

**OIE**  
**#86**  
**SG**

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# **CURRENT ANIMAL HEALTH SITUATION WORLDWIDE: ANALYSIS OF EVENTS AND TRENDS**

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## 1. Global situation regarding four terrestrial OIE-listed diseases and infections currently subject to global control or eradication efforts

- Infection with foot and mouth disease (FMD) virus
- Infection with peste des petits ruminants (PPR) virus
- Infection with rabies virus in dogs
- Bovine tuberculosis (Infection with *Mycobacterium bovis*)

## 2. Global situation regarding four other diseases and infections of major interest

- Infection with influenza A viruses of high pathogenicity in birds
- African swine fever
- Lumpy skin disease
- Tilapia lake virus disease, an emerging disease in aquatic animals

## 3. Update on the WAHIS renovation project (WAHIS+)

## Members having submitted their six monthly report on **terrestrial animal** diseases

As of 6 May 2018:

- **92%** (167/181) the 1<sup>st</sup> semester of 2017
- **81%** (147/181) for the 2<sup>nd</sup> semester of 2017



> **350** INs & **2,100** FURs for 2017 and early 2018

## Members having submitted their six monthly report on aquatic animal diseases

As of 6 May 2018:

- **63%** (115/181) the 1<sup>st</sup> semester of 2017
- **56%** (102/181) for the 2<sup>nd</sup> semester of 2017



≈ **30** INs & **75** FURs for 2017 and early 2018

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# Chapter I

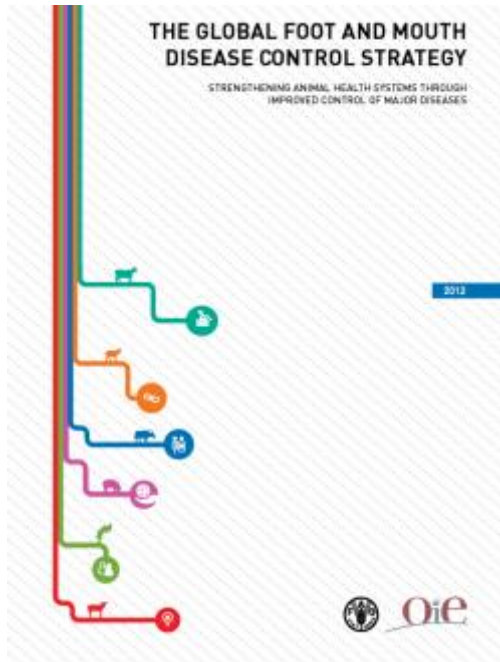


**Global situation regarding four terrestrial OIE-listed diseases currently subject to global control or eradication efforts**

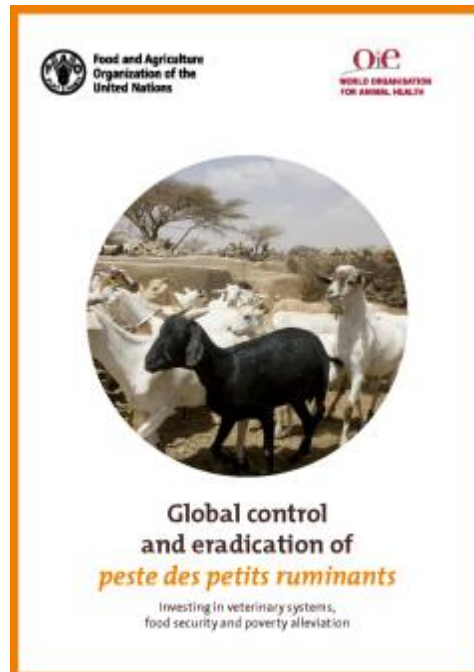


# Global control and eradication programmes are in place for 4 terrestrial OIE-listed diseases.

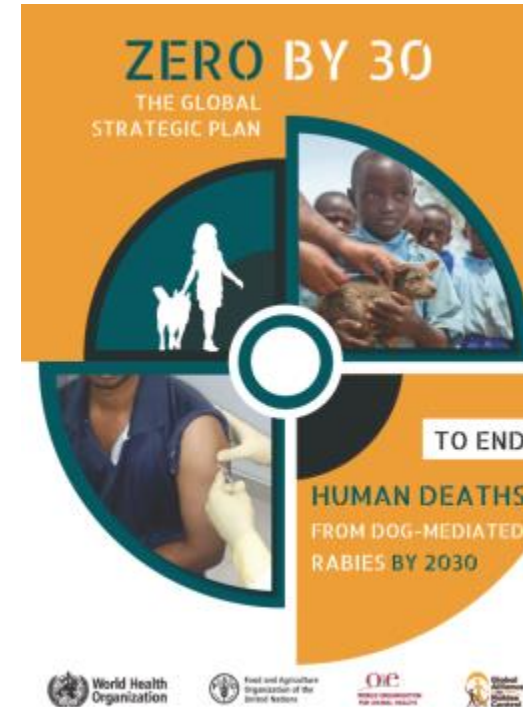
## FMD (2012)



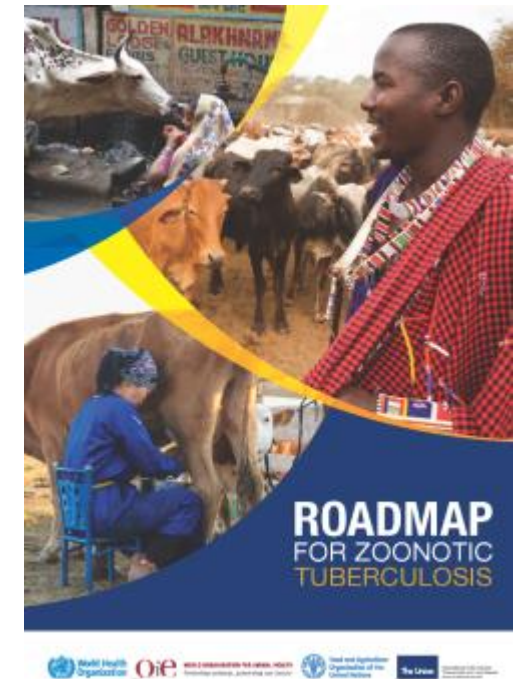
## PPR (2015)



## Rabies (2017)



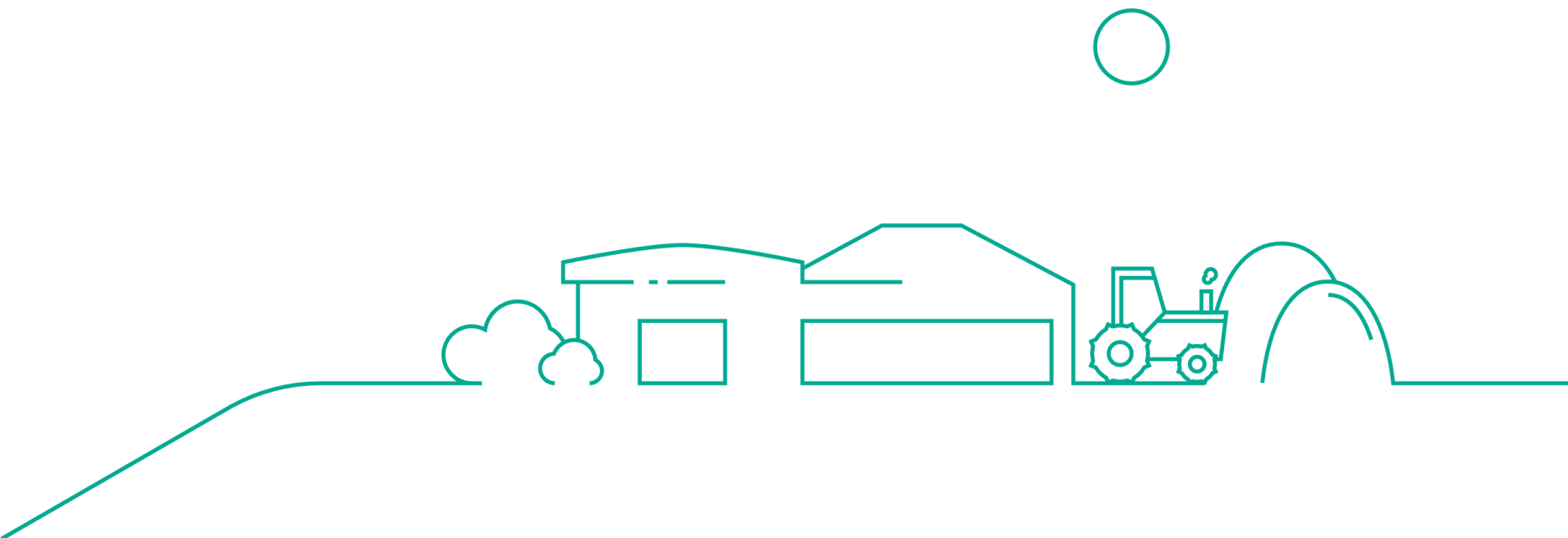
## Bovine TB (2017)





**What are the global situations of the four diseases like?**

**How have countries been implementing the relevant prevention and control measures?**



# Infection with foot and mouth disease virus (FMD)

# FMD distribution in 2017 and early 2018

## Global distribution

*(data based on reports received up to 6 May 2018)*

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**63 countries / territories**

Present  
 Absent  
 No information

**44**

Immediate  
Notifications

*\* Data provided by Morocco*

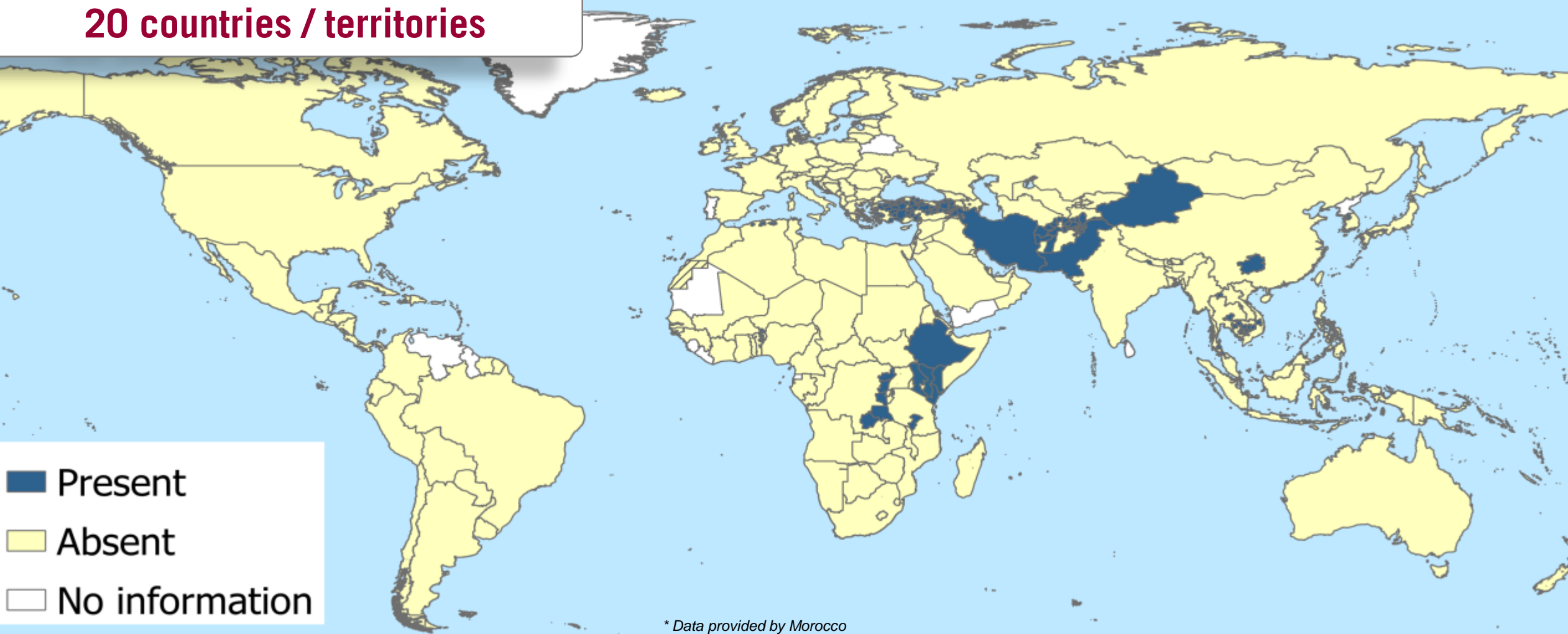
# FMD distribution in 2017 and early 2018

## Serotype A

*(data based on reports received up to 6 May 2018)*

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**20 countries / territories**



\* Data provided by Morocco

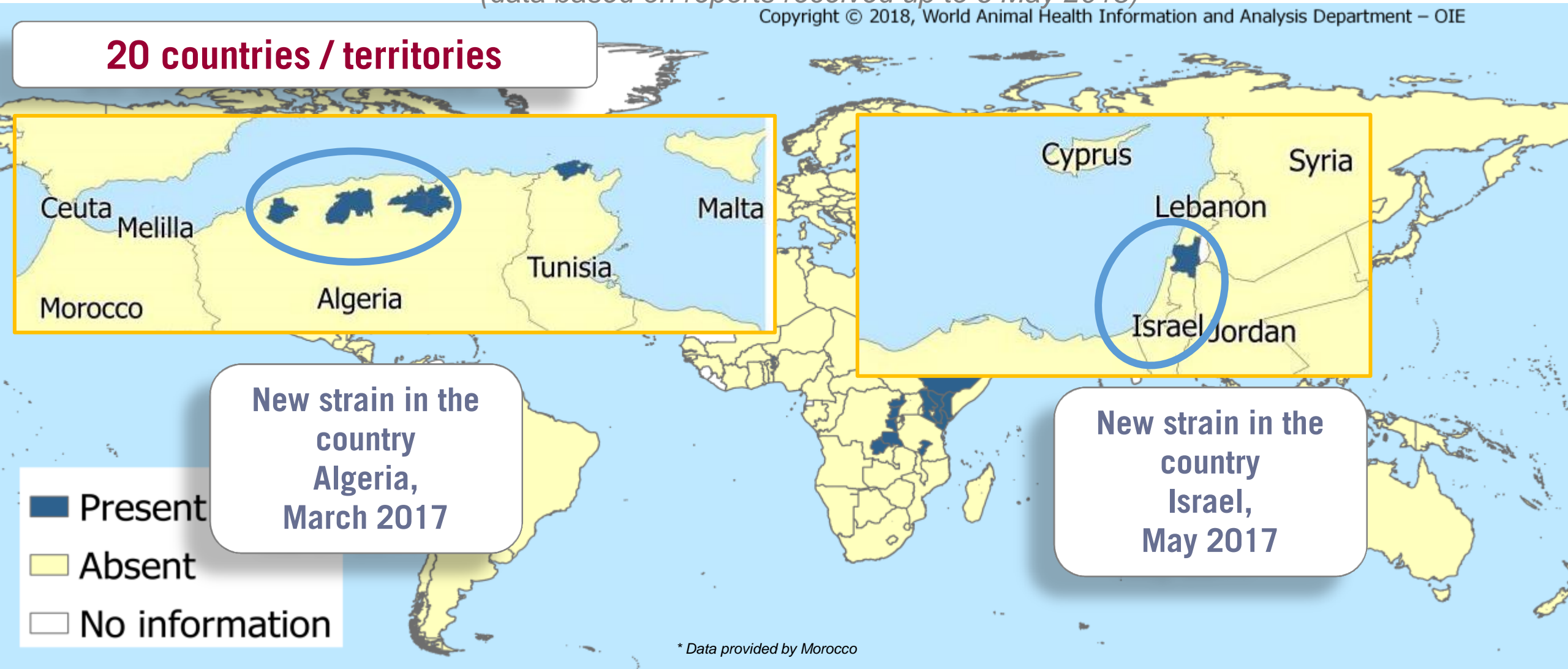
# FMD distribution in 2017 and early 2018

## Serotype A

(data based on reports received up to 6 May 2018)

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**20 countries / territories**



# FMD distribution in 2017 and early 2018

## Serotype A

*(data based on reports received up to 6 May 2018)*

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**20 countries / territories**



\* Data provided by Morocco

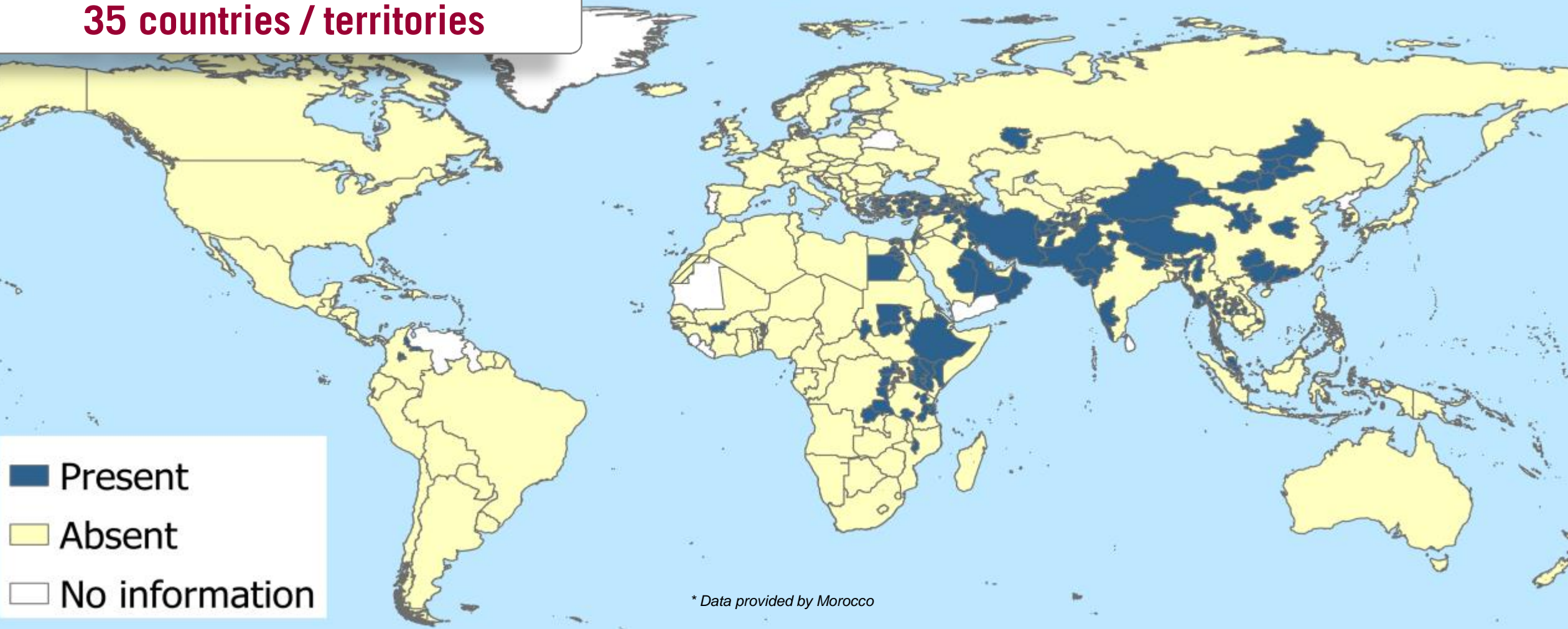
# FMD distribution in 2017 and early 2018

