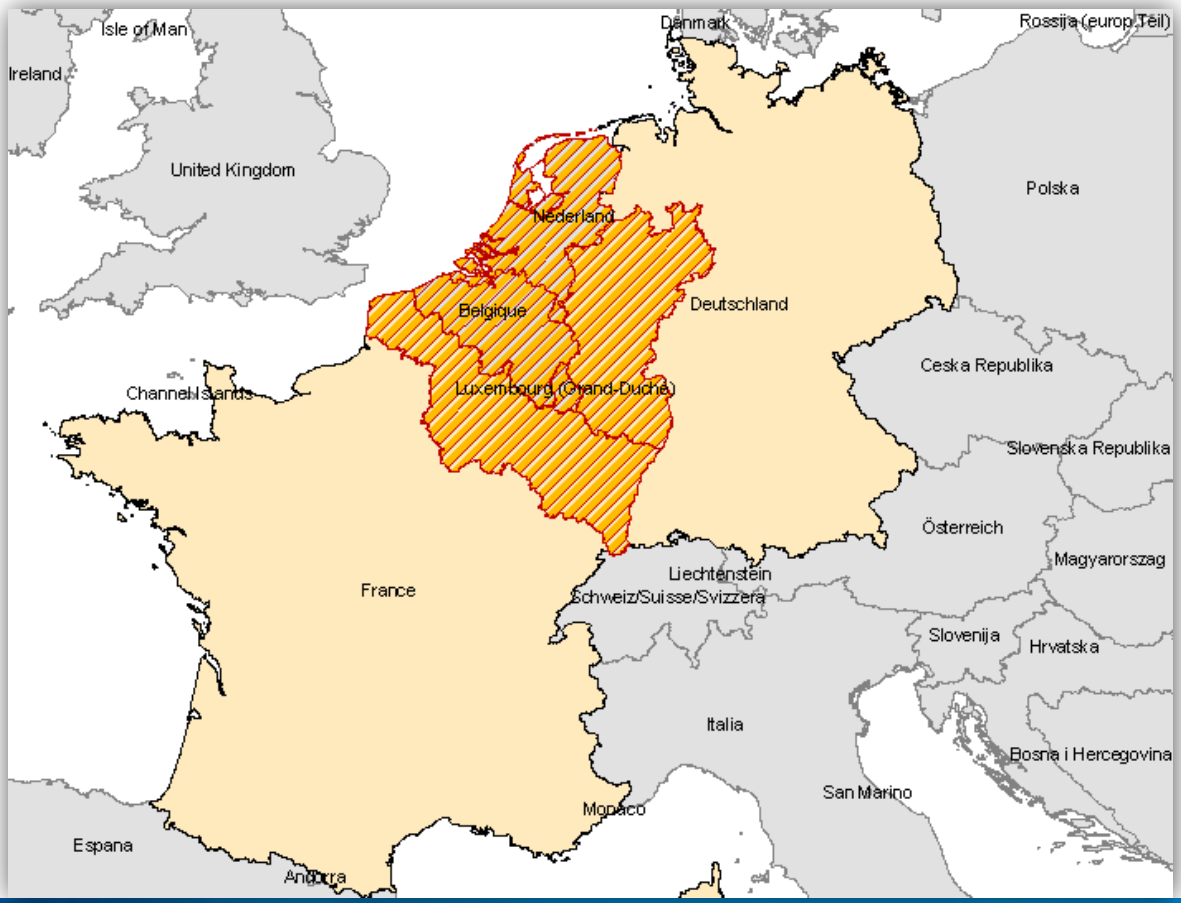
EU Reference Laboratories
CSF / ASF
Wild Boar Surveillance Database

Institute of Epidemiology, FLI, Riems, Germany
EURL CSF, TiHo Hannover, Germany
EURL ASF, CISA-INIA Madrid, Spain

Background (1)

- CSF Outbreaks in Wild Boar 2002
  - Germany: 424
  - Belgium: 1
  - Luxembourg: 65
  - France: 28

CSF in Wild Boar Surveillance Database for Belgium, France, Germany, Luxembourg and the Netherlands



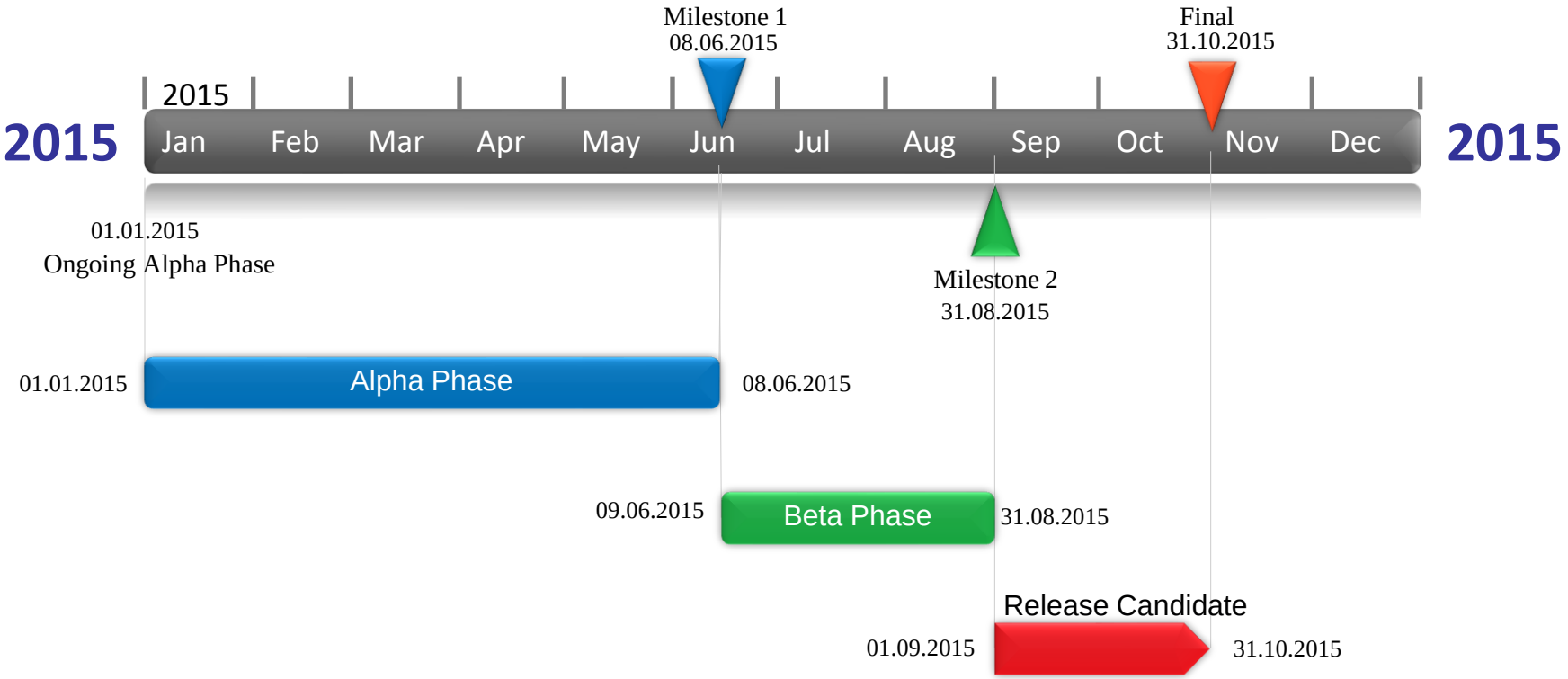
Background (2)

- Proposal of the European working group on CSF in wild boar to establish a surveillance data base for the transparent evaluation of the epidemiological situation in the participating countries, in a spirit of co-operation (SANCO/10420/2002), in September 2002
- Decision of the European Commission concerning the data base (2003/257/EC) in April 2003

Taking into account

- the current ASF situation in the eastern MS and bordering third countries
- that the same animals/carcasses are tested for presence of ASF virus and antibodies as well as for CSF for differential diagnostic- and routine surveillance purposes
- the request of some participating member states

Timetable

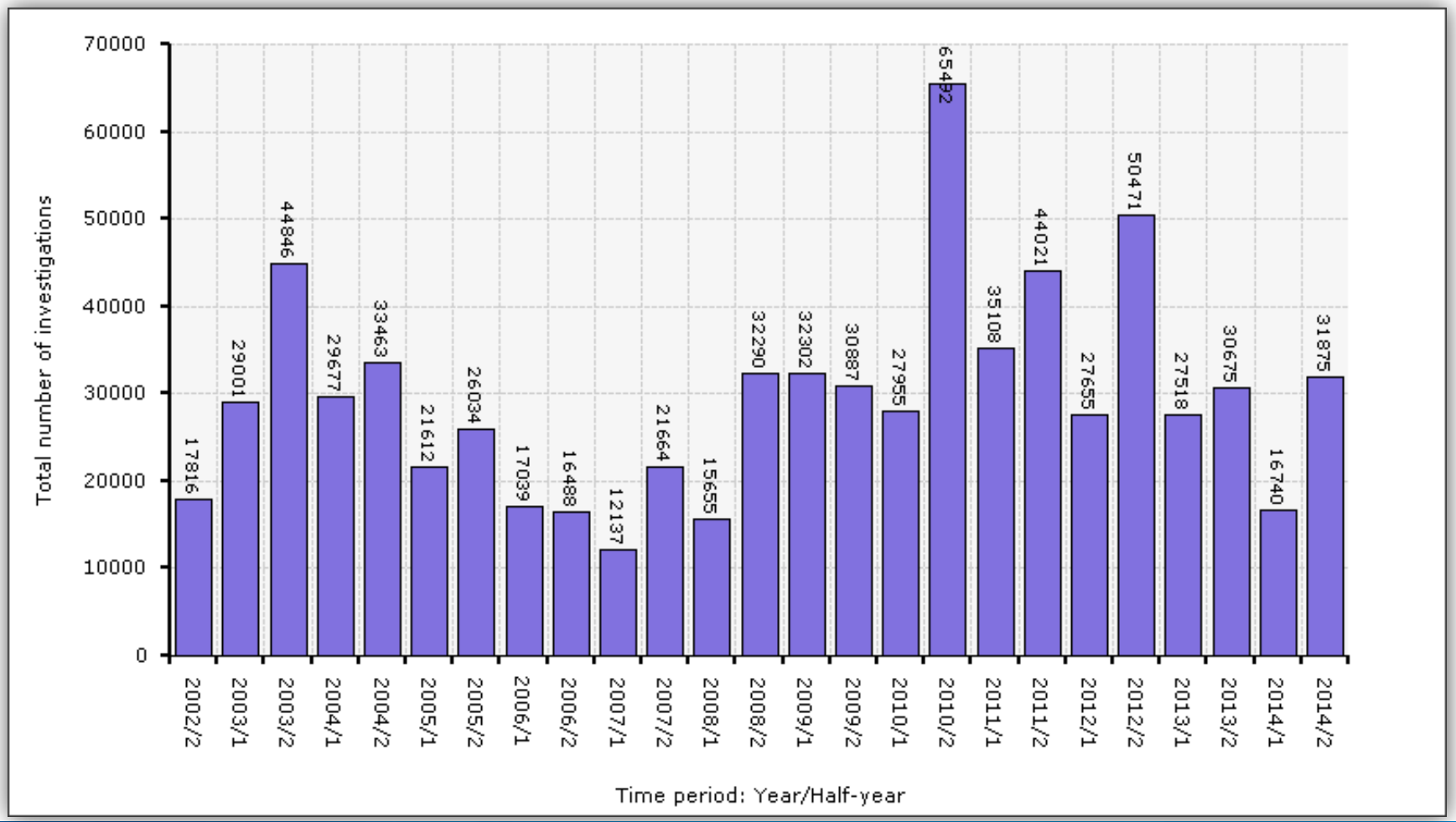

Milestone 1
08.06.2015
Final
31.10.2015
2015
2015
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
2015
01.01.2015
Ongoing Alpha Phase
Milestone 2
31.08.2015
01.01.2015
Alpha Phase
08.06.2015
09.06.2015
Beta Phase
31.08.2015
Release Candidate
01.09.2015
31.10.2015

CSF-DB Facts:

- 13 participating member states
- 366 users
- 750,218 official data records since 2002
- 41,352 research data records 1999 - 2002
- 157 defined restriction zones and vaccination areas

08.06.2015

CSF-DB Number of records from 2002-10-01 to 2014-12-31



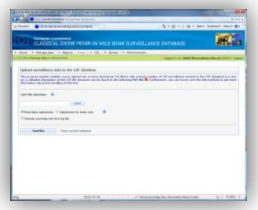
Features:

- Decentralized user account management
- Data acquisition: webform | csv upload
- User defined: restriction zones, vaccination areas and customized regions
- CSF & ASF data analysis:
  Reports & Diagrams & Maps
- EURL Report (CSF)

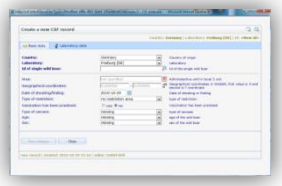
CSF / ASF Database

Veterinary authorities / Laboratories

Local PC

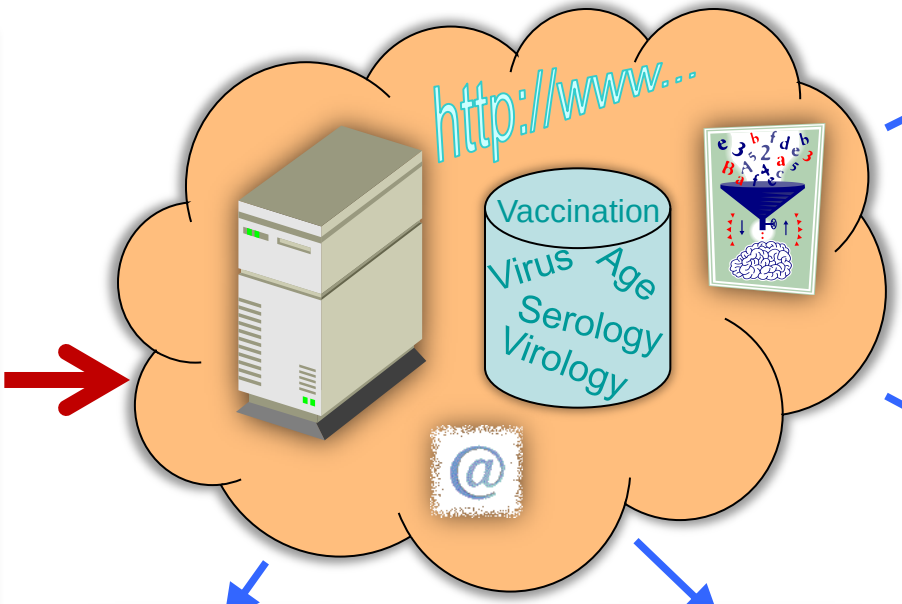


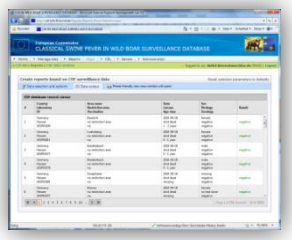
CSV file upload



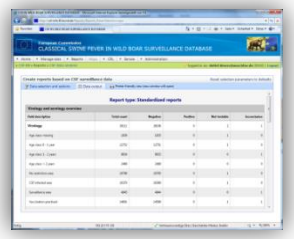
Web form

DB DataProvider



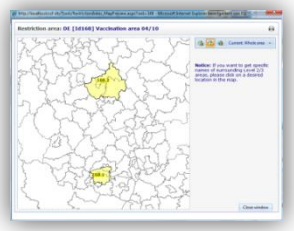


Ministries



Veterinary authorities

Laboratories



EC, EURL

FRIEDRICH-LOEFFLER-INSTITUT
since 1910
FLI
Bundesforschungsinstitut für Tiergesundheit
Federal Research Institute for Animal Health

INIA
Instituto Nacional de Investigación y Tecnología Agraria y Alimentaria

STIFTUNG TIERÄRZTLICHE HOCHSCHULE HANNOVER 17 78

EU Reference Laboratories
CSF / ASF WILD BOAR SURVEILLANCE DATABASE

Home | Manage data | Query data | Maps | EURL | Service | Help | Administration

» CSF / ASF-DB » Home » Start page

logged in as: **support@csf-wildboar.eu** (ID429) | **Logout**

Welcome to the CSF / ASF Wild Boar surveillance database

This web page is optimized for the use of **Internet Explorer 8**, **Mozilla Firefox 3.x.x**, **Google Chrome 8.x.x** or higher versions and best viewed with a minimum resolution of 1024x768 pixel! For a smooth representation of this web page, we recommended to allow this page in any PopUp-Blocker solutions! Click here to get more info.

