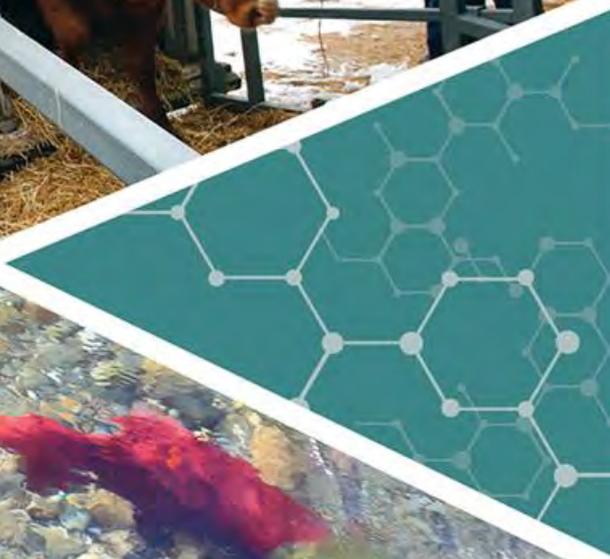




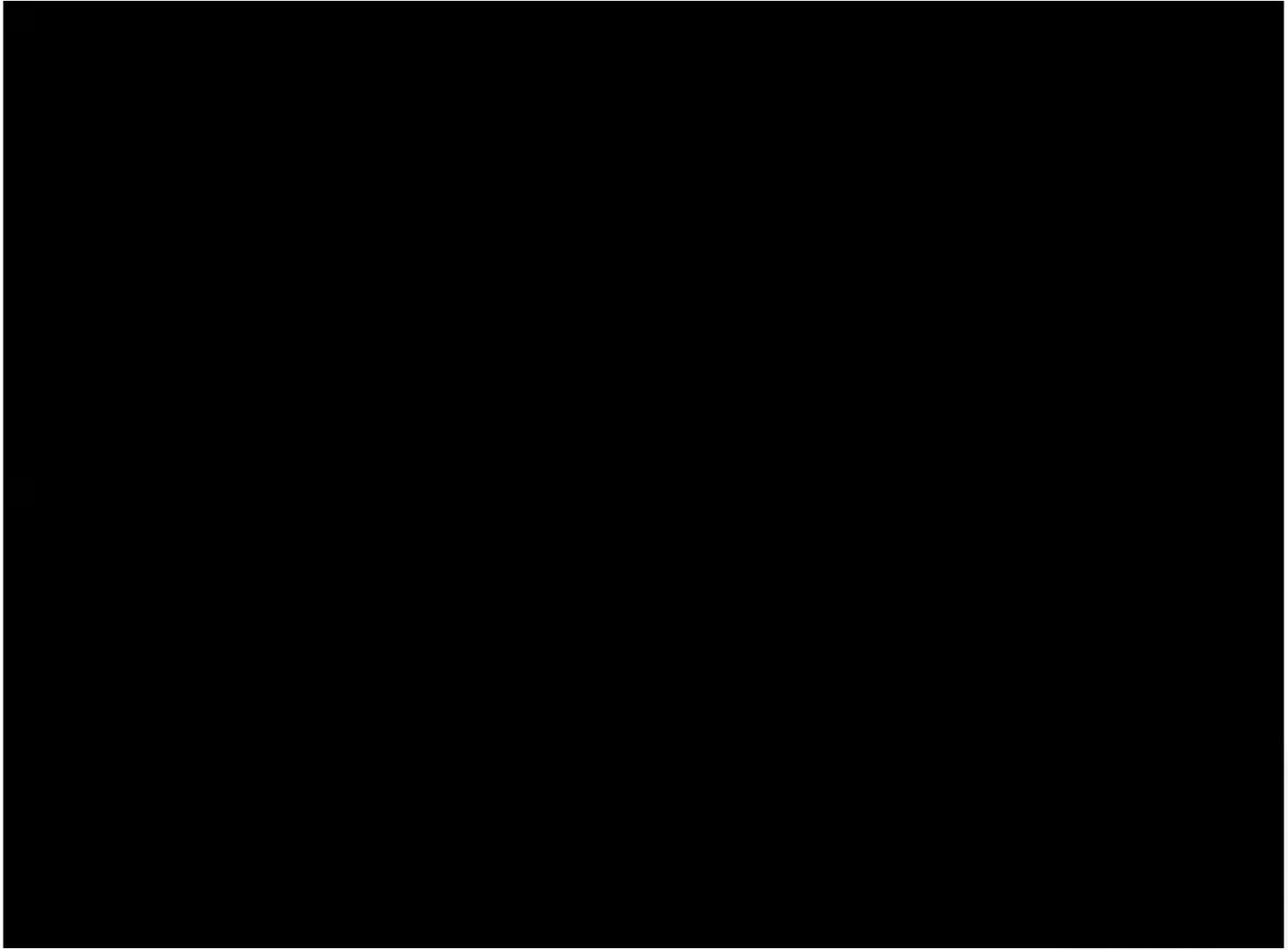
# African Swine Fever Diagnosis and Sampling

