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# 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*



**EU Reference Laboratories**

**CSF / ASF WILD BOAR SURVEILLANCE DATABASE**





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# Background (1)

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



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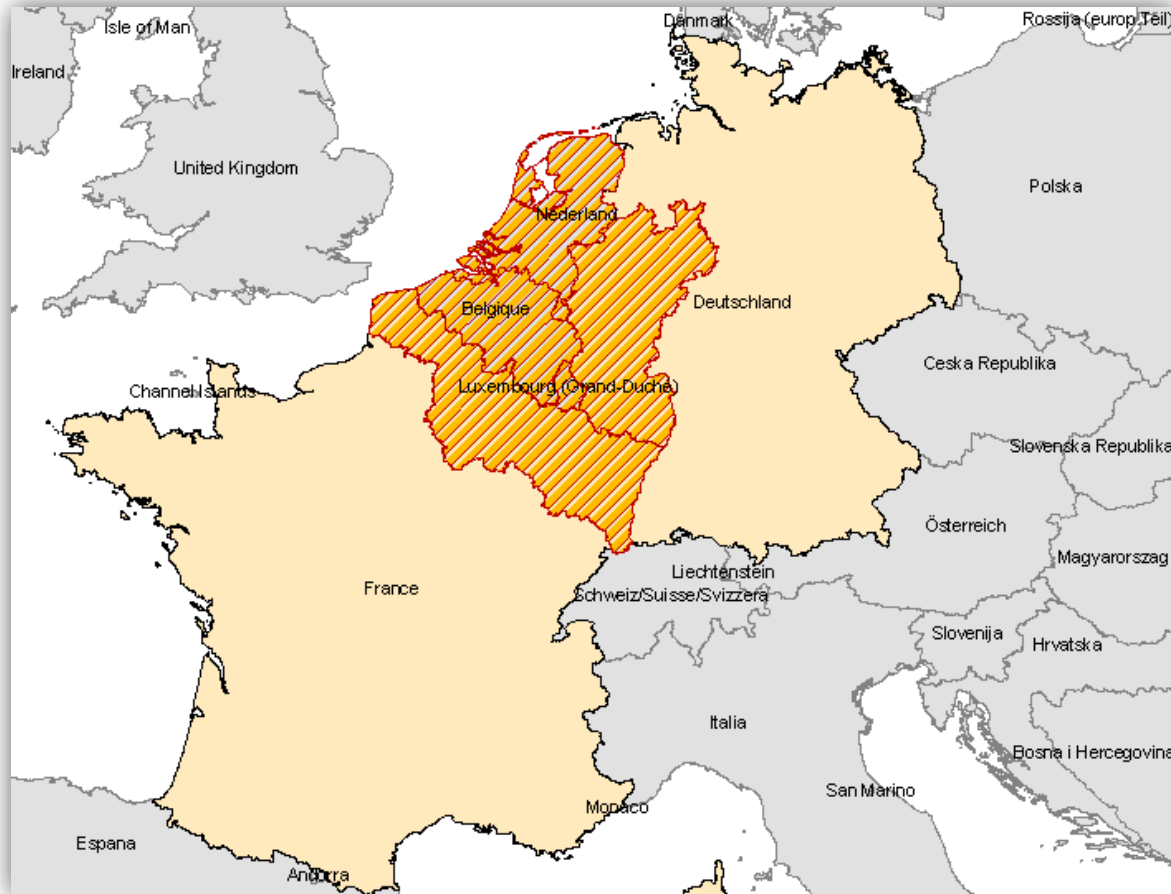




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# CSF in Wild Boar Surveillance Database for Belgium, France, Germany, Luxembourg and the Netherlands



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## 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



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## 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



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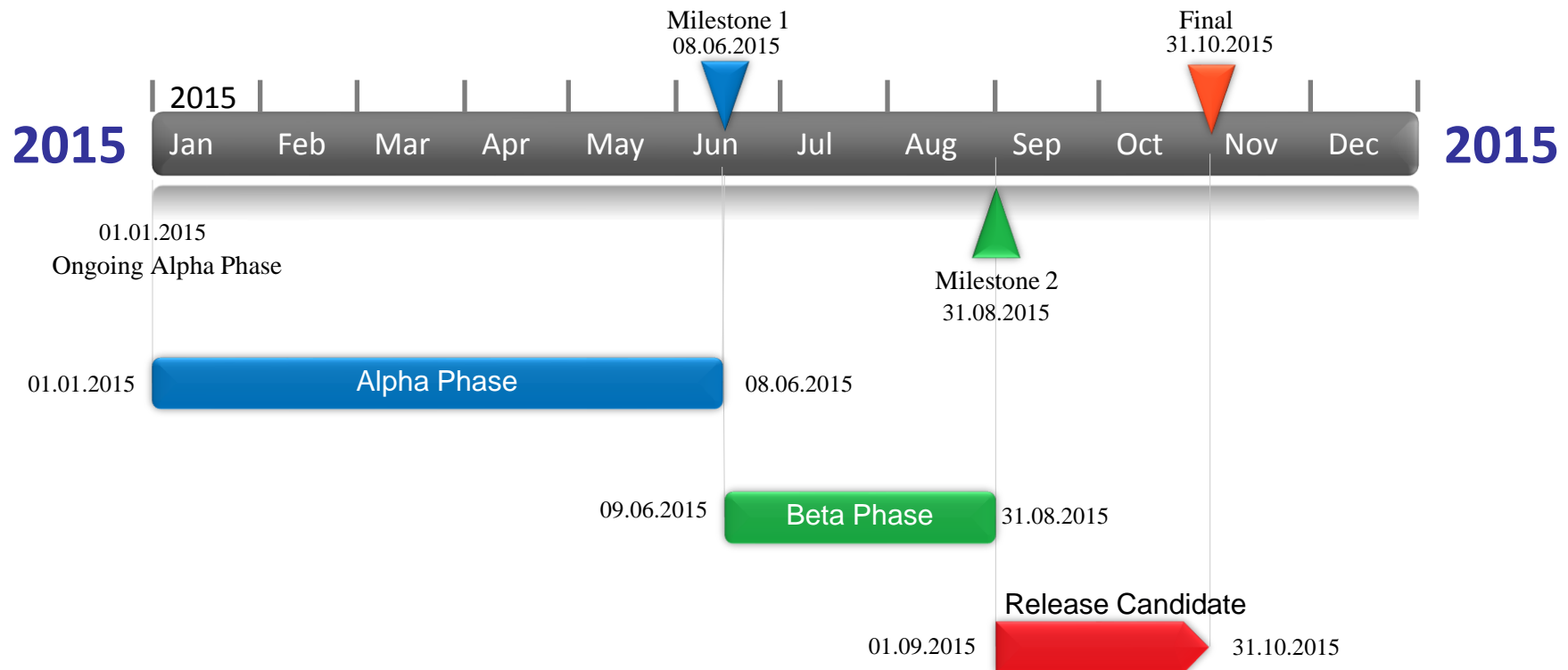


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# Timetable



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## 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



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CLASSICAL SWINE FEVER IN WILD BOAR SURVEILLANCE DATABASE



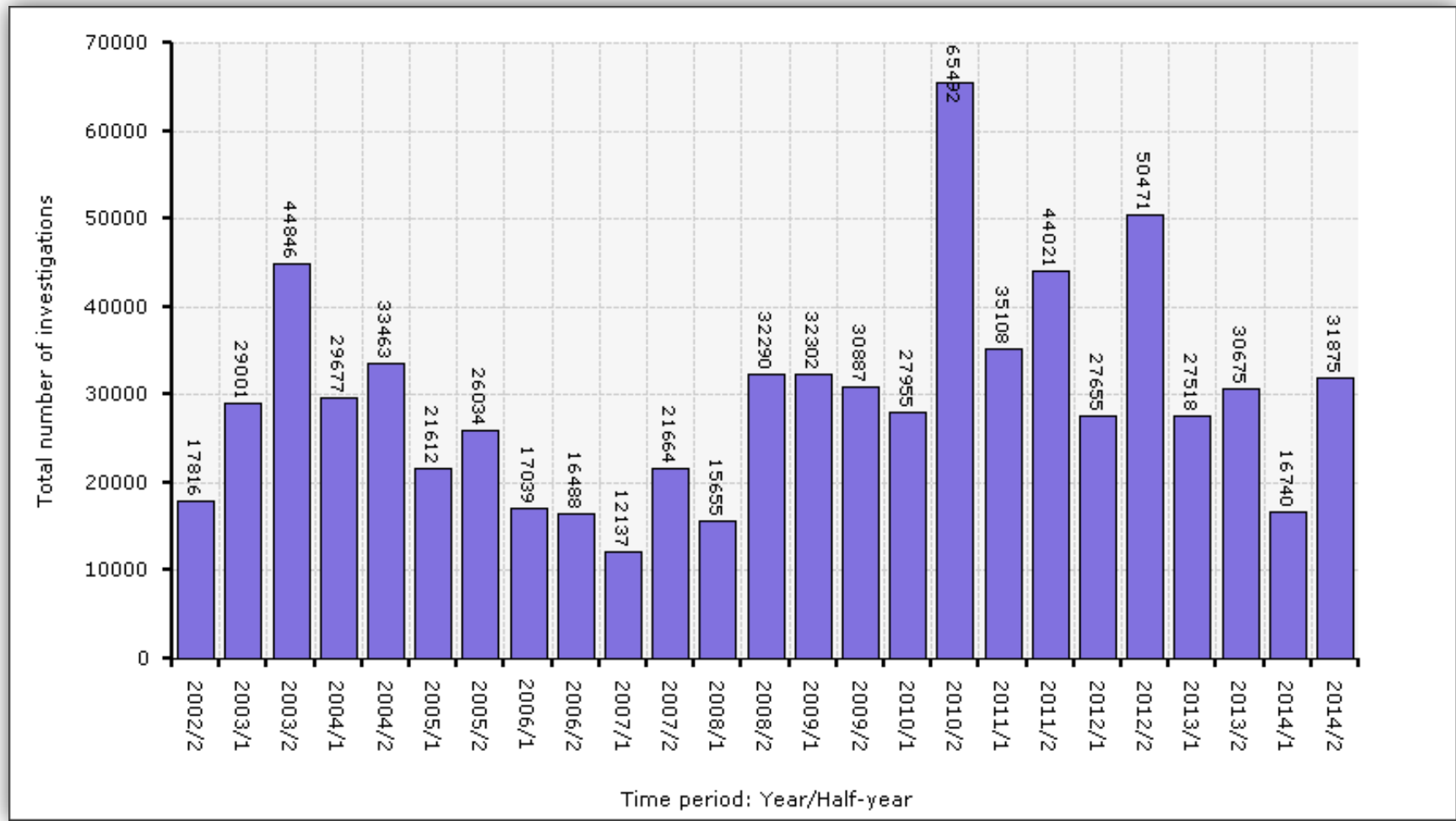


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## CSF-DB Number of records from 2002-10-01 to 2014-12-31



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# 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)



