

GF-TADs for Europe

Seventh Regional Steering Committee meeting (RSC7)

Priority diseases in Europe, including transparency aspects

AFSCA - Brussels - 16-17 October 2017

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CONTENT

1. Priority animal diseases in Europe reported to the OIE

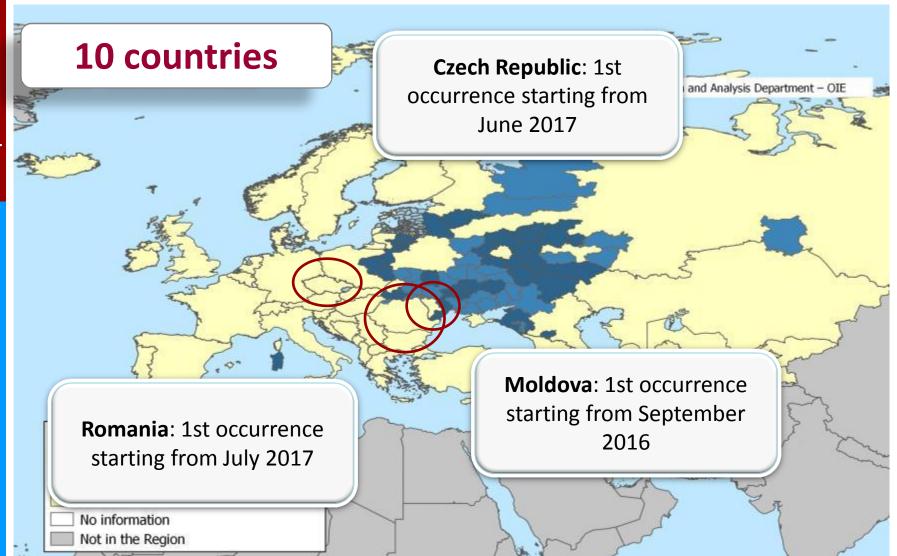
- African swine fever
- Lumpy skin disease
- Infection with influenza A viruses of high pathogenicity
- Infection with foot and mouth disease virus
- Infection with peste des petits ruminants virus
- Infection with classical swine fever virus
- Infection with rabies virus
- Infection with *Brucella abortus*, *Brucella melitensis* and *Brucella suis*

2. Transparency and notification

3. WAHIS is becoming WAHIS+

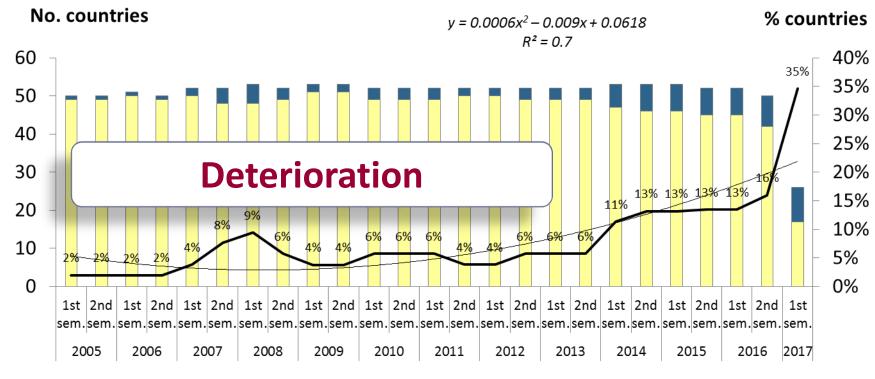
African swine fever

Reported distribution of ASF in 2016 and 2017



Disease trend graph

(data based on reports received up to 15 September 2017)



GF-TADs Europe

- Countries reporting ASF present
- Countries reporting ASF absent

-% Reporting countries affected with ASF

Analysis of WAHIS data



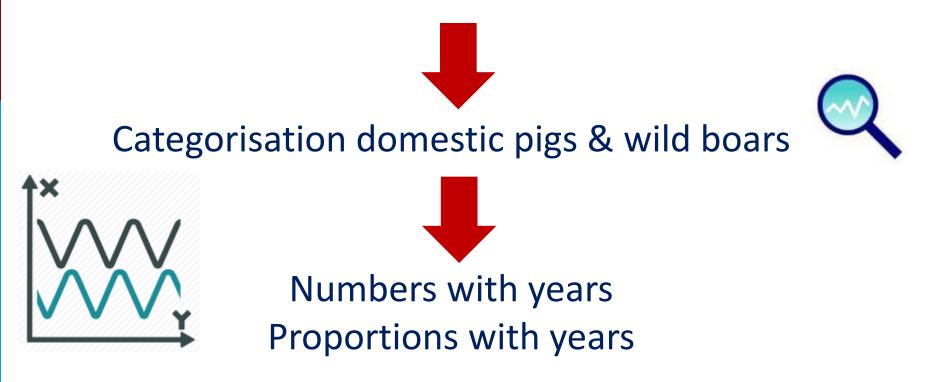
Evolution of proportion of outbreaks notified in domestic pigs vs. wild boars?