© by EURL, FLI | AppVersion: v2.2.0_pre 2015-05-21

2014-10-22

CSF-wildboar.eu Release 2.1.0 online

2014-08-20

NEWSLETTER | development - new name - official records - new member

2014-08-15

New member state Austria!

Quick info

To do
Not confirmed CSF records detected (464)! Click here to view.

Terms of use
Legal Information
Links
Public Page
Support and Contact
(support@csf-wildboar.eu)

Tel.: +49 (0) 38351 / 7 - 1890
Mo.-Fr. 9-13

EU Reference Laboratories
CSF / ASF WILD BOAR SURVEILLANCE DATABASE

Public Page -> http://public.csf-wildboar.eu

EU Reference Laboratory
CLASSICAL SWINE FEVER IN WILD BOAR SURVEILLANCE DATABASE

CSF database - Information page Last update: 2011-05-24 12:08

Dear colleagues,

It is our pleasure to communicate important news on the 'CSF in wild boar surveillance database' of the European Union. In 2002, a working group on CSF in wild boar of the Directorate General Health and Consumer Protection (**DG SANCO**) of the European Commission (**EC**) initiated the establishment of a common database on the epidemiology of classical swine fever (CSF) in wild boar based on **Council Directive 2001/89/EC** , which involved the following countries Belgium, France, Germany, Luxembourg and the Netherlands.

It is the goal to extend the database to all EU member states and neighbouring countries with emphasis on countries dealing with CSF in wild boar populations. We are glad to inform you that the database is open to all member states of the European Union.

This website will provide general information on the description of the database and structure of the data upload file. Furthermore, the application form already distributed to the CVO's can be downloaded (see under related links or **click here**). Until the start of the database we will provide further information regarding the CSF in wild boar surveillance database.

The IT developer team would like to thank you for your cooperation and contributions. We are confident that the database will increase the transparency regarding the CSF situation in wild boar in the EU and hope that it may contribute to improve the control of the disease.

Please don't hesitate to contact us, via the email contact address (**support@csf-wildboar.eu**), if you have any questions or comments.

Thanks in advance for your cooperation!

Best regards,
The CSF-DB development team

Related documents and links:

Common information

- Terms of use for the "Classical swine fever on wild boar surveillance database" (PDF)
- Covering letter for application form (PDF)
- Application form ***NEW Version*** (DOC)
- EU CSF-DB presentation on SCoFCAH meeting 2010-05-04 (PDF)
- EU CSF-DB presentation (updated version) on an EC meeting in Brussels 2010-12-13 (PDF)

EU Reference Laboratories
CSF / ASF WILD BOAR SURVEILLANCE DATABASE

Database Structure (1)

- Central CSF database
  - 1 record for each wild boar shot or found dead
  - Division into 3 parts
    - Unique identification of wild boar, municipality, age and date of shooting/finding
    - laboratory results (virology, serology)
    - official judgement

      (confirmation by competent authority)

CSF&ASF wild boar surveillance database

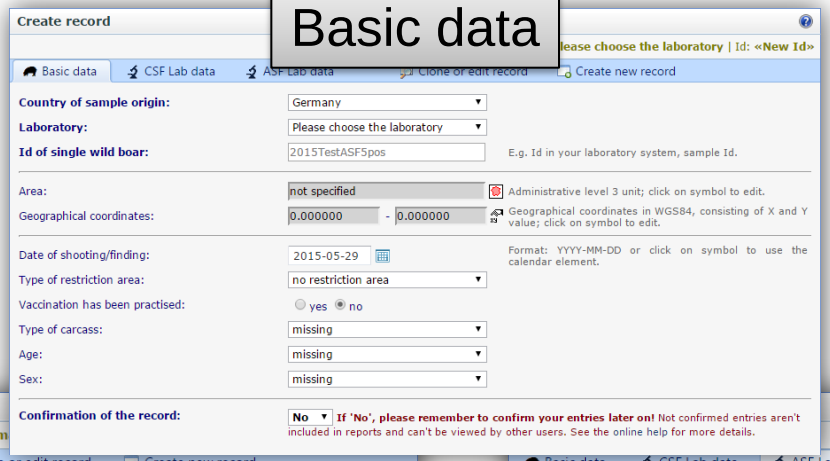
Database field description for CSF and ASF data

Field name	**Data type**	**Size**	**Description**	**Values** (bold=default)
CountryCode	Character	2	Country of sample origin	see code list (ALPHA2) on the website
LabCode	Character	3	Unique identification of the laboratory	see code list on the website
ID	Character	20	Unique identification of the single wild boar (e.g. 2002/000372355)	
AreaCode	Character	8	Level 3 key (usually municipality level)	see link to the admin. units on the website
RestrictionCode	Integer	1	Type of restriction area	**0 = no restriction area** 1 = infected area 2 = surveillance area
HDate	Date	10	Date of shooting/finding of each wild boar	Format: **YYYY-MM-DD** or YYYY.MM.DD or DD.MM.YYYY or DD-MM-YYYY
CarcassCode	Integer	1	Type of carcass	**0 = missing** 1 = shot dead 2 = found dead 3 = shot sick 4 = road traffic accident
AgeCode	Integer	1	Age class	**0 = missing** 1 = 0-1 year 2 = 1-2 years 3 = > 2 years

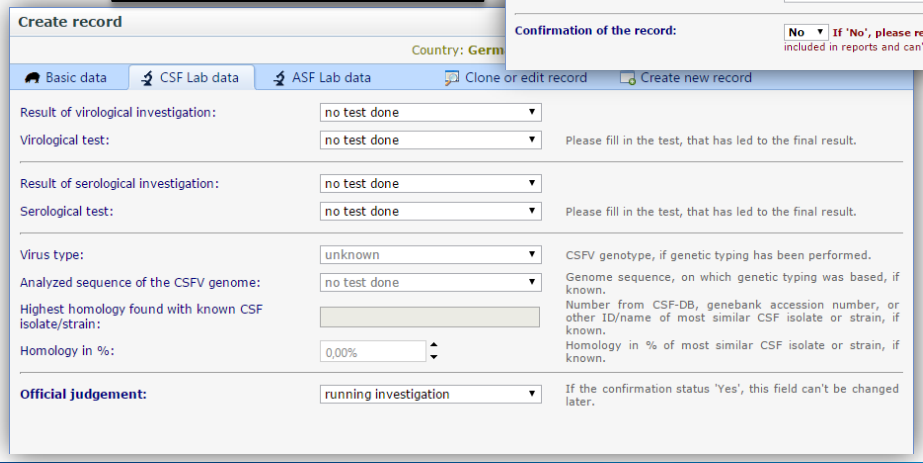
Data Acquisition

(CSF / ASF surveillance data – Web form)

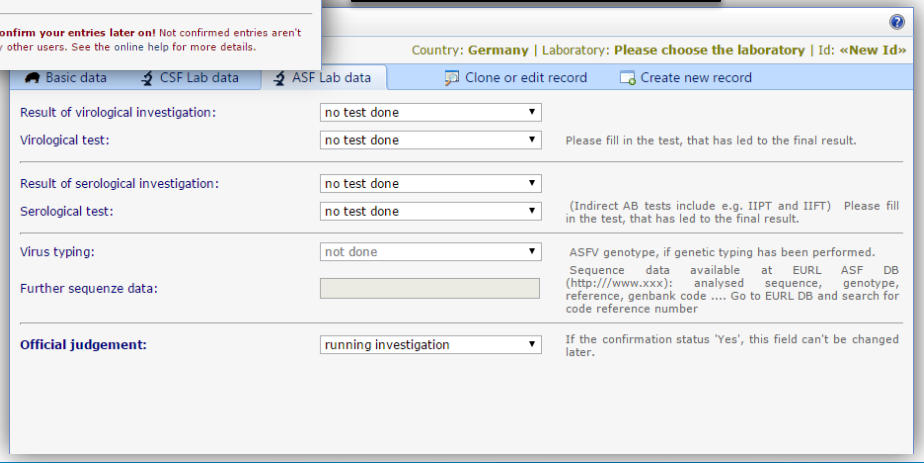
Basic data



CSF Lab data



ASF Lab data



CSF&ASF wild boar surveillance database

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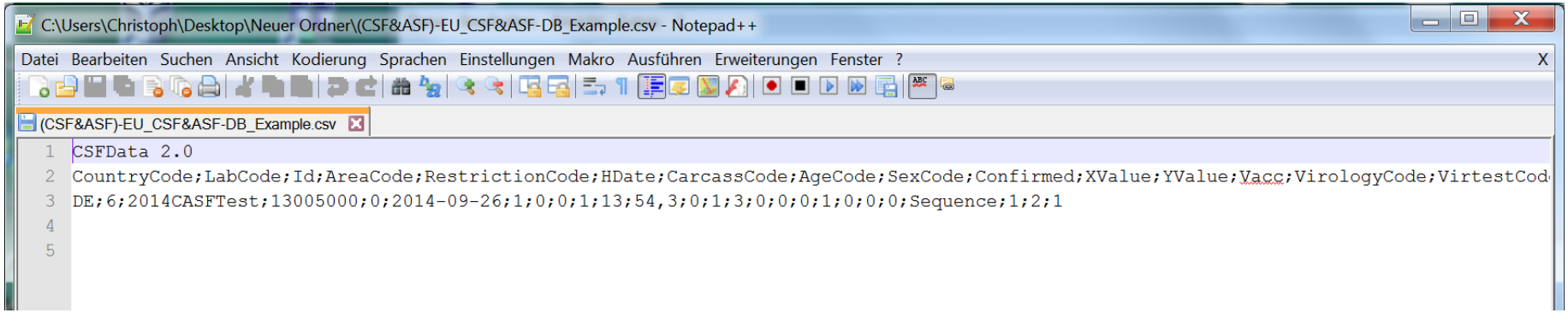
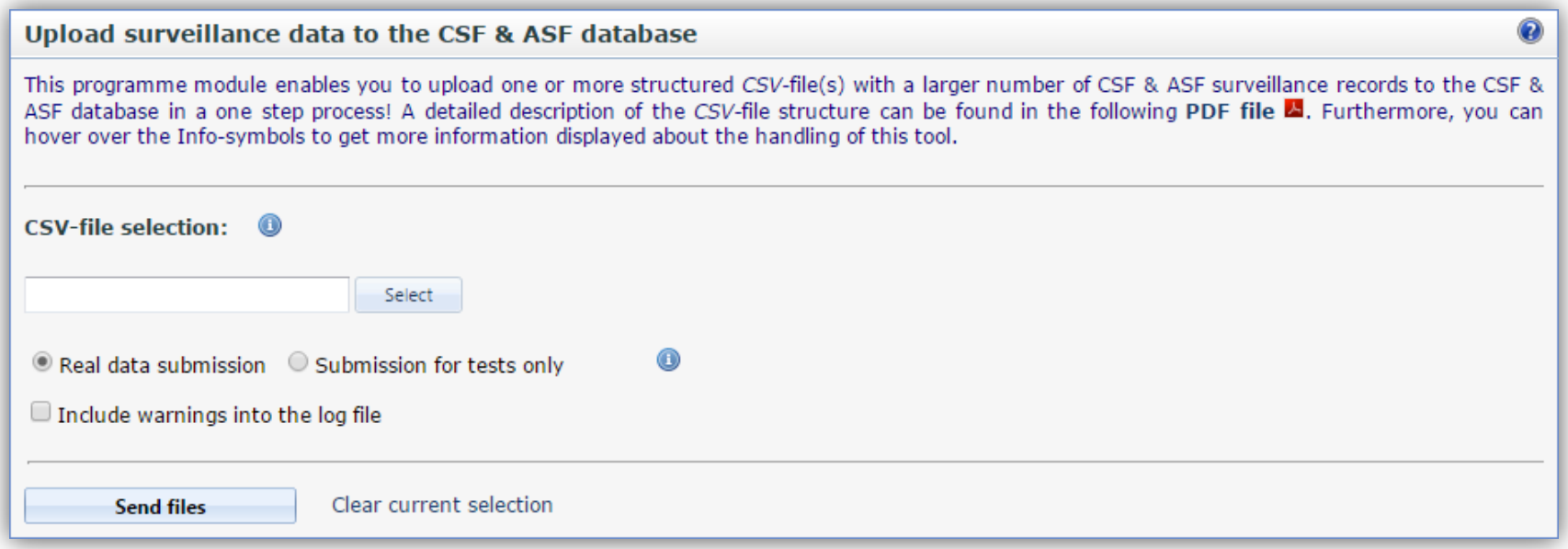
RestrictionCode	Integer	1	Type of restriction area	**0 = no restriction area** 1 = infected area



Data Acquisition

(CSF / ASF surveillance data – Upload*)



* Structured text file (*.csv) exported from laboratory databases, MS Access or Excel

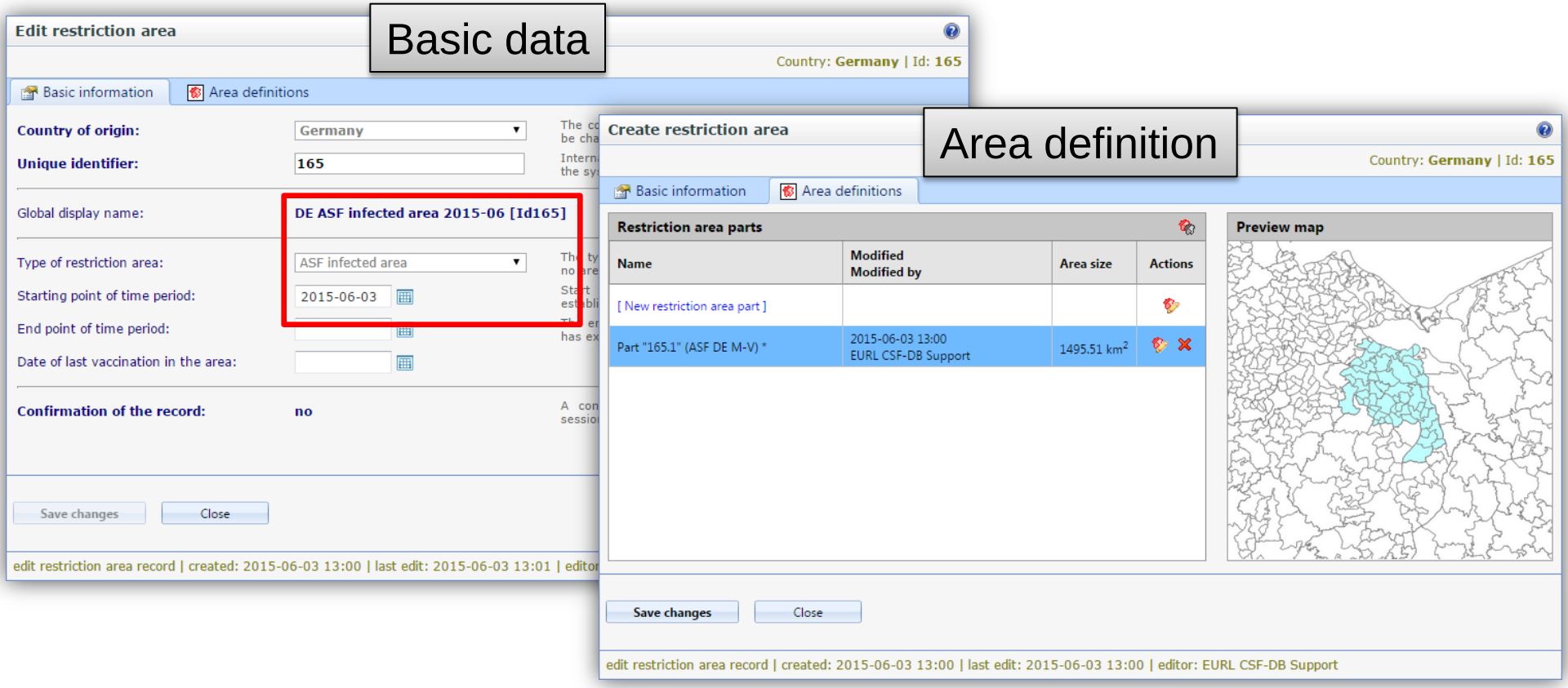
Database Structure (2)