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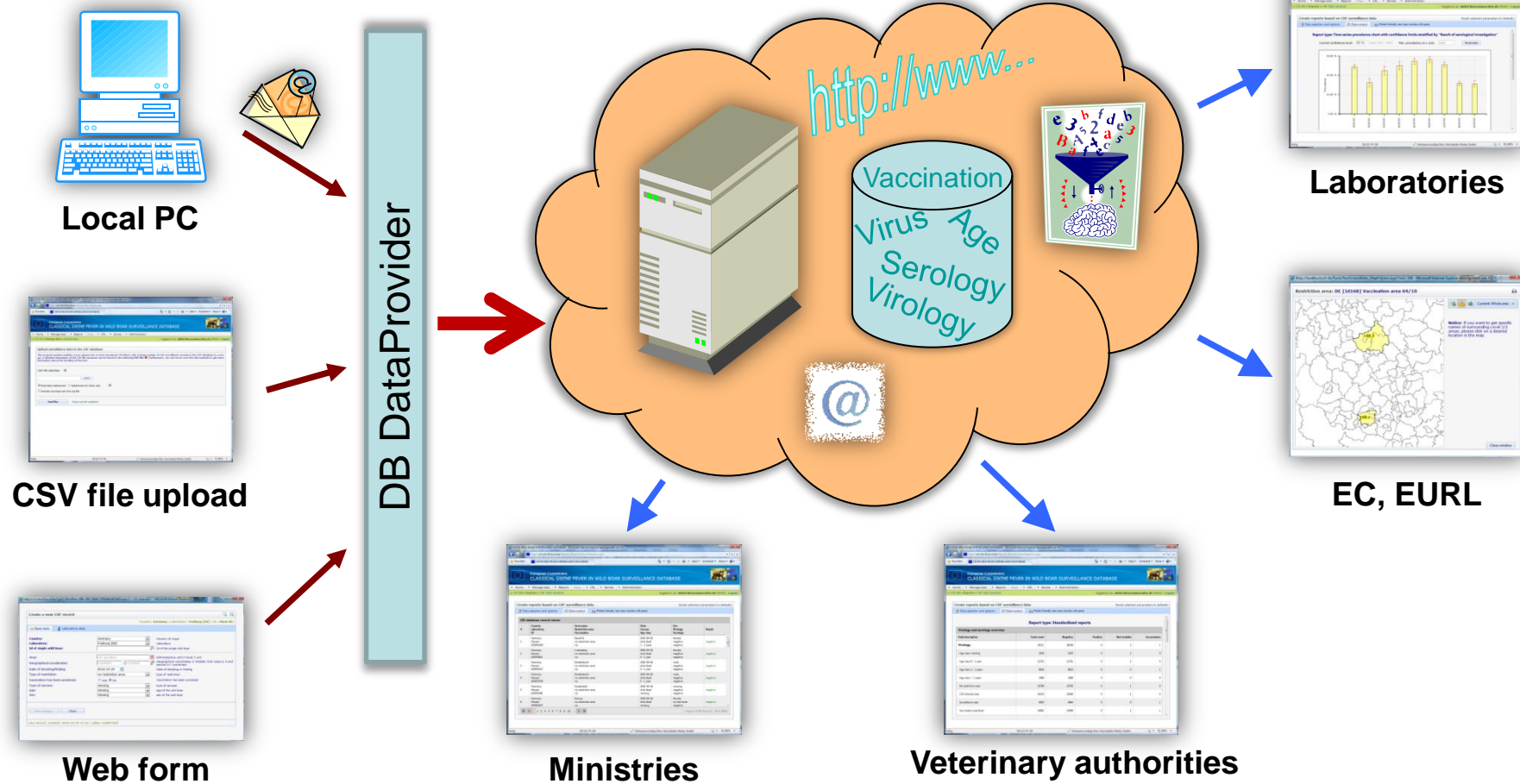
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Veterinary authorities /  
Laboratories

## CSF / ASF Database



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## 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](mailto: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](mailto:support@csf-wildboar.eu))

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

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



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## 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](mailto: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\*** (Word)
- EU CSF-DB presentation on SCoFAH meeting 2010-05-04 (PDF)
- EU CSF-DB presentation (updated version) on an EC meeting in Brussels 2010-12-13 (PDF)

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# 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)



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## 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	<b>0 = no restriction area</b> 1 = infected area 2 = surveillance area
HDate	Date	10	Date of shooting/finding of each wild boar	Format: <b>YYYY-MM-DD</b> or YYYY.MM.DD or DD.MM.YYYY or DD-MM-YYYY
CarcassCode	Integer	1	Type of carcass	<b>0 = missing</b> 1 = shot dead 2 = found dead 3 = shot sick 4 = road traffic accident
AgeCode	Integer	1	Age class	<b>0 = missing</b> 1 = 0-1 year 2 = 1-2 years 3 = > 2 years



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# Data Acquisition

## (CSF / ASF surveillance data – Web form)

Basic data

CSF Lab data

ASF Lab data

Create record

Basic data | CSF Lab data | ASF Lab data | Clone or edit record | Create new record

Country of sample origin: Germany

Laboratory: Please choose the laboratory

Id of single wild boar: 2015TestASF5pos

Area: not specified

Geographical coordinates: 0.000000 - 0.000000

Date of shooting/finding: 2015-05-29

Type of restriction area: no restriction area

Vaccination has been practised: yes no

Type of carcass: missing

Age: missing

Sex: missing

Confirmation of the record: No

If 'No', please remember to confirm your entries later on! Not confirmed entries aren't included in reports and can't be viewed by other users. See the online help for more details.

Create record

Country: Germany

Basic data | CSF Lab data | ASF Lab data | Clone or edit record | Create new record

Result of virological investigation: no test done

Virological test: no test done

Result of serological investigation: no test done

Serological test: no test done

Virus type: unknown

Analyzed sequence of the CSFV genome: no test done

Highest homology found with known CSF isolate/strain: 0.00%

Official judgement: running investigation

Create record

Country: Germany | Laboratory: Please choose the laboratory | Id: «New Id»

Basic data | CSF Lab data | ASF Lab data | Clone or edit record | Create new record

Result of virological investigation: no test done

Virological test: no test done

Result of serological investigation: no test done

Serological test: no test done

Virus typing: not done

Further sequence data:

Official judgement: running investigation



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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	<b>0 = no restriction area</b> 1 = infected area

```
C:\Users\Christoph\Desktop\Neuer Ordner\CSF&ASF-EU_CSF&ASF-DB_Example.csv - Notepad++
Datei Bearbeiten Suchen Ansicht Kodierung Sprachen Einstellungen Makro Ausführen Erweiterungen Fenster ?
(CSF&ASF)-EU_CSF&ASF-DB_Example.csv
1 CSFData 2.0
2 CountryCode;LabCode;Id;AreaCode;RestrictionCode;HDate;CarcassCode;AgeCode;SexCode;Confirmed;XValue;YValue;Vacc;VirologyCode;VirtestCod
3 DE;6;2014CASFTTest;13005000;0;2014-09-26;1;0;0;1;13;54,3;0;1;3;0;0;0;1;0;0;0;Sequence;1;2;1
4
5
```



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# Data Acquisition

## (CSF / ASF surveillance data – Upload\*)

**Upload surveillance data to the CSF & ASF database**

This programme module enables you to upload one or more structured CSV-file(s) with a larger number of CSF & ASF surveillance records to the CSF & ASF database in a one step process! A detailed description of the CSV-file structure can be found in the following [PDF file](#). Furthermore, you can hover over the Info-symbols to get more information displayed about the handling of this tool.

---

**CSV-file selection:**

Select

☒ Real data submission ☐ Submission for tests only

☐ Include warnings into the log file

Send files

Clear current selection

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

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# 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)



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# Data Acquisition (Restriction areas)

Basic data

Country of origin:

Germany

Unique identifier:

165

Global display name:

DE ASF infected area 2015-06 [Id165]

Type of restriction area:

ASF infected area

Starting point of time period:

2015-06-03

End point of time period:

Date of last vaccination in the area:

Confirmation of the record:

no

Save changes

Close

edit restriction area record | created: 2015-06-03 13:00 | last edit: 2015-06-03 13:01 | editor:

Area definition

Country: Germany | Id: 165

Basic information

Area definitions

Restriction area parts

Name	Modified Modified by	Area size	Actions
[ New restriction area part ]			
Part "165.1" (ASF DE M-V) *	2015-06-03 13:00 EURL CSF-DB Support	1495.51 km <sup>2</sup>	

Preview map

Save changes

Close

edit restriction area record | created: 2015-06-03 13:00 | last edit: 2015-06-03 13:00 | editor: EURL CSF-DB Support



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# Data Acquisition (Restriction areas)

Underlying Level 3 areas Current view: Part "165.1" (ASF DE M-V)

Area size: 1495.5 km<sup>2</sup>

**Notice:** If you want to get specific names of surrounding level areas, please click a desired location in the map.

The following geographical information relating to the clicked position were found:

Clicked position:  
x: 14.292601 y: 53.551175

Country:  
**Germany**

Name of Level 1 area:  
**Mecklenburg-Vorpommern**

Name of Level 2 area:  
**Uecker-Randow**

Name of Level 3 area:  
**Blankensee**

Close window

**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
<b>Level 1: Mecklenburg-Vorpommern</b>	
<b>Level 2: Uecker-Randow</b>	
Ahlbeck	13062001
Altwarpen	13062002
Altwigshagen	13062003
Bergholz	13062005
Blankensee	13062007
Blumenhagen	13062008
Boock	13062009
Brietzig	13062010
Damerow	13062011
Eggesin	13062012



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# 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 <sup>2</sup>	
2	Germany DE Surveillance area 2012-06 [Id163]	Surveillance area 2012-06-18 no	no 5982.5 km <sup>2</sup>	
3	France FR Surveillance area 2011-11 [Id161]	Surveillance area 2011-11-15 no	no 4320.8 km <sup>2</sup>	
Page 1 of 1, Record 1 - 7 of 7				

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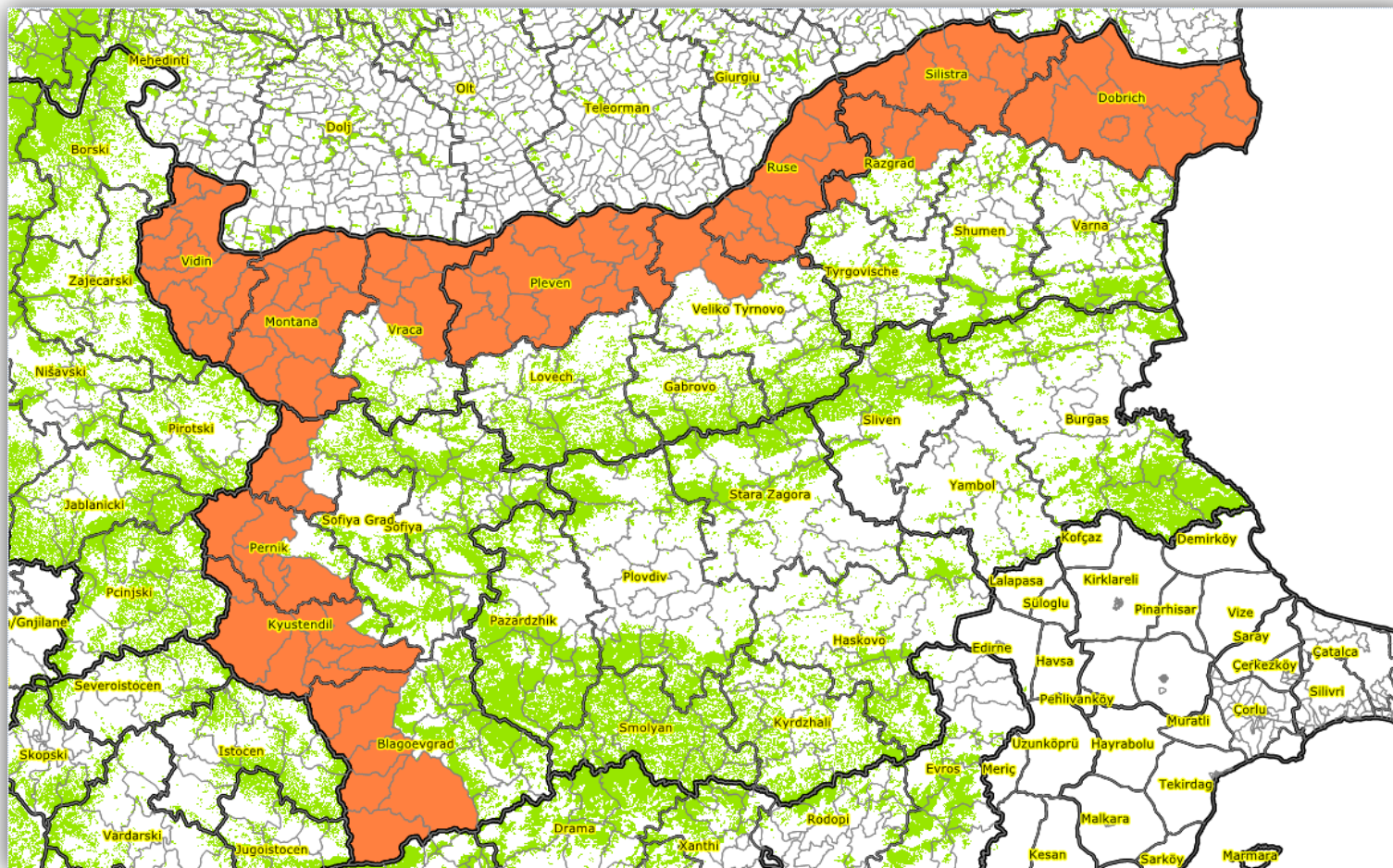
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## Custom areas in Bulgaria: Intensive monitoring area