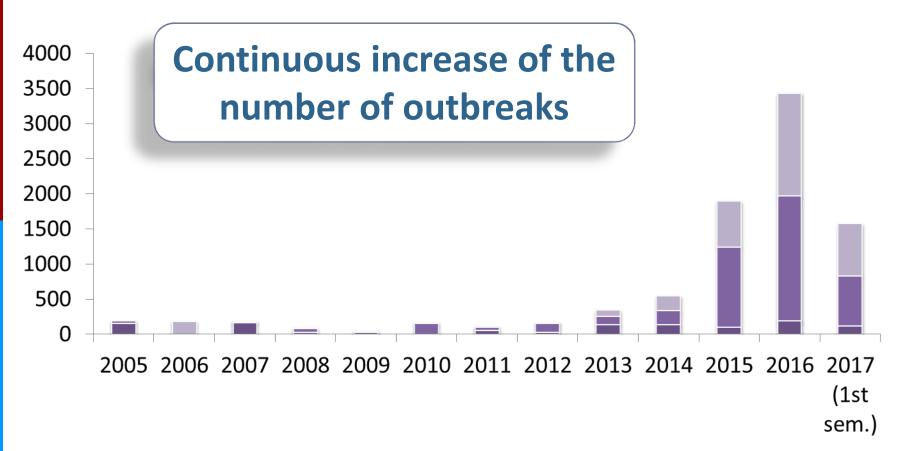
2005-1st sem. 2017

Nearly 9000 outbreaks in reported through WAHIS



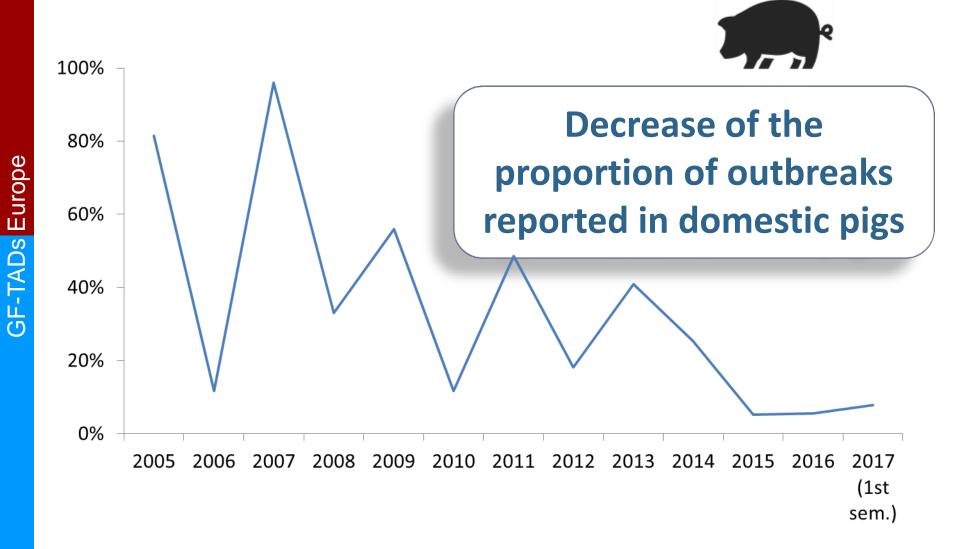
Results (1) – No. outbreaks by category

No. outbreaks



Swine Swine and wild boars Wild boars

Results (2) - % outbreaks reported in domestic pigs only



Chapter 1.1.: Notification of diseases, infections and infestations, and provision of epidemiological information (Article 1.1.3)

Veterinary Authorities shall, under the responsibility of the Delegate, send to the HQ, in accordance with relevant provisions in the disease-specific chapters, notification, through the WAHIS or by fax or email within **24 hours**, of any of the following events:

- **FIRST OCCURRENCE** of a LDII in a country, a zone or a compartment;
- **RECURRENCE** of a LDII in a country, a zone or a compartment...;
- first occurrence of a NEW STRAIN of a pathogenic agent of a LDII in a country, ...;
- a sudden and UNEXPECTED CHANGE in the distrib. or increase in incidence or virulence of, or morbidity or mortality caused by, the pathogenic agent of a LDII pres...
- occurrence of a LDII in an UNUSUAL HOST SPECIES;

WEEKLY REPORTS subsequent to a notification under point 1) above, to provide further information on the evolution of the event which justified the notification. These reports should continue until the *DII* **HAS BEEN ERADICATED OR THE SITUATION HAS BECOME SUFFICIENTLY STABLE** so that **six-monthly** reporting under point 3) will satisfy the obligation of the Member Country; for each event notified, a final report should be submitted;

Country	Outbreaks in on-going events	
Czech Republic	114	
Latvia	697	
Poland	630	
Romania	2	
Russia	598	
Ukraine	127	
Estonia	1052 (sufficiently stable in April 2016)	
Lithuania	821 (sufficiently stable in September 2017)	

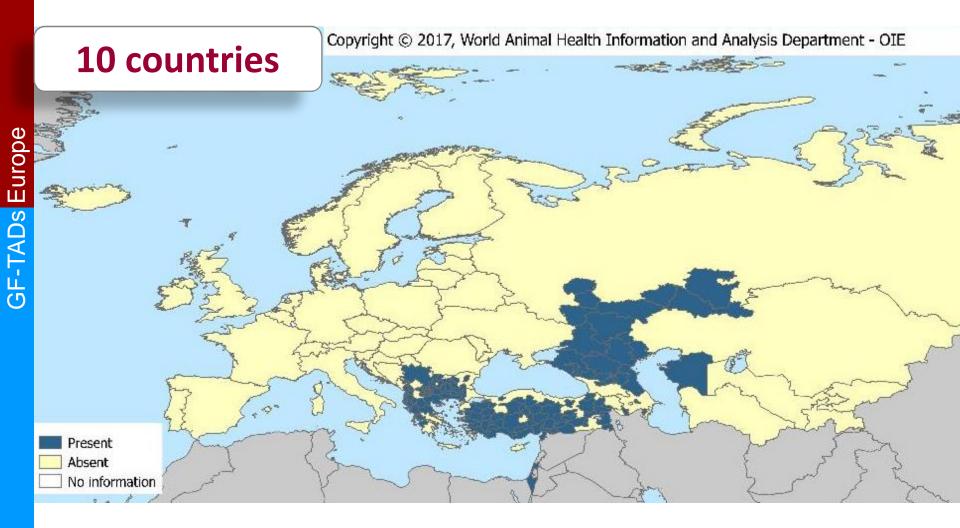
When the situation is consider sufficiently stable, no more follow-up reports will be sent through WAHIS and the information about this disease will be included in the next six-monthly reports.