## Serotype O

*(data based on reports received up to 6 May 2018)*

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**35 countries / territories**



■ Present  
■ Absent  
□ No information

\* Data provided by Morocco

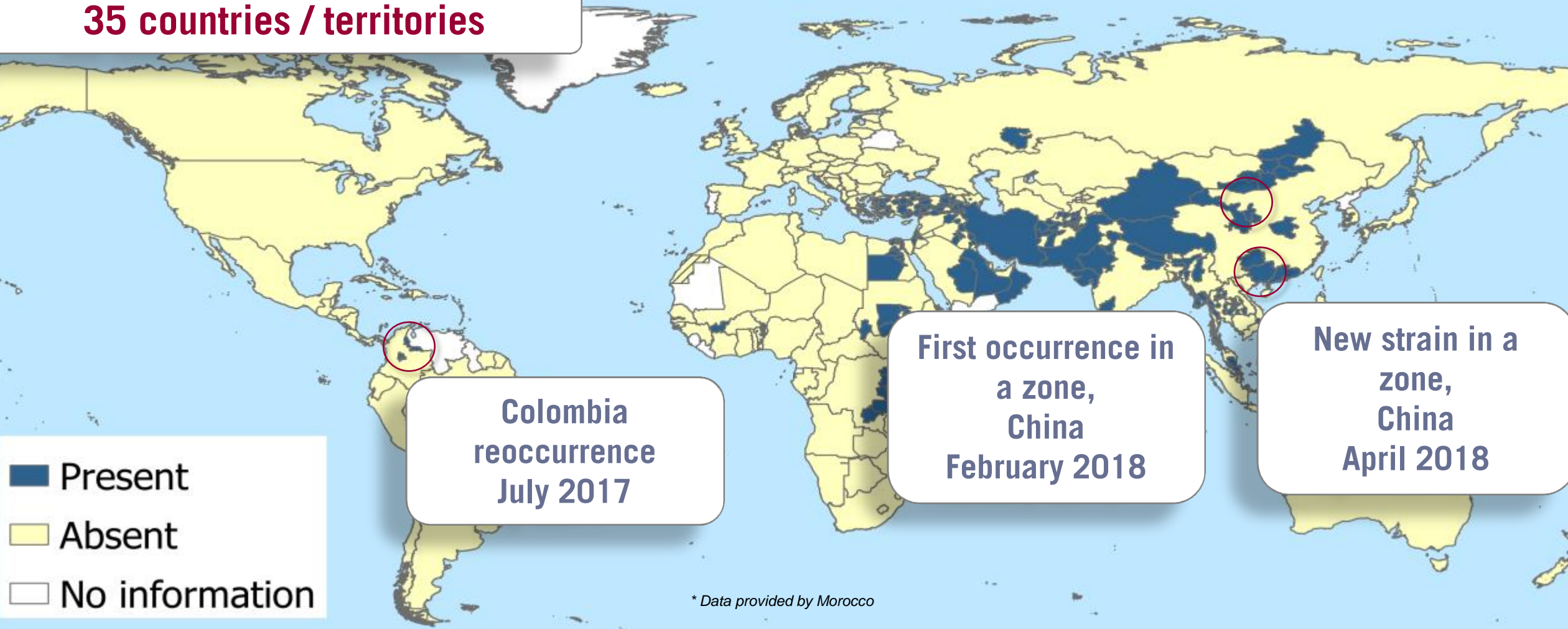
# FMD distribution in 2017 and early 2018

## Serotype O

*(data based on reports received up to 6 May 2018)*

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**35 countries / territories**



**Colombia  
reoccurrence  
July 2017**

**First occurrence in  
a zone,  
China  
February 2018**

**New strain in a  
zone,  
China  
April 2018**

■ Present

■ Absent

□ No information

\* Data provided by Morocco

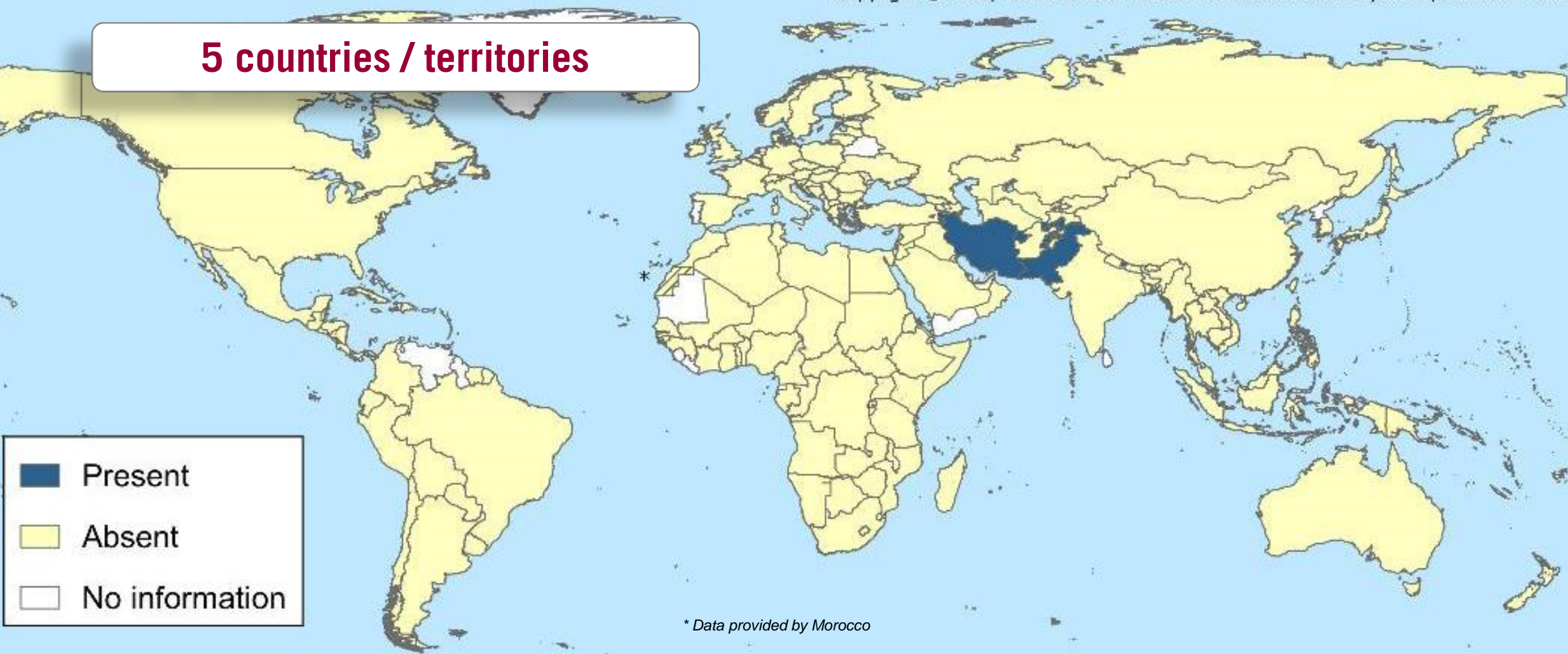
# FMD distribution in 2017 and early 2018

## Serotype Asia 1

(data based on reports received up to 6 May 2018)

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**5 countries / territories**



\* Data provided by Morocco

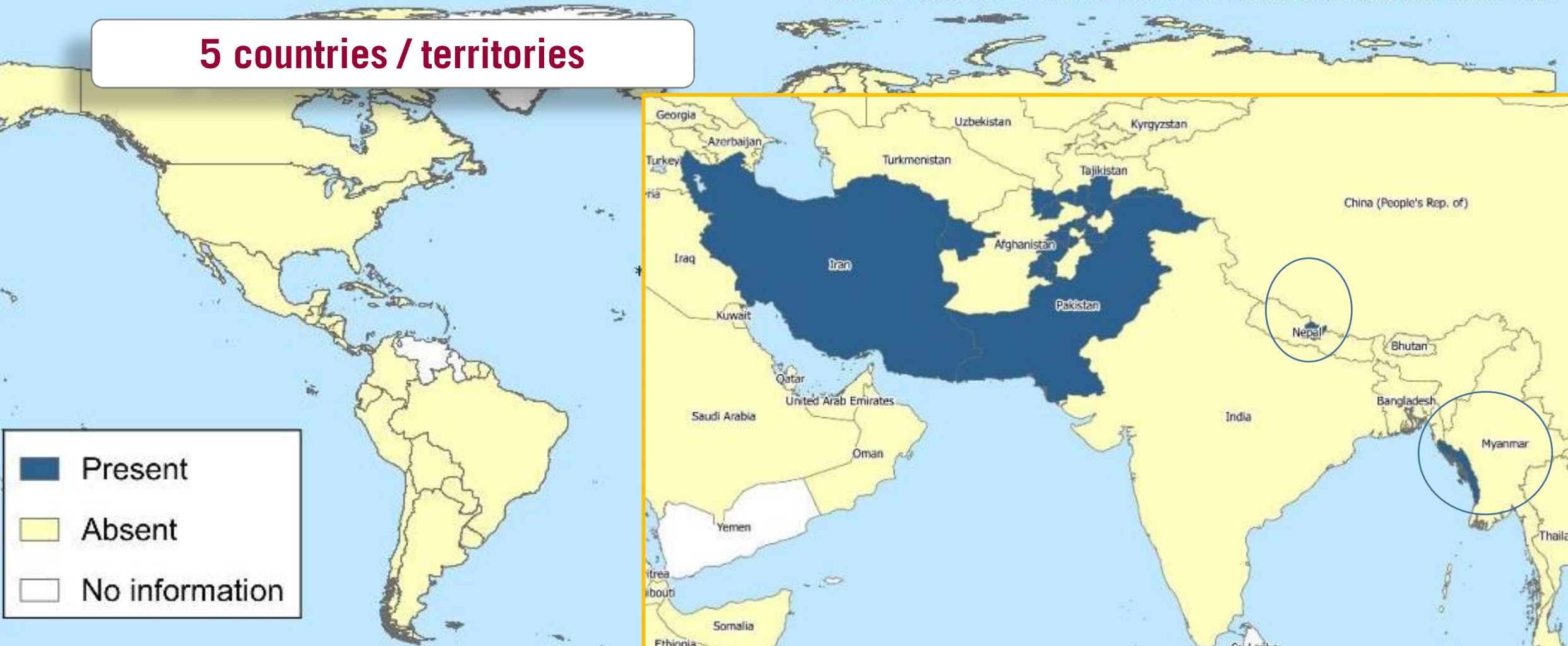
# FMD distribution in 2017 and early 2018

## Serotype Asia 1

(data based on reports received up to 6 May 2018)

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**5 countries / territories**



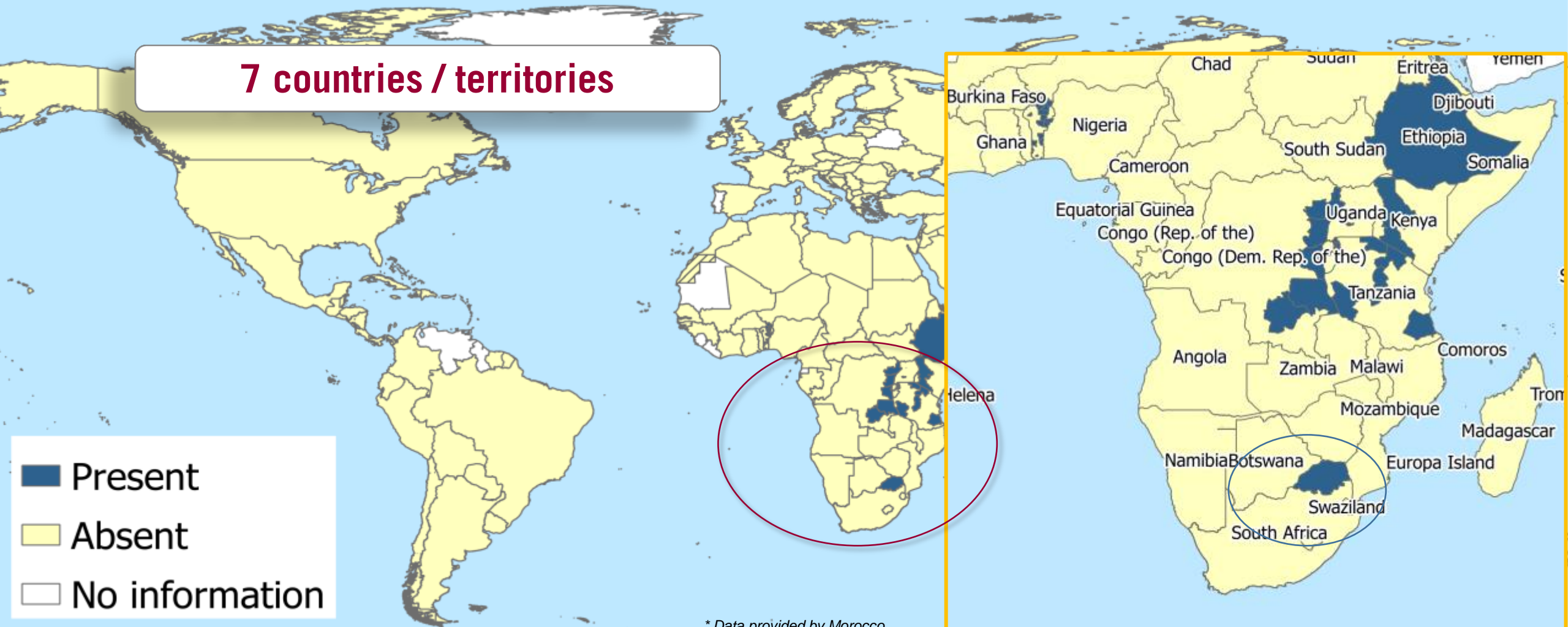
# FMD distribution in 2017 and early 2018

## Serotype SAT 1

(data based on reports received up to 6 May 2018)

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**7 countries / territories**



# FMD distribution in 2017 and early 2018

## Serotype SAT 2

(data based on reports received up to 6 May 2018)

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**10 countries / territories**

■ Present  
■ Absent  
□ No information

\* Data provided by Morocco



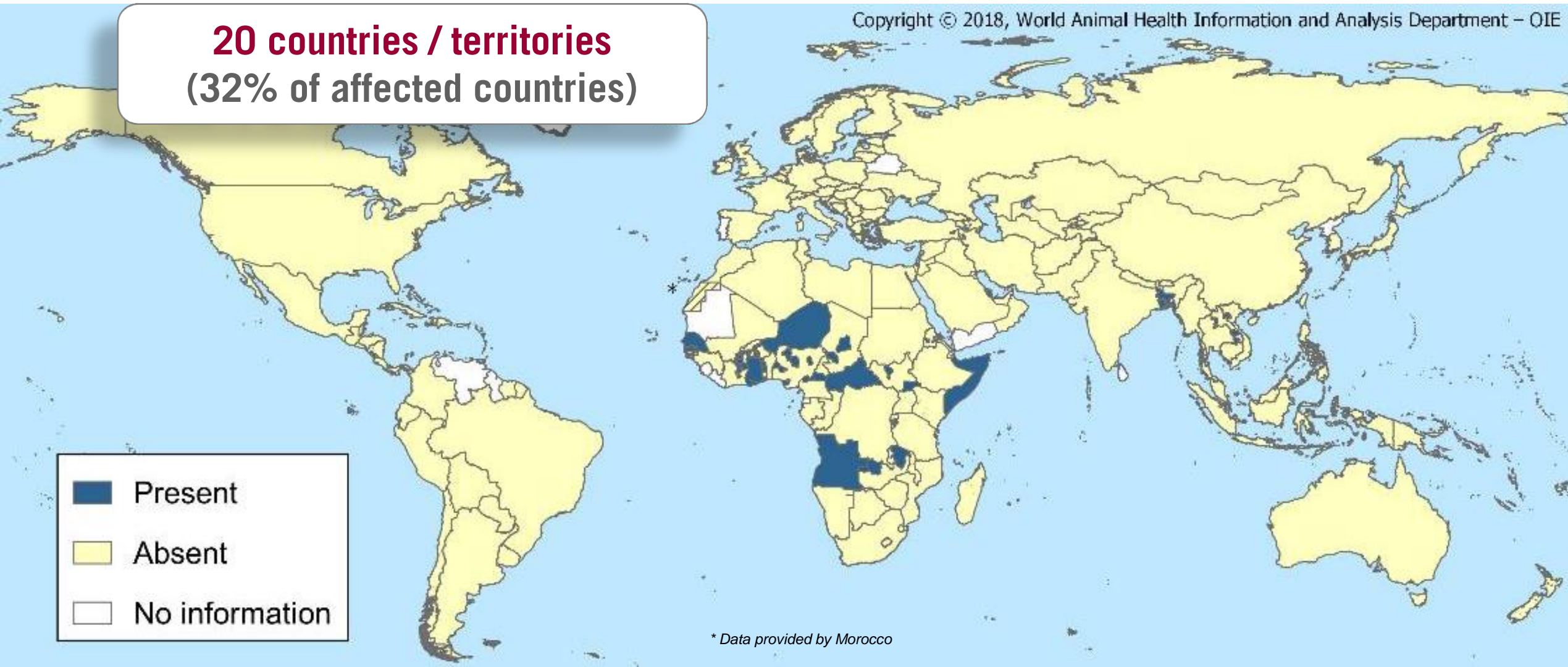
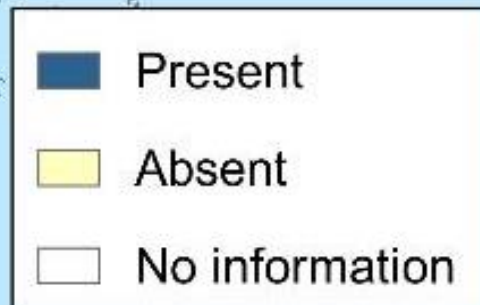
# FMD distribution in 2017 and early 2018