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# 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



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# 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 ... > X

Page 1 of 106, Record 1 - 50 of 5286



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# 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:  (max. 50% - 99%) [Recalculate](#)

Virology and serology overview					
Field description	Negative	Positive	P [%]	P <sub>L</sub> [%]	P <sub>U</sub> [%]
<b>Official judgement</b>	5286	0	0	0	0.09245
<b>Virology</b>	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
<b>Serology</b>	4310	845	16.39185	15.39058	17.43134
Age class: missing	393	21	5.07246	3.16463	7.65174



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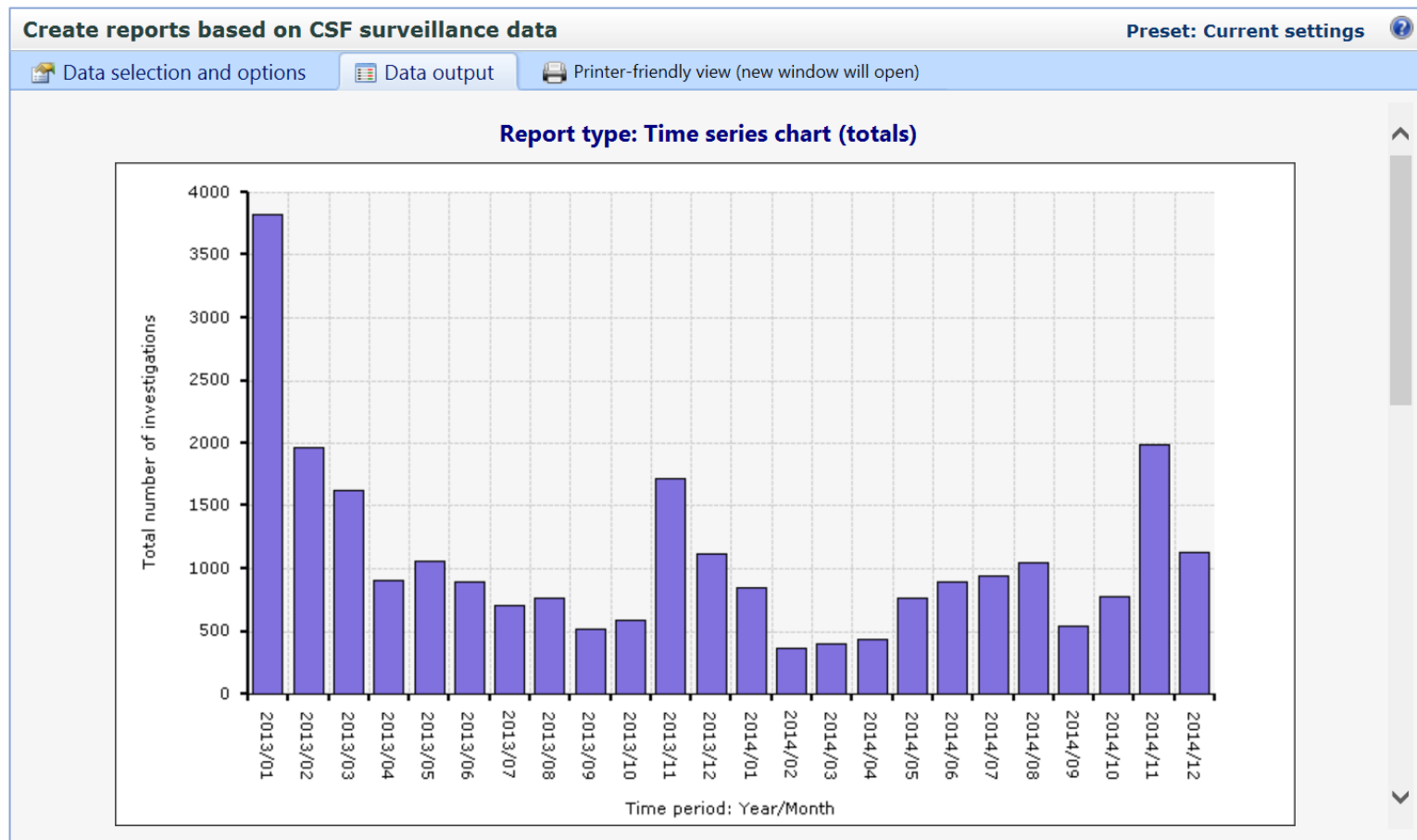




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# Query data – Data Analysis



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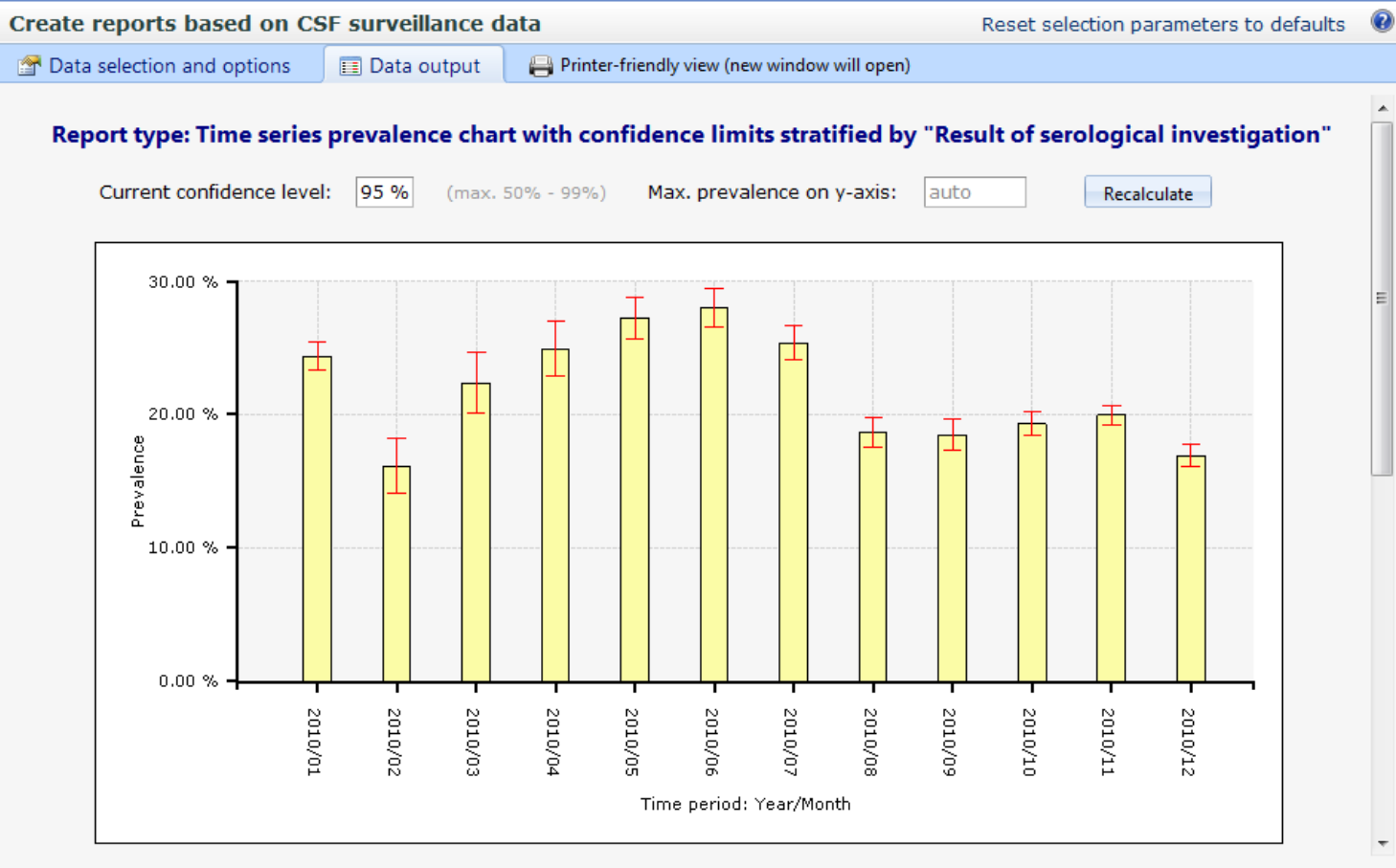


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# Query data – Data Analysis



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# 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:

Active	Rule name	Map	Last evaluation Last triggered	Creation date Last modified	Actions
<input checked="" type="checkbox"/>	<a href="#">viro pos</a>		2011-09-29 01:12 2011-08-05 01:15	2011-05-24 14:45 2011-05-26 10:21	  
<input checked="" type="checkbox"/>	offi pos	-	2011-09-29 01:12 not available	2011-05-26 10:20 2011-05-26 10:21	  



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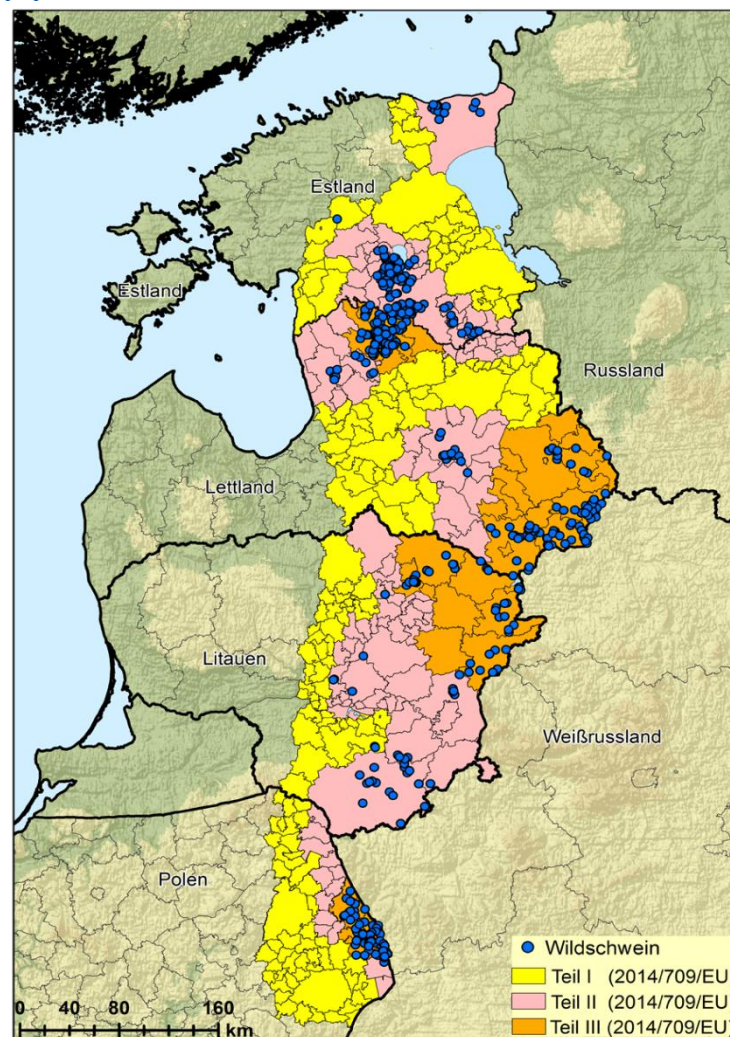
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# Maps - Motivation -