Conclusions

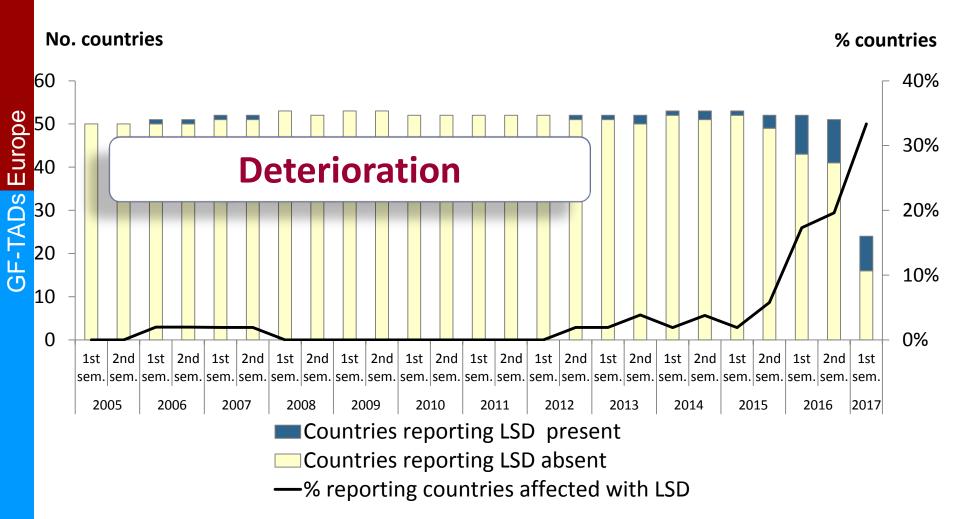
- Deterioration of the situation related to the number of countries affected
- Increased number of outbreaks reported trough WAHIS
- Decreased proportion of outbreaks reported in domestic pigs
- In order to facilitate the reporting process, important to consider the diseases sufficiently stable and reporting through six-monthly report

Lumpy skin disease

Reported distribution of LSD in 2016 and early 2017 (data based on reports received up to 15 September 2017)



Disease trend graph



Analysis of WAHIS data



Spread of the disease in the Region since 2005?

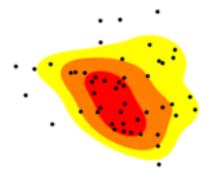


2005-1st sem. 2017

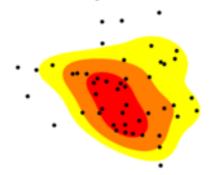


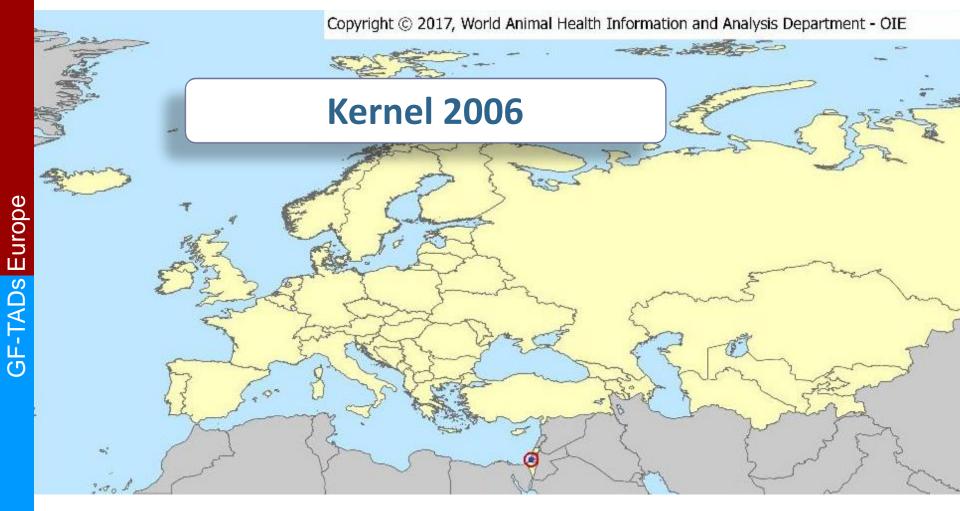
Nearly 2000 outbreaks in reported through WAHIS

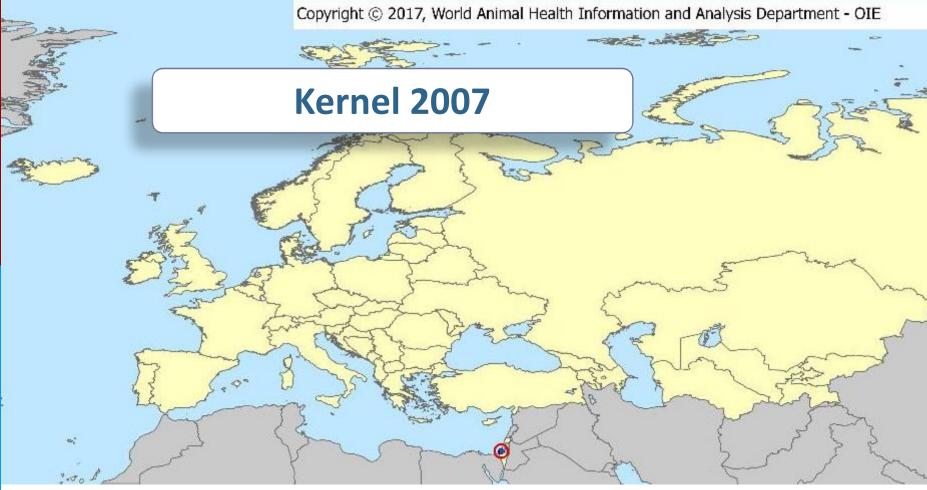
Spatial analysis based on outbreak location