- Central region database
  - 1 record for each region and each period
  - Division into 3 parts
    - CSF infected region, surveillance zone or vaccination area
    - identification of region and period for which data are valid
    - geographical data (selection on the basis of municipalities)

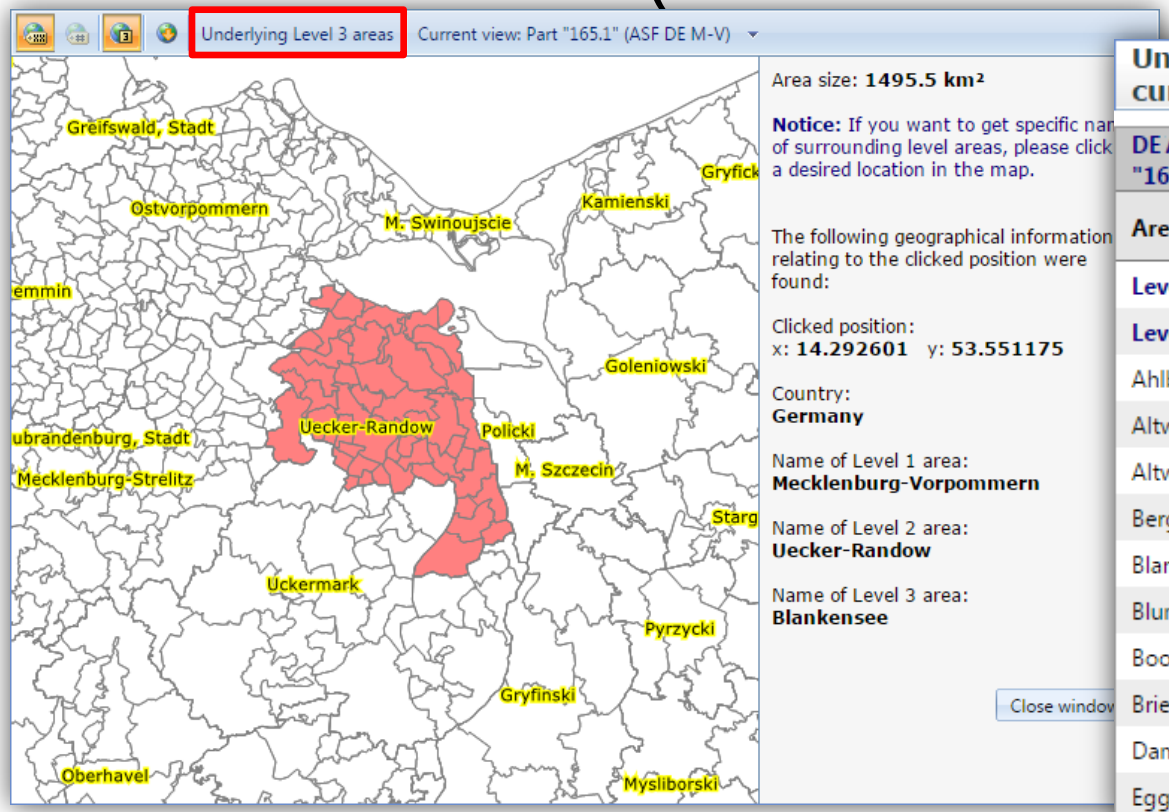
Data Acquisition
(Restriction areas)

Basic data

Area definition



Data Acquisition
(Restriction areas)



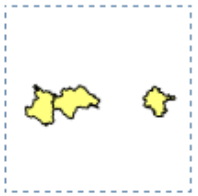
Underlying Level 3 areas for the currently selected restriction area — Close

DE ASF infected area 2015-06 [Id165] / Part "165.1" (ASF DE M-V)

Area name	CSF-DB area code
Level 1: Mecklenburg-Vorpommern	
Level 2: Uecker-Randow	
Ahlbeck	13062001
Altwarp	13062002
Altwigshagen	13062003
Bergholz	13062005
Blankensee	13062007
Blumenhagen	13062008
Boock	13062009
Brietzig	13062010
Damerow	13062011
Eggesin	13062012

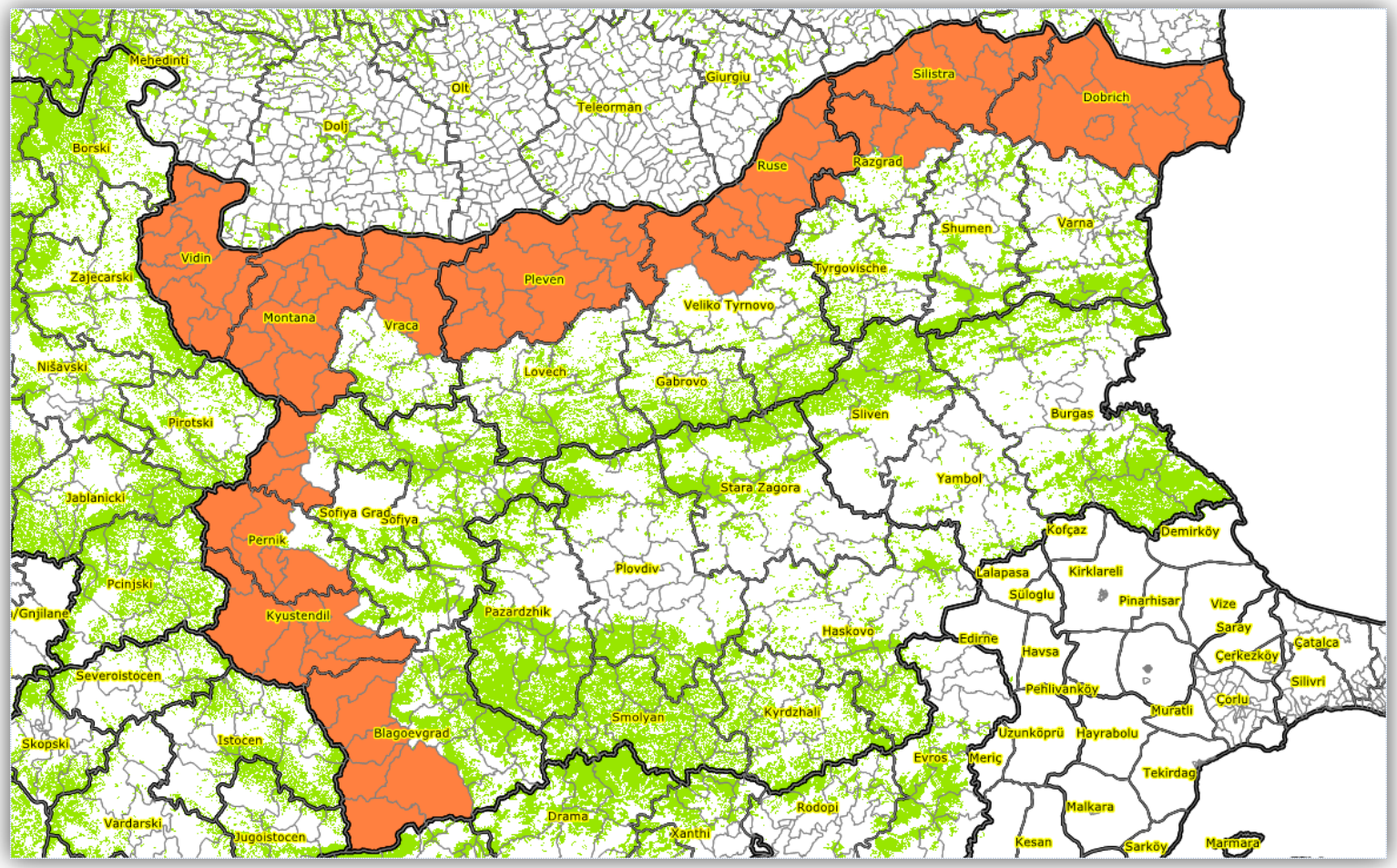
Current Restriction Areas

Restriction areas record viewer

#	Country Display name	Type of area Starting point of time period End point of time period	Date of vaccination Area size	Map preview
1	**Croatia** **HR Surveillance area 2013-08 [Id164]**	Surveillance area 2013-08-21 no	no 10543.8 km^2	
2	**Germany** **DE Surveillance area 2012-06 [Id163]**	Surveillance area 2012-06-18 no	no 5982.5 km^2	
3	**France** **FR Surveillance area 2011-11 [Id161]**	Surveillance area 2011-11-15 no	no 4320.8 km^2	

K < 1 > >| | Page 1 of 1, Record 1 - 7 of 7

Custom areas in Bulgaria: Intensive monitoring area



Query Data / Reports

- All users have access to the reports and maps
- Only confirmed data records are retrievable

- CSF/ASF data analysis
  - Record Viewer
  - Standardized Reports
  - Time Series Diagrams
  - List of available restriction areas
- Map-Explorer

Record viewer

Record viewer for CSF / ASF surveillance data — **Preset: Current settings**

Data selection and options | Current record list | Printer-friendly view (new window will open)

This function enables you to view all **confirmed** examination results of the individual animals currently stored in the CSF database. Please choose the selection criteria and then click on the '**Create list**' button (on top or on bottom) to generate the respective overview table. However, to provide an adequate overview and to ensure an acc… the selection criteria you can search CSF records by entering a known ID or parts of the ID to get all corresponding re…

Select CSF / ASF Type

Search mode: ASF data ▾ (•) Use selection criteria ( ) Use ID search

Time period from: 2015-05-06 to: 2015-06-03 or select date range: Last 28 days ▾ Create list

Spatial filter: Geographical extent defined by administrative units: [» **1 units(s) selected**. Click here to modify.]

Germany [DE]

Spatial evaluation with restriction and/or custom areas: [» **1 area(s) selected**. Click here to modify.]

DE ASF infected area 2015-06 [Id165] (ASF DE M-V)

Please be patient! Because of the spatial filter it could take longer to finish the processing!

Record Viewer

Record viewer for CSF surveillance data — Reset selection parameters to defaults

Data selection and options | Current record list | Printer-friendly view (new window will open)

CSF database record viewer

#	Country Laboratory ID	Area name Restriction area Vaccination	Date Carcass Age class	Sex Virology Serology	Result	Details
1	Germany Krefeld 2011wm1596su	Siegburg CSF infected area yes	2011-03-31 road traffic accident 0 - 1 year	missing negative negative	negative	
2	Germany Krefeld 2011wm1597su	Siegburg CSF infected area yes	2011-03-31 road traffic accident > 2 years	female negative negative	negative	
3	Germany Krefeld 2011/wm1588gl	Rösrath CSF infected area yes	2011-03-31 shot dead 0 - 1 year	female negative positive	negative	
4	Germany Arnsberg 2011/1878SI	Neunkirchen CSF infected area yes	2011-03-31 shot dead 0 - 1 year	male negative positive	negative	
5	Germany Arnsberg 2011/1877SI	Wilnsdorf CSF infected area yes	2011-03-30 shot dead 0 - 1 year	male negative positive	negative	
6	Germany Arnsberg 2011/1868/MK	Nachrodt-Wiblingwerde Surveillance area no	2011-03-30 shot dead 1 - 2 years	male negative negative	negative	

K < 1 2 3 4 5 6 7 8 9 10 ... > >| | Page 1 of 106, Record 1 - 50 of 5286

Query data – Data Analysis

Create reports based on CSF surveillance data — Reset selection parameters to defaults

Data selection and options | Data output | Printer-friendly view (new window will open)

Report type: Standardized reports

Current confidence level: 95 % (max. 50% - 99%) Recalculate

Virology and serology overview

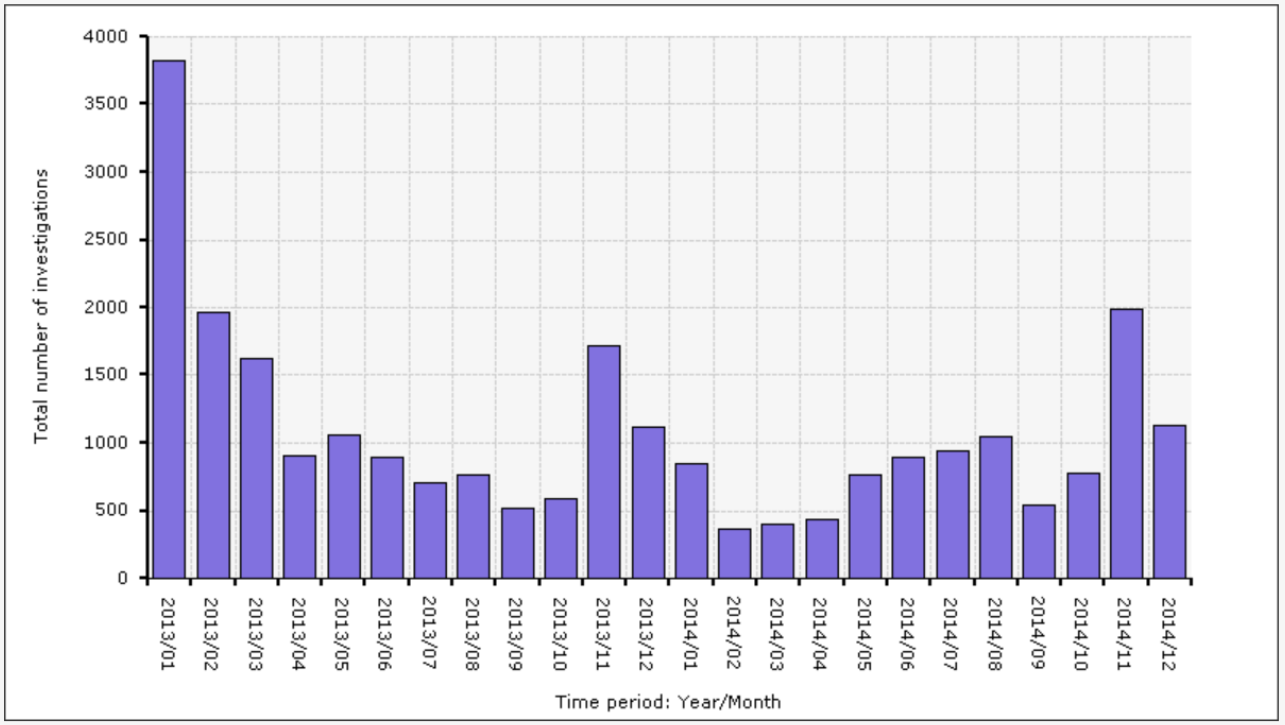
Field description	Negative	Positive	P [%]	P_L [%]	P_U [%]
Offical judgement	5286	0	0	0	0.09245
Virology	4656	1	0.02147	0.00034	0.12194
Age class: missing	258	0	0	0	1.87230
Age class: 0 - 1 year	2929	0	0	0	0.16676
Age class: 1 - 2 years	1108	1	0.09017	0.00142	0.51120
Age class: > 2 years	361	0	0	0	1.34273
No restriction area	2077	0	0	0	0.23506
CSF infected area	1362	0	0	0	0.35817
Surveillance area	1217	1	0.08210	0.00130	0.46555
Vaccination practised	1559	0	0	0	0.31300
Vaccination not practised	3097	1	0.03228	0.00051	0.18326
Serology	4310	845	16.39185	15.39058	17.43134
Age class: missing	393	21	5.07246	3.16463	7.65174