Source: ADNS data (04.06.2015)



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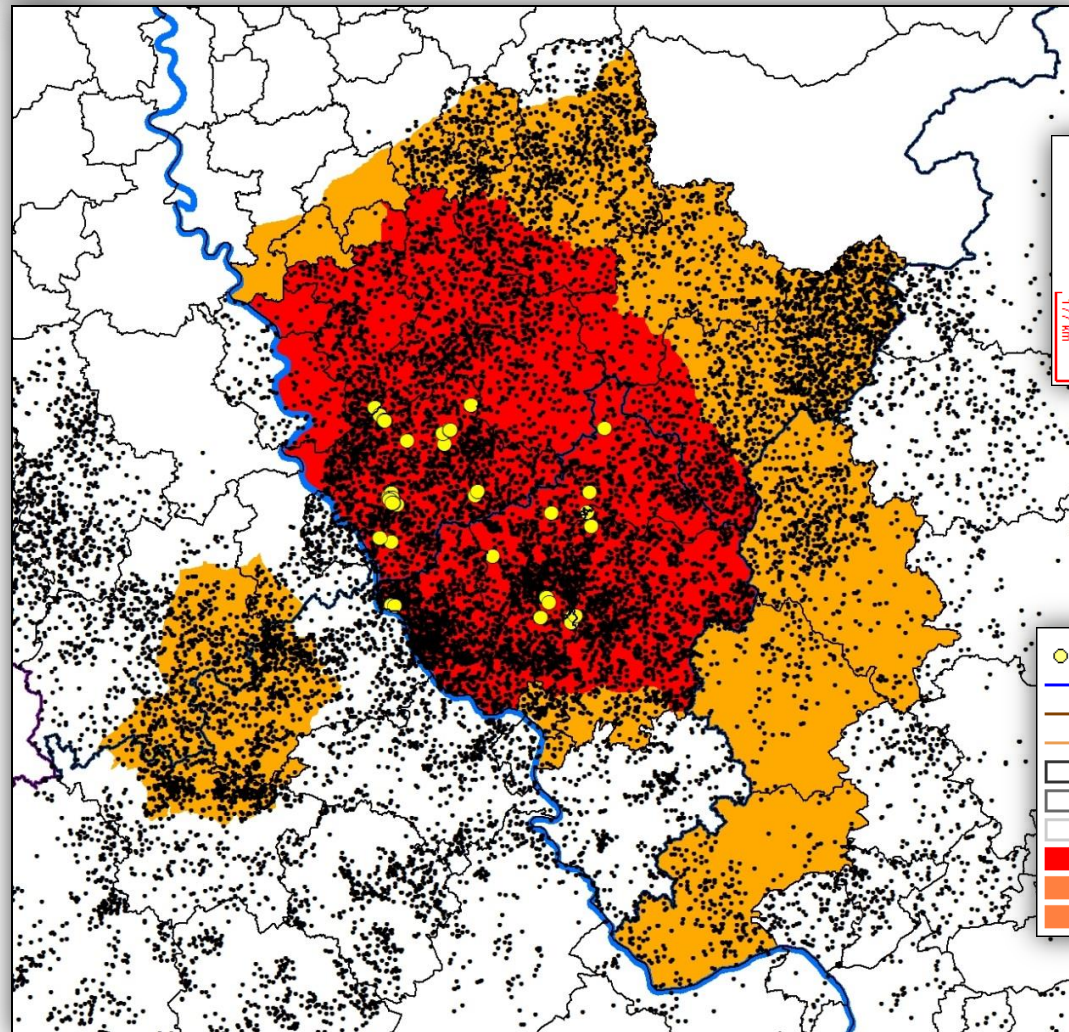
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- viro pos 2009
- Rivers (big)
- Highways
- Roads (big)
- Country Level
- Administrative Level 1 units
- Administrative Level 2 units
- DE CSF infected area 2010-04 [Id154]
- Intensive monitoring area 'Eifel - right-side of Rhine'
- Intensive monitoring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



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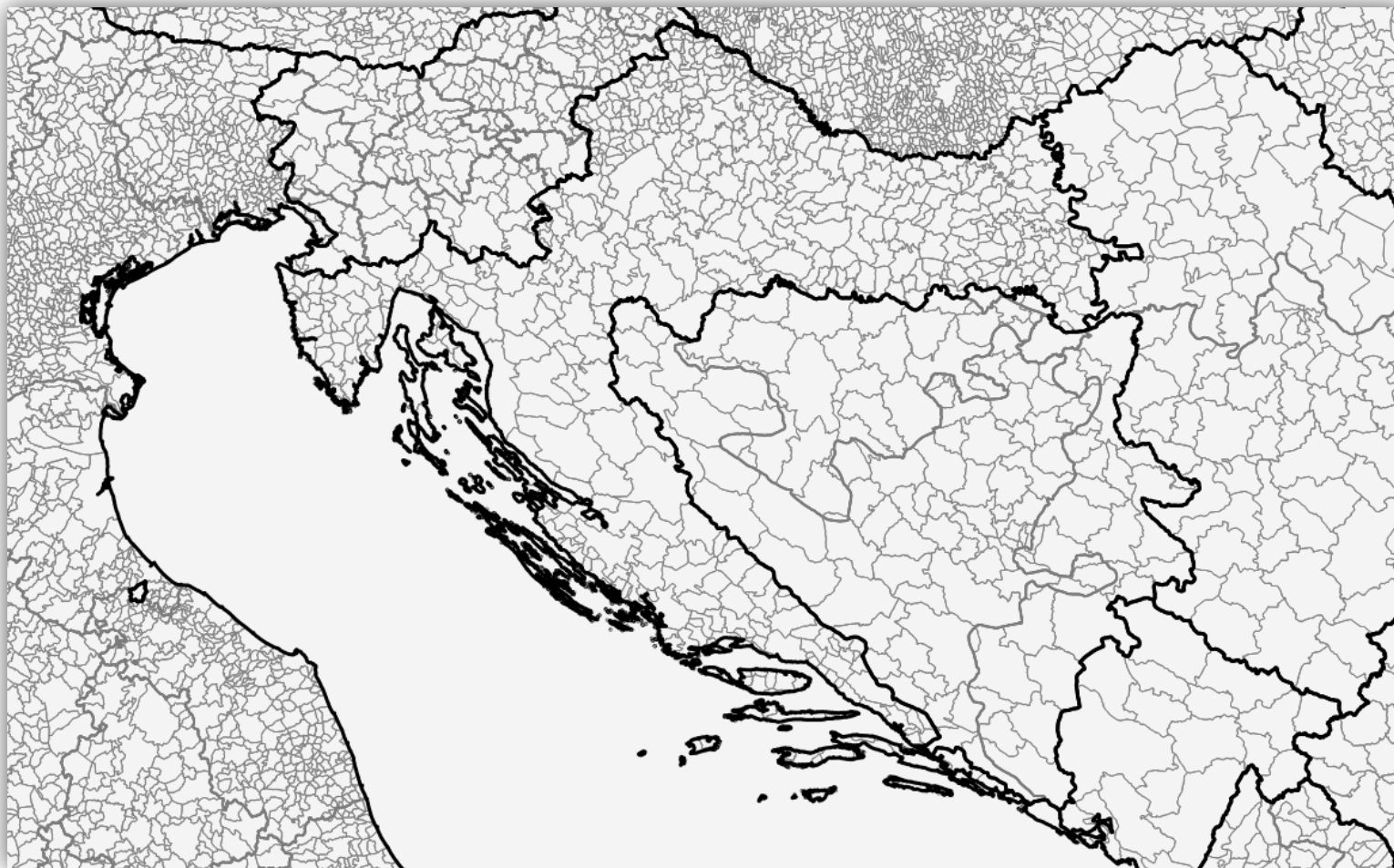
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# Admin Level 0-3