## Serotype not specified

*(data based on reports received up to 6 May 2018)*

**20 countries / territories**  
(32% of affected countries)

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\* Data provided by Morocco

# FMD distribution in 2017 and early 2018

## Serotype not specified

(data based on reports received up to 6 May 2018)

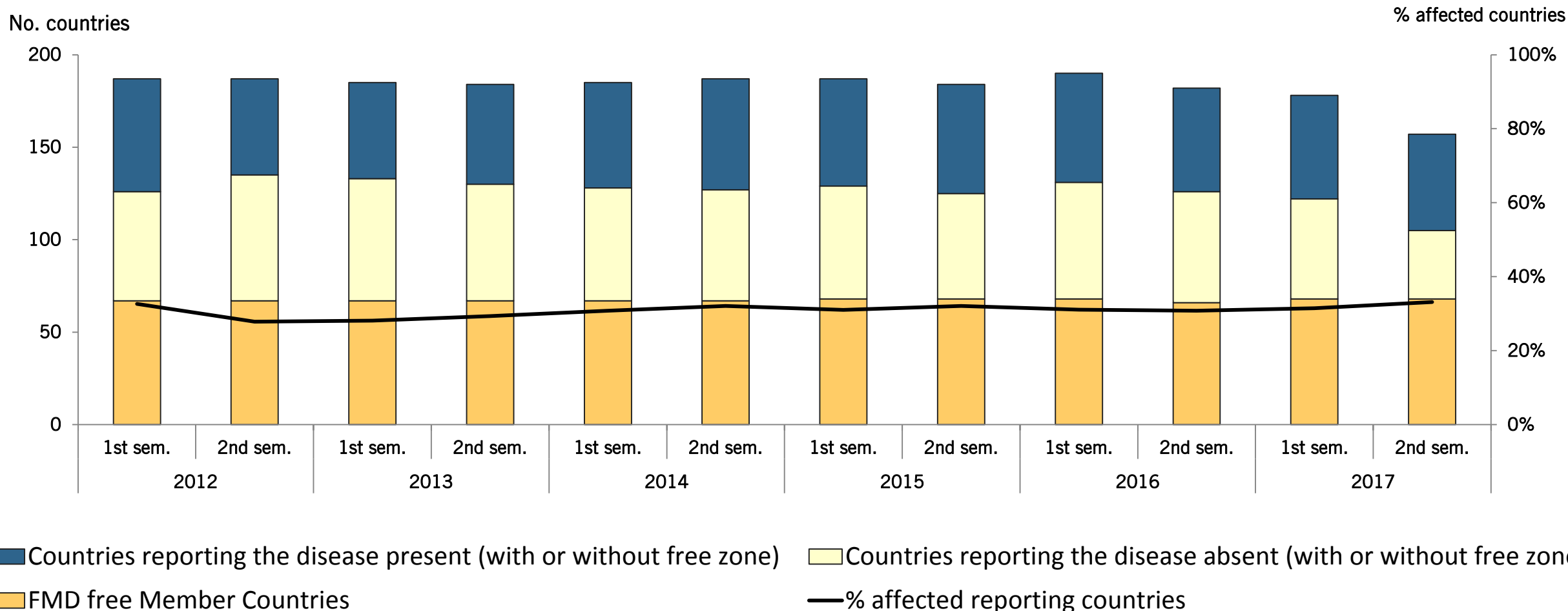
**20 countries / territories**  
(32% of affected countries)

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# % of the reporting countries that notified FMD (2012-2017)

(data based on reports received up to 6 May 2018)

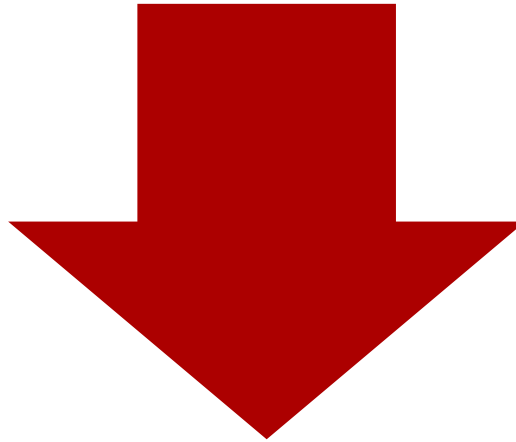


**2012-2017**

- The area of FMD free zones increased by **133%**
- **7** countries that were infected or had a part of their territory officially recognized as free in 2012 now have an official FMD free status for the entire country in 2018

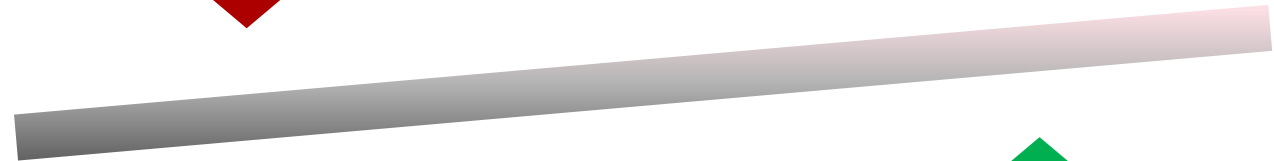
# % of countries applying all, some or none of the relevant prevention and control measures

What are the relevant measures?



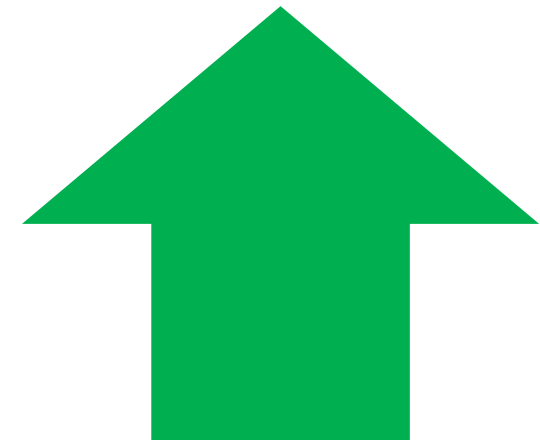
## AFFECTED COUNTRIES

- Surveillance
- Movement control
- Stamping out (whole/partial)
- Official vaccination



## ABSENT COUNTRIES

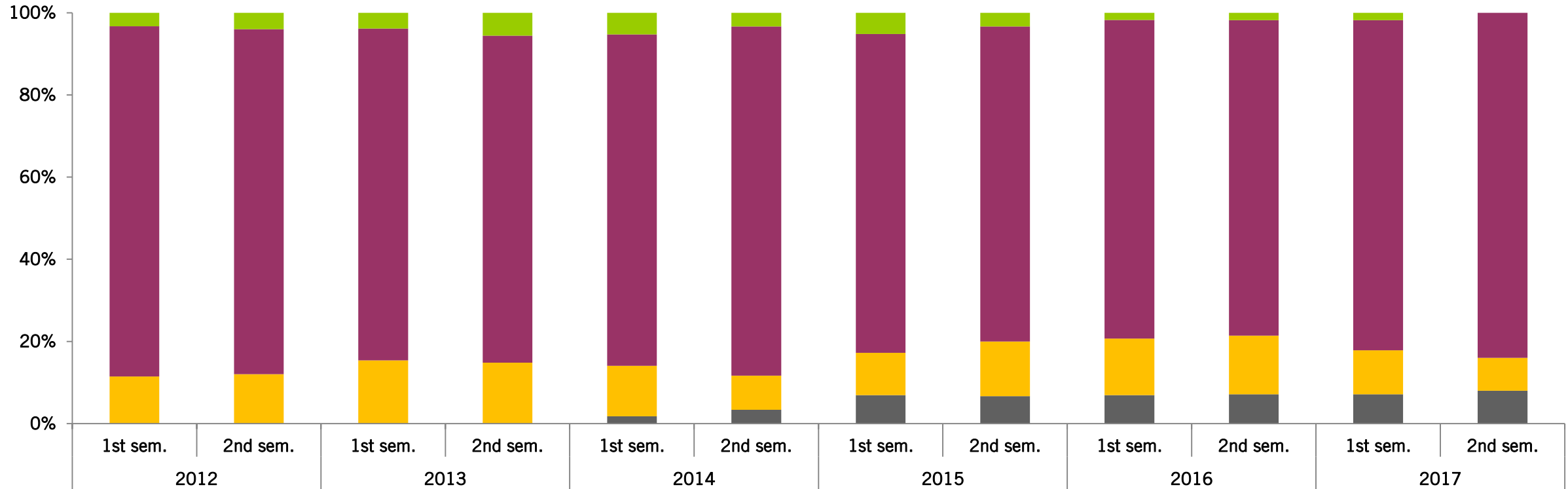
- Surveillance
- Precautions at borders



# % of countries applying all, some or none of the relevant prevention and control measures: **FMD Present**

Surveillance - Movement control- Official Vaccination- Stamping out (whole/partial)

% affected countries



■ Countries applying none of the relevant measures

■ Countries applying some of the relevant measures

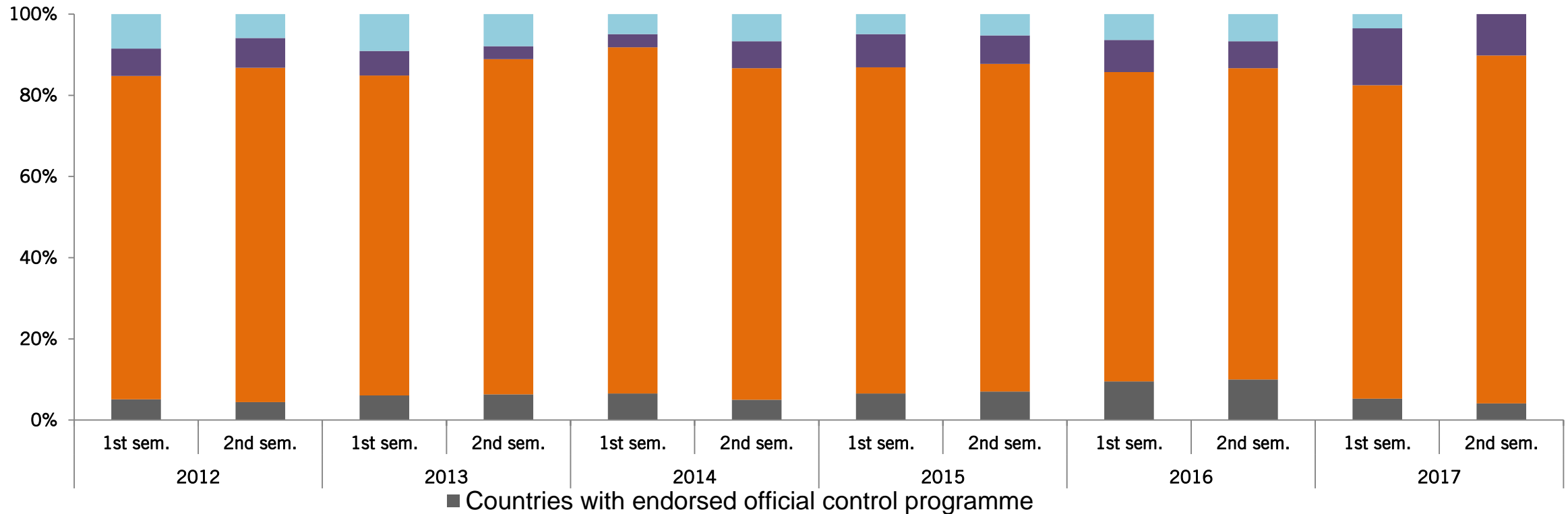
■ Countries applying all the relevant measures

■ Countries with endorsed official control programme for FMD

# % of countries applying all, some or none of the relevant prevention and control measures: **FMD Absent**

## Surveillance – Precaution at borders

### % absent countries



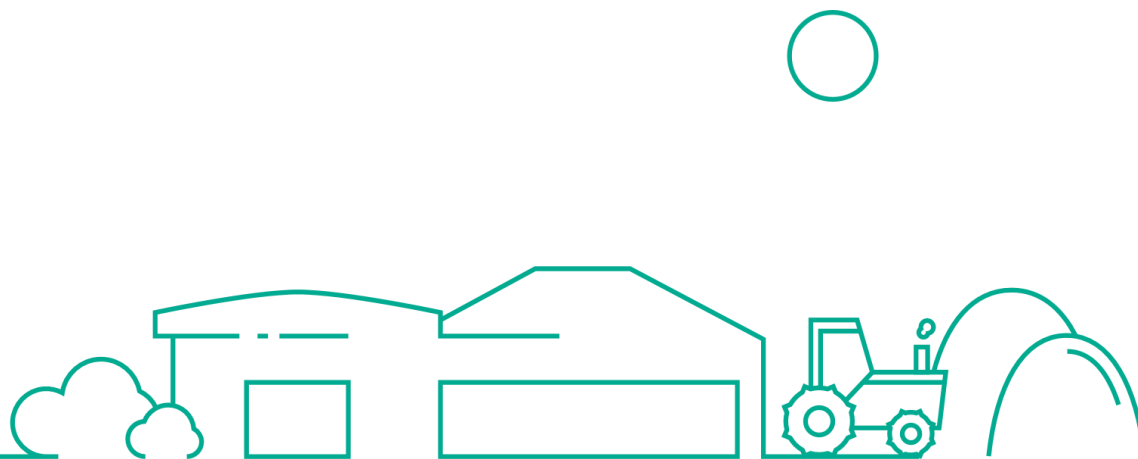
**High  
granularity**

- Countries with endorsed official control programme
- Countries applying surveillance AND precaution at borders
- Countries applying surveillance OR precaution at borders
- Countries NOT applying surveillance OR precaution at borders

*Members with Free Status are not included in the analysis*

# Infection with FMD virus: **CONCLUSIONS**

- FMD official situation has slightly improved, based on the expansion of FMD-free areas in the world and the progressive cessation of vaccination.
- Need to improve the diagnostic capabilities of countries to identify the serotypes
- Countries are encouraged to make use of the Global FMD control strategy and the network of OIE Reference Laboratories and Collaborating Centres to design and implement well-structured control efforts.
- More accurate disease information through WAHIS for the continued monitoring of global progress of the control efforts.