Query data – Data Analysis

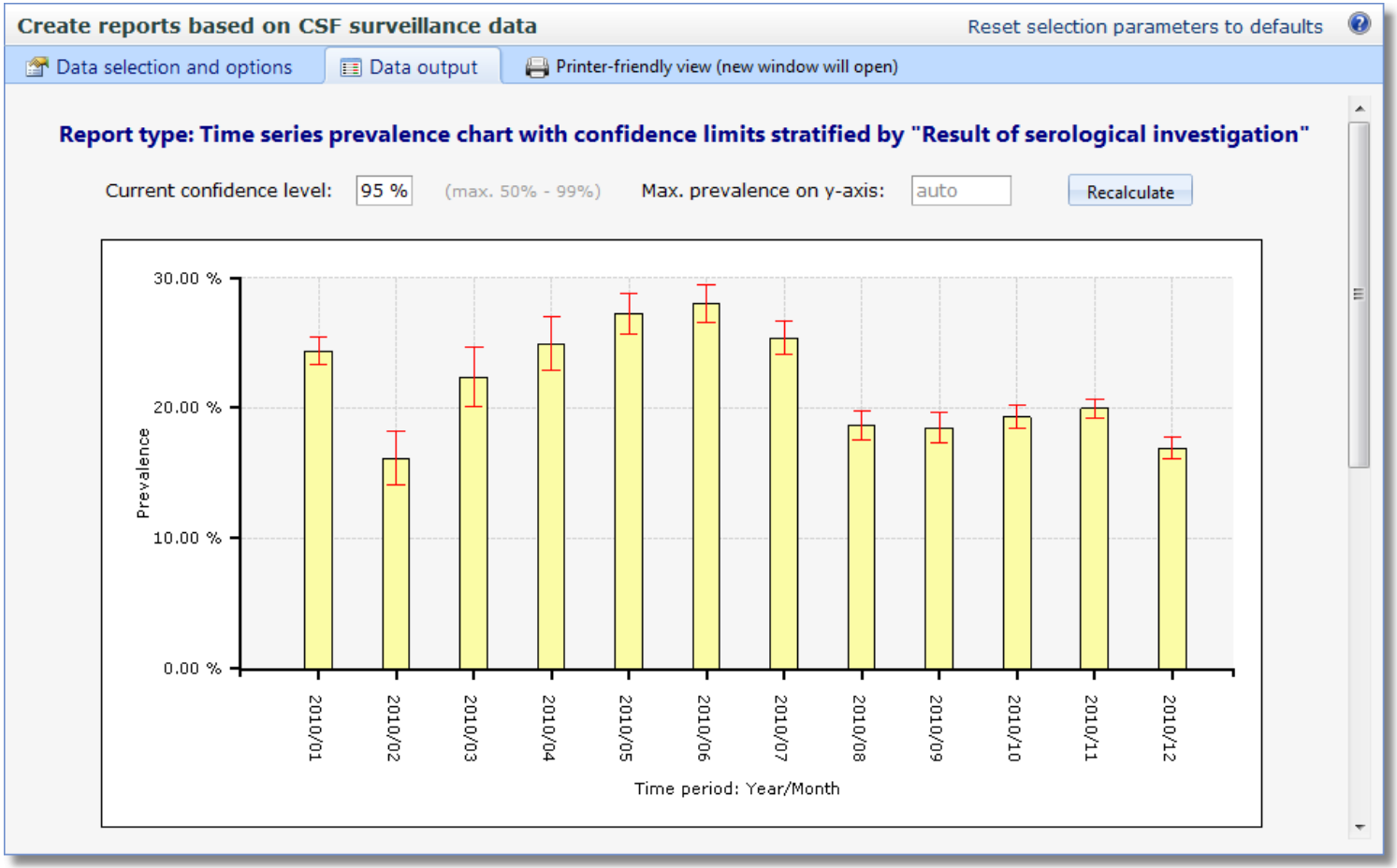
Create reports based on CSF surveillance data — **Preset: Current settings**

Data selection and options | Data output | Printer-friendly view (new window will open)

Report type: Time series chart (totals)



Query data – Data Analysis



Automated Alert System

Automated Alert System (AAS) - Rule manager

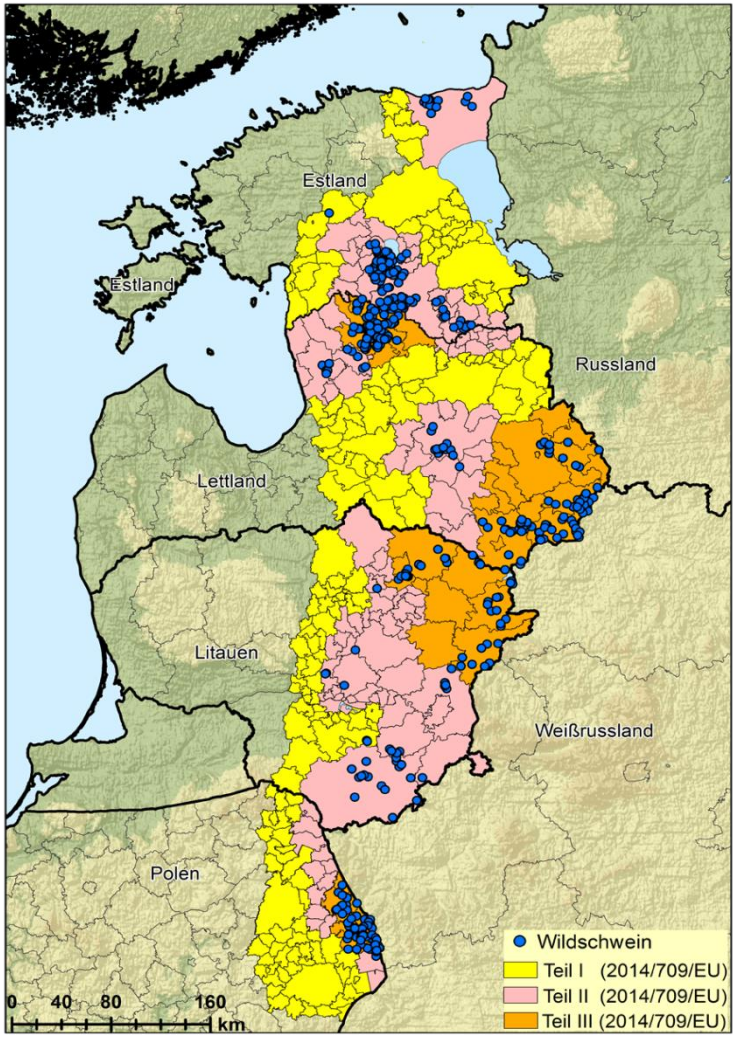
The Automated Alert System (AAS) tool allows the user to compose rules based on several data-set parameters. A notification e-mail will be sent to the creator and all selected recipients, if the rule is evaluated as true.

Note: All activated rules are processed once per day (~ midnight), based on the current data stored in the CSF database. The section below shows an overview of all created rules. Checking the box to the left of each rule activates the rule for (nightly) evaluation.

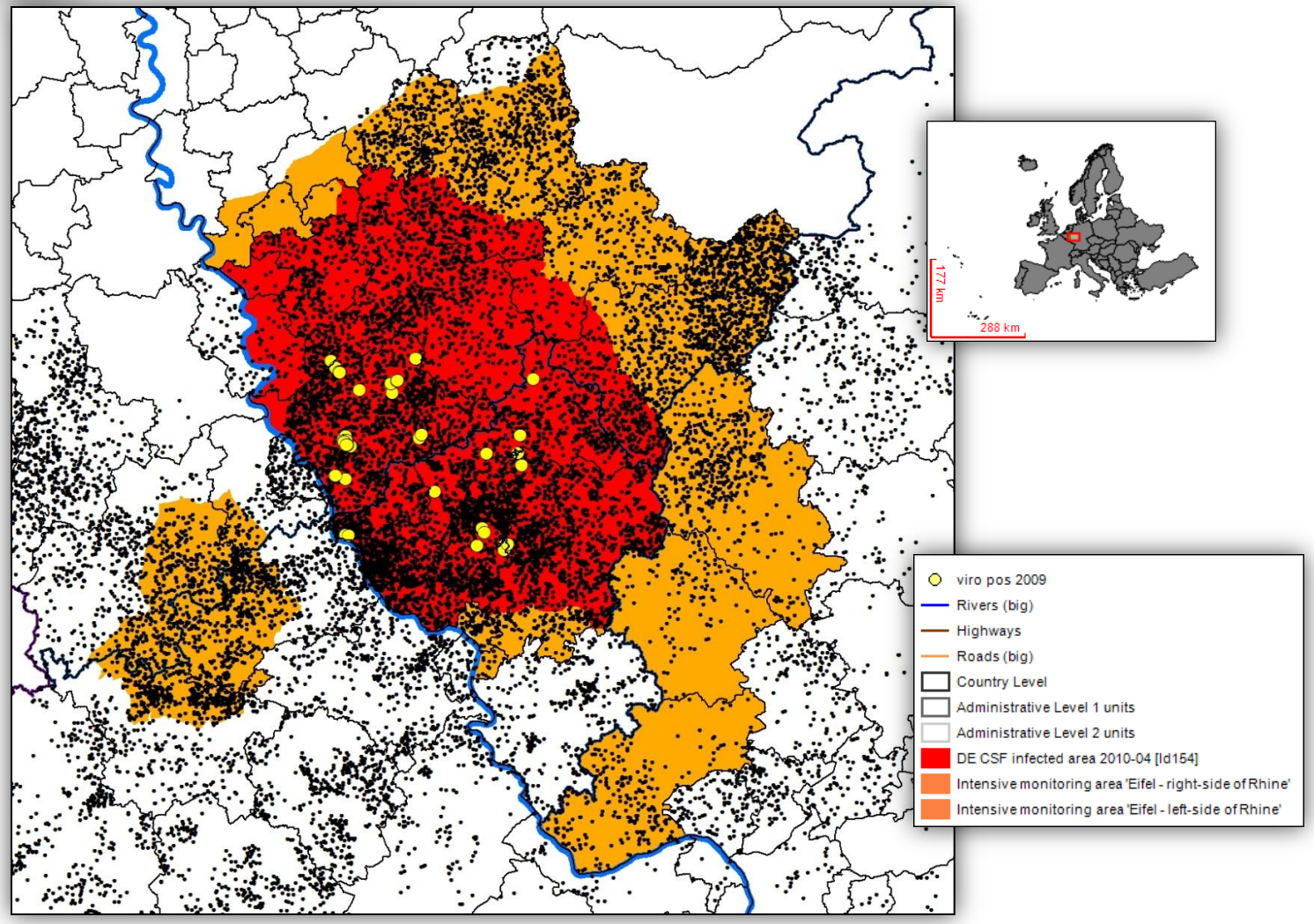
List sorting: Last run | Descending | Create new rule

Active	Rule name	Map	Last evaluation Last triggered	Creation date Last modified	Actions
☑	viro pos		2011-09-29 01:12 2011-08-05 01:15	2011-05-24 14:45 2011-05-26 10:21	
☑	offi pos	-	2011-09-29 01:12 not available	2011-05-26 10:20 2011-05-26 10:21	