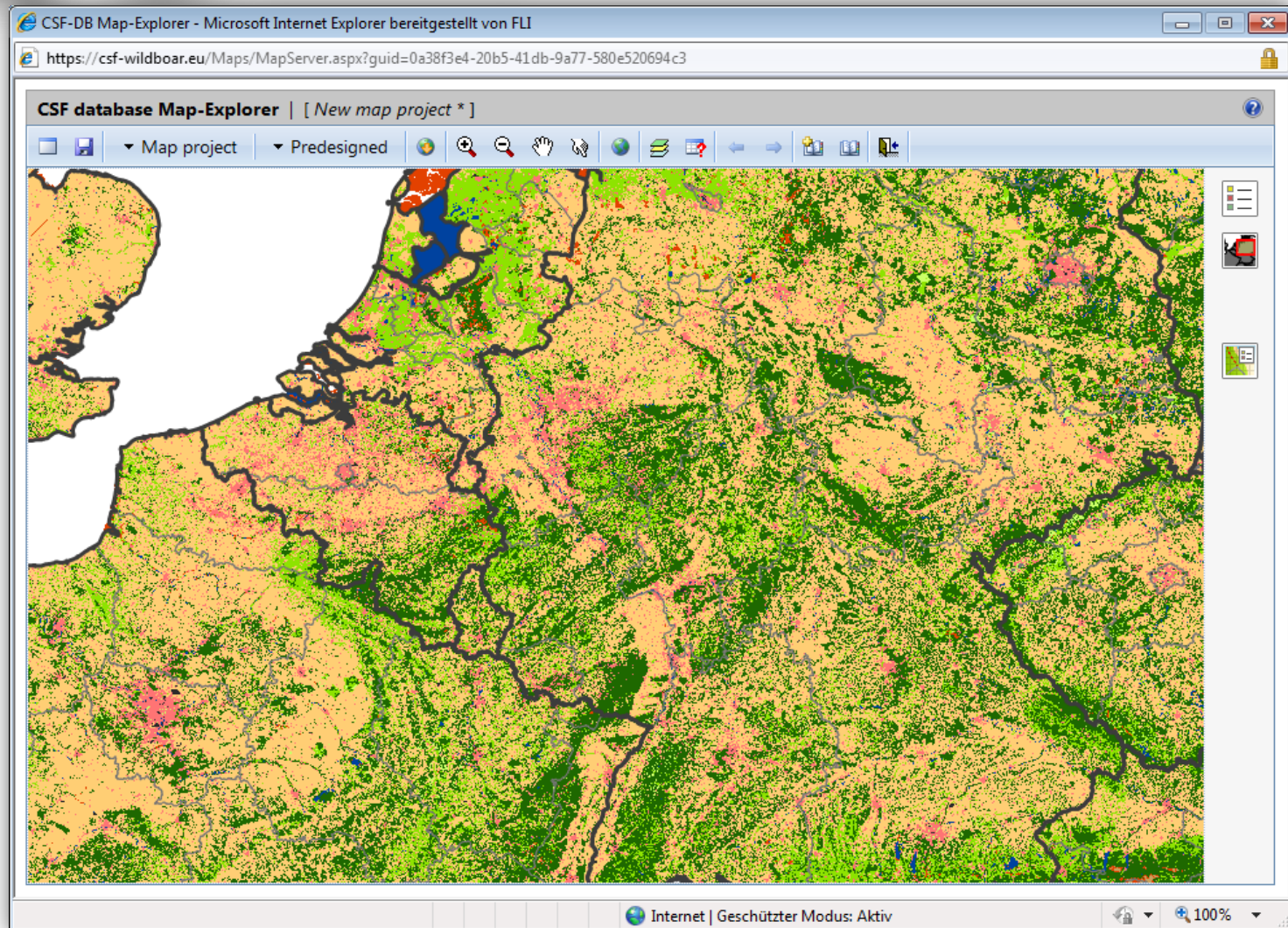


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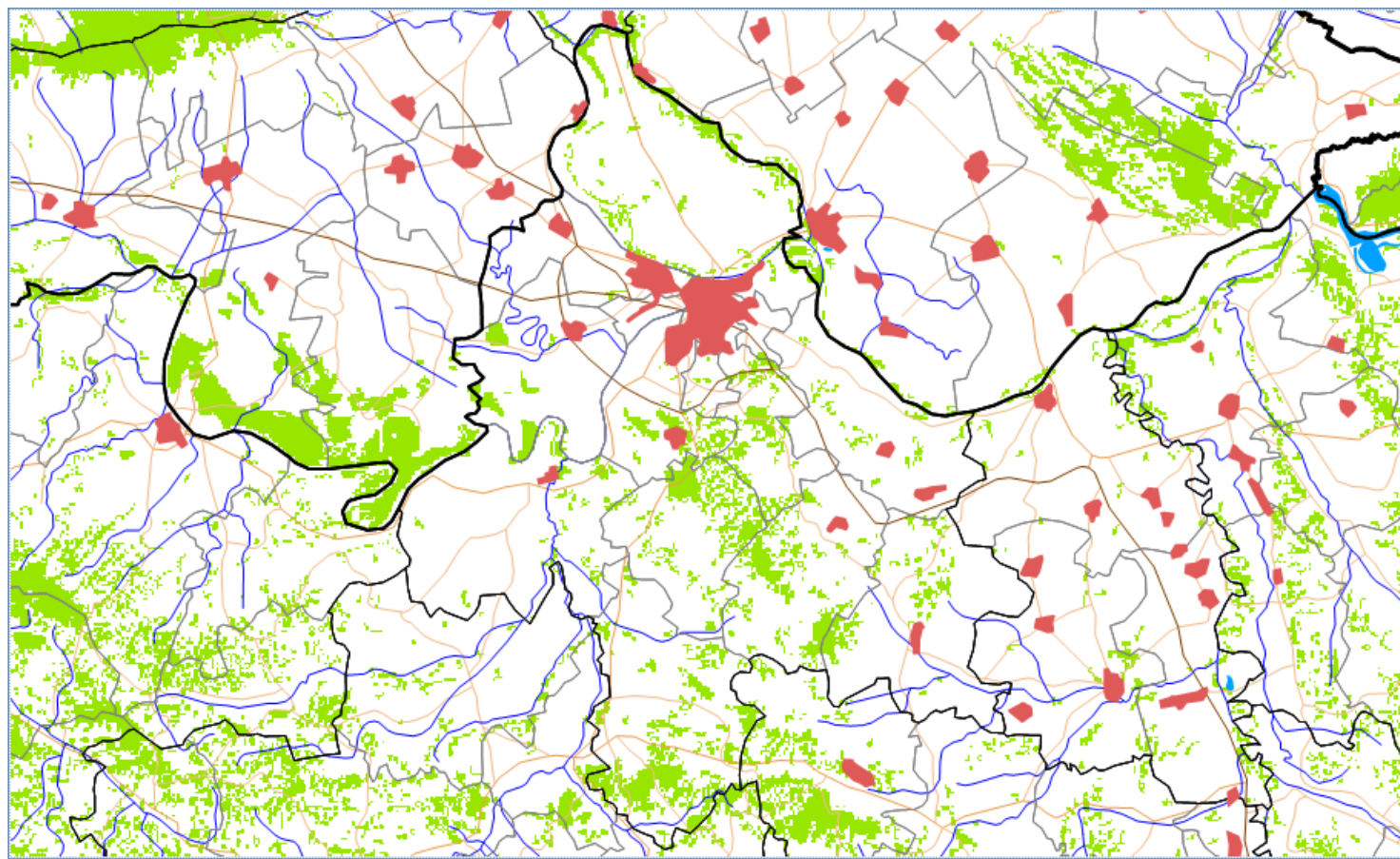
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# Serbia Settlements + Forest + Roads



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# Map-Explorer

CSF database Map-Explorer | [ New map project \* ]

Map project: Predesigned

**User queries**

Here you can modify the previously created user query. Please confirm the changes with a click on the **Modify** button.

Please notice: If you have saved this user query in combination with a project, the changes will automatically be applied to all associated projects!

Query definition | Geographical extent | Default display properties

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

Datatype: **ASF data**

Result field: All investigation results

Result value: All

Advanced parameters: ☒ [ » No definition. Click here to set up a custom filter. ]

Remarks:

**Modify** **Delete** **Back**

**Select CSF / ASF**



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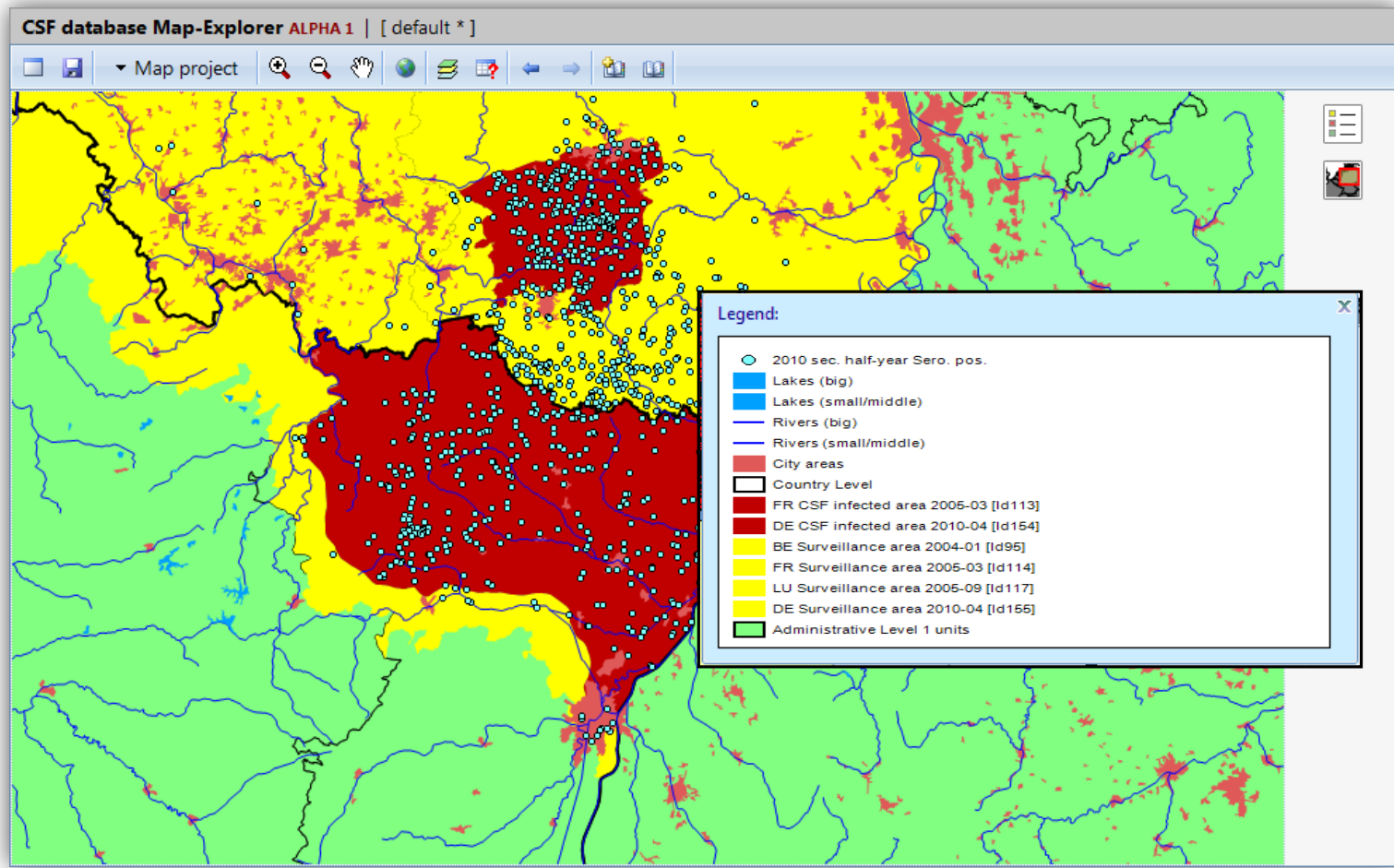
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# Map-Explorer