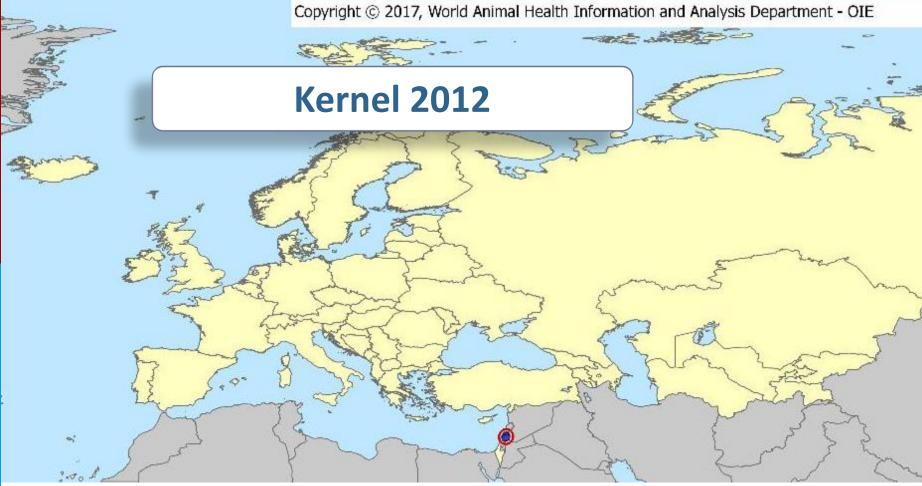


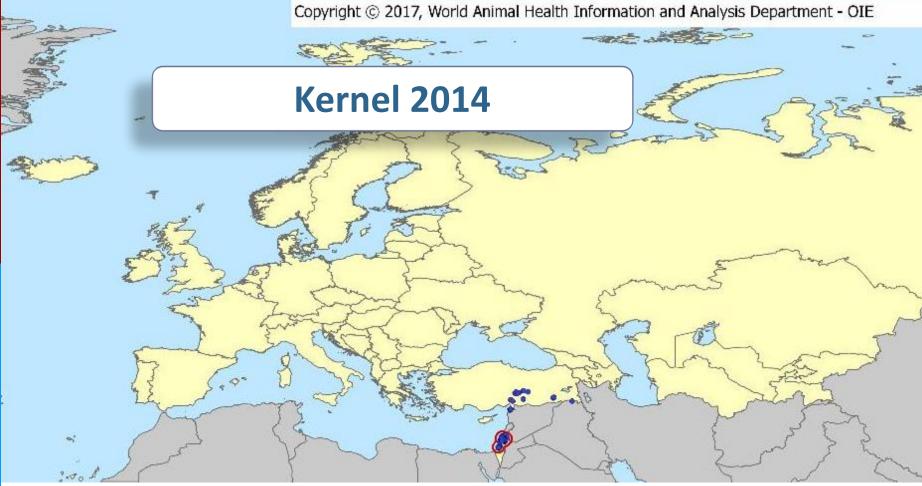
Kernel analysis

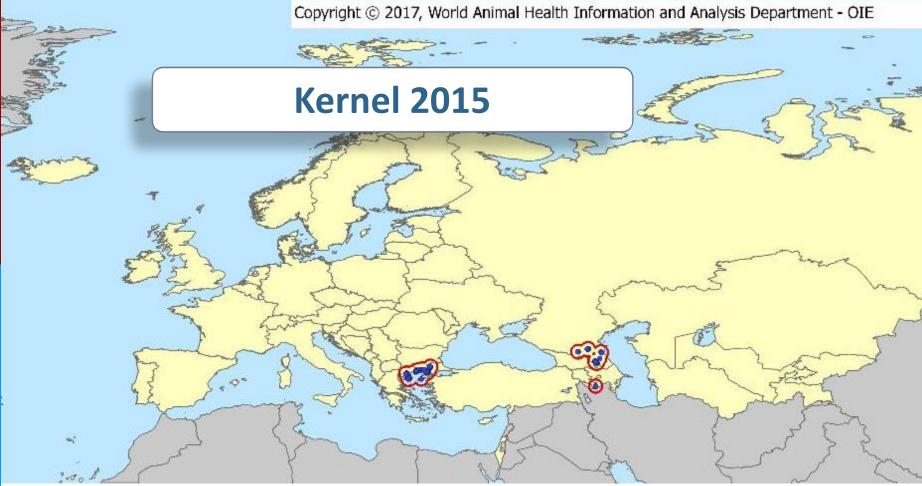


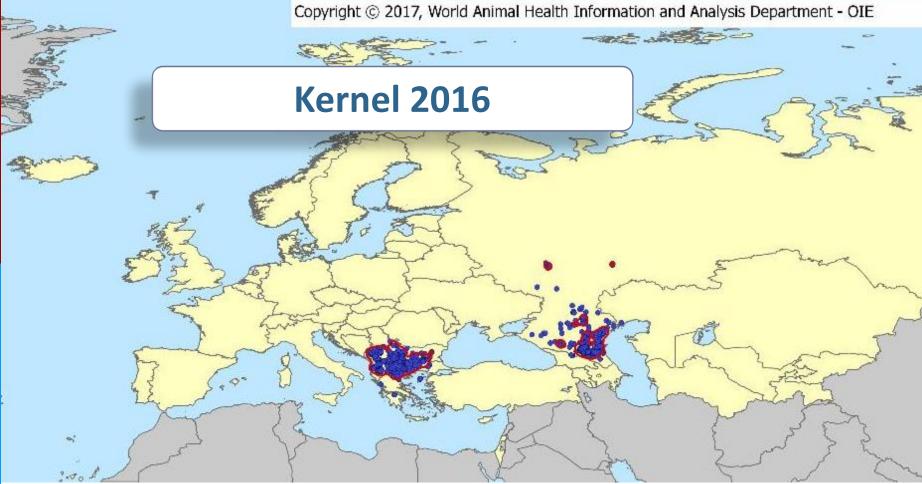


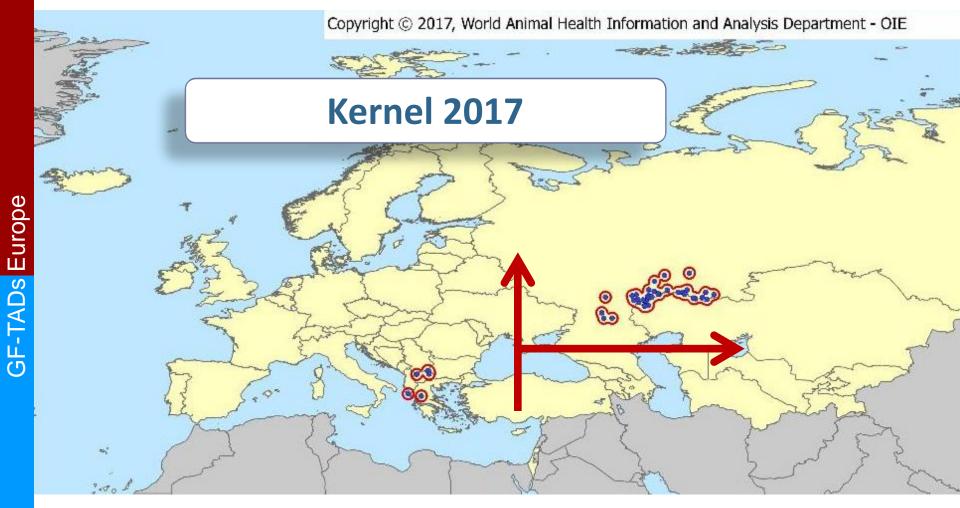






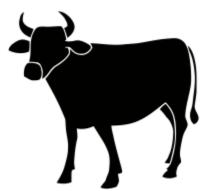






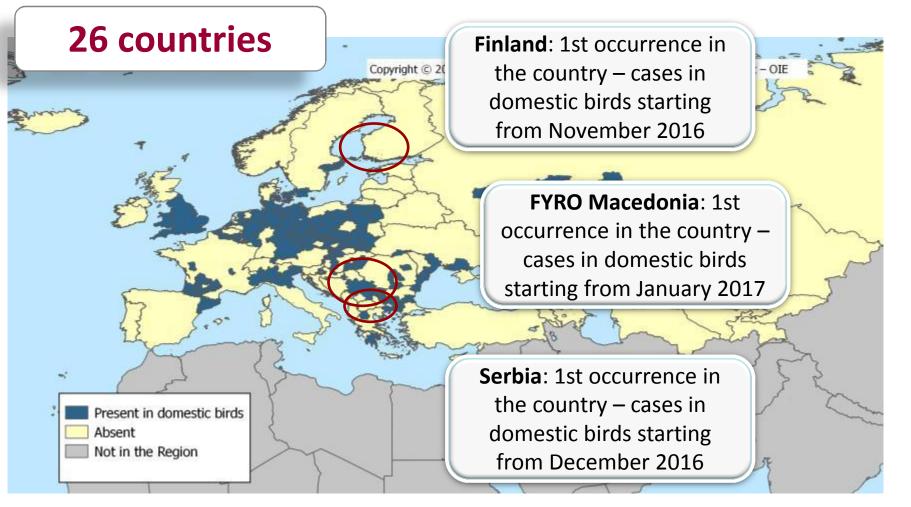


- Deterioration of the epidemiological situation of the Region since 2005