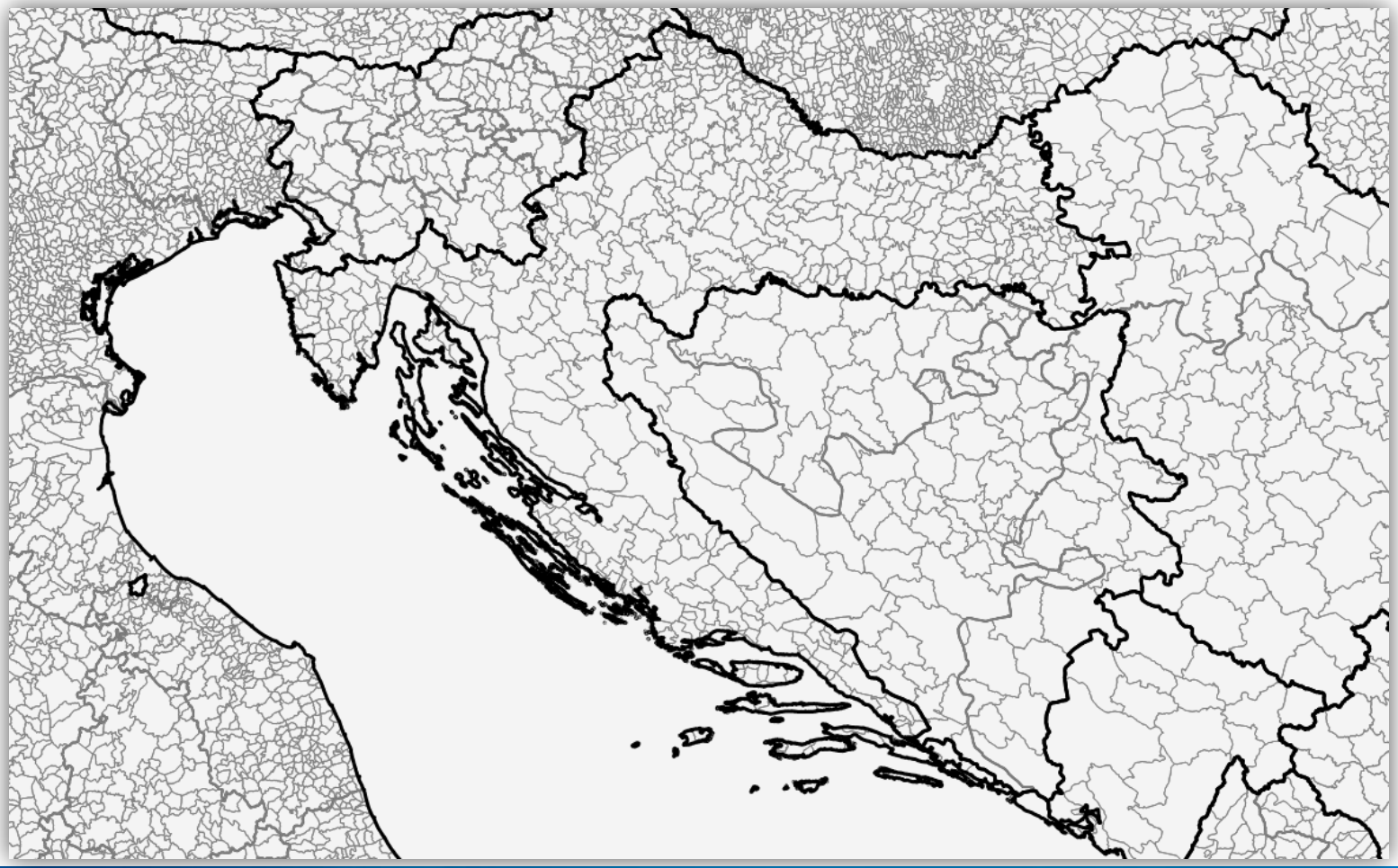
Maps
- Motivation -

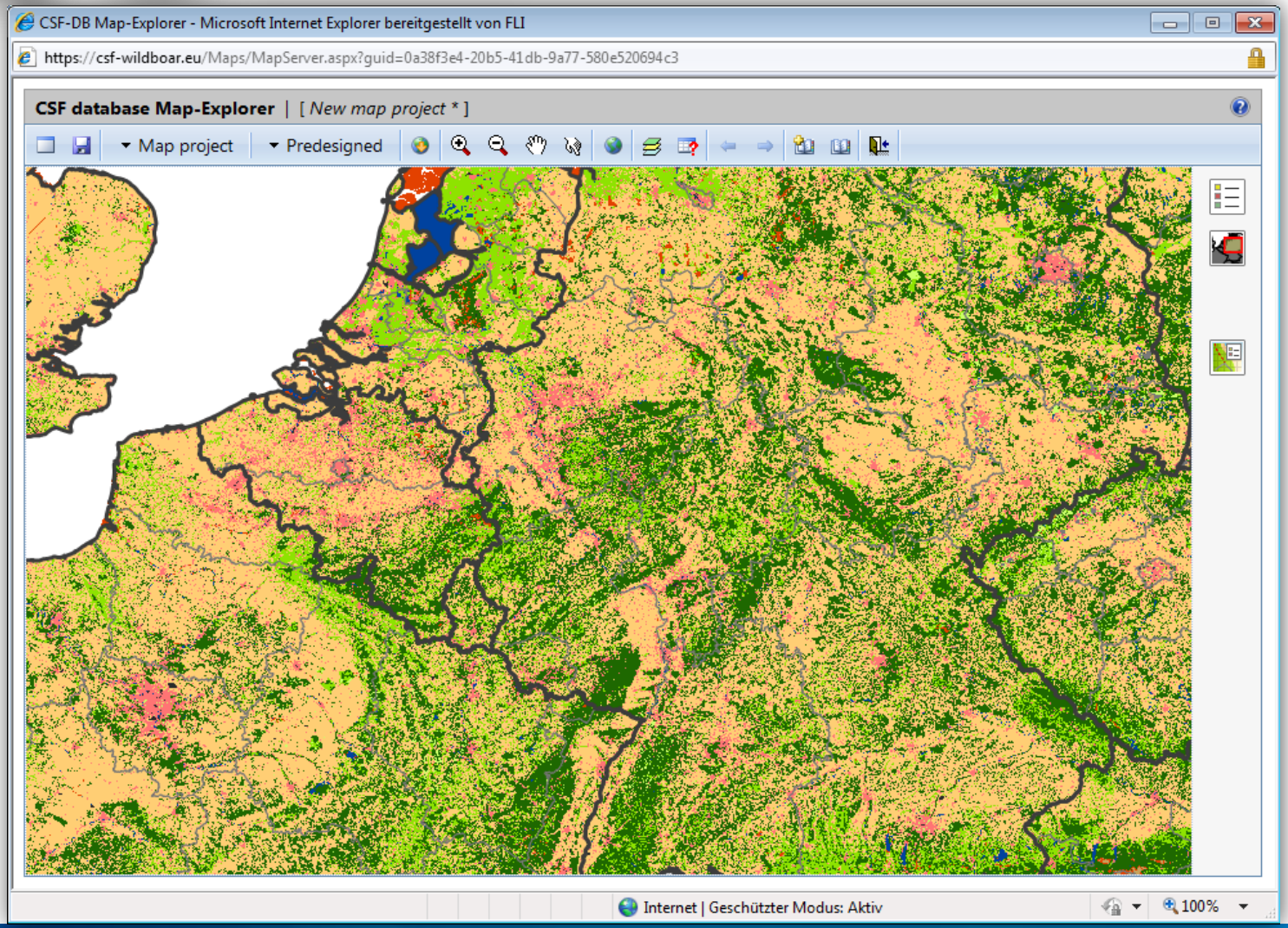


Source: ADNS data (04.06.2015)

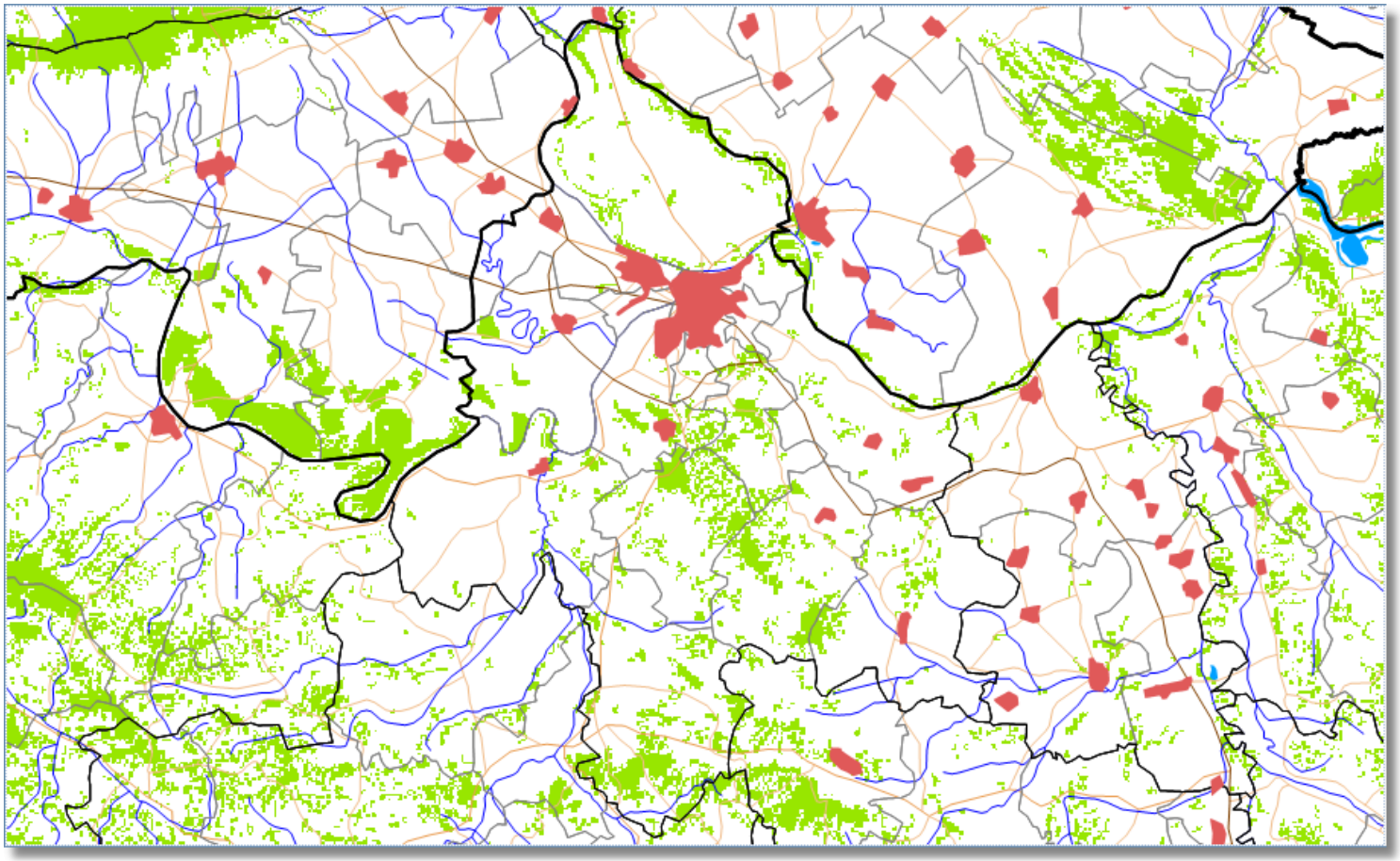

177 km
288 km
viro pos 2009
Rivers (big)
Highways
Roads (big)
Country Level
Administrative Level 1 units
Administrative Level 2 units
DE CSF infected area 2010-04 [Id154]
Intensive monitoring area 'Eifel - right-side of Rhine'
Intensive monitoring area 'Eifel - left-side of Rhine'

Admin Level 0-3

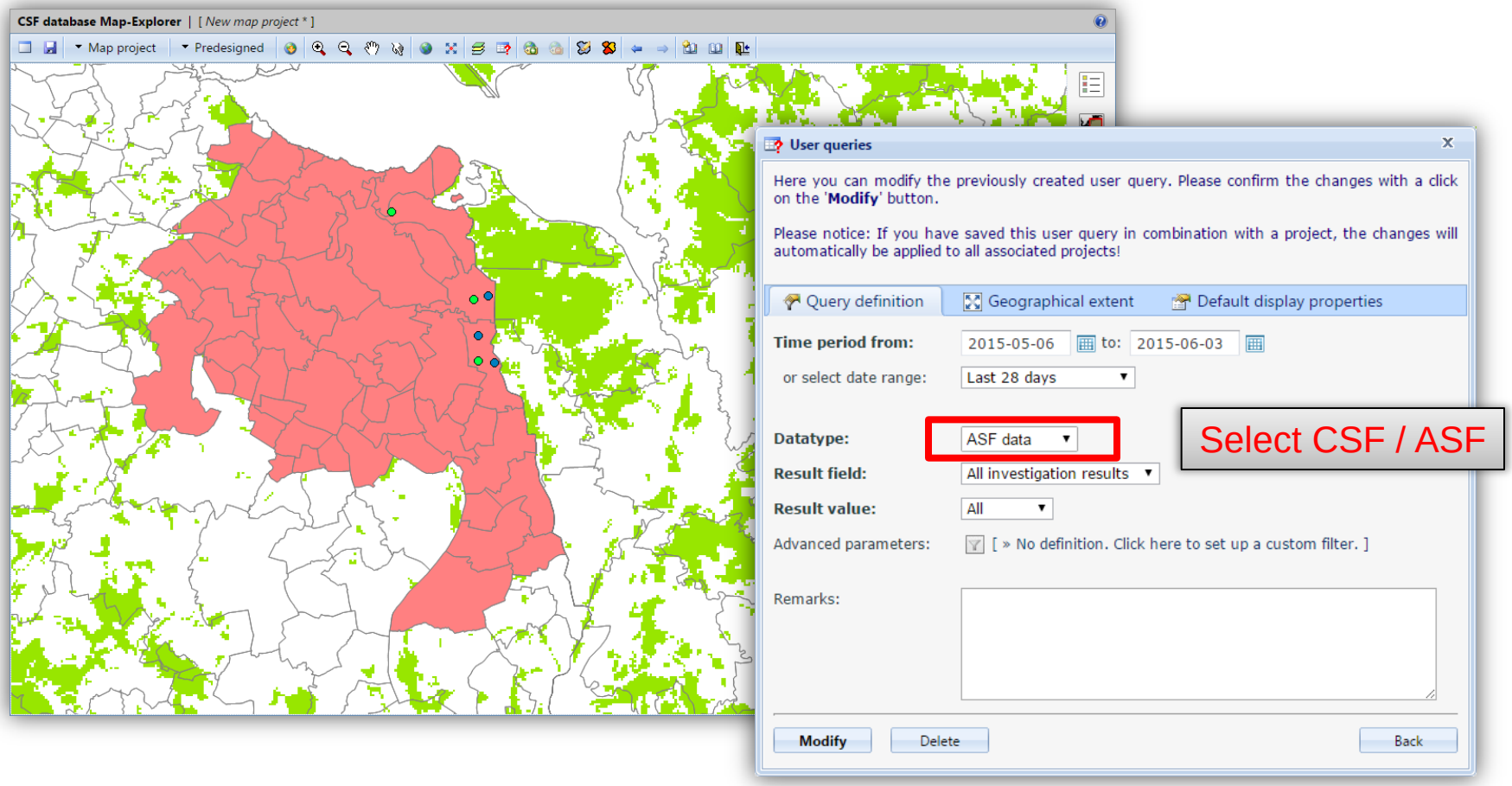



CSF-DB Map-Explorer - Microsoft Internet Explorer bereitgestellt von FLI
https://csf-wildboar.eu/Maps/MapServer.aspx?guid=0a38f3e4-20b5-41db-9a77-580e520694c3
CSF database Map-Explorer | [New map project *]
Map project
Predesigned
Internet | Geschützter Modus: Aktiv
100%