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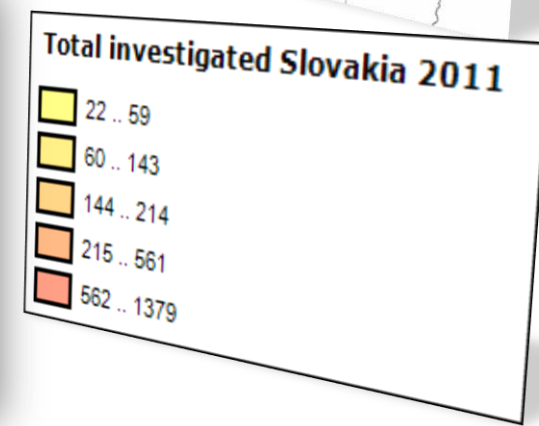
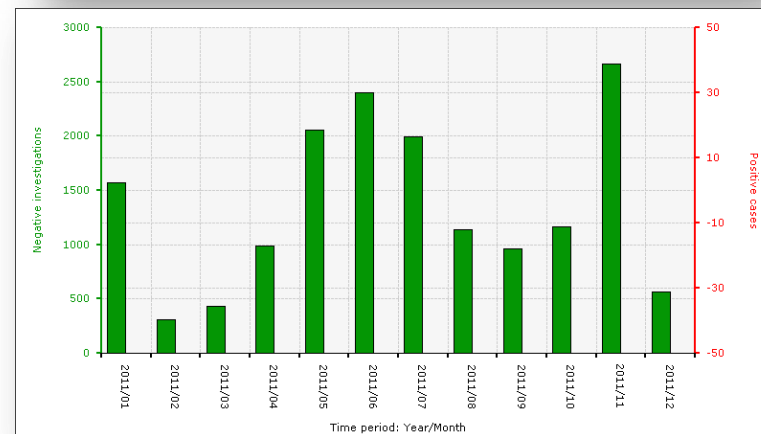
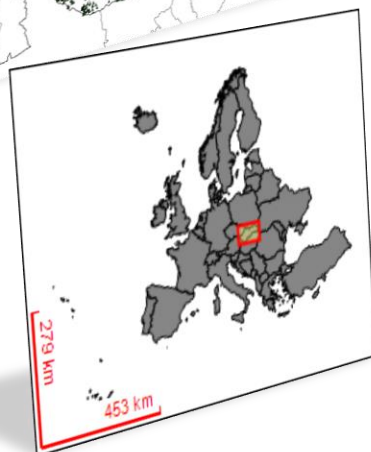
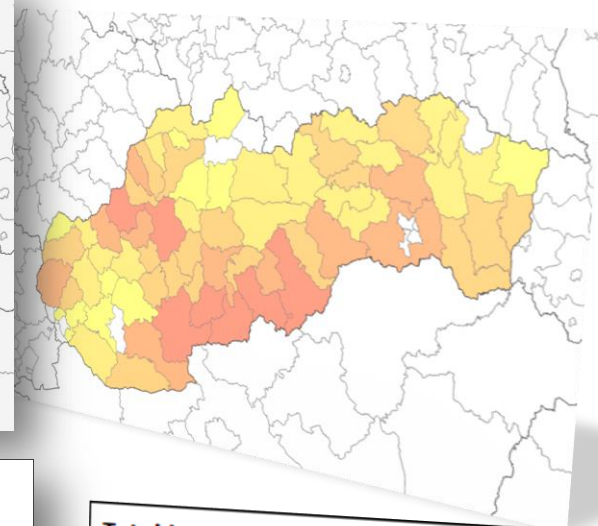
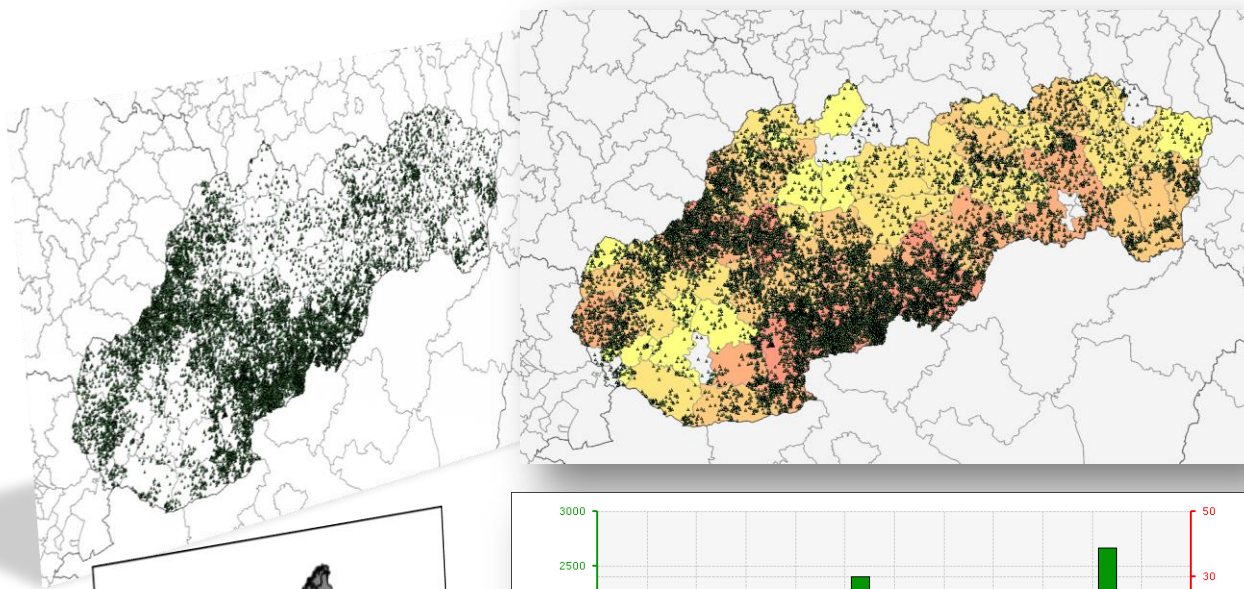


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# EURL CSF-DB example data of Slovakia in 2011



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# 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



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# 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



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# Distribution Maps (3)

Basic parameters   Geographical extent   Classes

**Aggregation mode:** Total investigated animals

Area unit: Aggregation based on Level 2 units

Result field: no selection required

Zero-prevalence: ☐ Show zero-prevalence

Time period from: 2011-01-01 to: 2011-06-30  
or select date range: << Date range >>

Color ramp: from   to  

Legend title (optional):

☒ Draw area unit count (in brackets) on the legend graphic

Recreate   Remove   Close



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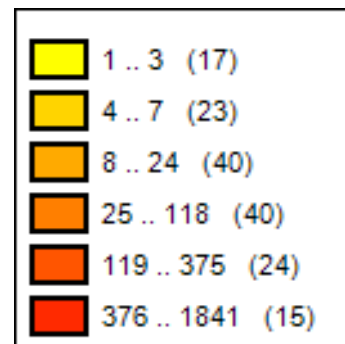
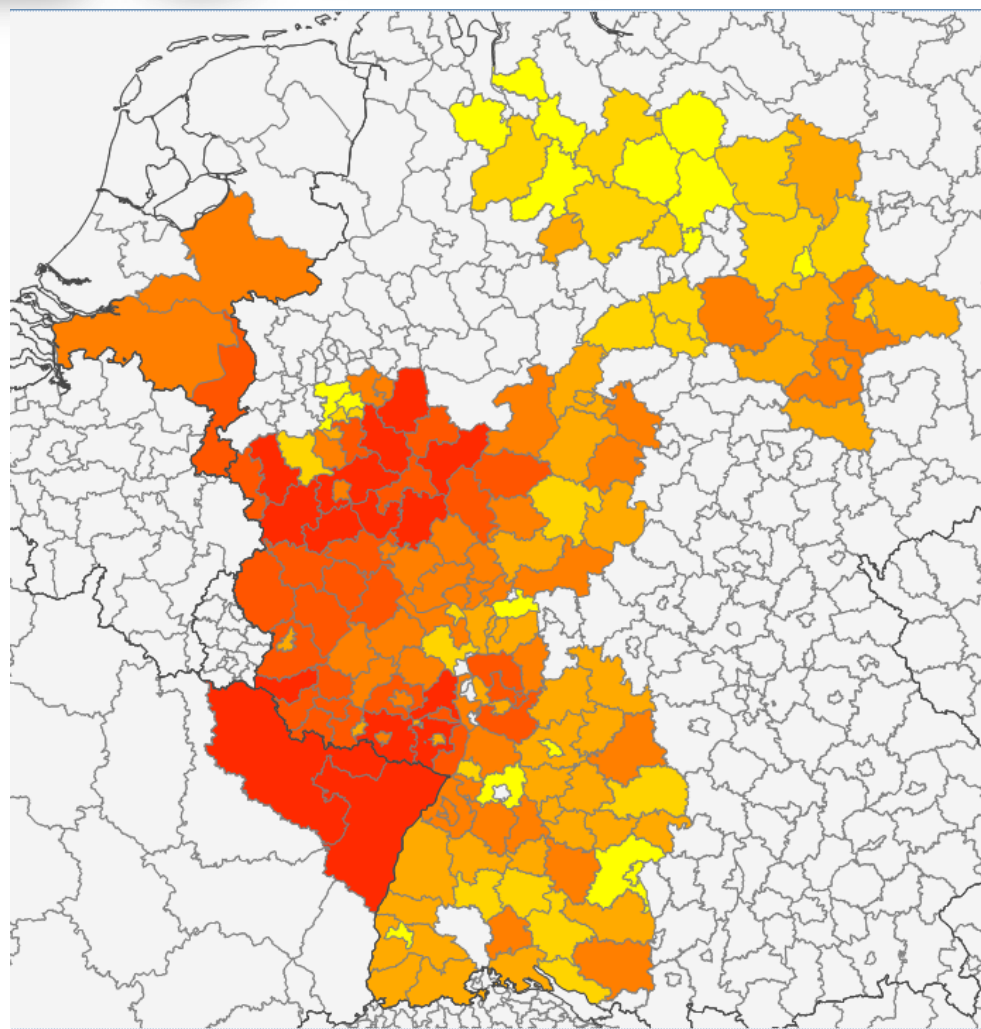


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# Distribution Maps (4)



Basic parameters   Geographical extent   Classes

**Aggregation mode:** Beta-binomial prevalence model ⓘ



**Area unit:** Aggregation based on Level 3 units

**Result field:** Serological investigation

**Zero-prevalence:** ☒ Show zero-prevalence 

**Time period from:** 2008-01-01  to: 2008-03-31 

or select date range: << Date range >>

**Color ramp:** from  to 

**Legend title (optional):** Sero-P Q1 2008 in FR und DE (Rheinland-Pfalz)

☐ Draw area unit count (in brackets) on the legend graphic

Recreate   Remove   Close



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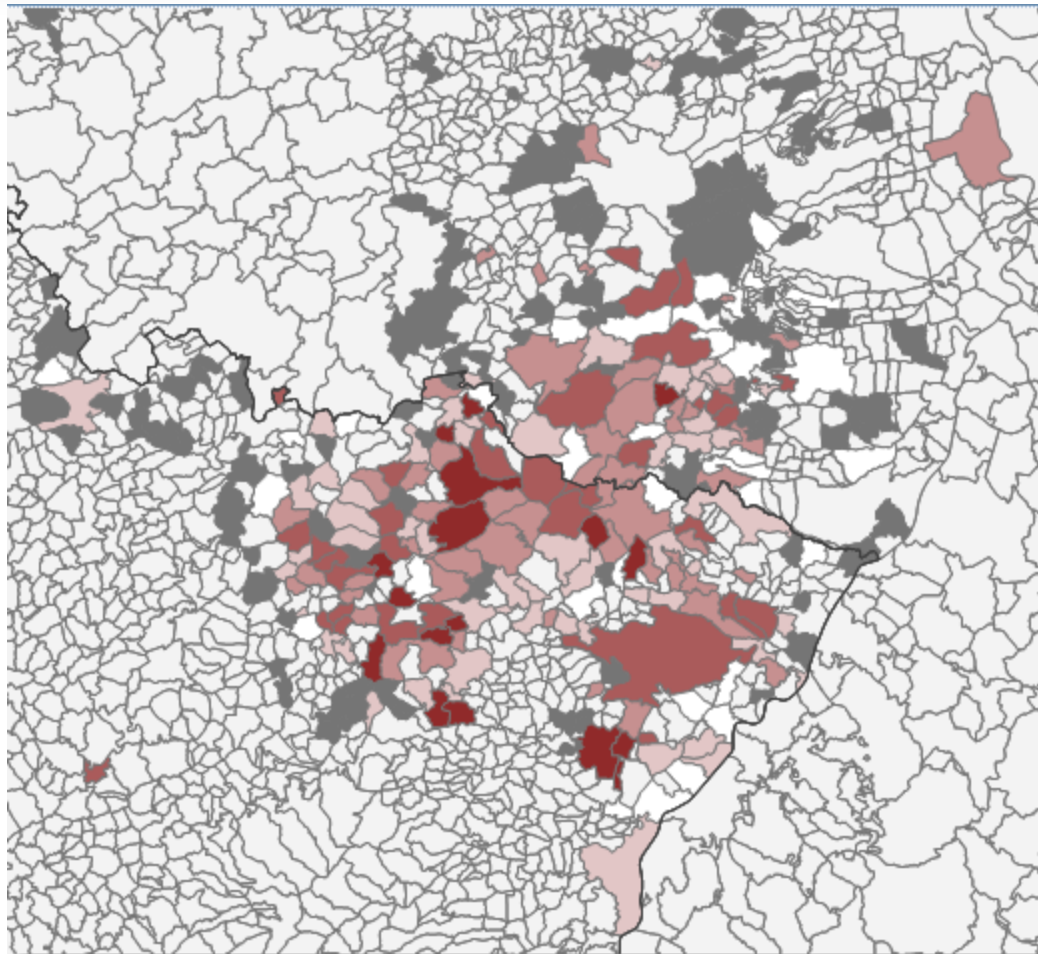


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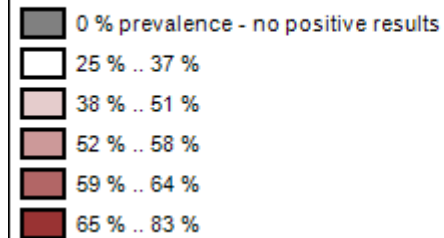
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#### Sero-P Q1 2008 in FR und DE (Rheinland-Pfalz)



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# 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 > X

| Page 1 of 1, Record 1 - 7 of 7

(TEST-Records for ASF!)