- Disease spread to the north and to the east
- Control measures put in place (vaccination) is stopping the spread in 2017 (EFSA)



Infection with influenza A viruses of high pathogenicity

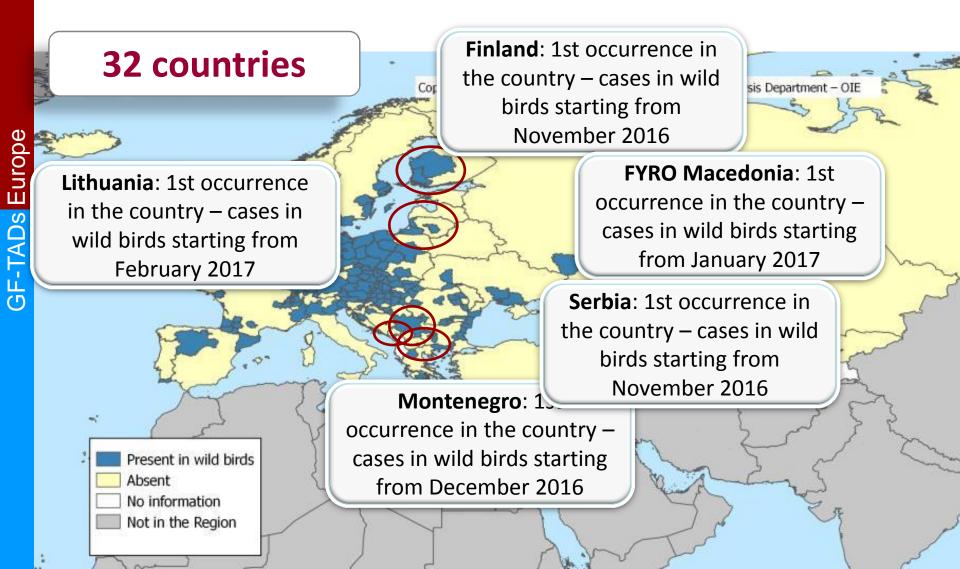
Reported distribution of HPAI in domestic birds in 2016 and 2017



Subtypes - HPAI in domestic birds in 2016 and 2017

Subtype	No. Countries affected
H5	1
H5N1	1
H5N2	1
H5N5	2
H5N6	1
H5N8	25
H5N9	1
H7N7	1