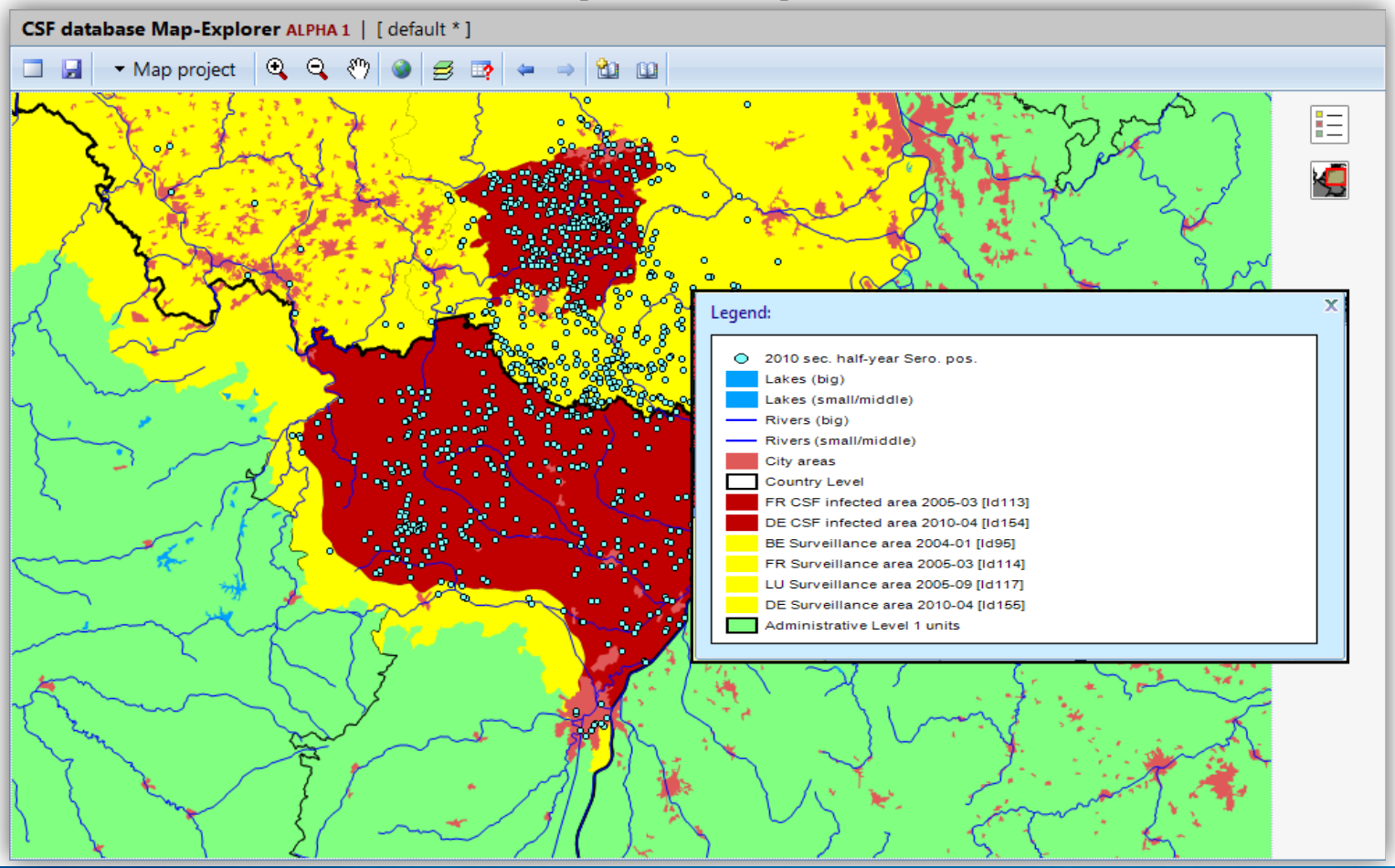
Serbia Settlements + Forest + Roads



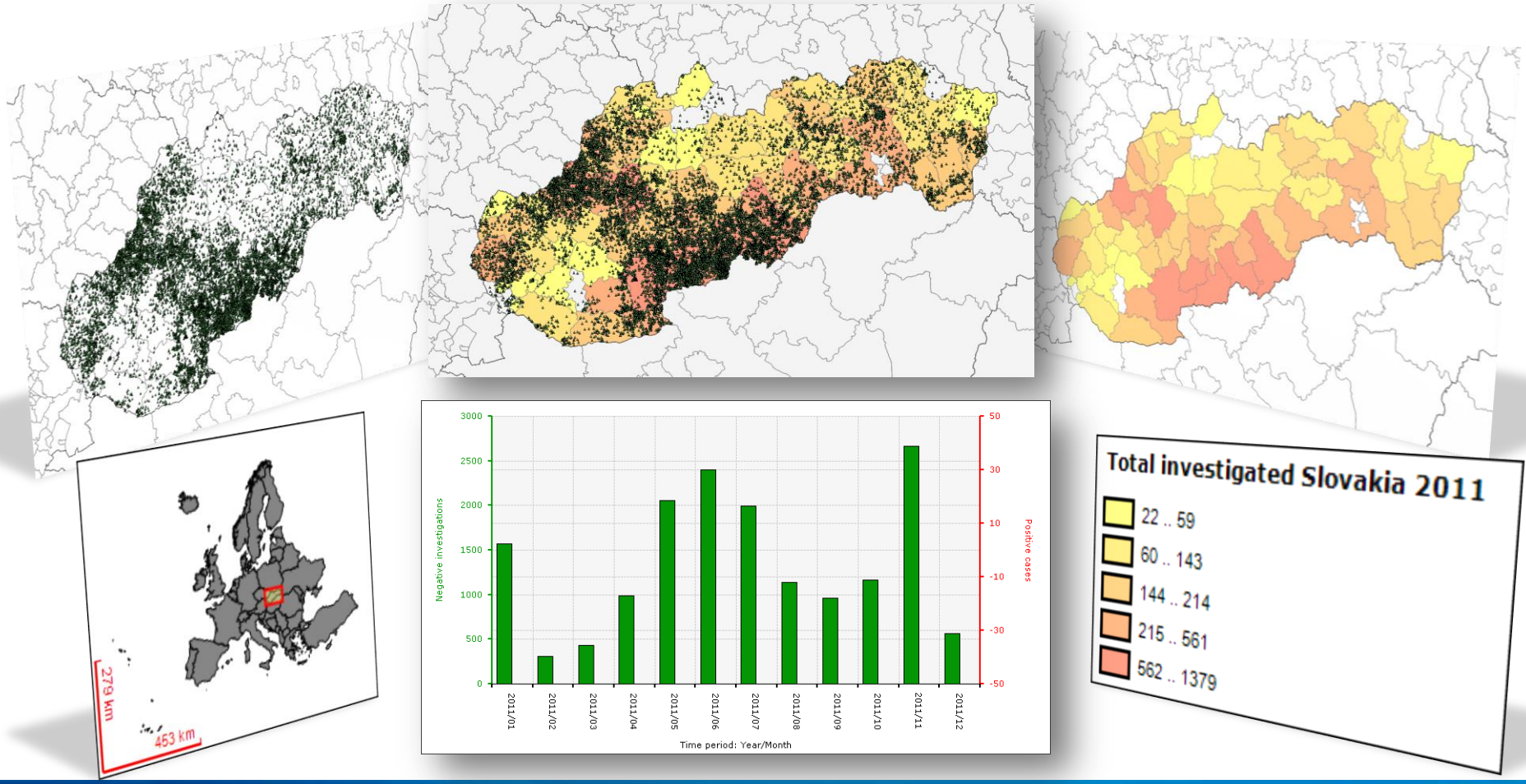
Map–Explorer



Map–Explorer



EURL CSF-DB example data of Slovakia in 2011



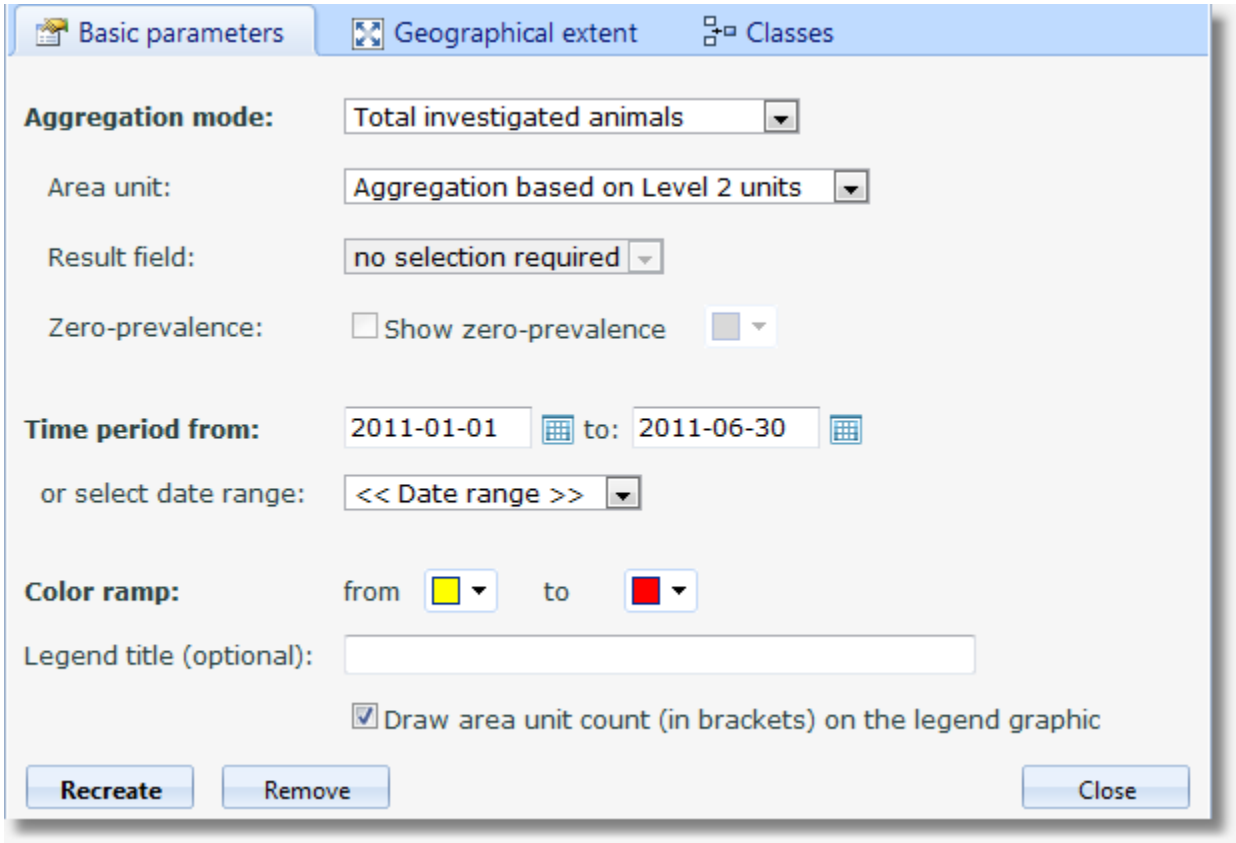
Distribution Maps (1)

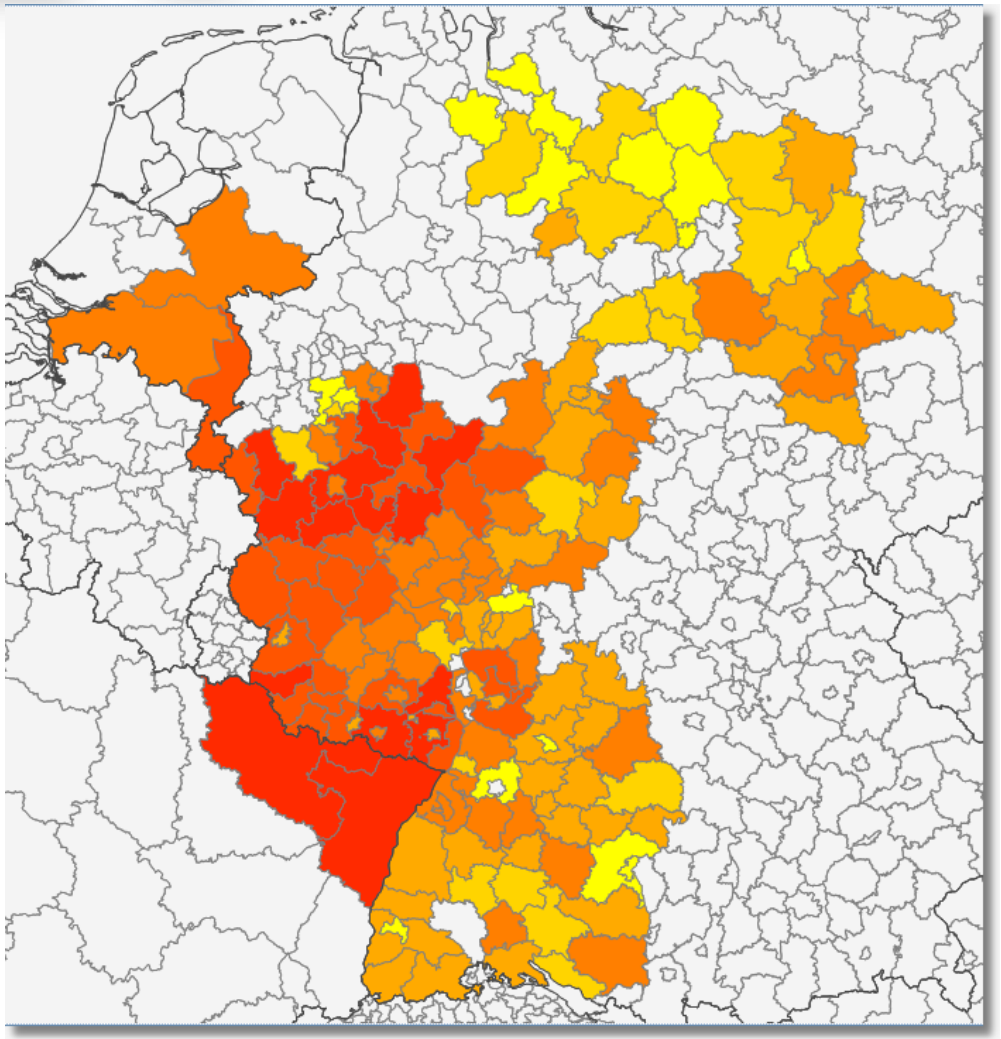
- Creation of simple distribution maps based on several selectable data set parameters
- Shows the investigation frequency or prevalence per selectable administrative level
- Automatic or customized class ranges represented with a color ramp in the map

Distribution Maps (2)

- Beta-binomial prevalence model taking unequal sample sizes per administrative unit into account implemented
  - leads to more stable prevalence estimates per spatial unit and a substantial reduction of the random variation

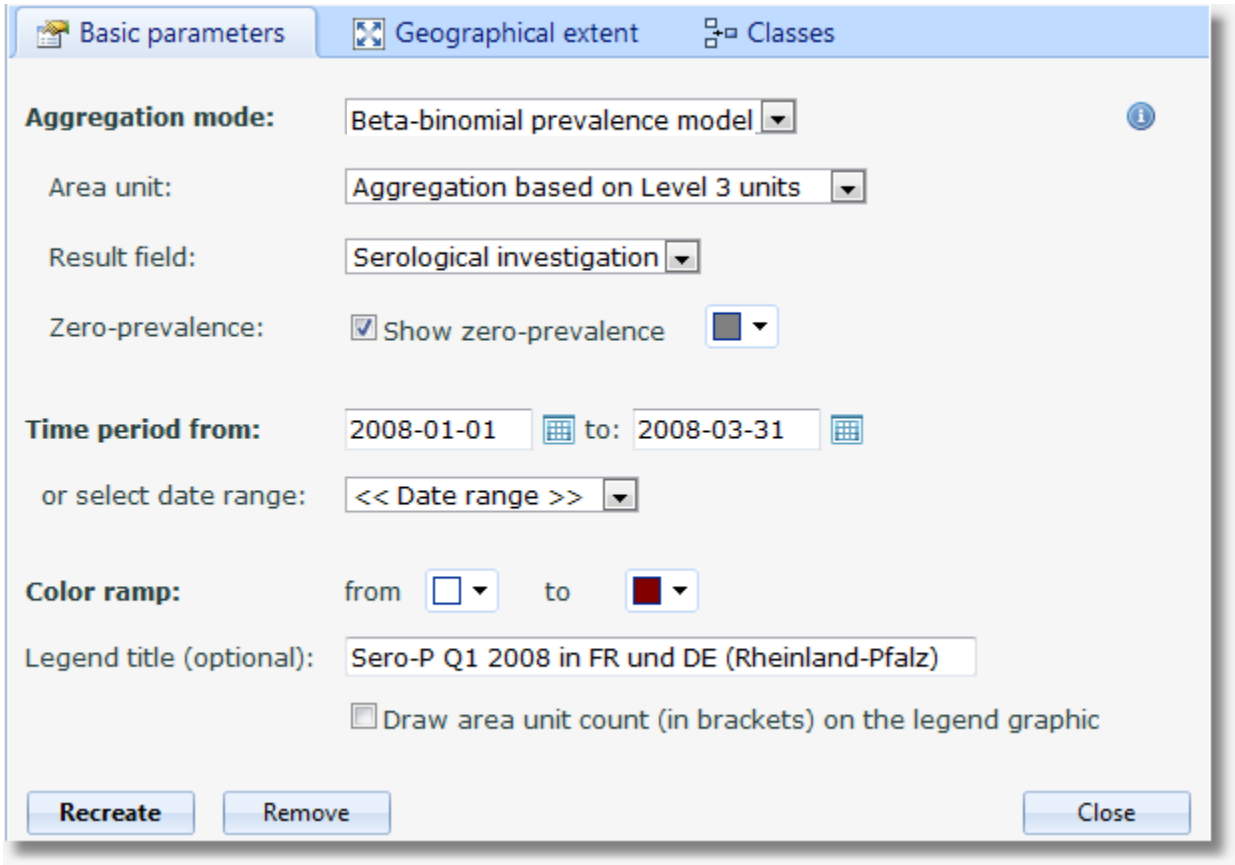
Distribution Maps (3)