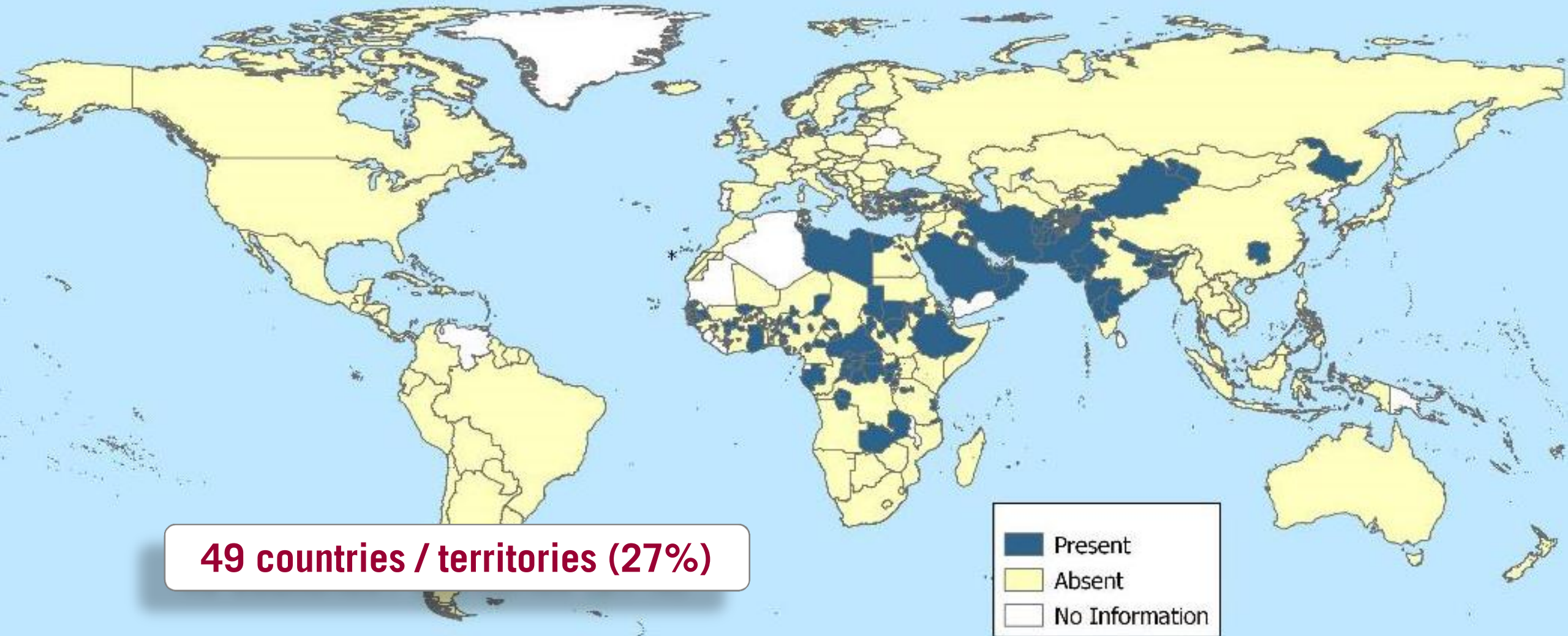


# Infection with peste des petits ruminants virus

# PPR distribution in 2017 and early 2018

*(data based on reports received up to 6 May 2018)*

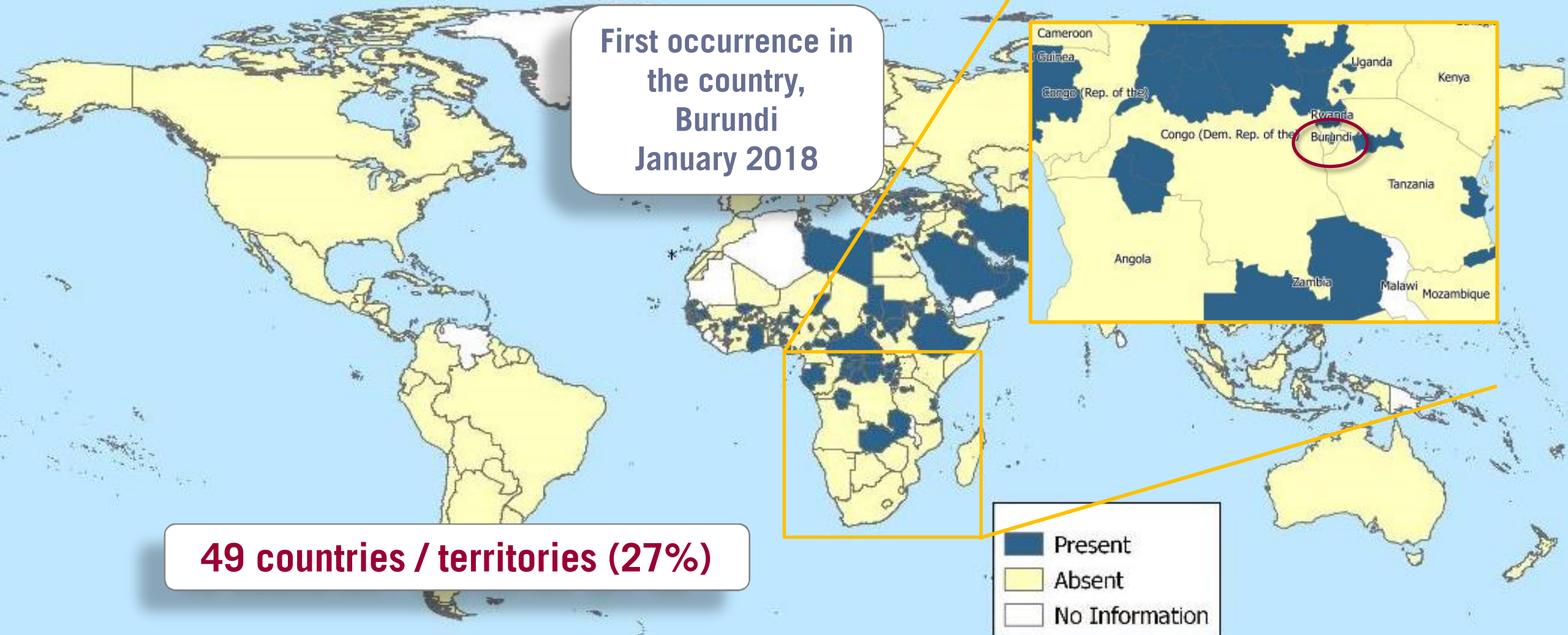
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# PPR distribution in 2017 and early 2018

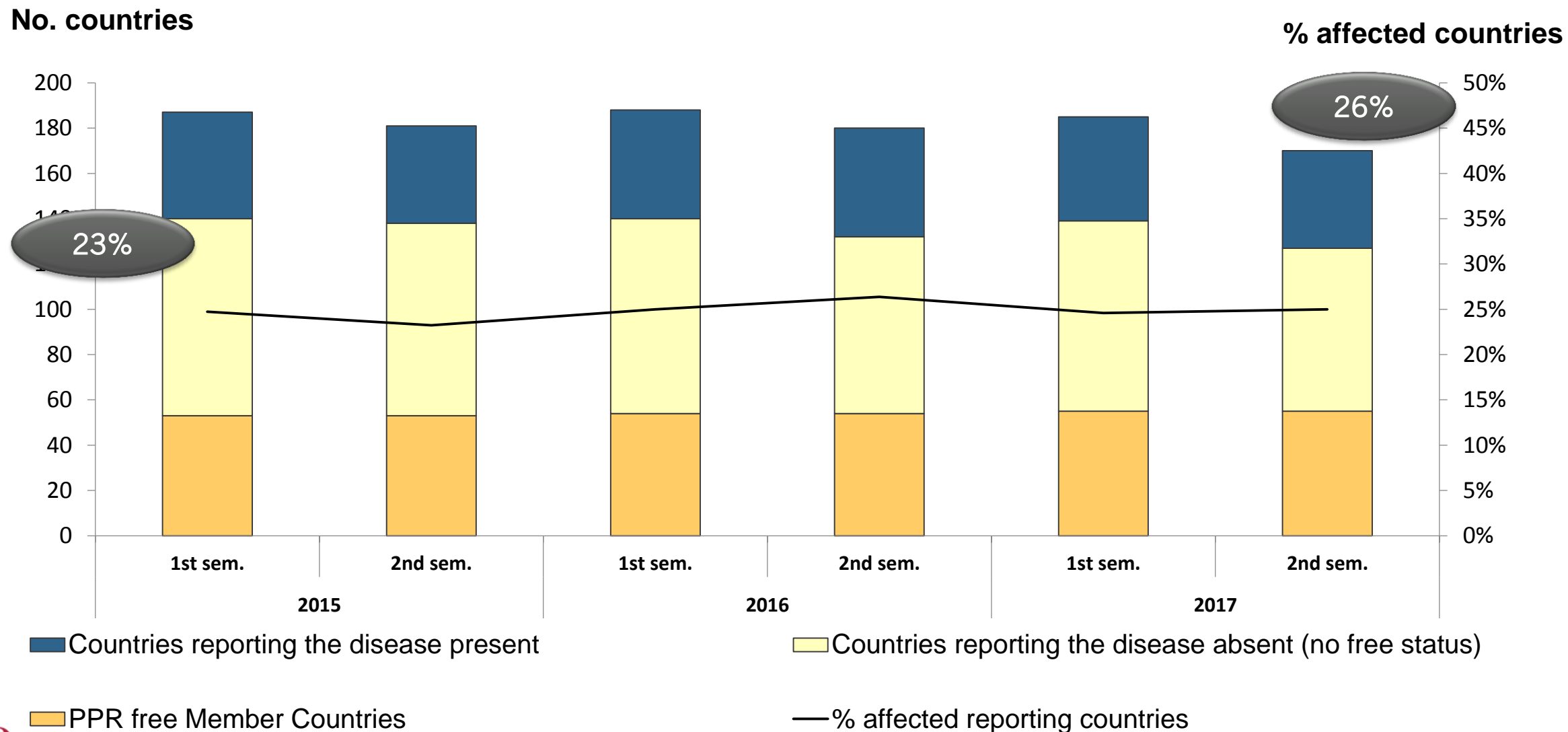
*(data based on reports received up to 6 May 2018)*

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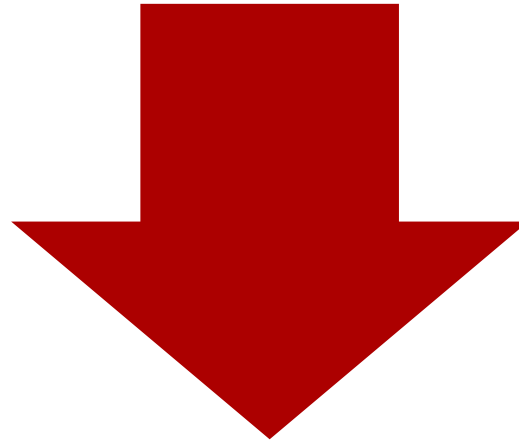
# % of the reporting countries that notified PPR (2015-2017)

(data based on reports received up to 6 May 2018)



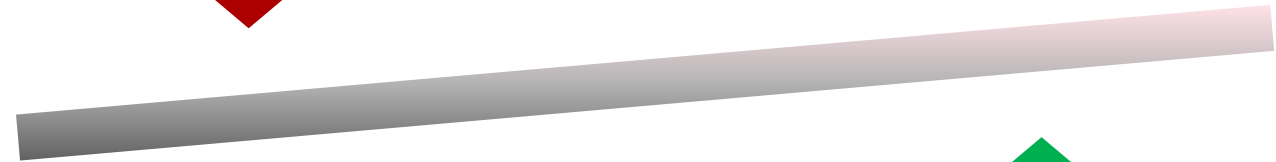
# % of countries applying all, some or none of the relevant prevention and control measures

What are the relevant measures?



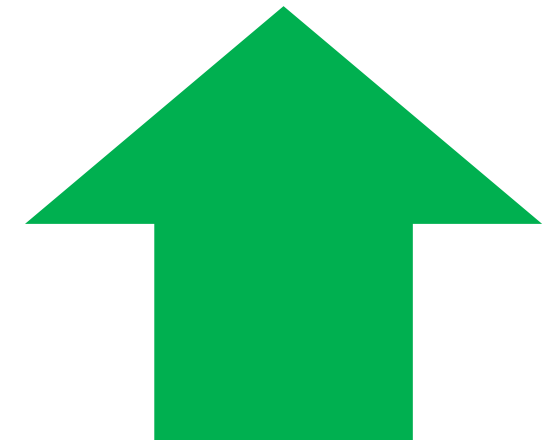
## AFFECTED COUNTRIES

- Surveillance
- Movement control
- Stamping out (whole/partial)
- Official vaccination



## ABSENT COUNTRIES

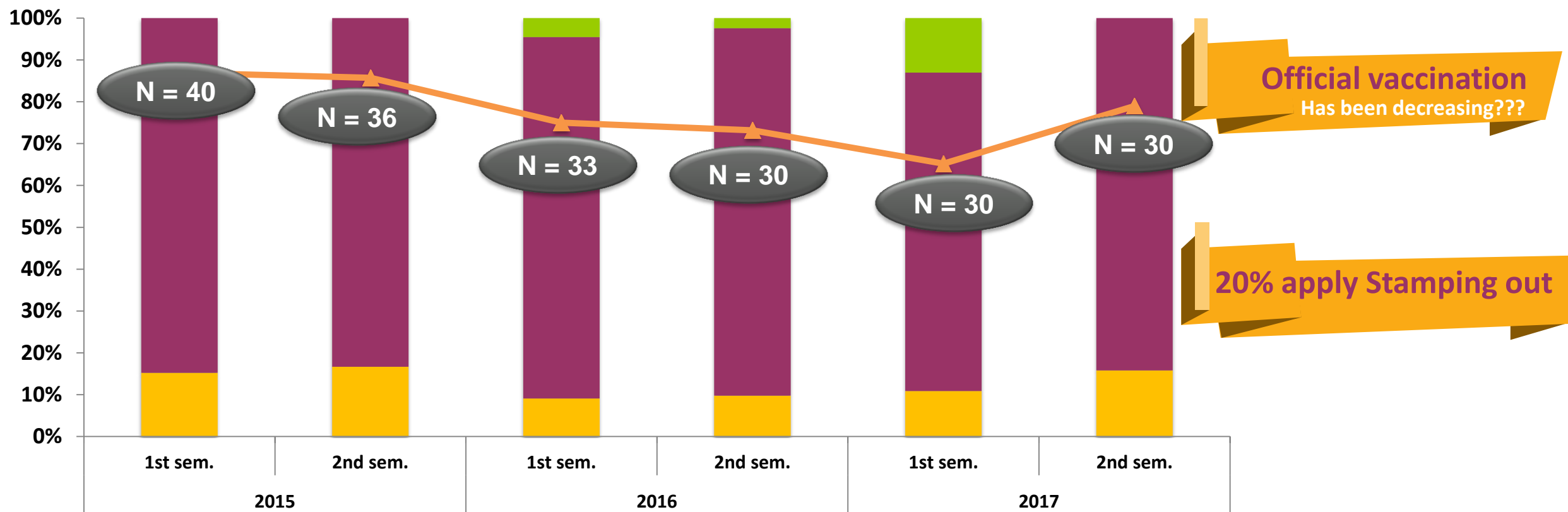
- Surveillance
- Precautions at borders



# % of countries applying all, some or none of the relevant prevention and control measures: **PPR Present**

Surveillance - Movement control- Official Vaccination- Stamping out (whole/partial)

% affected countries



■ Countries applying all the relevant measures

■ Countries applying some of the relevant measures

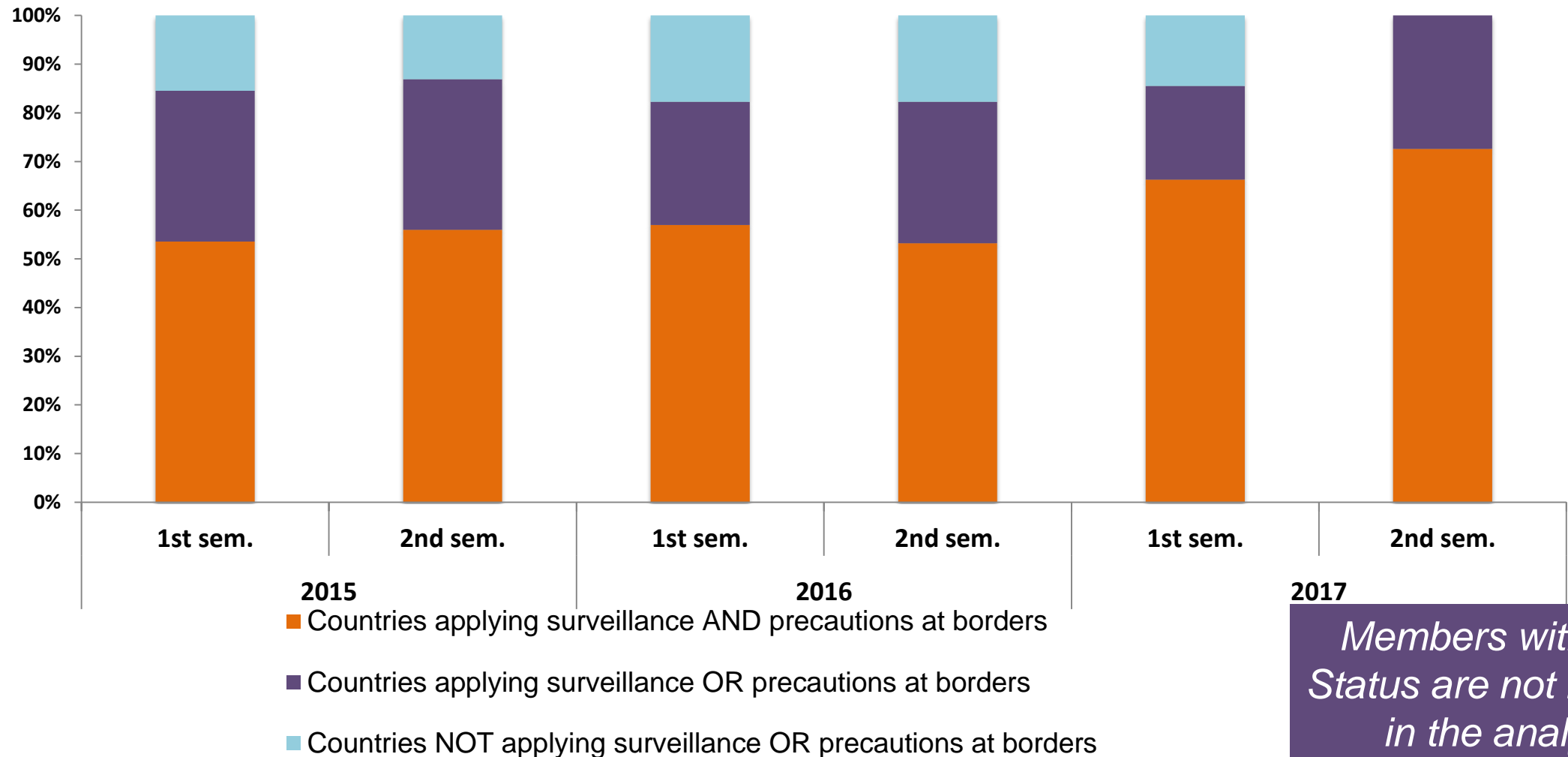
■ Countries applying none of the relevant measures

▲ % Countries reporting official vaccination

# % of countries applying all, some or none of the relevant prevention and control measures: **PPR Absent**

## Surveillance – Precaution at borders

% absent countries



*Members with Free Status are not included in the analysis*

# Infection with PPR virus: **CONCLUSIONS**

- The global situation has not shown a significant improvement since 2015.
- PPR has spread to some areas outside its traditional range over the last few years, including Eastern Europe and Asia.
- Few of the PPR-affected countries report having implemented all of the relevant control measures.
- Room for enhanced prevention and control measures.
- Greater commitment is required to achieve global eradication by 2030.