A review



# Presentation Outline

1. Why are we concerned?
2. Disease Recognition – Clinical and Pathological presentation.
3. ASF Diagnostic Sampling – What samples to take and how many?

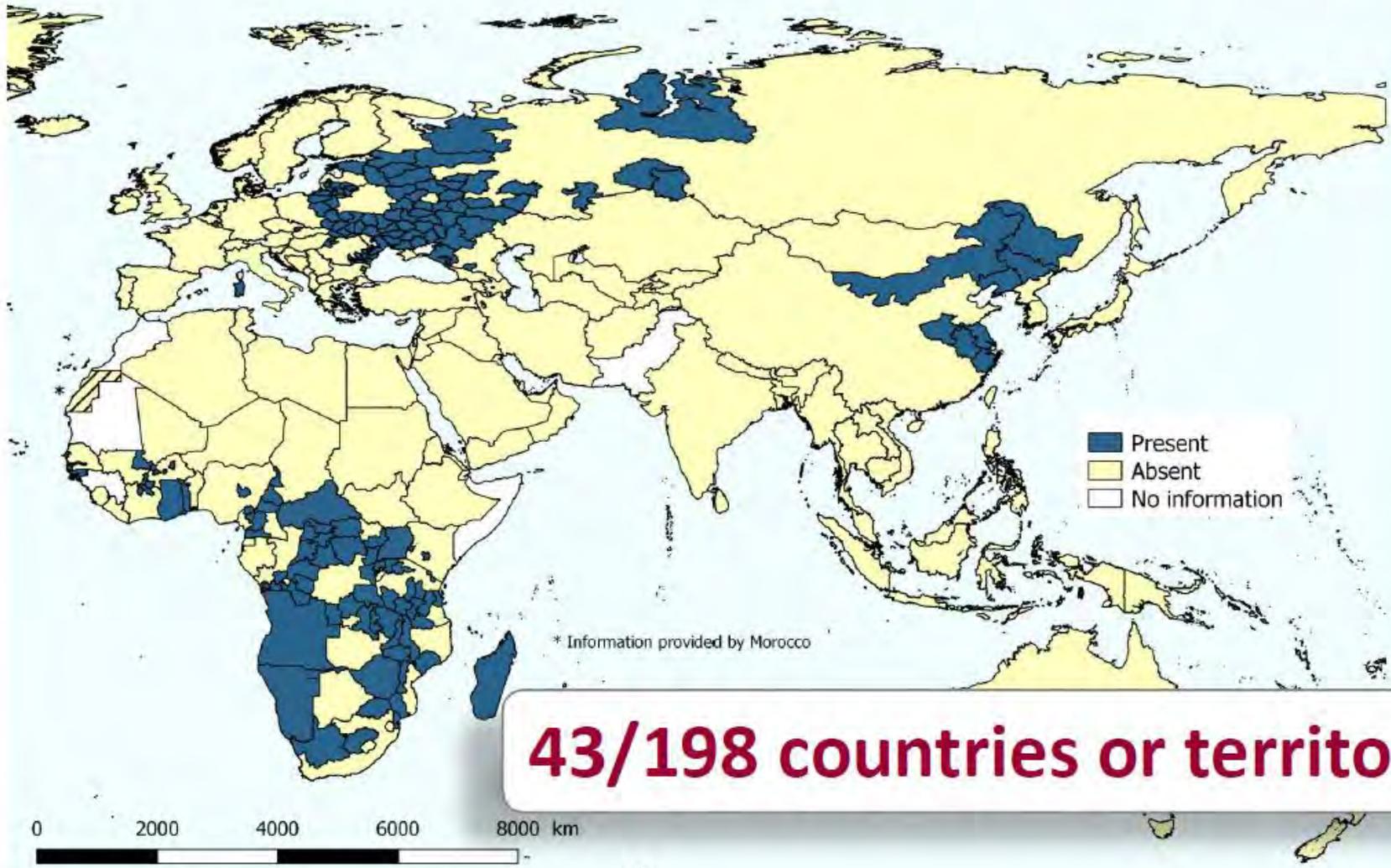


# Quick history of ASF

- First identified in Kenya in the 1920s;
- Spread to Europe in the middle of the last century, and later to South America and the Caribbean;
- Disease eradicated from America in the 1980's and from Europe (except of Sardinia) in the 1990's;
- In 2007, the disease spread again out of Africa, into the Caucasus (Georgia) and spread to other European countries;
- In August 2018 first occurrence in China.

# Global Situation 2016 - 2018

Copyright © 2018, World Animal Health Information and Analysis Department – OIE



# Spatial distribution of outbreaks in Europe 2007 -2018 vs 2017 - 2018

**2007-2018**

**6,700 outbreaks  
Wild boars**

**1,400 outbreaks  
Backyard pigs**

**400 outbreaks  
Commercial pigs**

**2017-2018**

**4,000 outbreaks  
Wild boars**

**1,000 outbreaks  
Backyard pigs**

**250 outbreaks  
Commercial pigs**

# Distribution of ASF in Members of the OIE Regional Commission for Europe in 2017 and 2018

Copyright © 2018, World Animal Health Information and Analysis Department - OIE

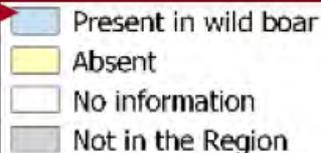
First occurrence in  
Czech Rep. in June 2017