Reported distribution of HPAI in wild birds in 2016 and 2017

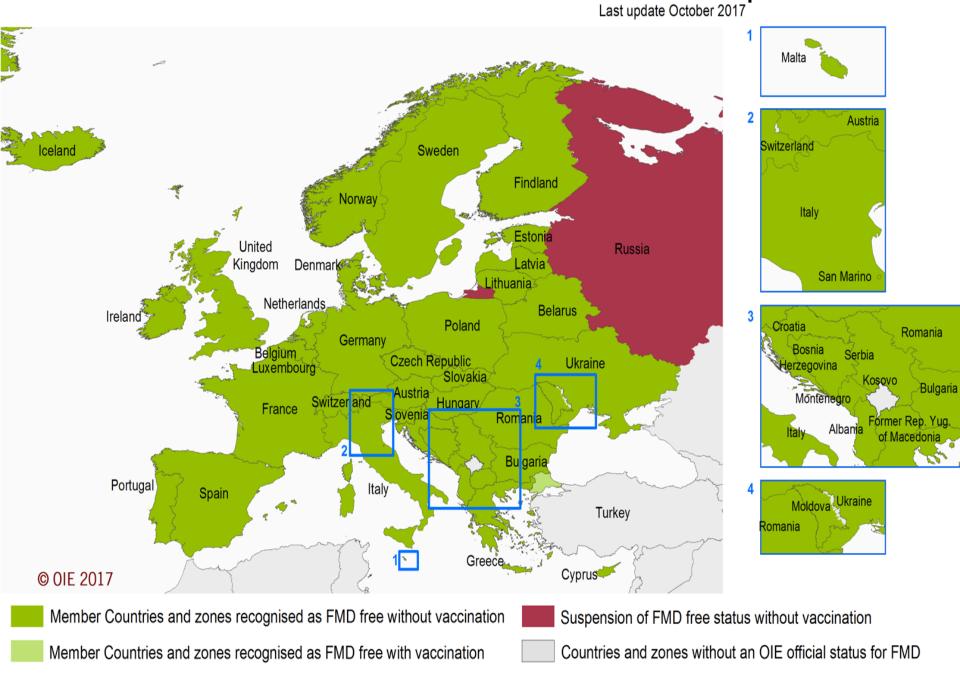


Subtypes - HPAI in wild birds in 2016 and 2017

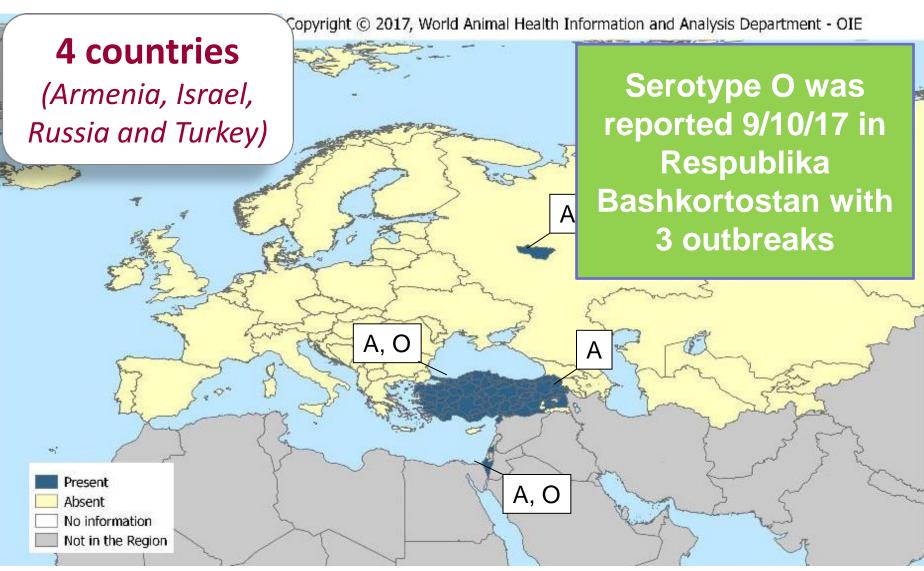
Subtype	No. Countries affected
H5	2
H5N5	10
H5N8	29

Infection with foot and mouth disease virus

EUROPE: OIE Member Countries' official FMD status map



Reported distribution of FMD in 2016 and 2017



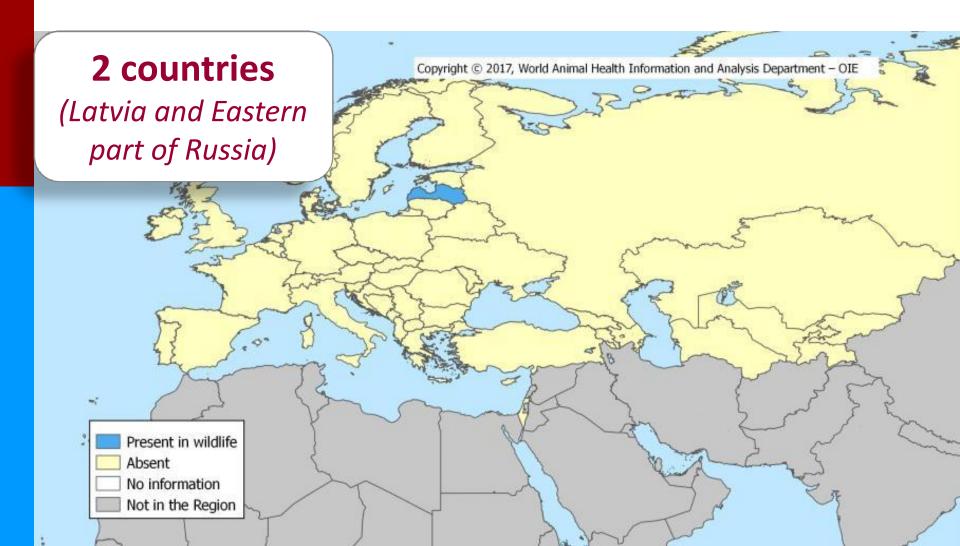
Infection with classical swine fever virus