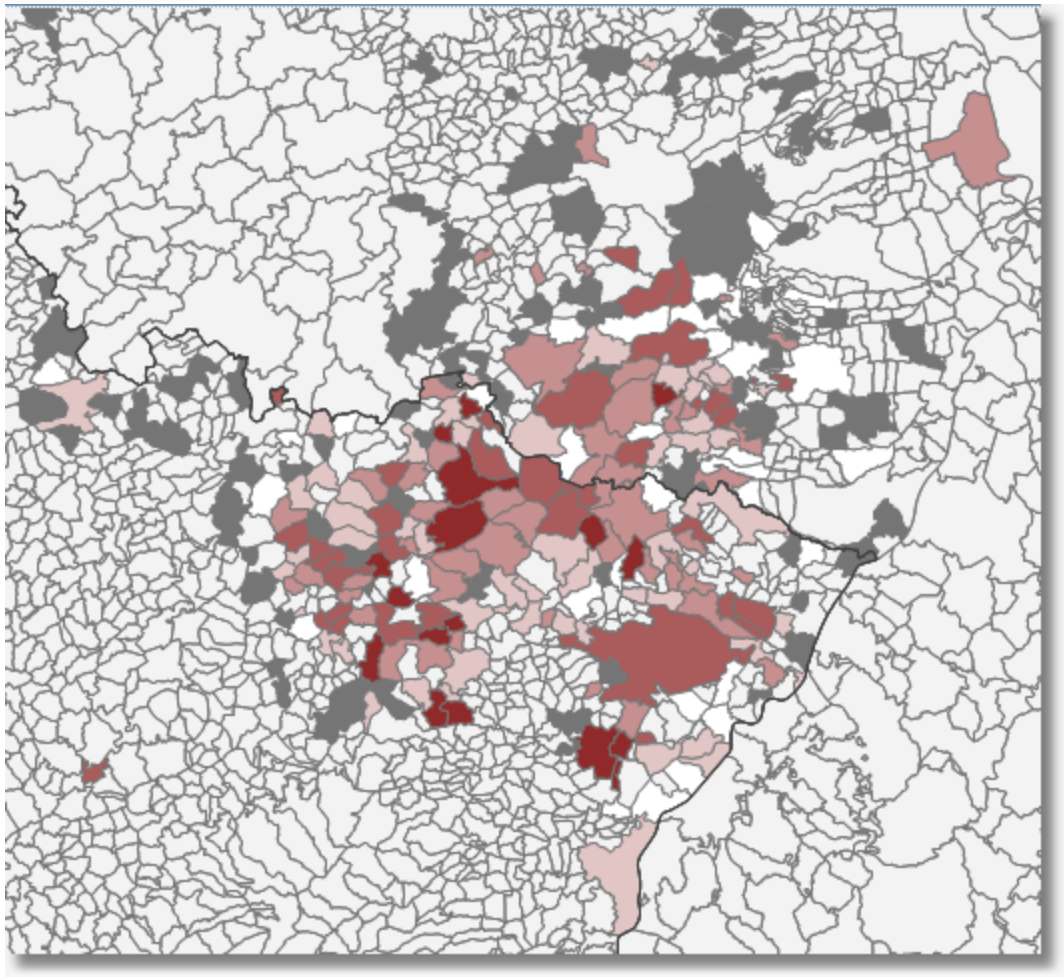




1 .. 3 (17)
4 .. 7 (23)
8 .. 24 (40)
25 .. 118 (40)
119 .. 375 (24)
376 .. 1841 (15)

Distribution Maps (4)





Sero-P Q1 2008 in FR und DE (Rheinland-Pfalz)

- 0 % prevalence - no positive results
- 25 % .. 37 %
- 38 % .. 51 %
- 52 % .. 58 %
- 59 % .. 64 %
- 65 % .. 83 %

Record viewer

Record viewer for CSF / ASF surveillance data — **Preset: Current settings**

Data selection and options | Current record list | Printer-friendly view (new window will open)

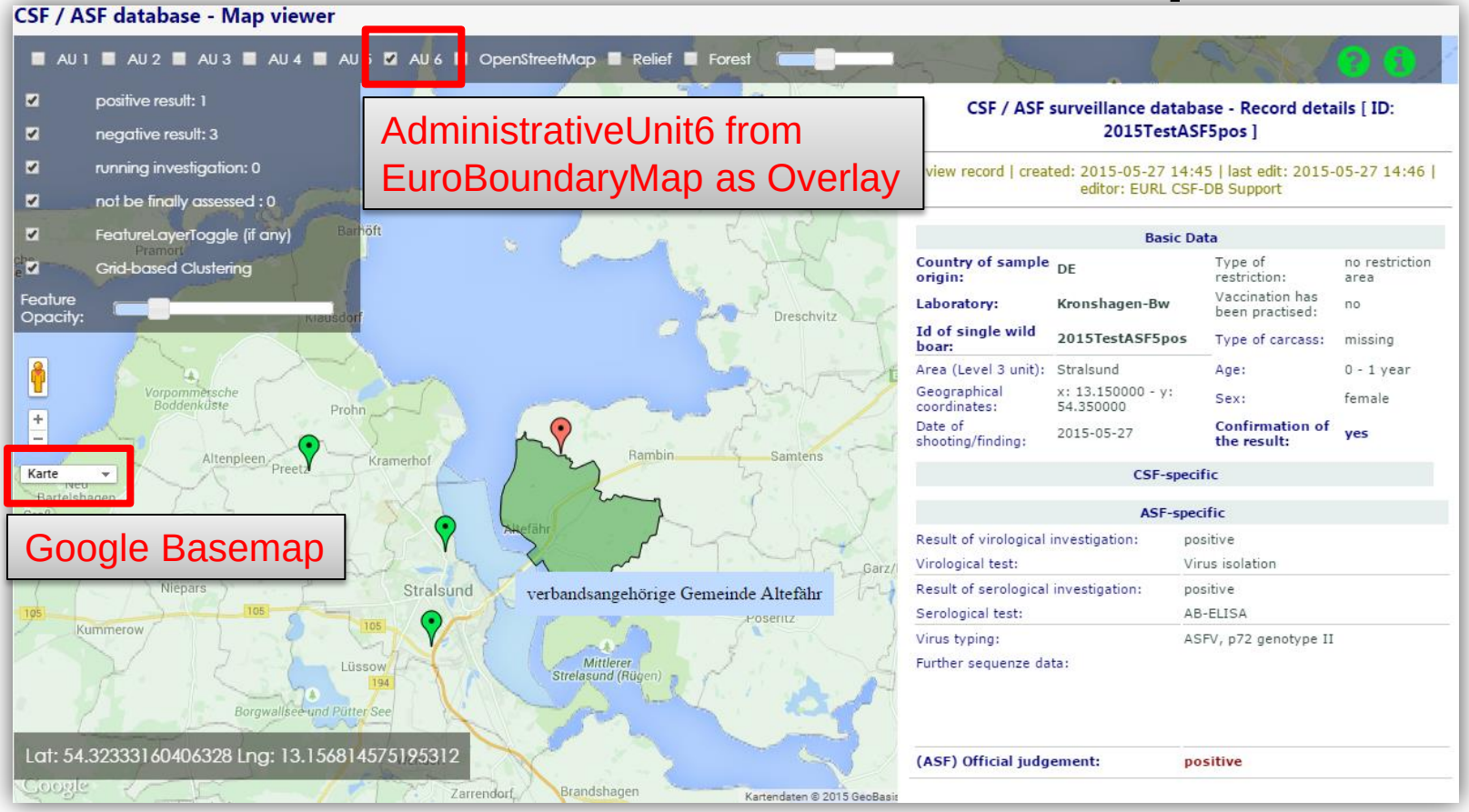
CSF / ASF database record viewer Quickmapviewer

#	Country Laboratory ID	Area name Restriction area Vaccination	Date Carcass Age class	Sex Virology Serology	Result	Details
1	Germany EURL for CSF 2015-ASF001	Blankensee ASF infected area no	2015-06-01 found dead > 2 years	female negative negative	negative	
2	Germany EURL for CSF 2015-ASF002	Blankensee ASF infected area no	2015-06-01 found dead 1 - 2 years	male positive positive	positive	
3	Germany EURL for CSF 2015-ASF003	Hintersee ASF infected area no	2015-06-02 road traffic accident > 2 years	female positive positive	positive	
4	Germany EURL for CSF 2015-ASF004	Hintersee ASF infected area no	2015-06-02 found dead 1 - 2 years	female inconclusive inconclusive	can not be finally assessed	
5	Germany EURL for CSF 2015-ASF005	Hintersee ASF infected area no	2015-06-02 shot sick 1 - 2 years	male negative no test done	negative	

K < 1 > >| | Page 1 of 1, Record 1 - 7 of 7

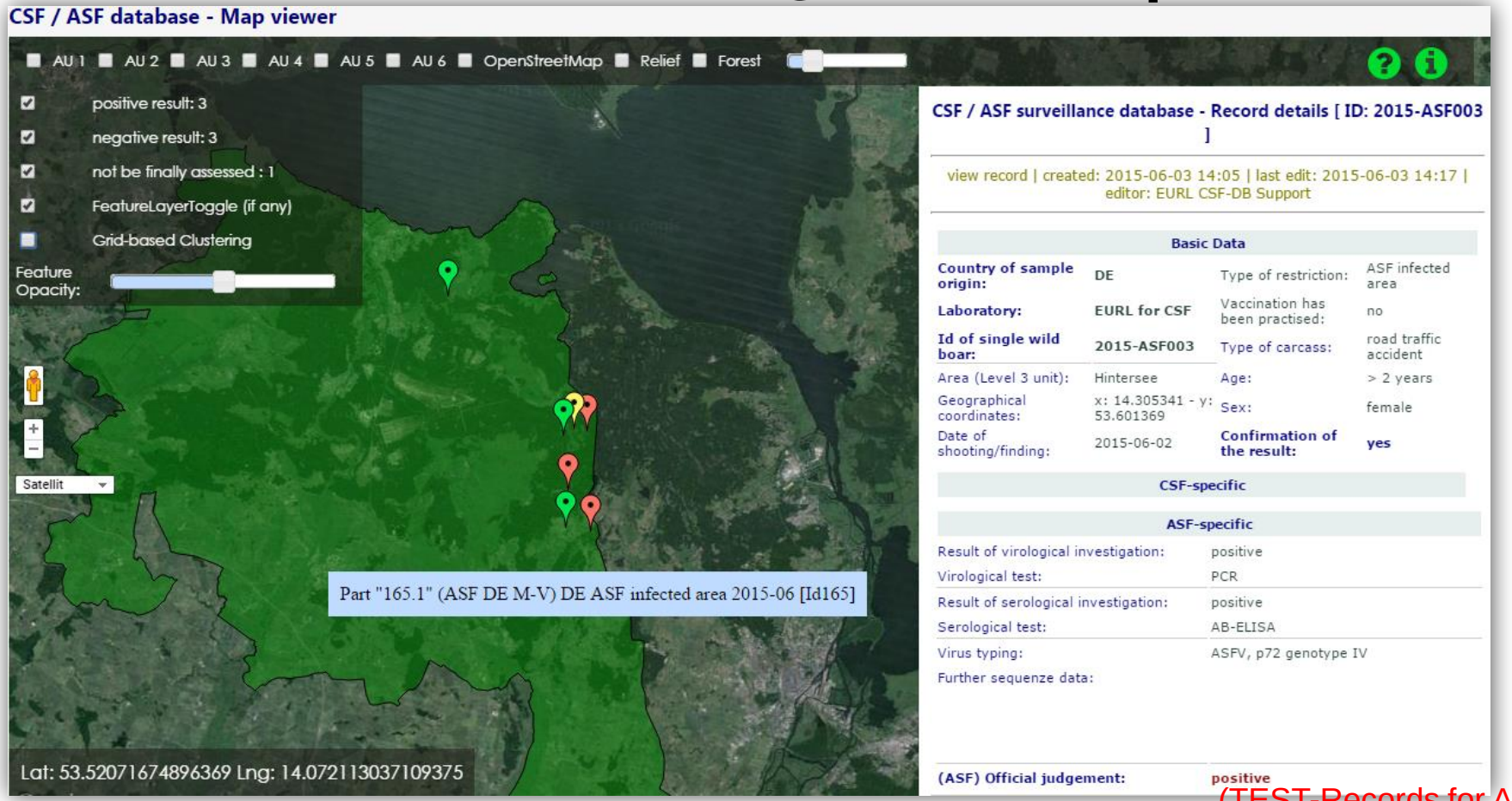
(TEST-Records for ASF!)

Record viewer – Quickmapviewer



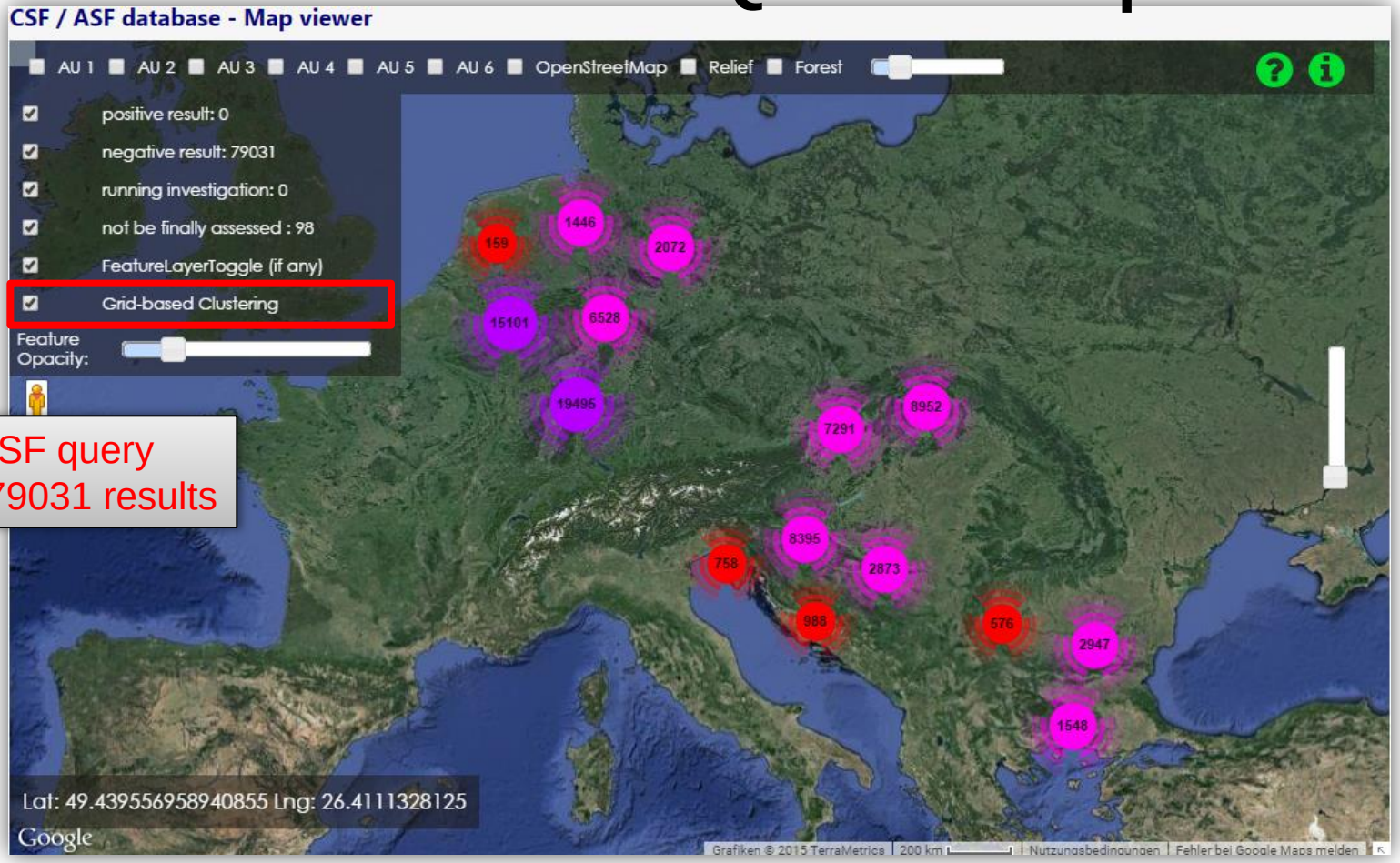
(TEST-Records for ASF!)