First occurrence in  
Hungary in April 2018

First occurrence in  
Romania in July 2017

Recurrence in Belgium  
in September 2018

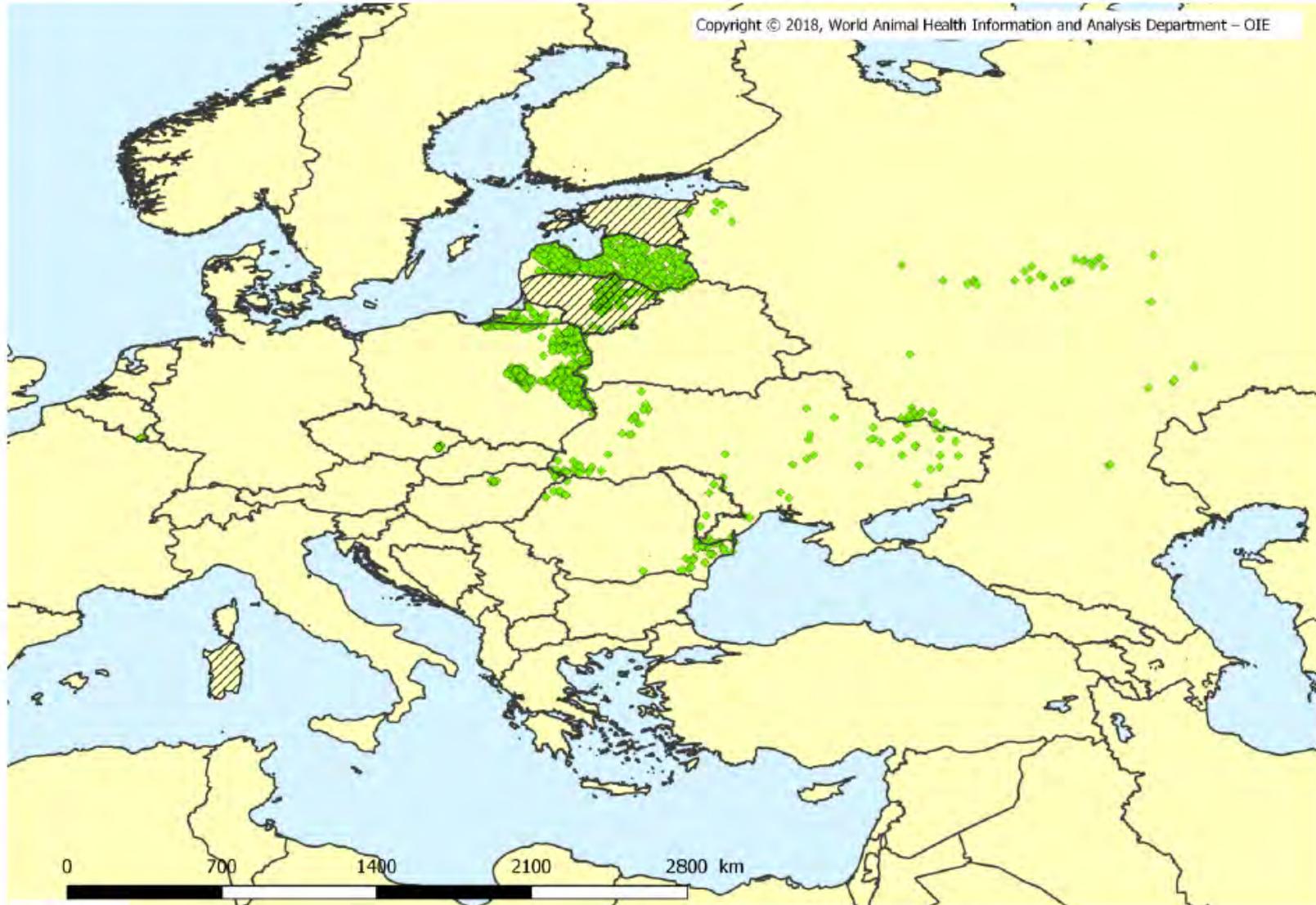
First occurrence in  
Bulgaria in August 2018

 Present in wild boar  
Absent  
No information  
Not in the Region

**13/53 countries**

7

# Role of Wild Boar



## Outbreaks in wild boar 2018

(Reported from January the 1<sup>st</sup> to October 4, 2018)

# ASF in China (01/08/2018 – 04/10/2018)

Provinces	N. outbreaks	Susceptible	Cases	Deaths	Destroyed
Anhui	8	2 679	706	380	2 299
Heilongjiang	2	290	65	22	268
Henan	2	3 893	178	94	3 799
Inner Mongolia	4	922	57	48	874
Jiangsu	2	14 783	627	97	14 686
Jilin	2	528	64	59	469
Liaoning	13	35 908	670	413	35 545
Zhejiang	1	1 864	430	340	1 524
<b>Grand Total</b>	<b>34</b>	<b>60 867</b>	<b>2 797</b>	<b>1 453</b>	<b>59 464</b>

(From August the 1<sup>st</sup> to October the 4<sup>th</sup>, 2018)



**First Occurrence  
August 1 2018**



# Why are we concerned ?

- Deteriorating ASF situation global has increased the risk to Canadian Swine sector.
- In Europe most of the outbreaks have been reported in wildlife. Outbreaks in domestic animals for the most part have been in backyard pigs and smaller commercial herds.
- In Asia no wildlife cases have been notified and most outbreaks have occurred in Commercial farms.
- Disease spread has been significantly different in Europe and Asia (Europe 30 km/ bi-week vs China 771 km/bi-week)
- This likely indicates the method of spread and the low level of biosecurity on farms in China.