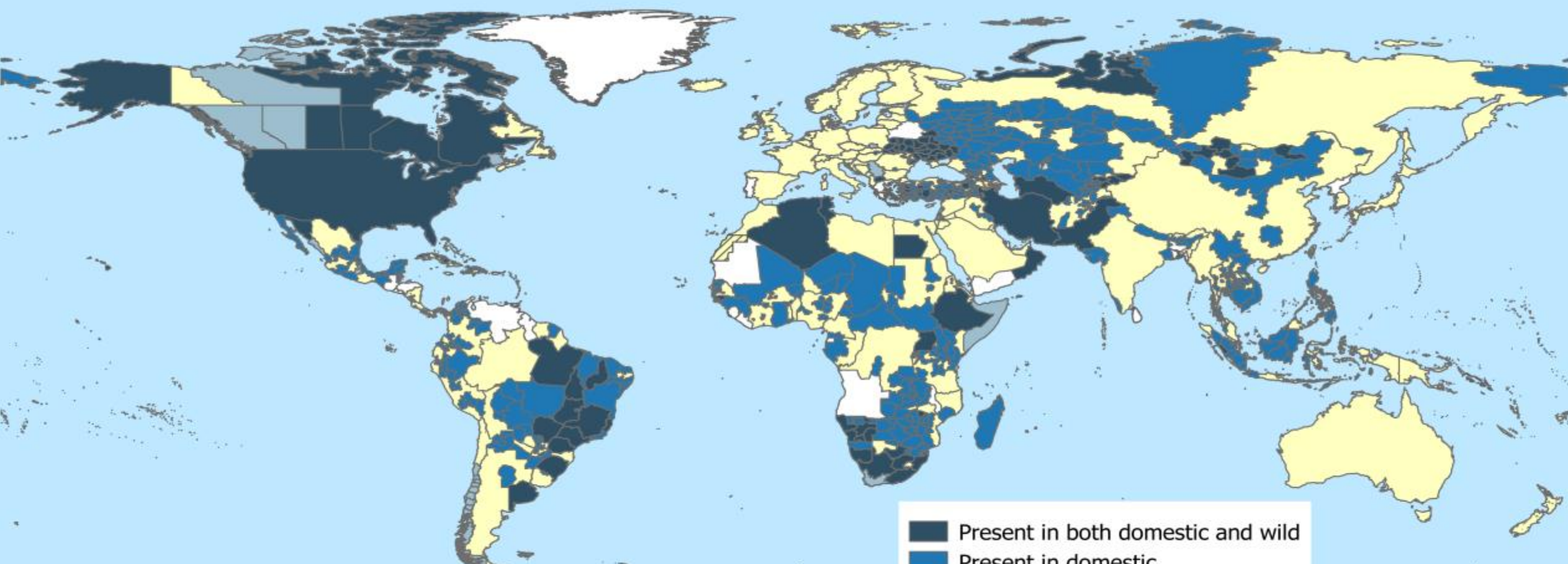


# Infection with rabies virus

# Rabies distribution in 2017 and early 2018

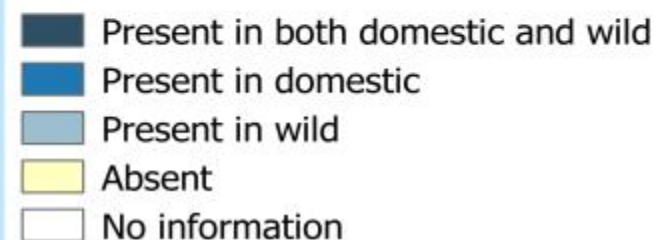
*(data based on reports received up to 6 May 2018)*

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**104 countries / territories (57%)**

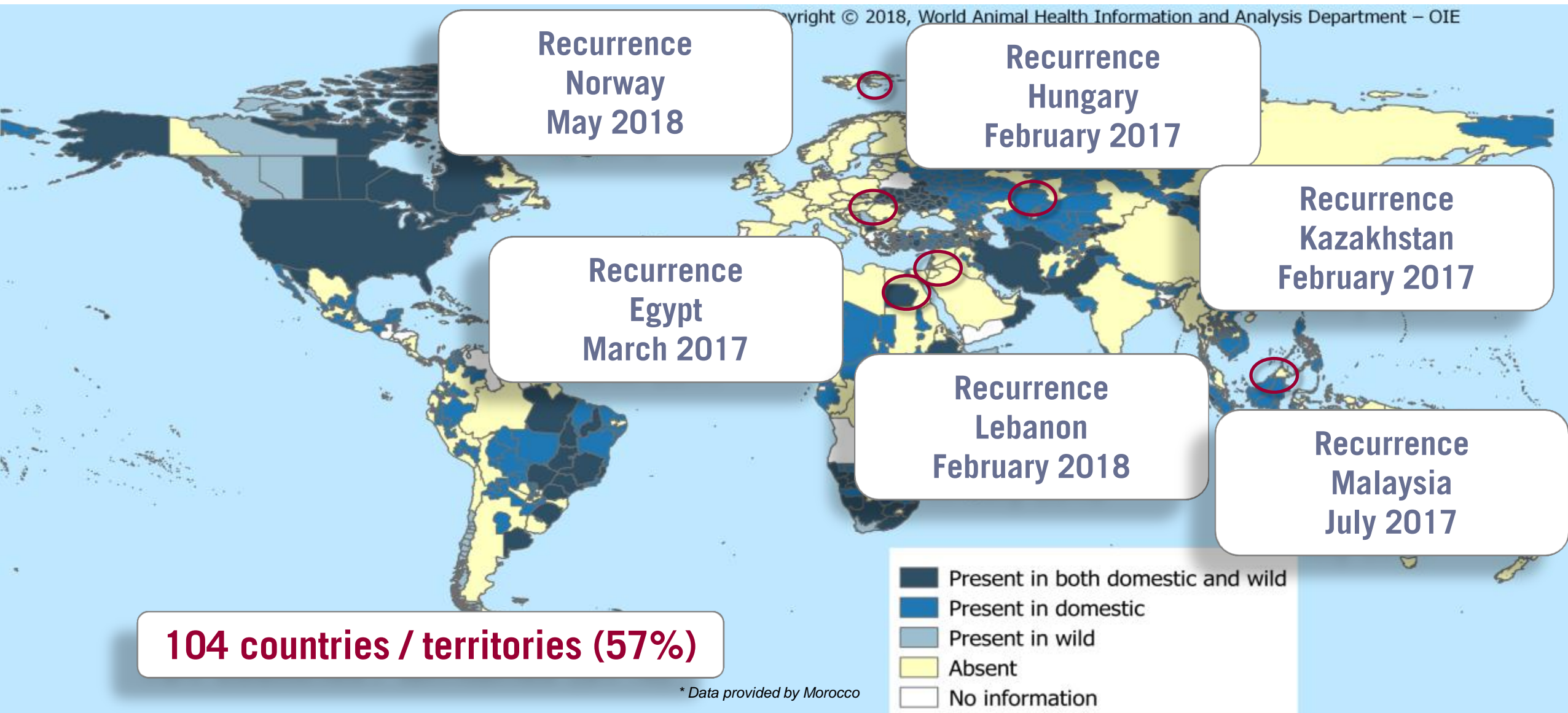
\* Data provided by Morocco



# Rabies distribution in 2017 and early 2018

(data based on reports received up to 6 May 2018)

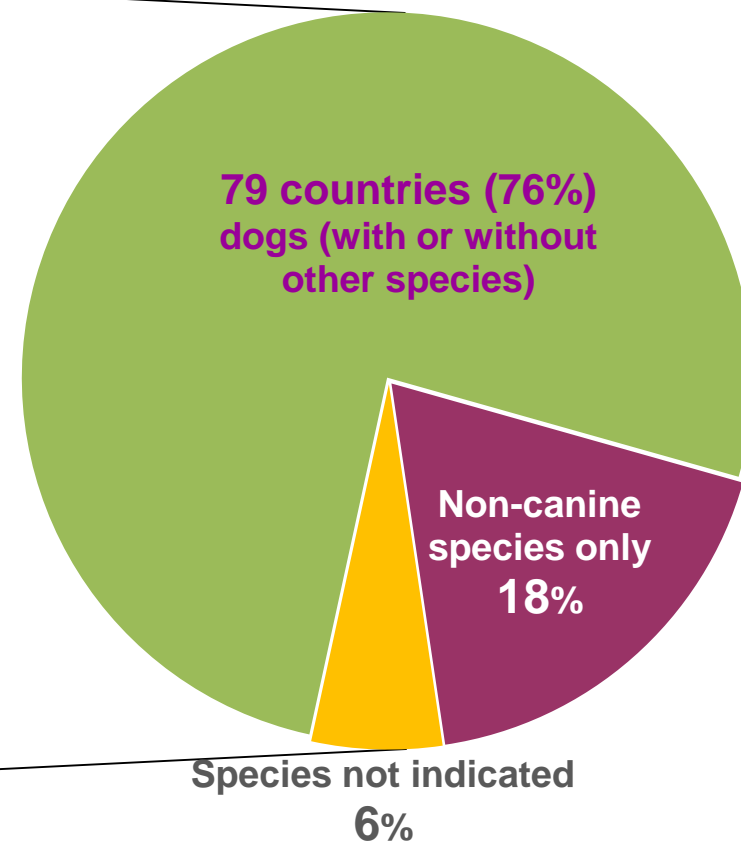
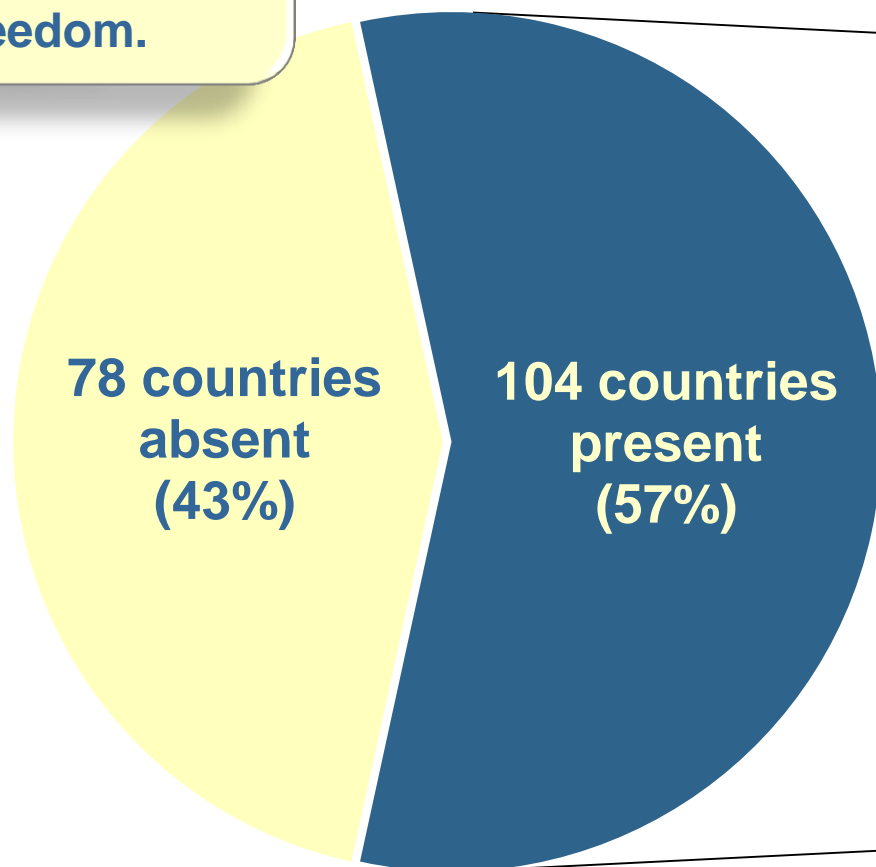
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# % of the reporting countries that notified rabies present and the breakdown on species affected in 2017

(data based on reports received up to 6 May 2018)

11 countries have made a self-declaration of freedom.



# % of countries applying all, some or none of the relevant prevention and control measures

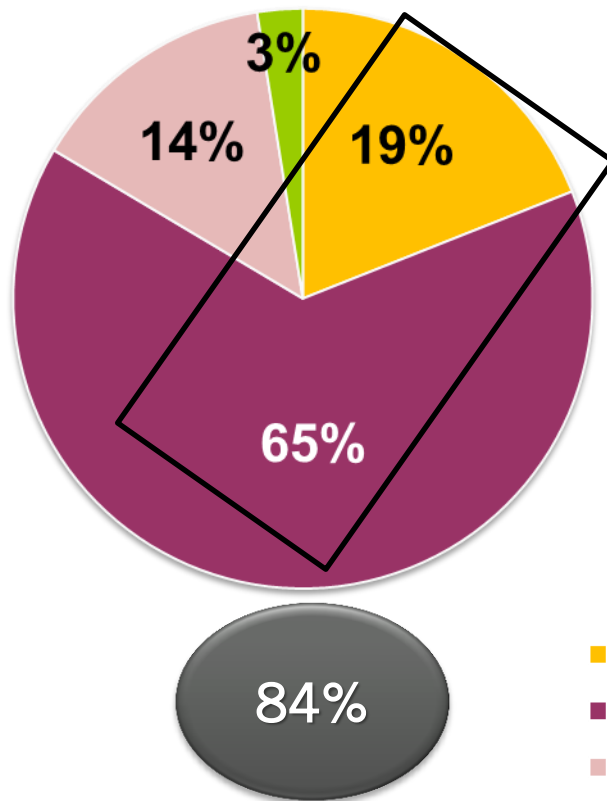
## What are the relevant measures of rabies in dogs?

	Surveillance	Official vaccination	Precaution at borders	Selective killing
Countries with disease present in dogs	✓	✓	✓	✓
Countries with disease present in non-canine species only	✓	✓	✓	
Countries with disease absent	✓	✓	✓	

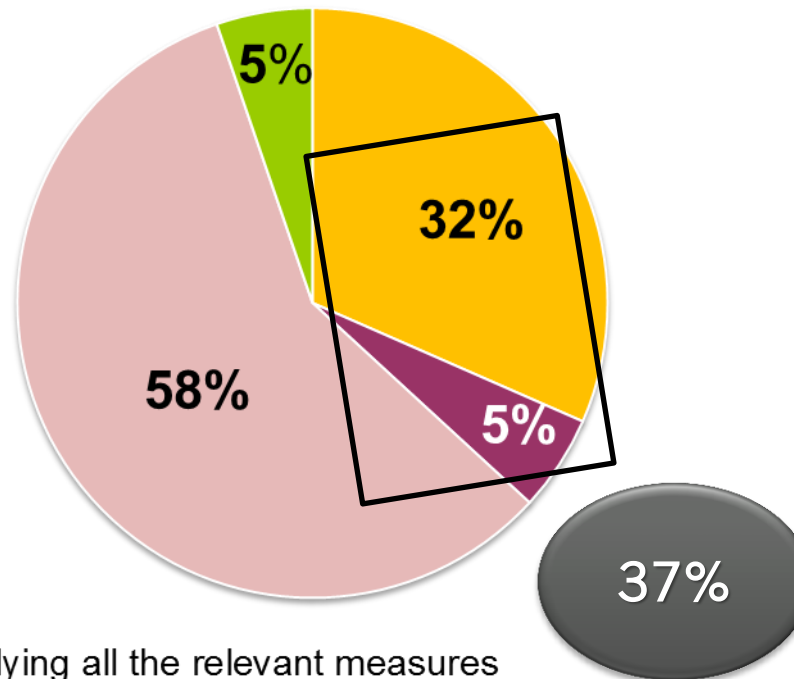


# Implementation of the relevant measures in countries / territories

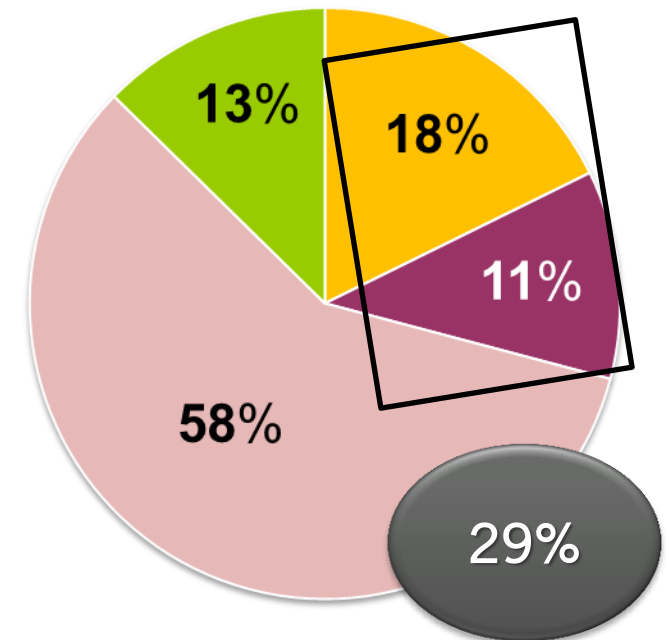
Disease present in dogs



Disease present in non-canine species only



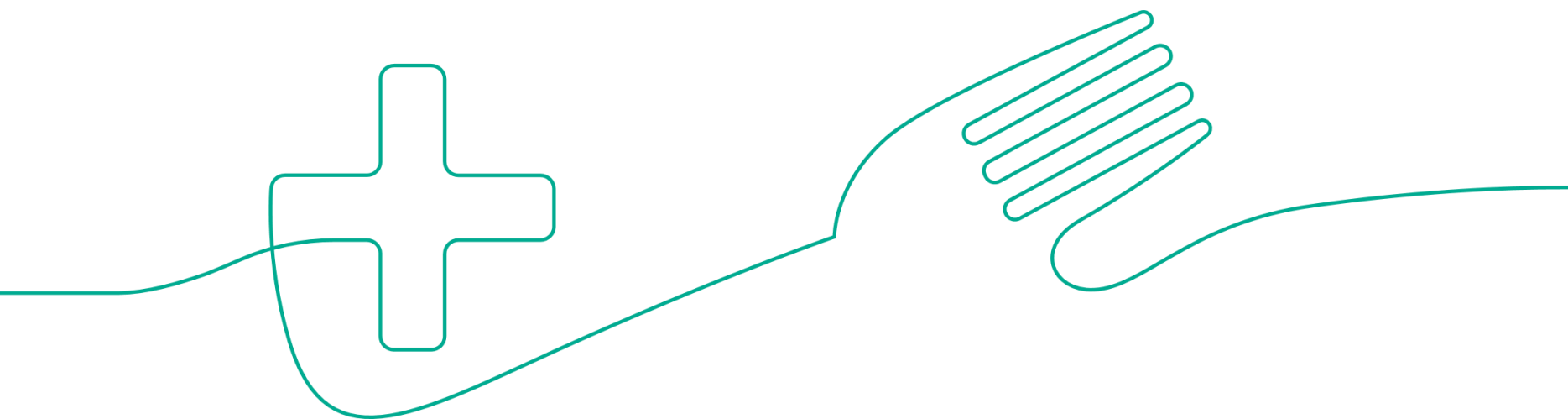
Disease absent



- Countries applying all the relevant measures
- Countries applying some of the relevant measures including vaccination
- Countries applying some of the relevant measures without vaccination
- Countries applying none of the relevant measures