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# Record viewer – Quickmapviewer

**CSF / ASF database - Map viewer**

☐ AU 1 ☐ AU 2 ☐ AU 3 ☐ AU 4 ☐ AU 5 ☒ AU 6 ☐ OpenStreetMap ☐ Relief ☐ Forest

☒ positive result: 1  
☒ negative result: 3  
☒ running investigation: 0  
☒ not be finally assessed : 0  
☒ FeatureLayerToggle (if any)  
☒ Grid-based Clustering

Feature Opacity:

**AdministrativeUnit6 from EuroBoundaryMap as Overlay**

**Google Basemap**

**CSF / ASF surveillance database - Record details [ ID: 2015TestASF5pos ]**

[view record](#) | created: 2015-05-27 14:45 | last edit: 2015-05-27 14:46 | editor: EURL CSF-DB Support

Basic Data			
Country of sample origin:	DE	Type of restriction:	no restriction area
Laboratory:	Kronshagen-Bw	Vaccination has been practised:	no
Id of single wild boar:	2015TestASF5pos	Type of carcass:	missing
Area (Level 3 unit):	Stralsund	Age:	0 - 1 year
Geographical coordinates:	x: 13.150000 - y: 54.350000	Sex:	female
Date of shooting/finding:	2015-05-27	Confirmation of the result:	yes

CSF-specific	
Result of virological investigation:	positive
Virological test:	Virus isolation
Result of serological investigation:	positive
Serological test:	AB-ELISA
Virus typing:	ASFV, p72 genotype II
Further sequence data:	

ASF-specific	
(ASF) Official judgement:	positive

Lat: 54.32333160406328 Lng: 13.156814575195312

(TEST-Records for ASF!)



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# Record viewer - Quickmapviewer

## CSF / ASF database - Map viewer

☐ AU 1 ☐ AU 2 ☐ AU 3 ☐ AU 4 ☐ AU 5 ☐ AU 6 ☐ OpenStreetMap ☐ Relief ☐ Forest

☒ positive result: 3  
☒ negative result: 3  
☒ not be finally assessed : 1  
☒ FeatureLayerToggle (if any)  
☐ Grid-based Clustering

Feature  
Opacity:

Satellit

Lat: 53.52071674896369 Lng: 14.072113037109375

### CSF / ASF surveillance database - Record details [ ID: 2015-ASF003 ]

[view record](#) | created: 2015-06-03 14:05 | last edit: 2015-06-03 14:17 | editor: EURL CSF-DB Support

Basic Data			
Country of sample origin:	DE	Type of restriction:	ASF infected area
Laboratory:	EURL for CSF	Vaccination has been practised:	no
Id of single wild boar:	2015-ASF003	Type of carcass:	road traffic accident
Area (Level 3 unit):	Hintersee	Age:	> 2 years
Geographical coordinates:	x: 14.305341 - y: 53.601369	Sex:	female
Date of shooting/finding:	2015-06-02	Confirmation of the result:	yes

CSF-specific	
Result of virological investigation:	positive
Virological test:	PCR
Result of serological investigation:	positive
Serological test:	AB-ELISA
Virus typing:	ASFV, p72 genotype IV
Further sequence data:	

(ASF) Official judgement:	positive
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(TEST-Records for ASF!)



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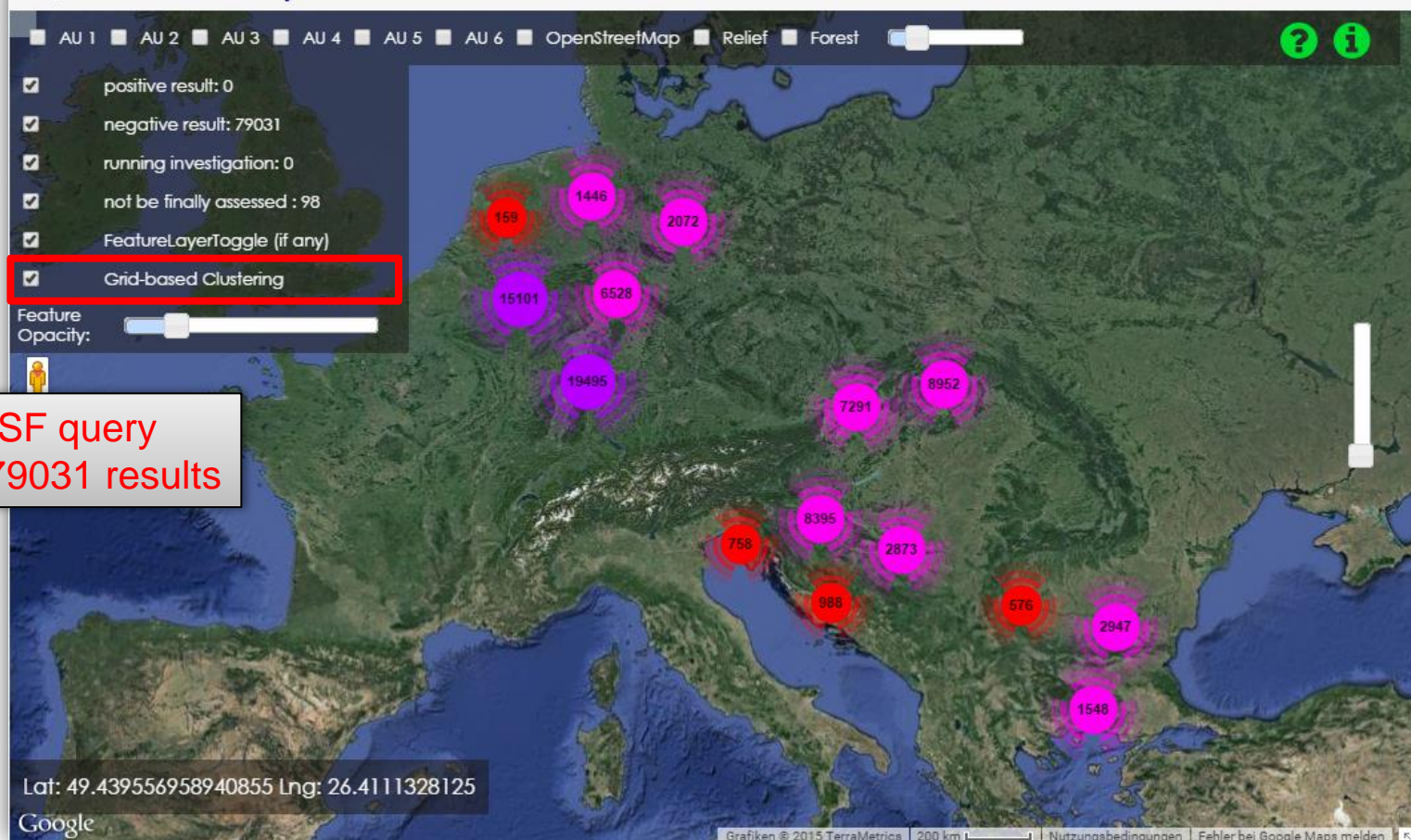
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# Record viewer - Quickmapviewer

CSF / ASF database - Map viewer



CSF query  
with 79031 results



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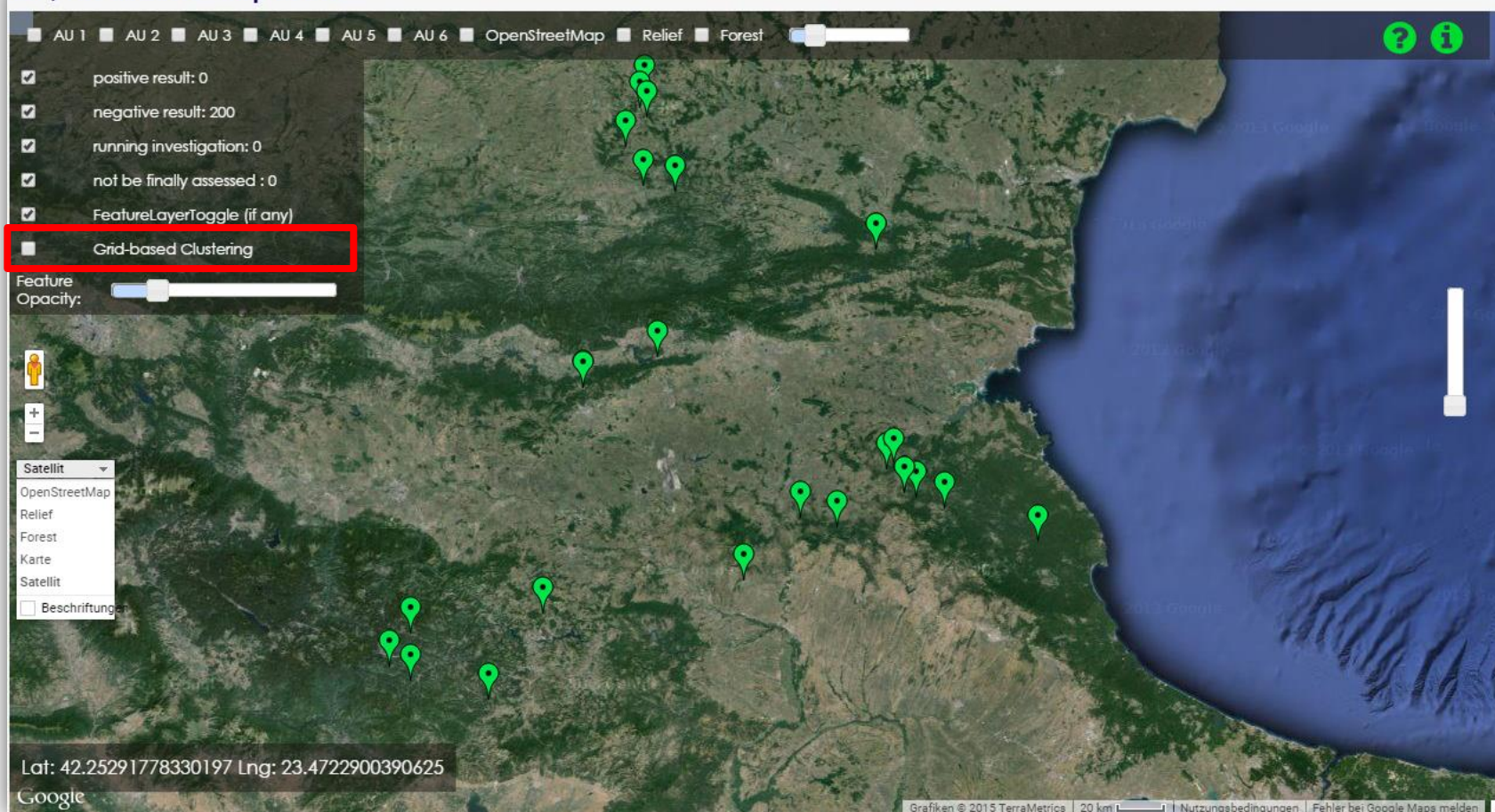
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# Record viewer - Quickmapviewer