EUROPE: OIE Member Countries' official CSF status map

Last update May 2017

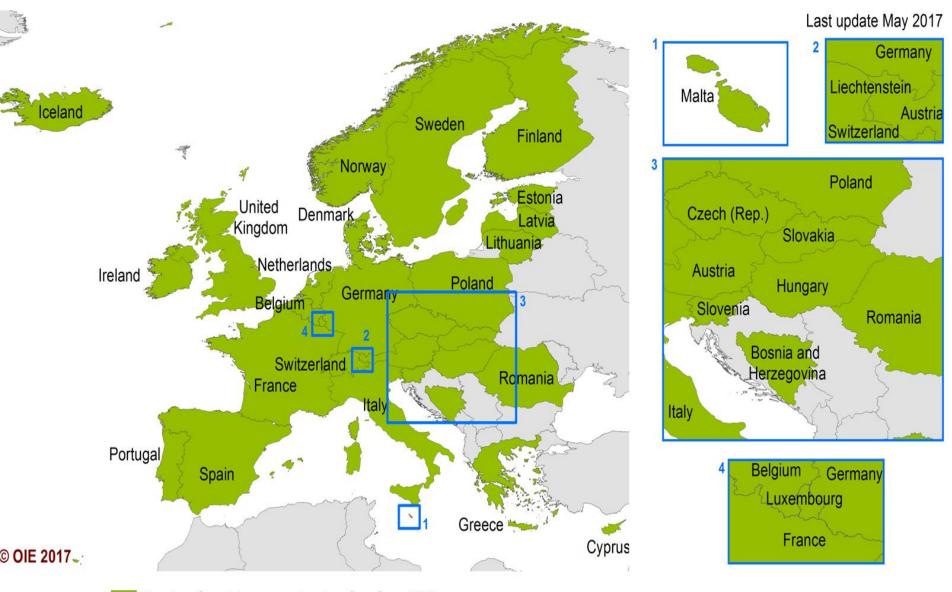


Reported distribution of CSF in 2016 and 2017



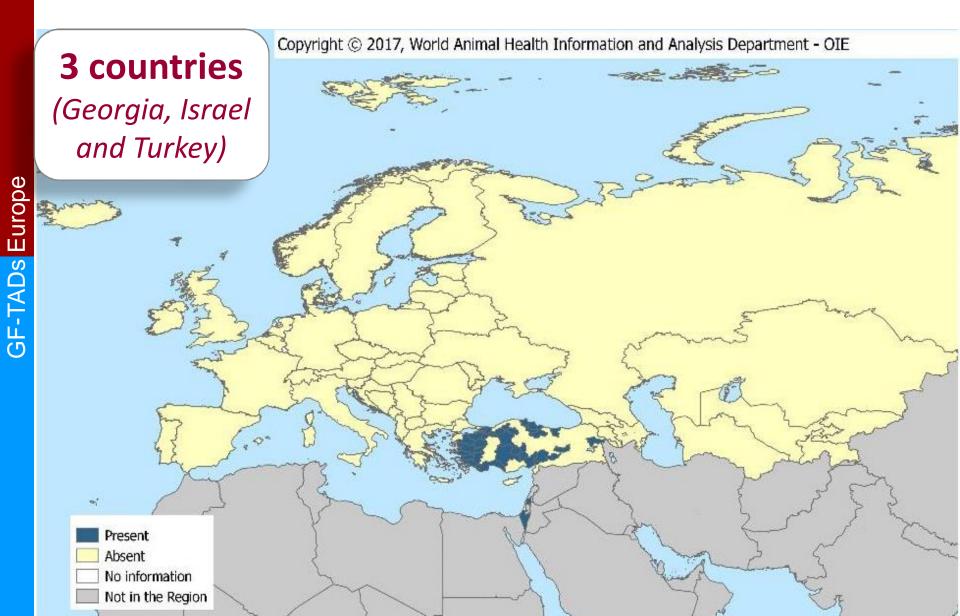
Infection with peste des petits ruminants virus

EUROPE: OIE Member Countries' official PPR status map



Member Countries recognised as free from PPR Countries with no OIE official status for PPR

Reported distribution of PPR in 2016 and 2017



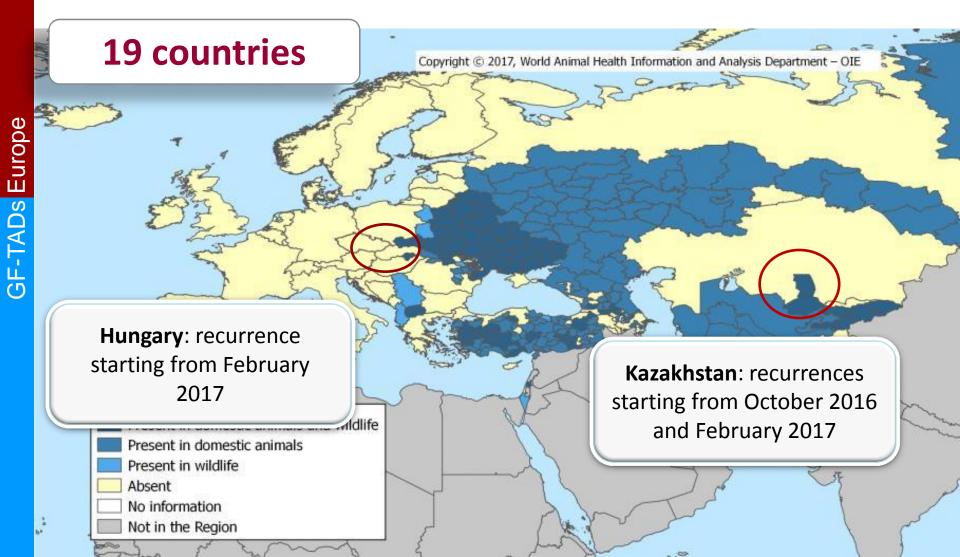


- More than 3000 deaths in Mongolian Saigas (critically endangered)
- Reinforces the need to investigate the role of wildlife in PPR epidemiology



Infection with rabies virus

Reported distribution of rabies in 2016 and 2017



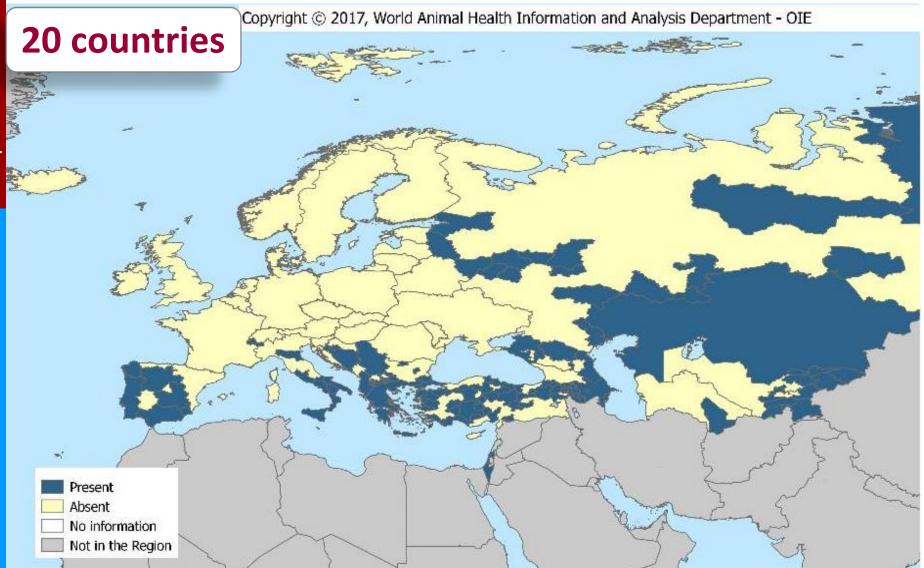
Infection with *Br. abortus, Br. melitensis* and *Br. suis*