# Rabies in dogs: **CONCLUSIONS**

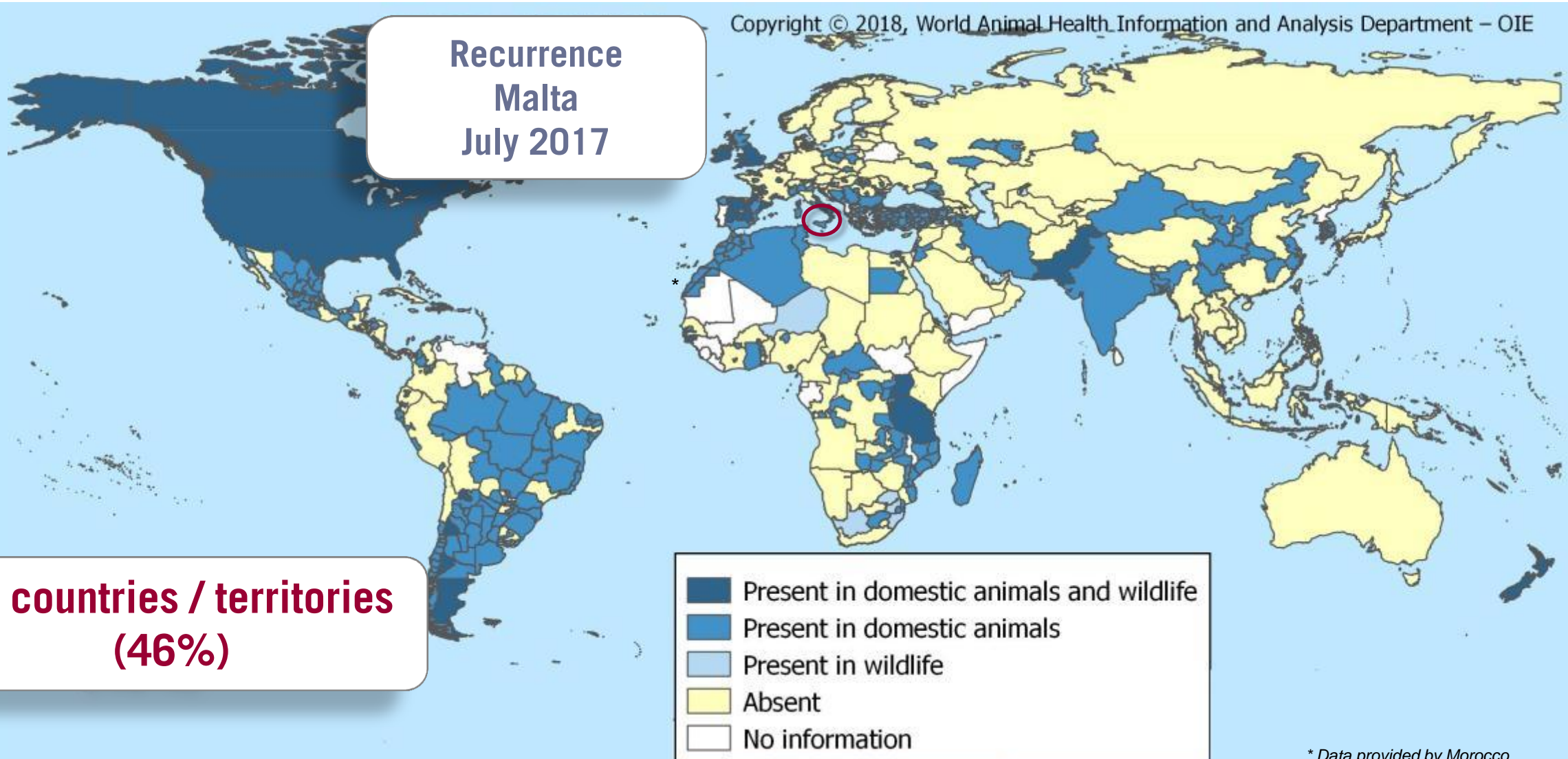
- Rabies is a disease with significant global spread and impact.
- All countries are encouraged to:
  - *Provide information of the occurrence of the disease and species affected*
  - *Report the official vaccination through WAHIS*
  - *Provide information on the control measures applied*
- A gap in the implementation of official vaccination for rabies, especially, in the countries where the disease was reported in non-canine species only, which may lead to an increase in the risk to public health.



# Bovine tuberculosis

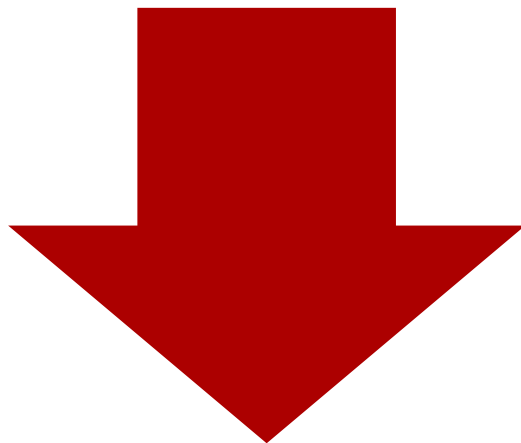
# Bovine tuberculosis distribution in 2017 and early 2018

(data based on reports received up to 6 May 2018)



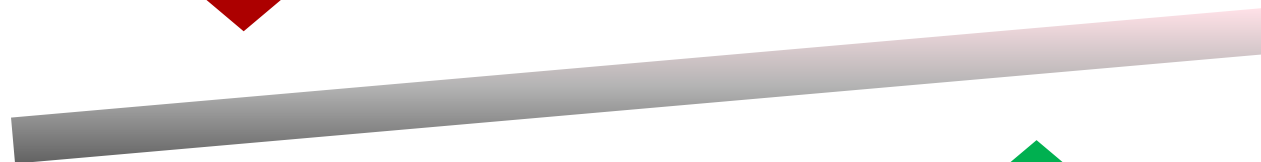
# % of countries applying all, some or none of the relevant prevention and control measures

What are the relevant measures?



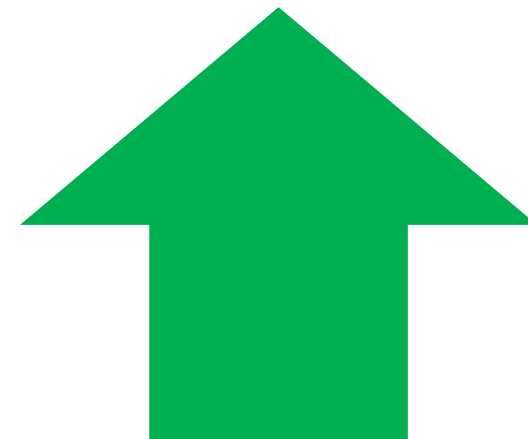
## AFFECTED COUNTRIES

- Active surveillance
- Movement control
- Stamping out (whole/partial)



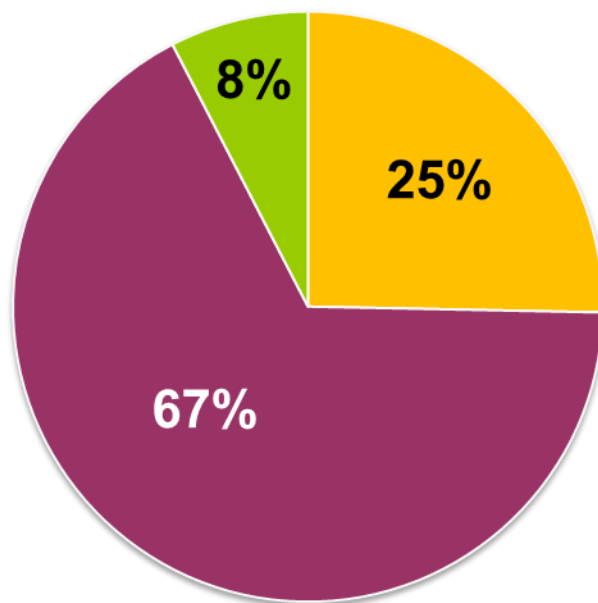
## ABSENT COUNTRIES

- Surveillance
- Precautions at borders



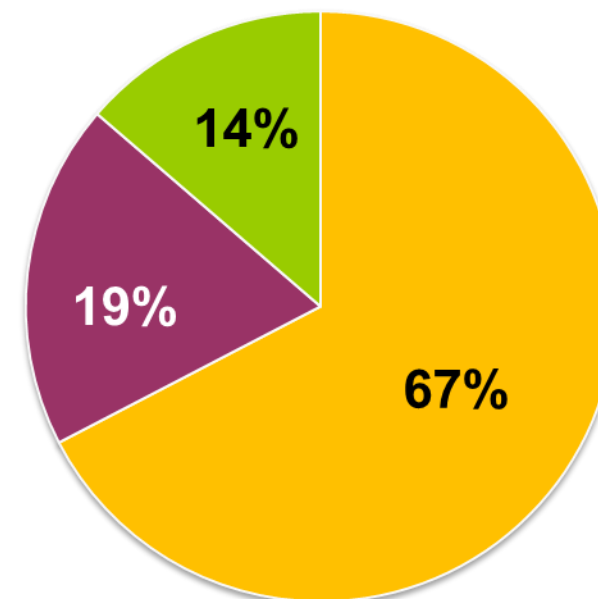
# Implementation of the relevant control measures

## Affected countries



Active Surveillance - Movement control- Stamping out (whole/partial)

## Absent countries



Surveillance – Precaution at borders

- Countries applying all the relevant measures
- Countries applying some of the relevant measures
- Countries applying none of the relevant measures

# Bovine tuberculosis: **CONCLUSIONS**

- The disease was reported present by 80 of the reporting countries (46%).
- In affected countries all the relevant control measures are being applied by 20 countries (25%) .
- Members are encouraged to improve their level of surveillance and so be in a position to report more accurate information.
- More rigorous control efforts are warranted in order to achieve the global goal “to end the global tuberculosis epidemic by 2030”

# CHAPTER I: CONCLUSIONS

- ❖ A smaller than expected percentage of the affected countries reported stamping out or selective killing and disposal as their primary official control measure.
- ❖ Quality of information reported through WAHIS can be used to analyse the progress achieved with the ongoing global eradication efforts.
- ❖ Make strategic use of OIE standards, the OIE's mechanisms for official disease status recognition, endorsement of official control programmes, self-declarations of disease freedom and OIE PVS tool.



**OIE#86SG**

# Chapter 2



**Global situation regarding  
four diseases and infections  
of major interest**

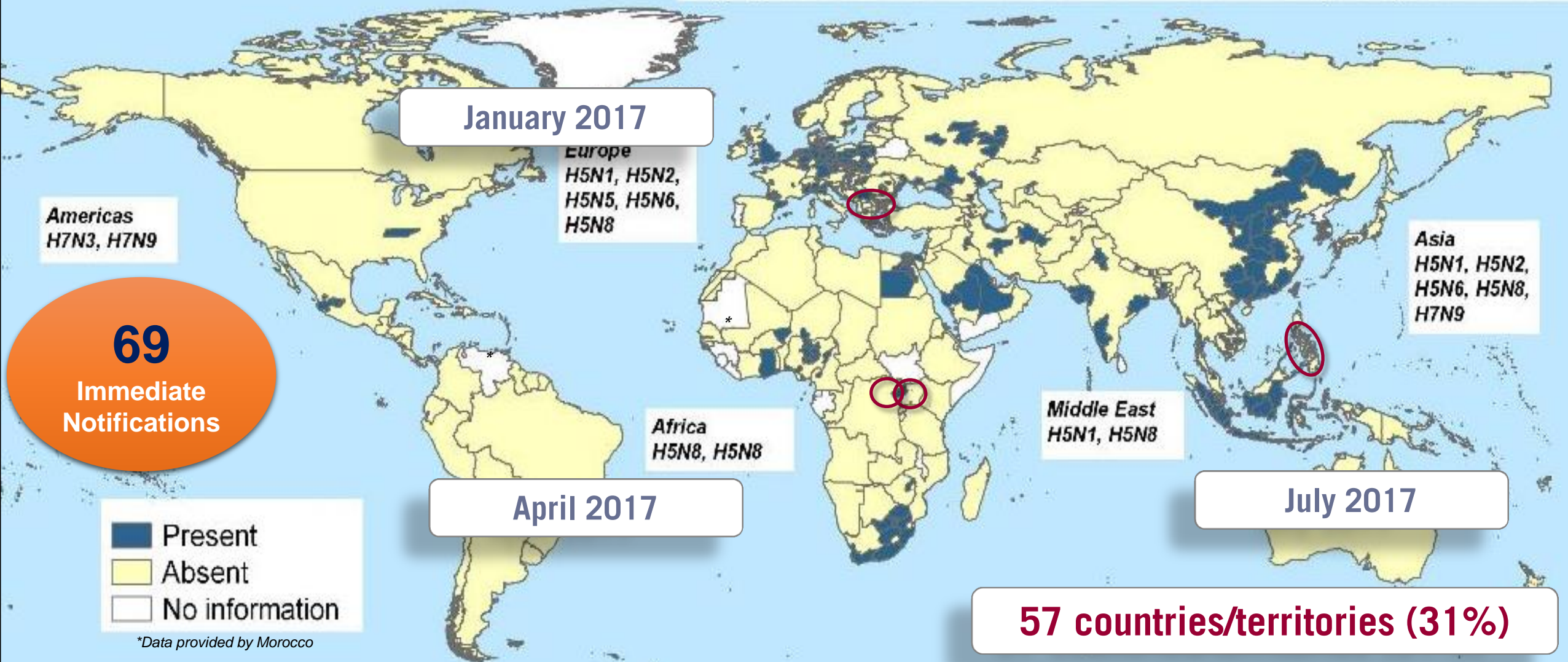


# Infection with influenza A viruses of high pathogenicity in birds

# HPAI poultry distribution in 2017 and early 2018

(data based on reports received up to 6 May 2018)

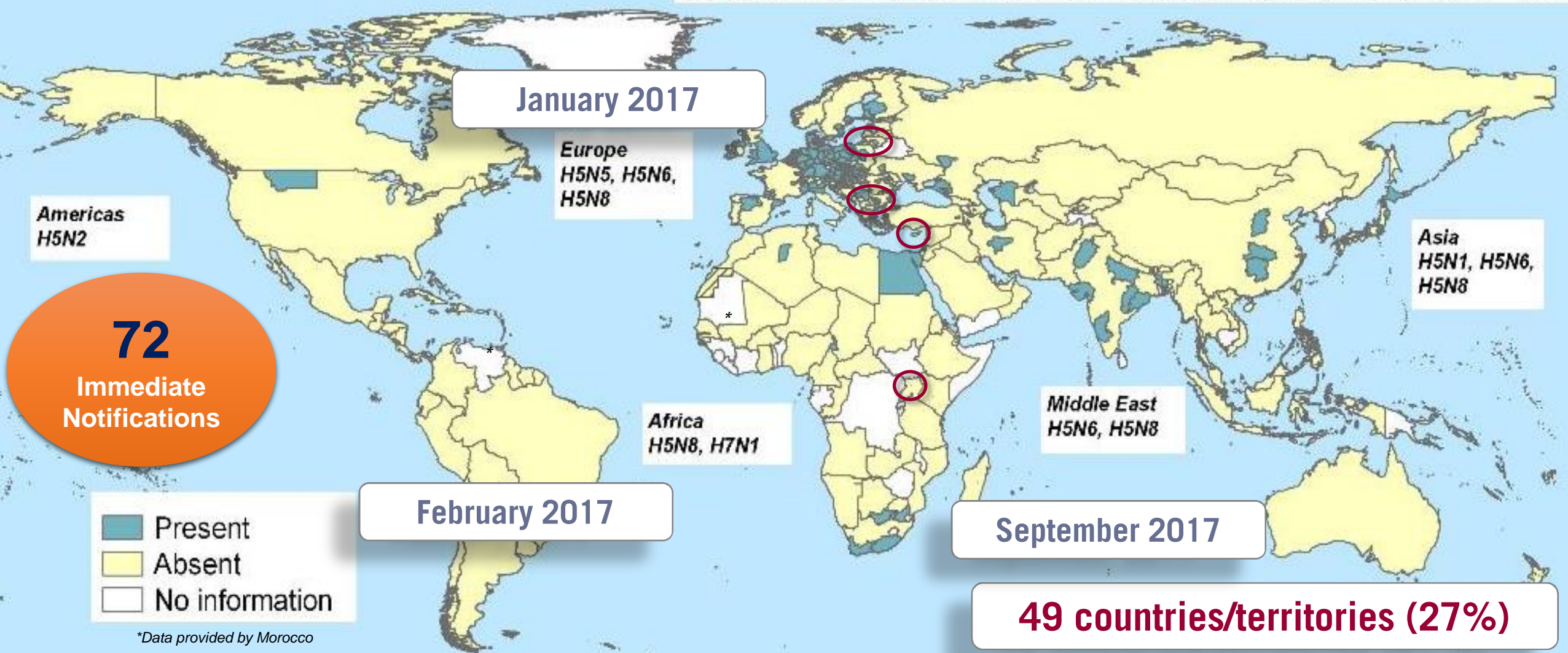
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# HPAI non-poultry including wild birds distribution in 2017 and early 2018

(data based on reports received up to 6 May 2018)