Record viewer - Quickmapviewer



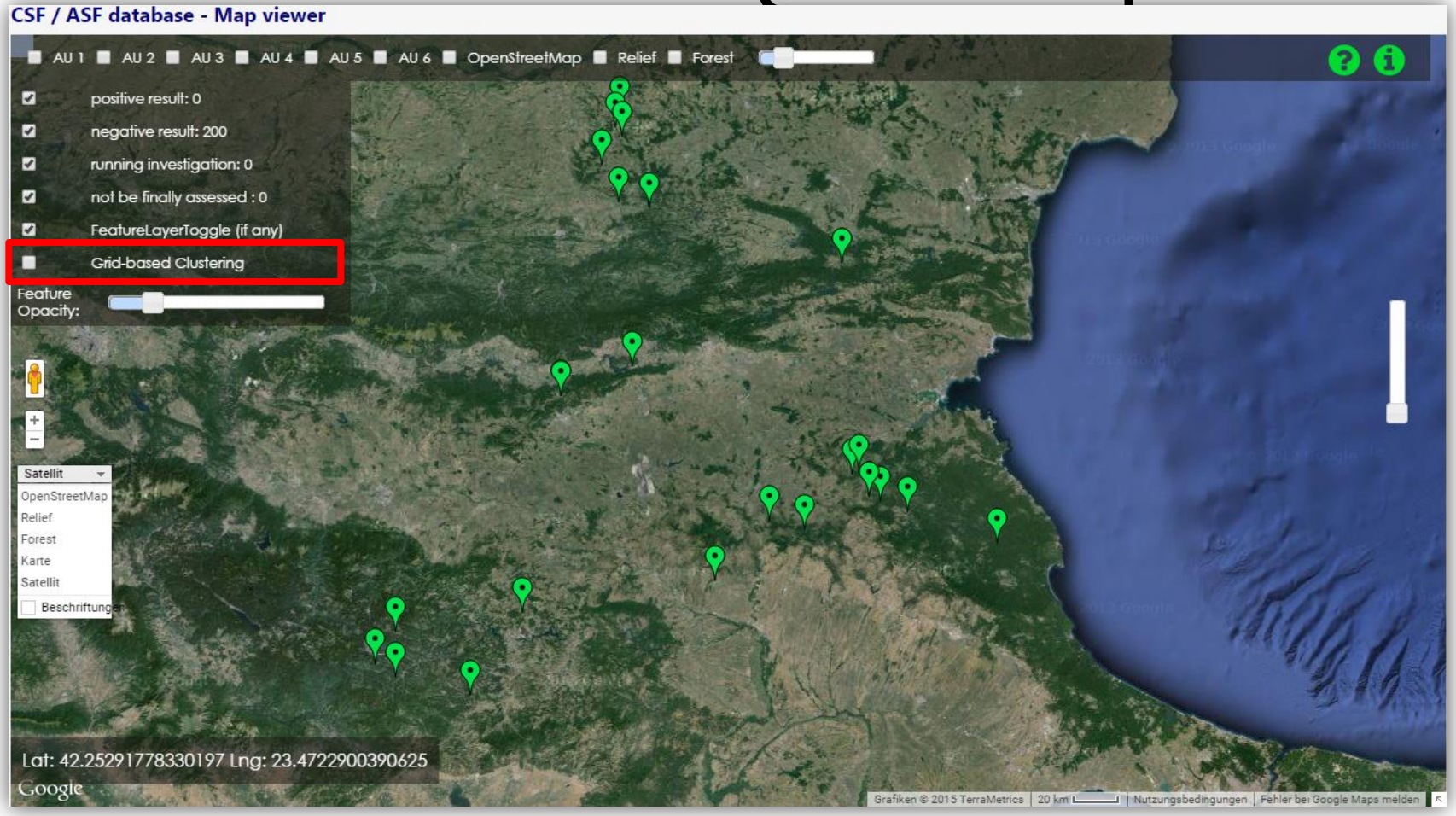
(TEST-Records for ASF!)

Record viewer - Quickmapviewer

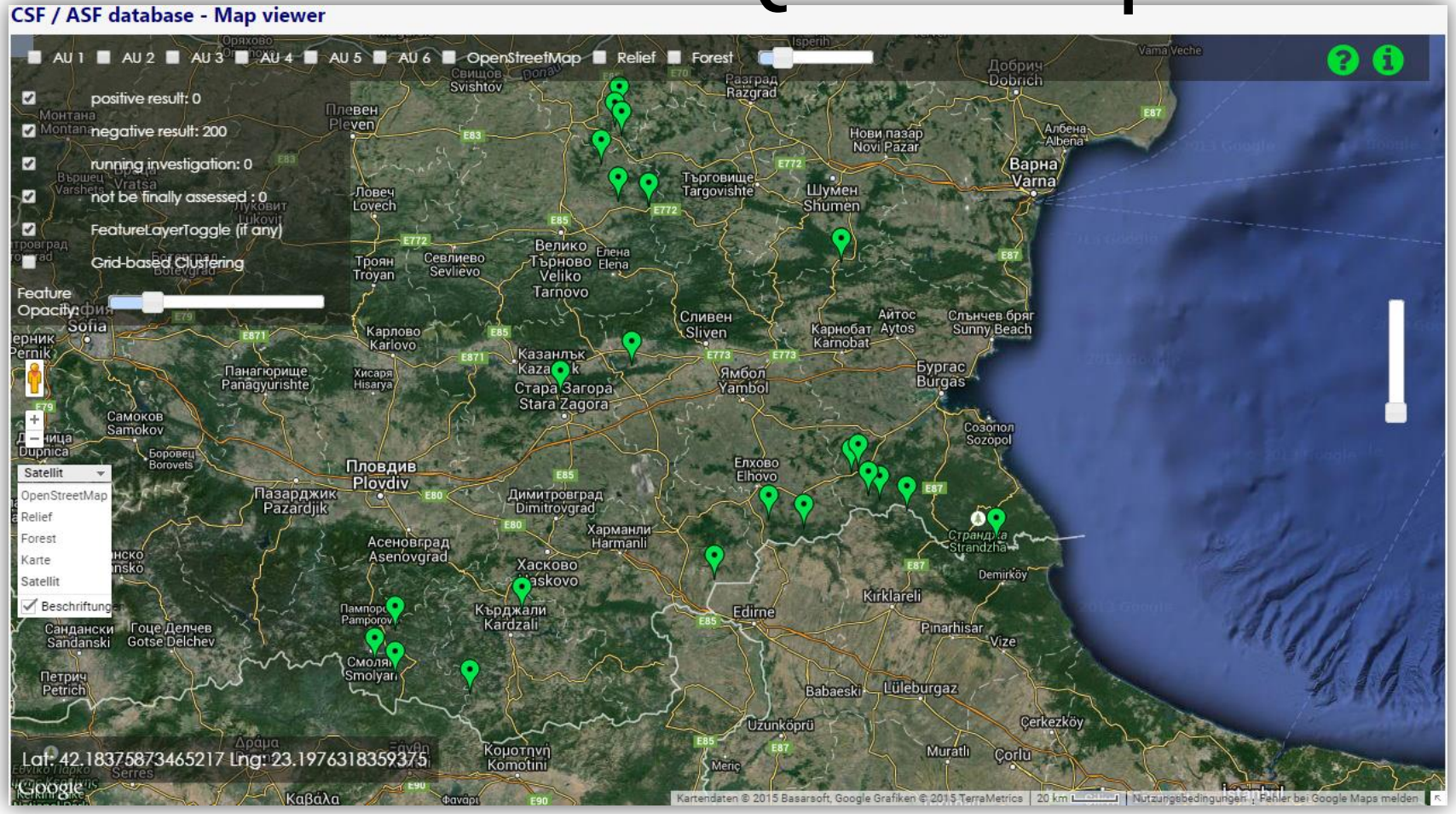


CSF query with 79031 results

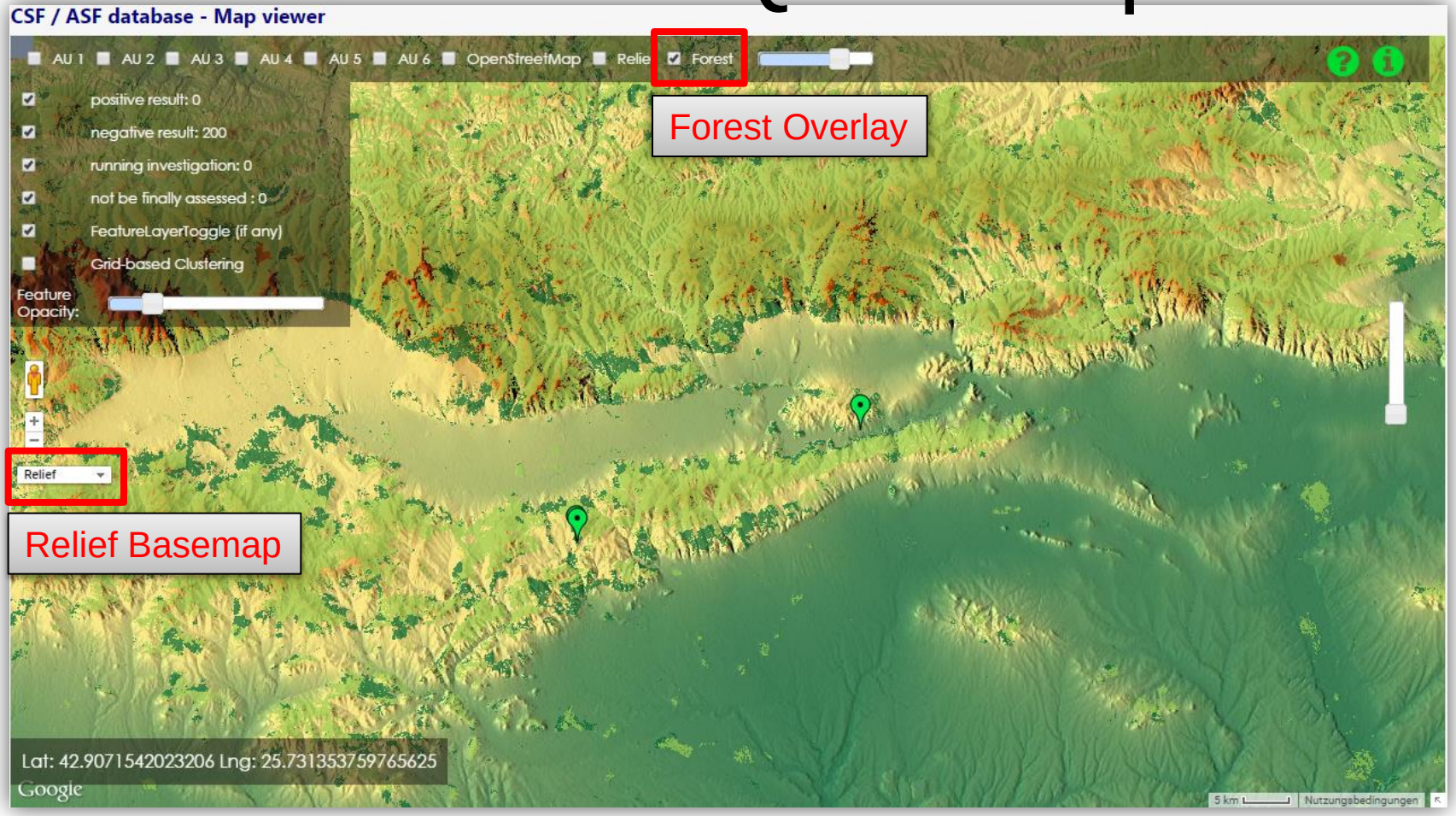
Record viewer - Quickmapviewer



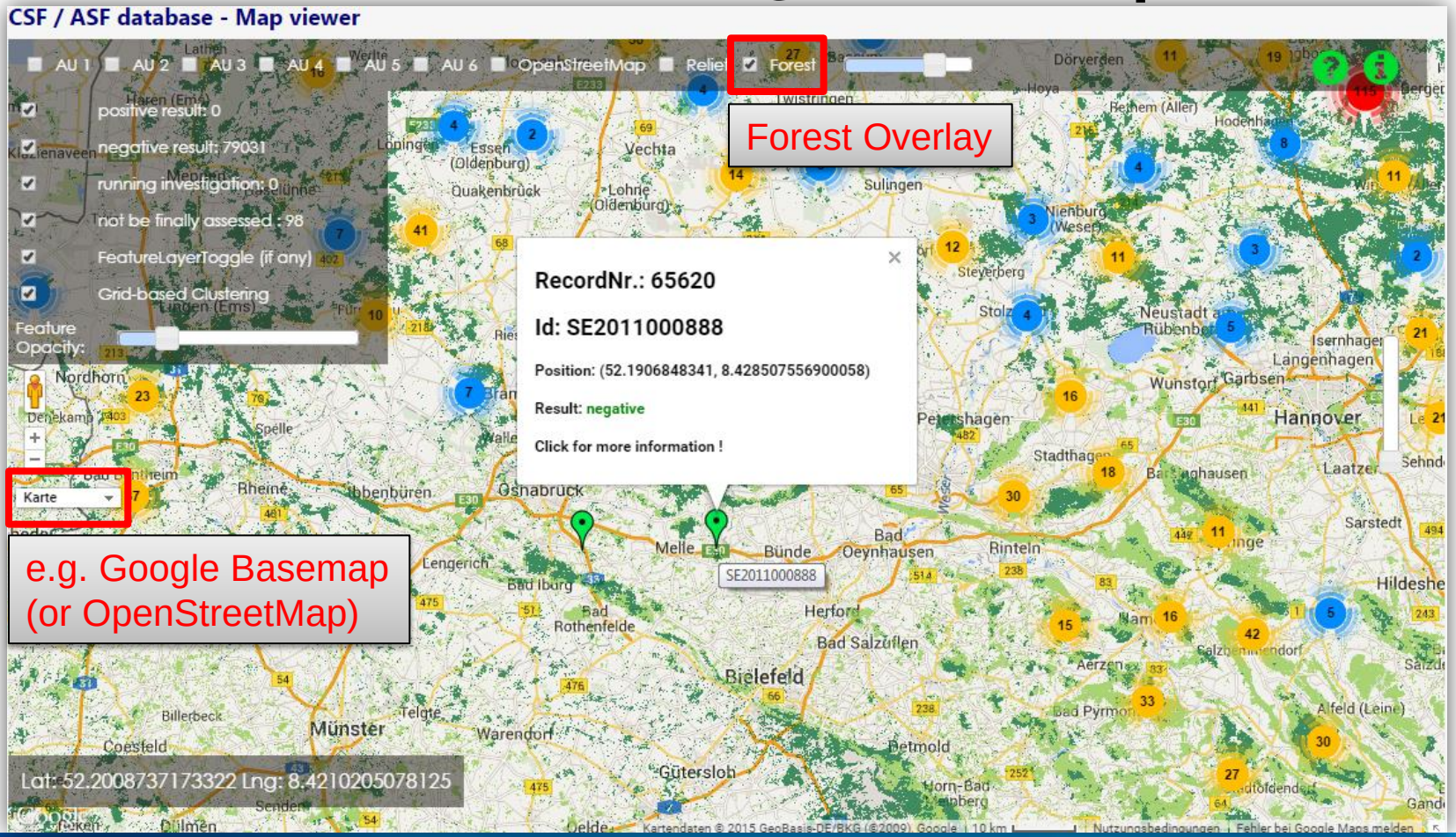
Record viewer - Quickmapviewer



Record viewer - Quickmapviewer



Record viewer - Quickmapviewer



Results

- Transparent representation of the epidemiological situation on CSF & ASF between the participating member states
- Up-to-date report of the course of infection in the different countries
- Evaluation of the data in time and space considering the restriction and vaccination areas
- Advantages in the scientific assessment of the disease situation in different regions
- Easing the production of official reports

Thank you very much for your attention!

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