CSF / ASF database - Map viewer



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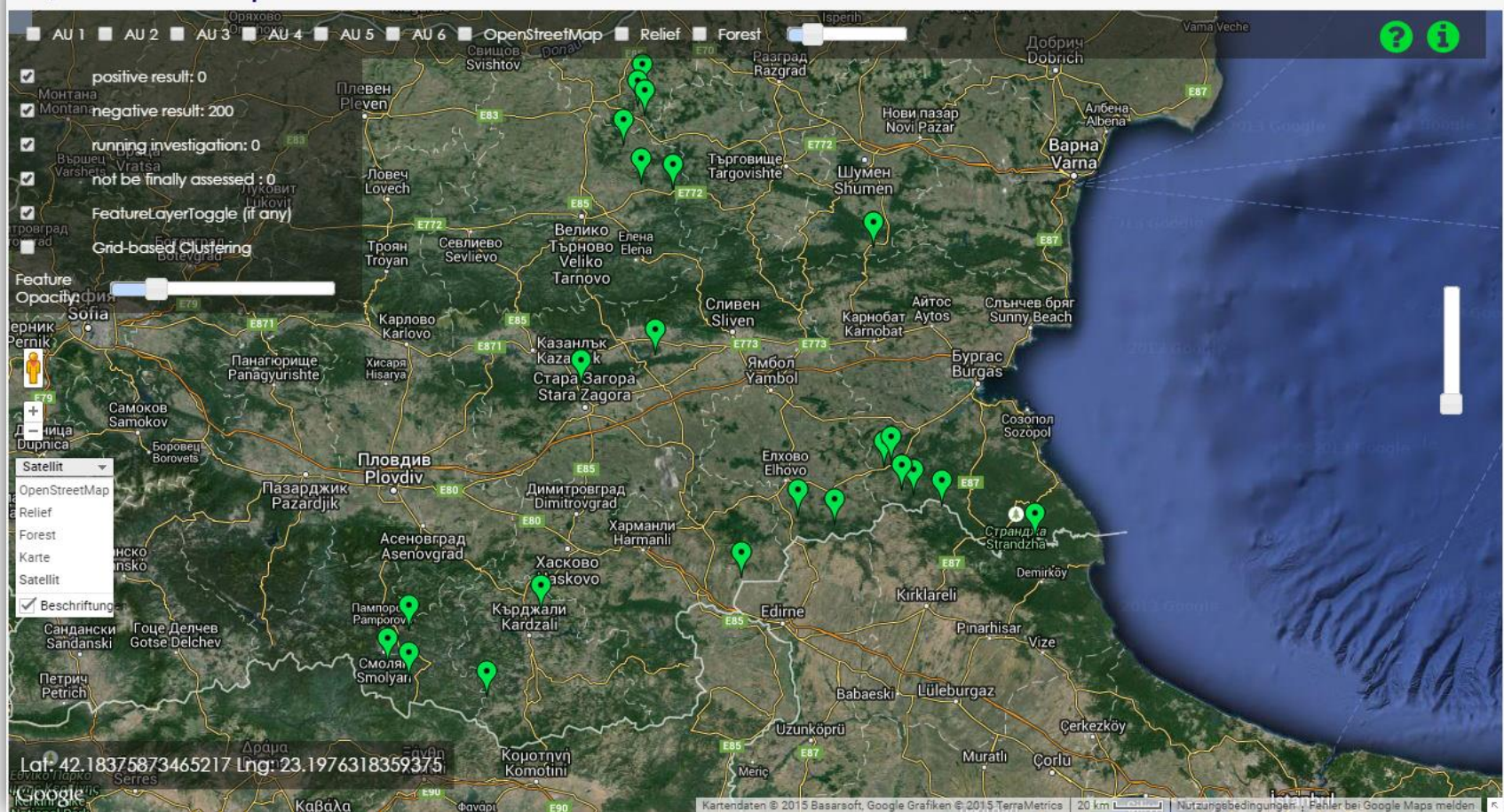


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# Record viewer - Quickmapviewer

CSF / ASF database - Map viewer



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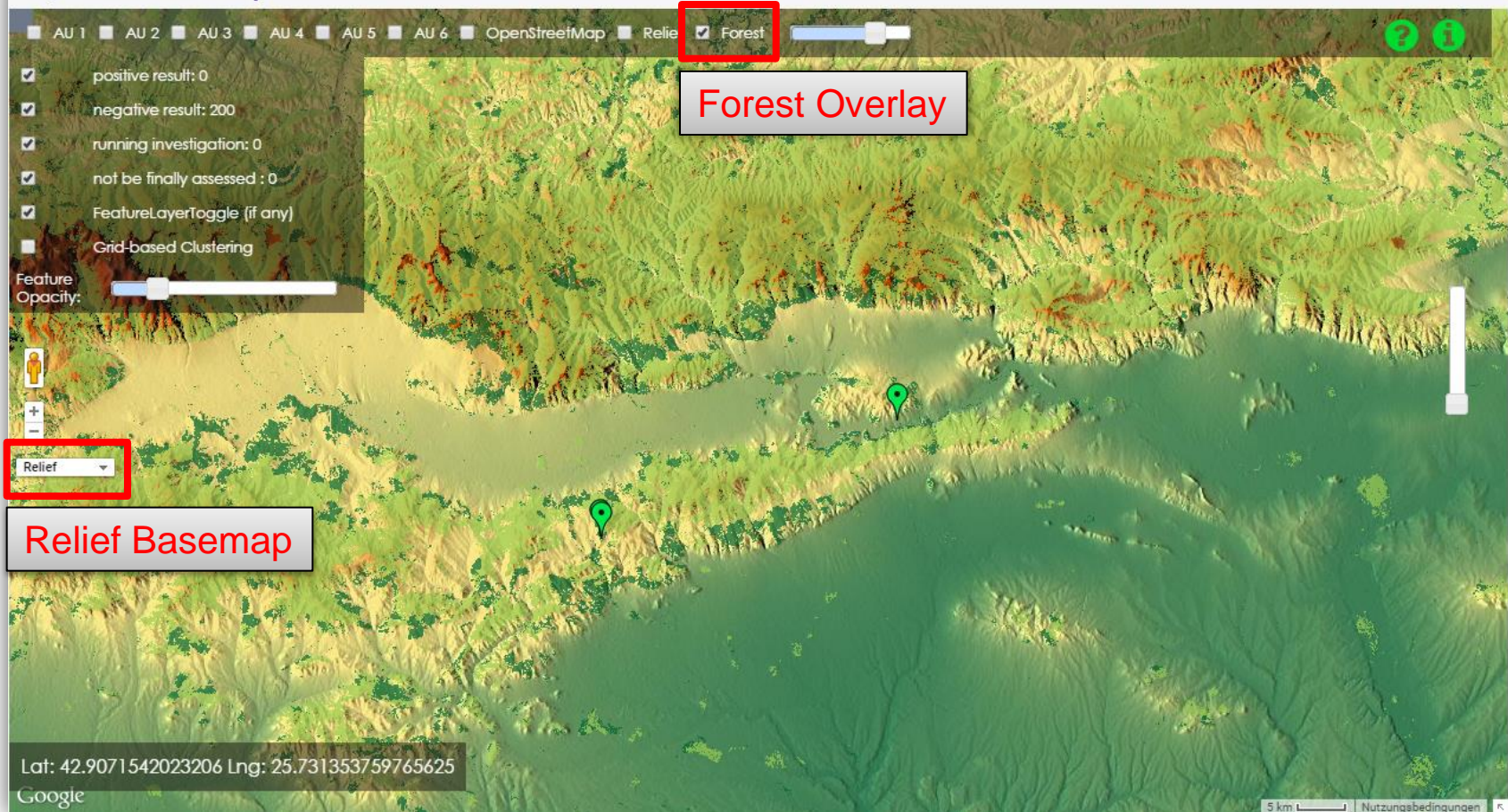
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# Record viewer - Quickmapviewer

CSF / ASF database - Map viewer



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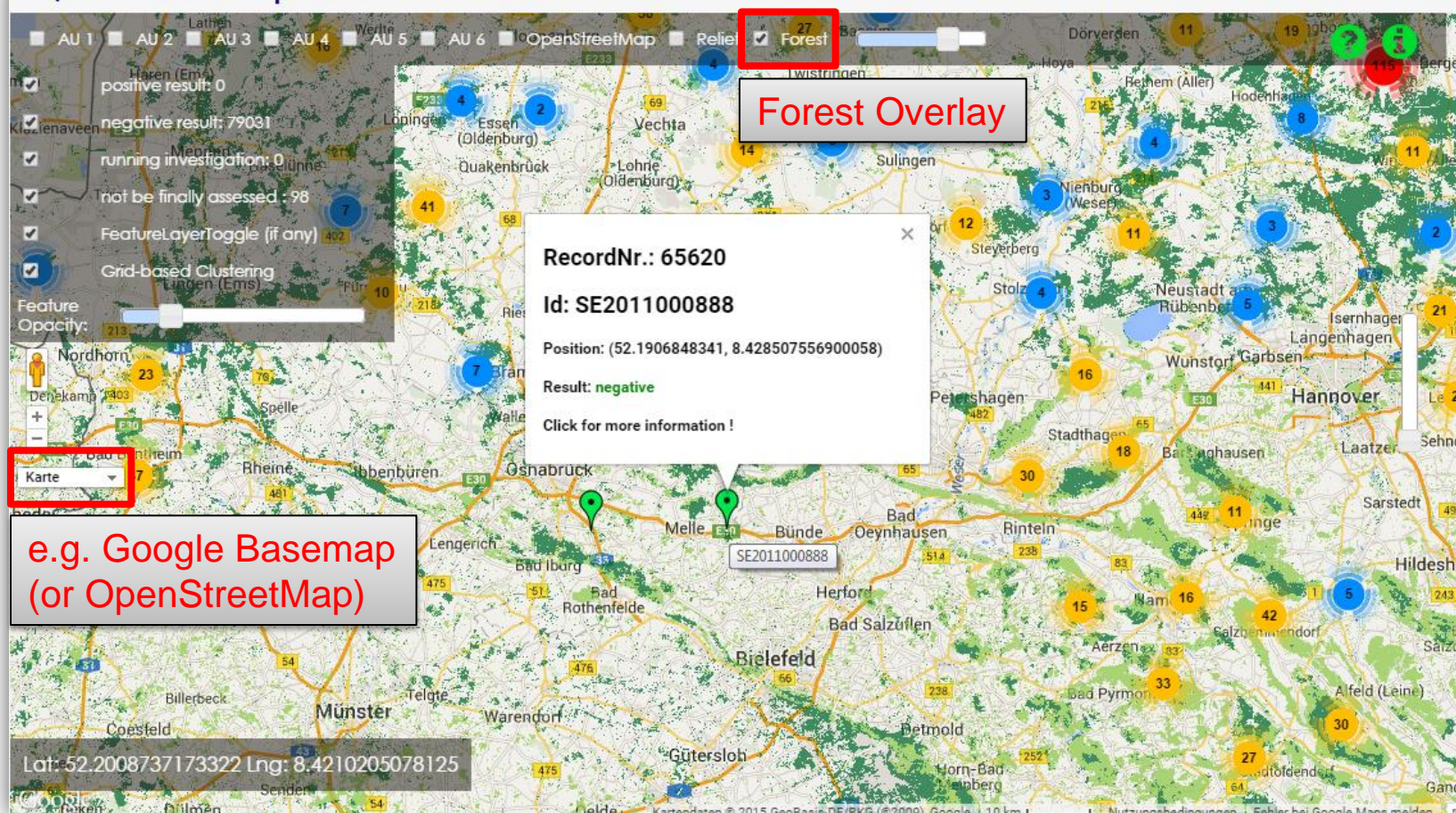
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# Record viewer - Quickmapviewer

CSF / ASF database - Map viewer



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# 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



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# Thank you very much for your attention!



<http://public.csf-wildboar.eu>



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