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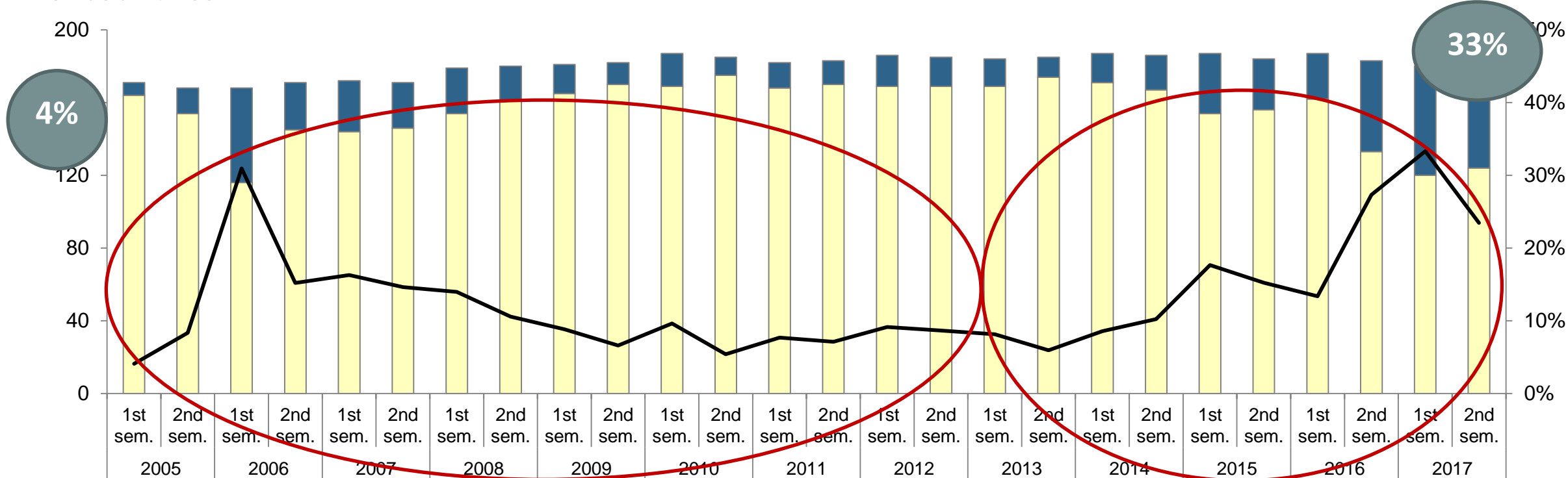


# % of the reporting countries that notified HPAI present in **poultry** between 2005 and 2017

(data based on reports received up to 6 May 2018)

No. countries

% affected countries



Countries reporting the disease absent

Countries reporting the disease present

% affected reporting countries

**Two different major global panzootic waves**



**Have countries been reactive for controlling HPAI events?**

**What factors impacted on this reactivity?**

## Apparent mortality rate (Ap.MR) in domestic birds



*= Dead animals / susceptible animals*

*at outbreak level before the implementation of stamping out*

How to interpret  
the proxy  
ApMR?



If low : country considered reactive in  
applying stamping out



If high : country considered little reactive in  
applying stamping out



**Ap.MR calculated from early warning reports**  
(39% all the outbreaks)



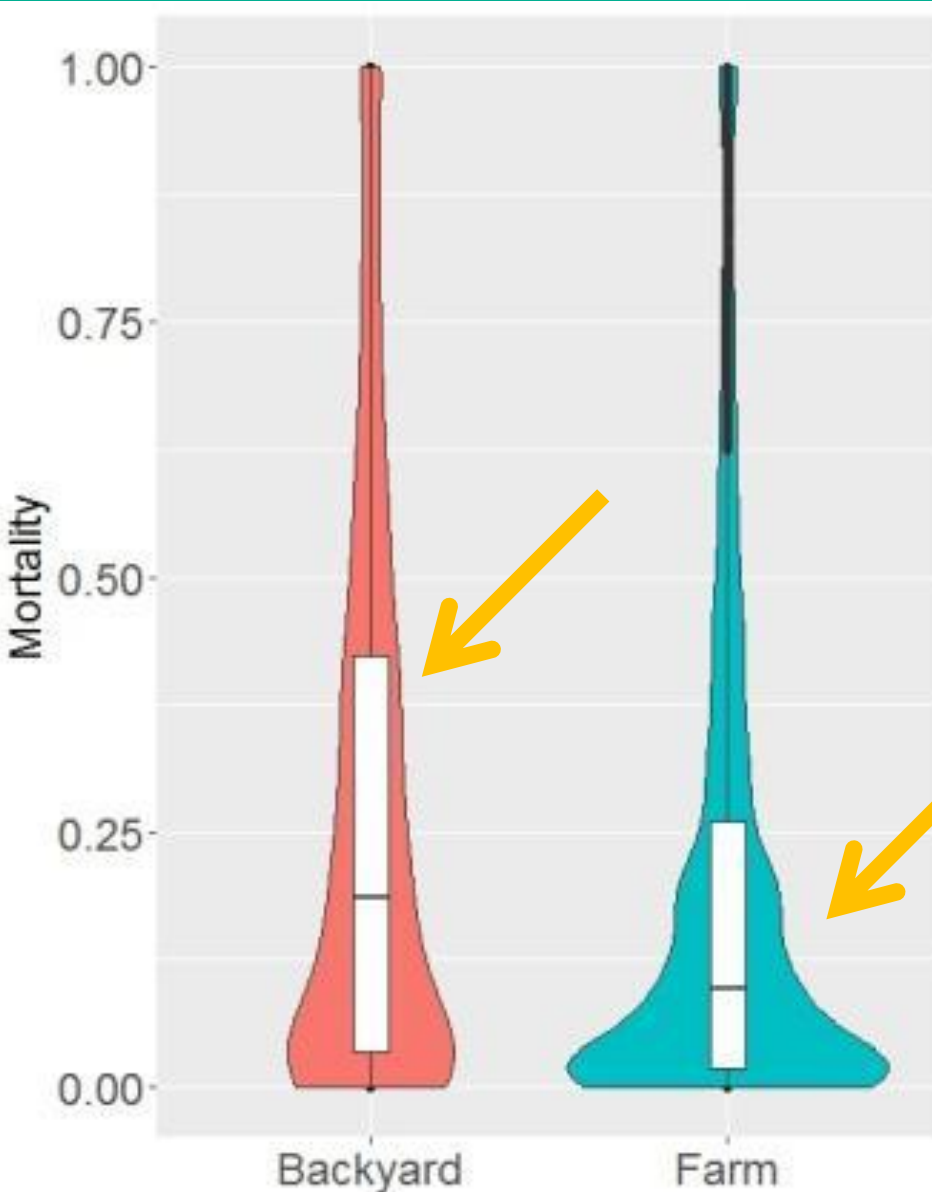
**Factors** that had played a role in the reactivity of the countries

**Epidem. Units**  
Farms v/s backyards

**Size**  
n° susceptible animals

**Panzootic wave**

# HPAI in poultry: Results



## Ap.MR values stratified by epidemiological unit

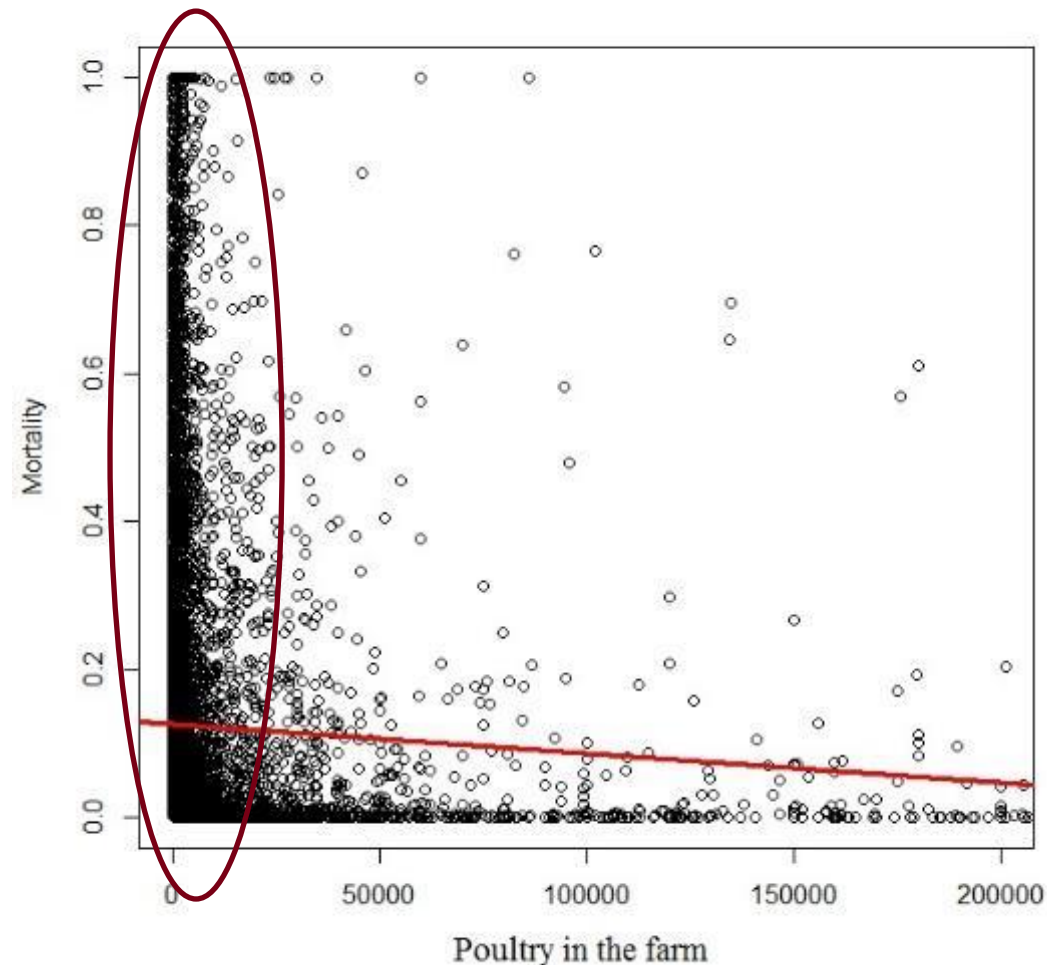


Ap.MR lower for farms  
= better reactivity



Ap.MR higher for backyard  
= little reactivity





## Ap.MR values stratified by size of the affected farm



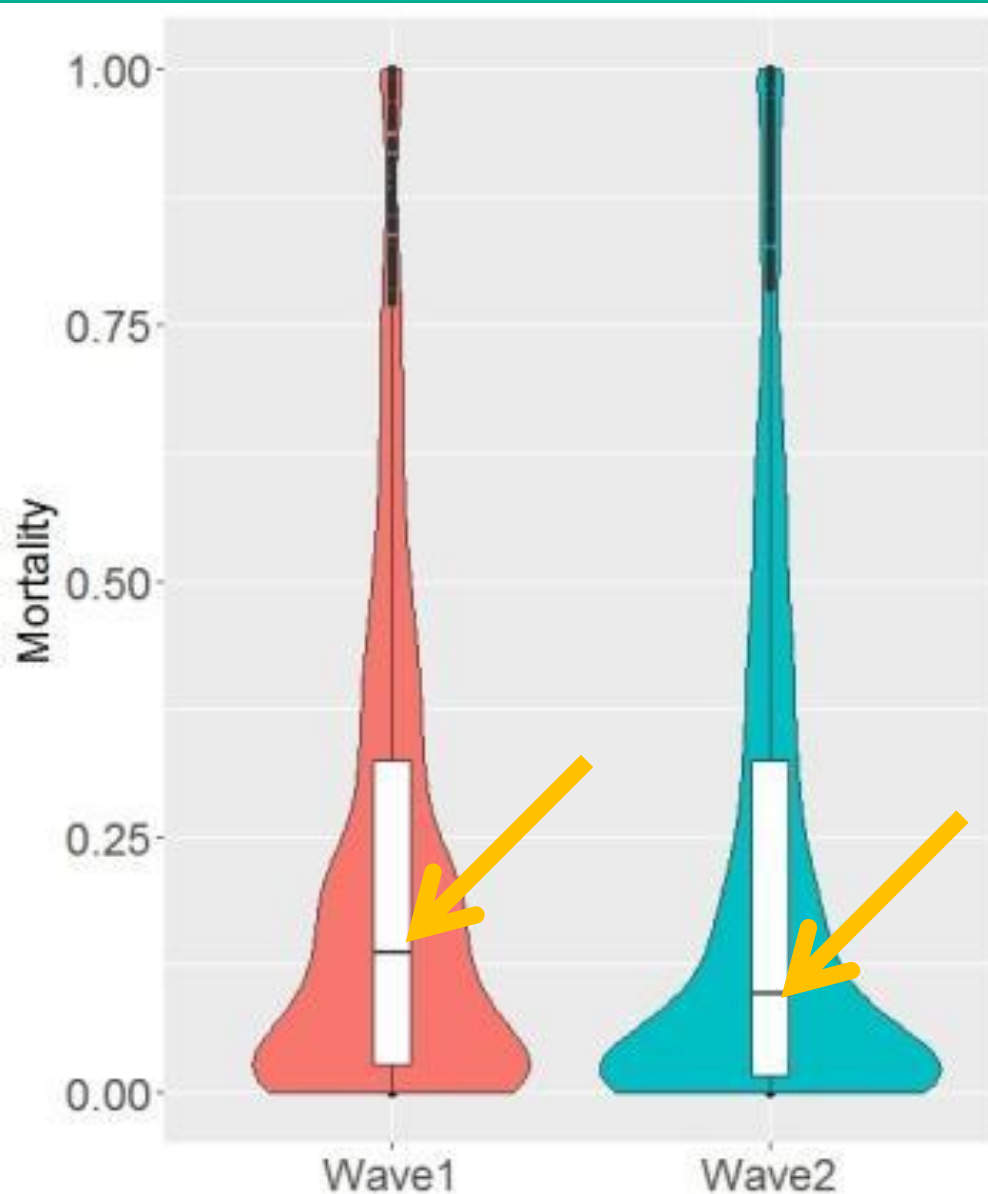
Ap.MR lower for bigger farms  
= better reactivity



Ap.MR higher for smaller  
farms = little reactivity



# HPAI in poultry: Results



## Ap.MR values stratified by panzootic wave



Ap.MR higher for 2005-2012 = little reactivity

1<sup>st</sup>



Ap.MR lower for 2013-2018 = better reactivity

2<sup>nd</sup>

**Ap.MR calculated from early warning reports**  
(39% all the outbreaks)



Ap.MR in wave 1 - Ap.MR in wave 2 = improved Ap.MR values



Spatial interpolation (Inverse Distance Weighting)