Reported distribution of *B. abortus* in 2016 and 2017

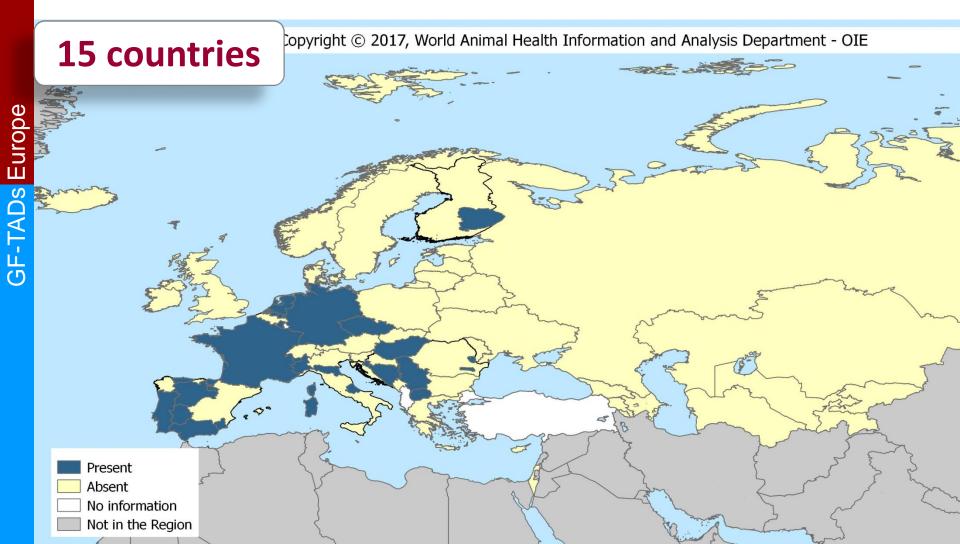
(data based on reports received up to 15 September 2017)

Copyright © 2017, World Animal Health Information and Analysis Department - OIE **18 countries** Present Absent No information Not in the Region

Reported distribution of *B. melitensis* in 2016 and 2017



Reported distribution of *B. suis* in 2016 and 2017



GF-TADs Europe

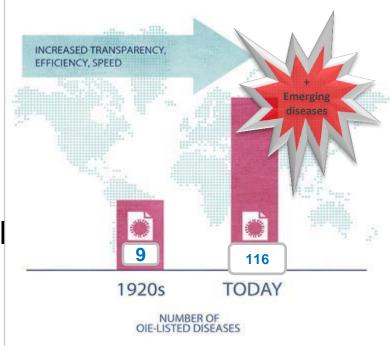
Transparency and notification

General mandate of the OIE

General mandate of the OIE: to improve animal health worldwide

One of the OIE's main objectives

To ensure **transparency** in the global animal disease situation, including zoonosis.

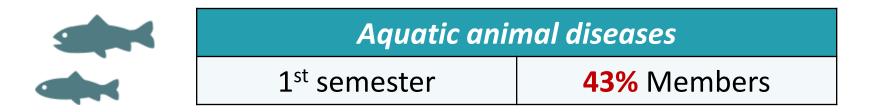


Notification in Europe in 2017

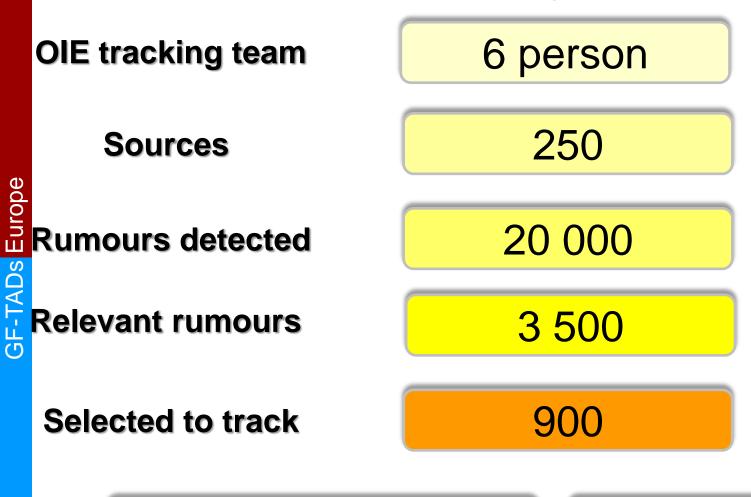
• 127 immediate notifications submitted until 11 October 2017 by European countries.

• Six-monthly reports for 2017 submitted on :





Rumours tracking activity: improvement of WAHIS sensitivity

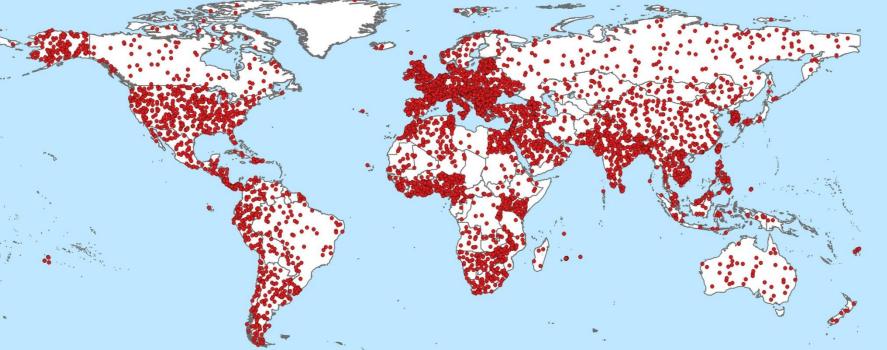


130 (Early Warning)



Geographical tracking coverage





Rumours detected in 167 countries

Evaluation of WAHIS sensitivity: early warning index Regional approach

Sha Co

	Higher disease reporting
Region	Higher disease reporting probability for Europe
Africa	(χ2= 4.72, p-value< 0.05, odds
Americas	ratio = 2.83) +8%
Asia, Far East and Oceania	+8%
Europe	+4%
Middle East	+25%
All Regions	+8%

This index estimates the increase of sensitivity due to tracking

GF-TADs Europe

WAHIS+

Stakeholder engagement and consultation

Identification of users` needs



Extensive stakeholders engagement and participation



WAHIS is becoming WAHIS+ Development of a quicker and more intuitive system with new features

Extended data mining

Customisable data queries



Enhanced mapping features and displays

Genomic data linked to epidemiological information

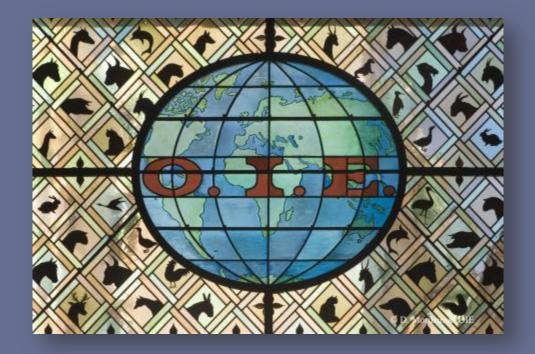
Integration with other databases and platforms (ADIS)



Be part of the revolution in global animal health data



Thank you for your attention



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