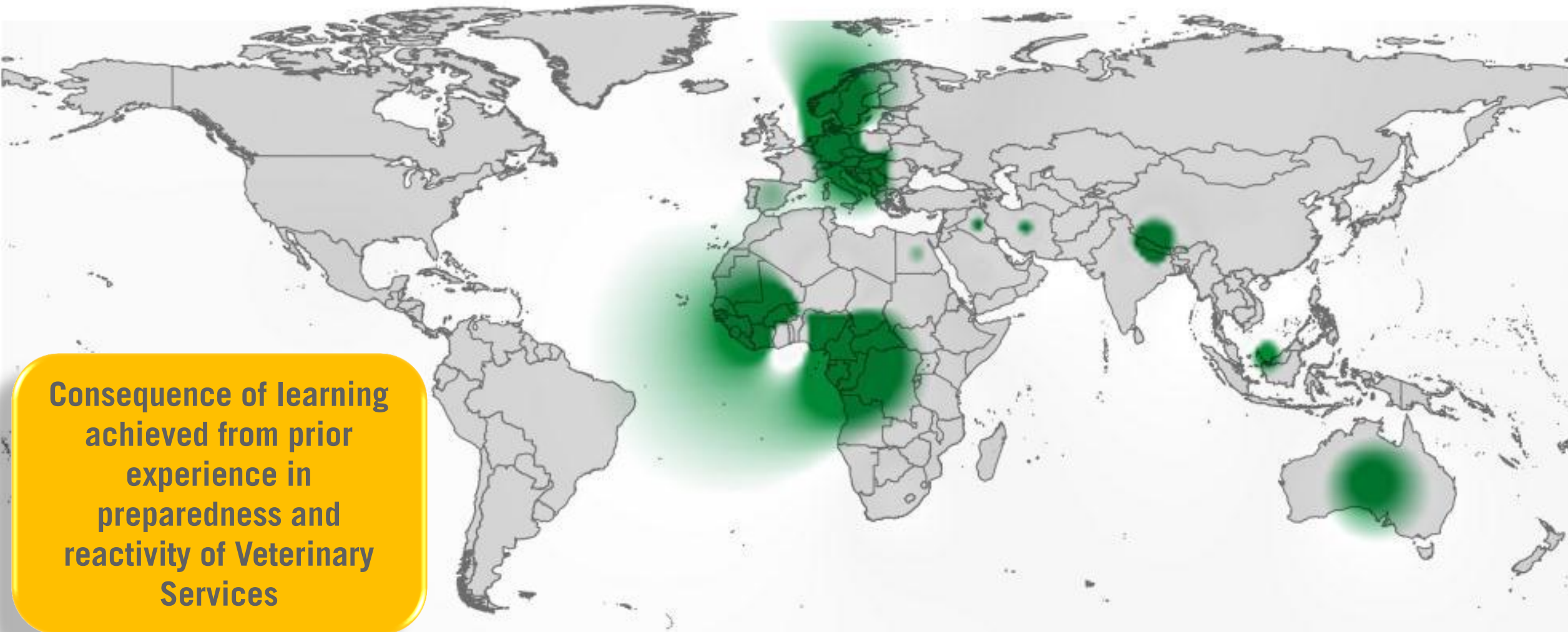


**Areas** that had showed **significant improvements**  
between the two panzootic waves

## Distribution of Ap.MR improvement areas

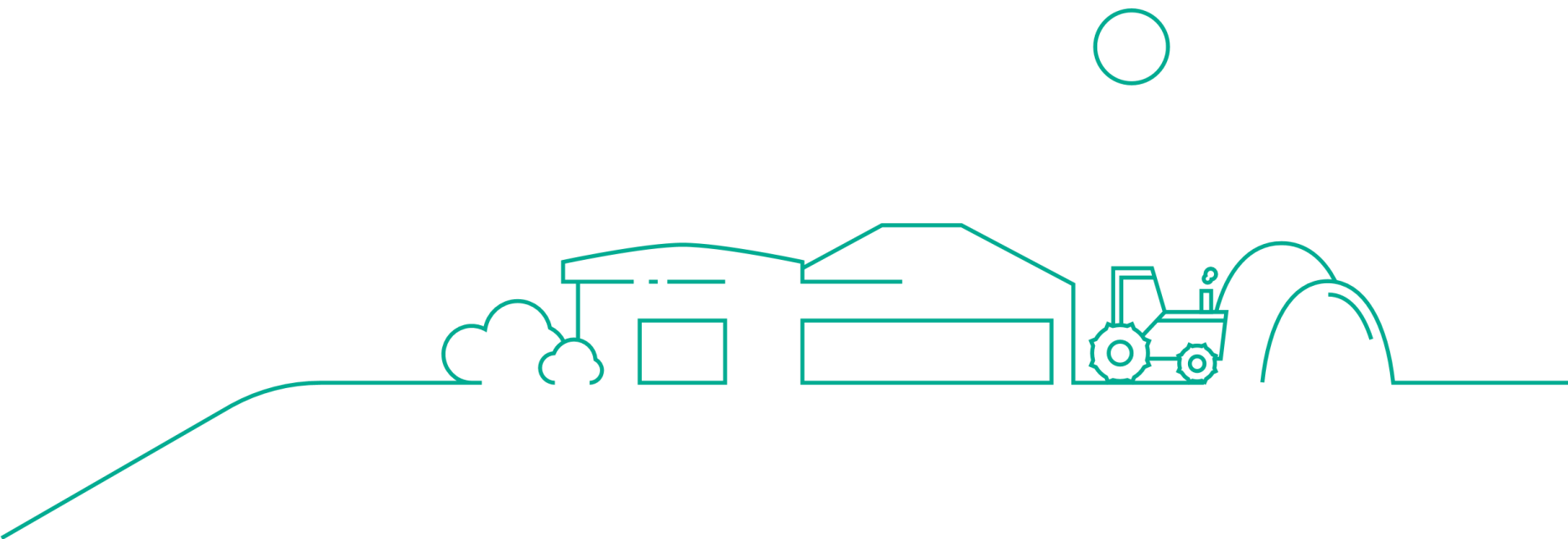
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Consequence of learning  
achieved from prior  
experience in  
preparedness and  
reactivity of Veterinary  
Services



# HPAI in poultry: **CONCLUSIONS**

- **New panzootic** of HPAI with continuously changing virus behaviour
- Importance of collecting as much **accurate, real-time** information as possible
- Early detection and rapid control have improved & **importance of reactivity** to tackle the disease was recognised by Members
- **New WAHIS+ system** for early and timely reporting of information

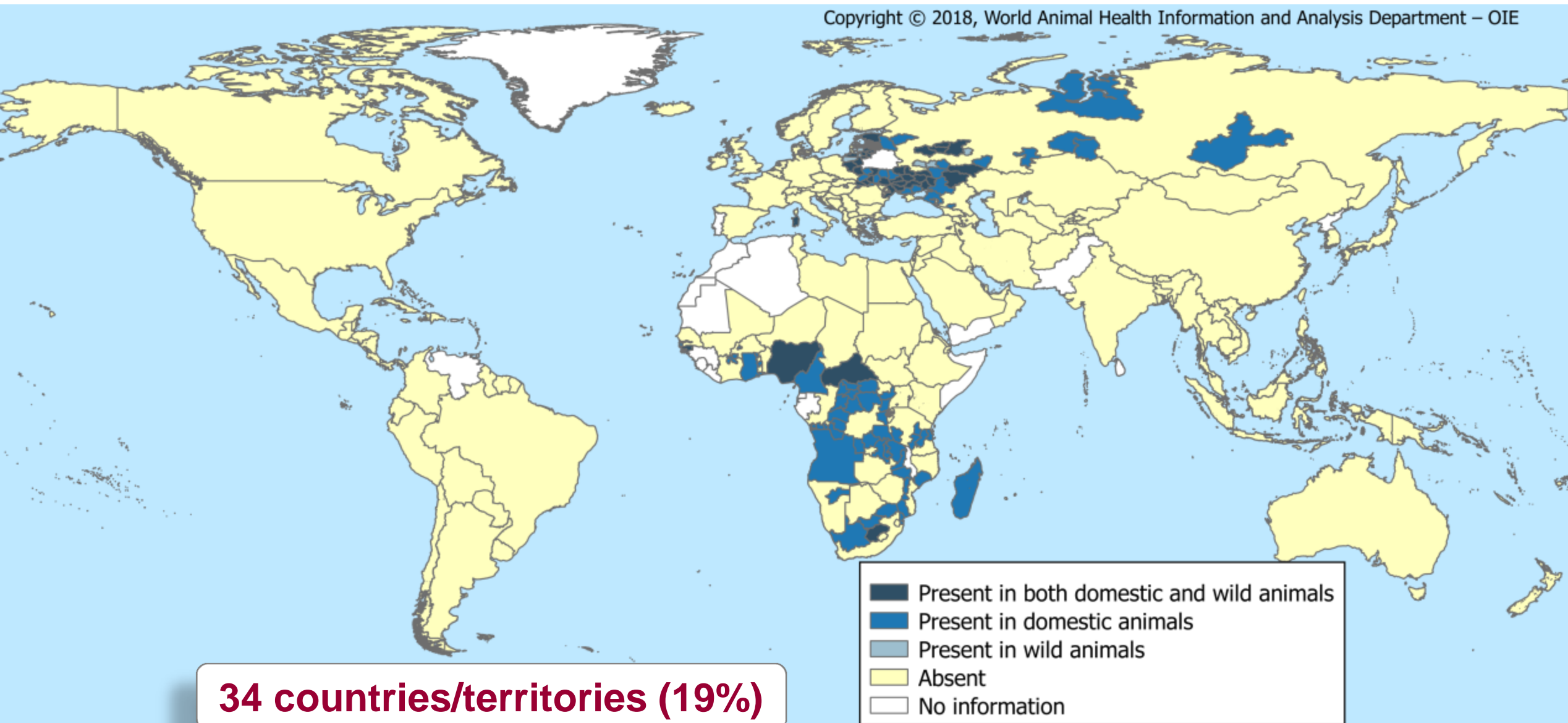


# African swine fever (ASF)

# ASF distribution in 2017 and early 2018

*(data based on reports received up to 6 May 2018)*

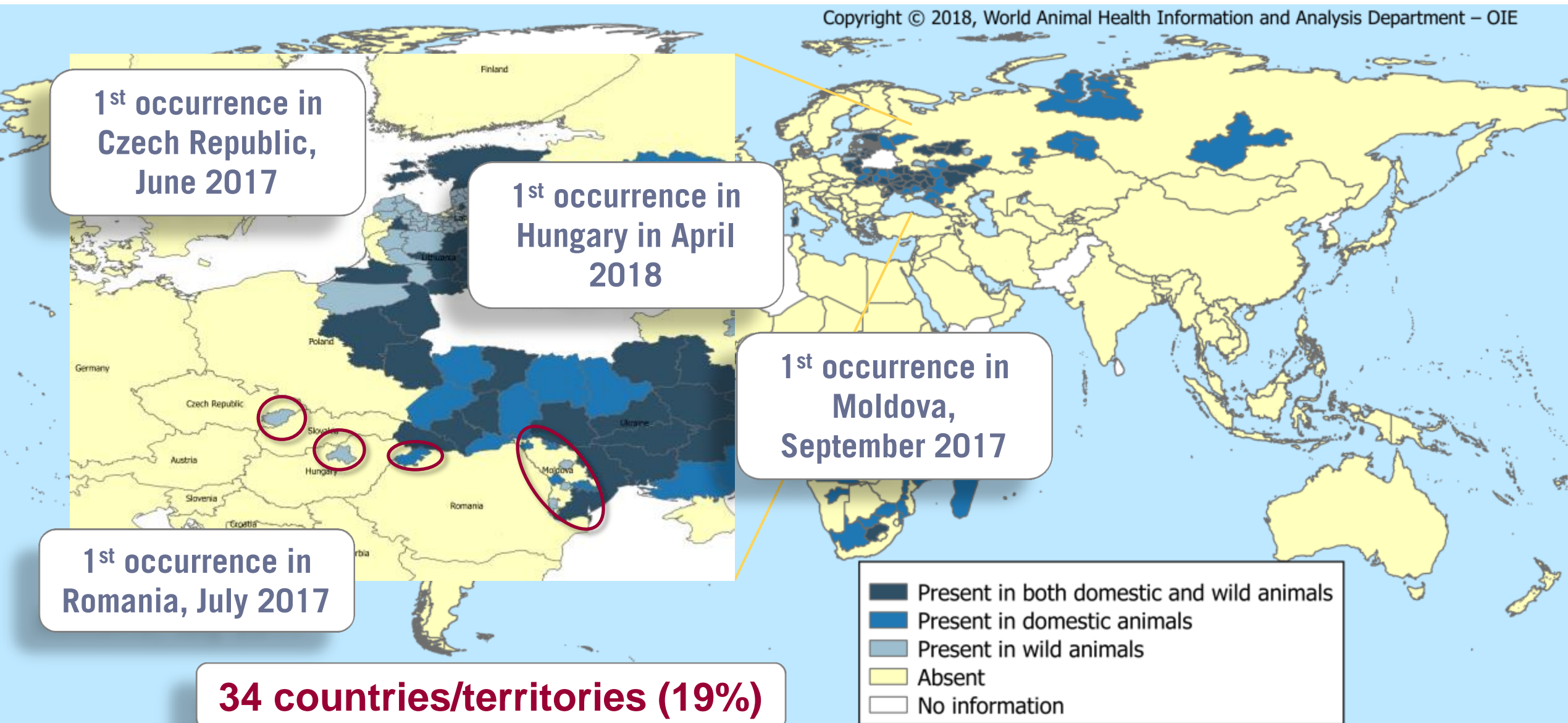
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# ASF distribution in 2017 and early 2018

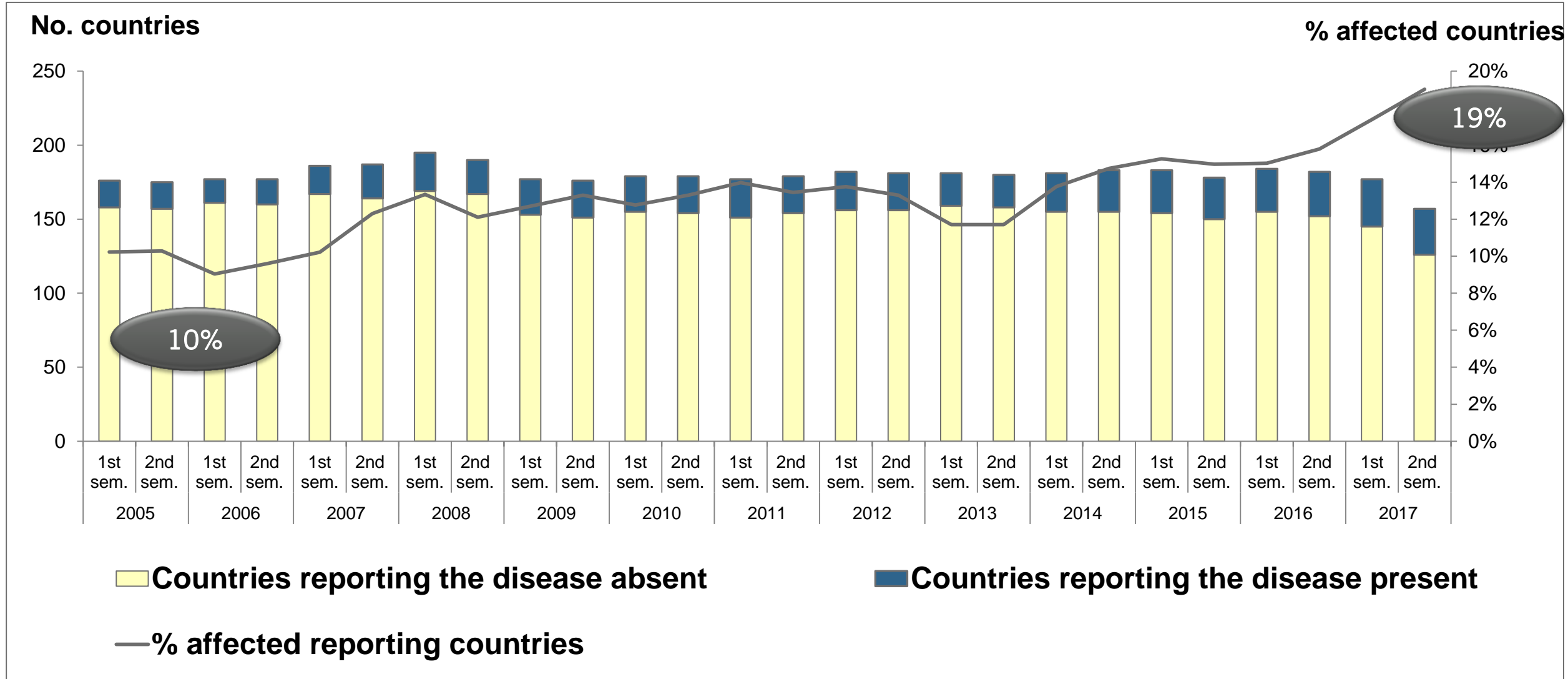
(data based on reports received up to 6 May 2018)

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# % of the reporting countries that notified ASF present between 2005 and 2017

(data based on reports received up to 6 May 2018)



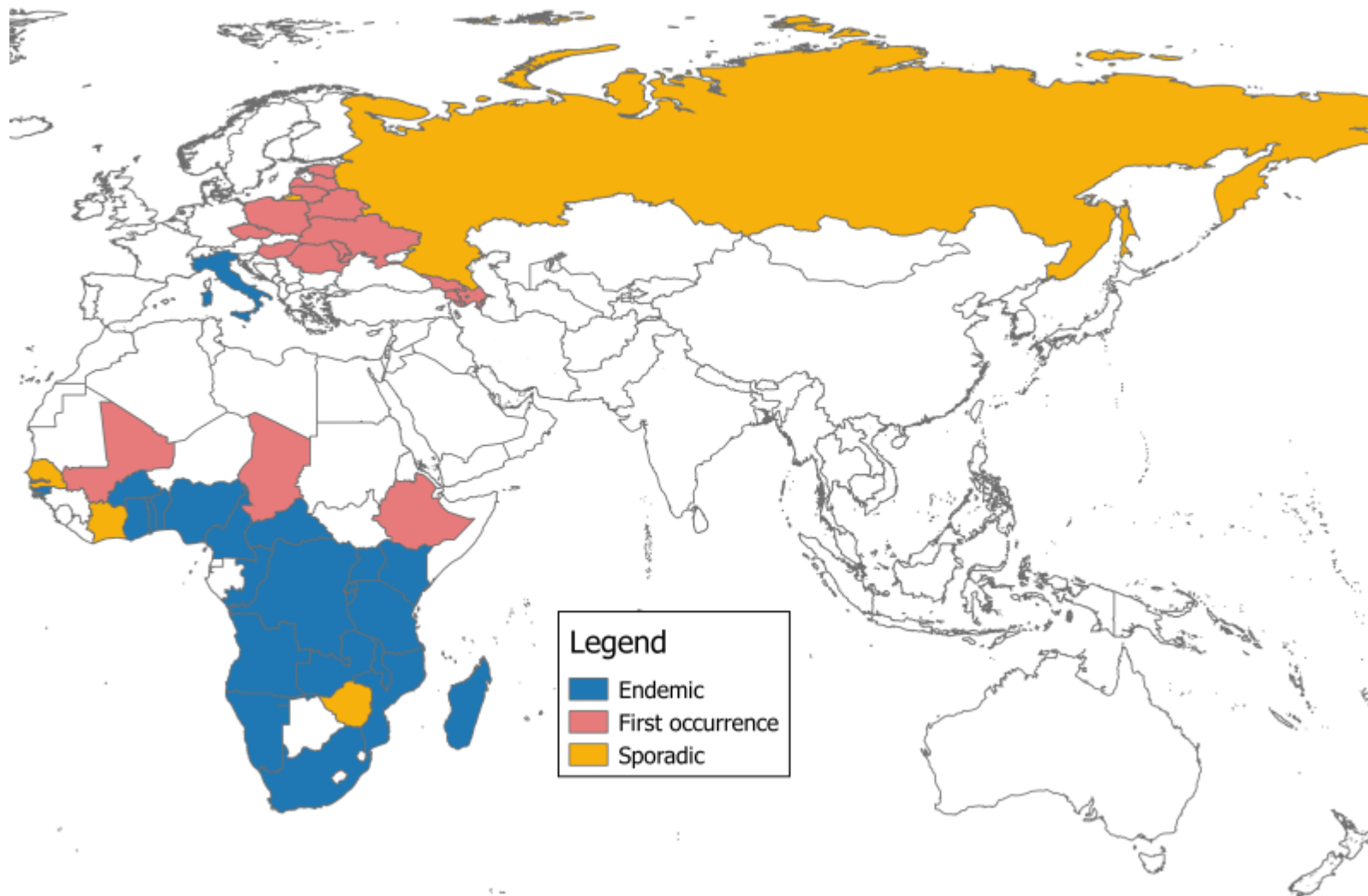
# African swine fever



**Which are the regions and routes at higher risk for ASF introduction?**

# Characterisation of ASF affected countries based on epidemiological scenarios (2005-2018)

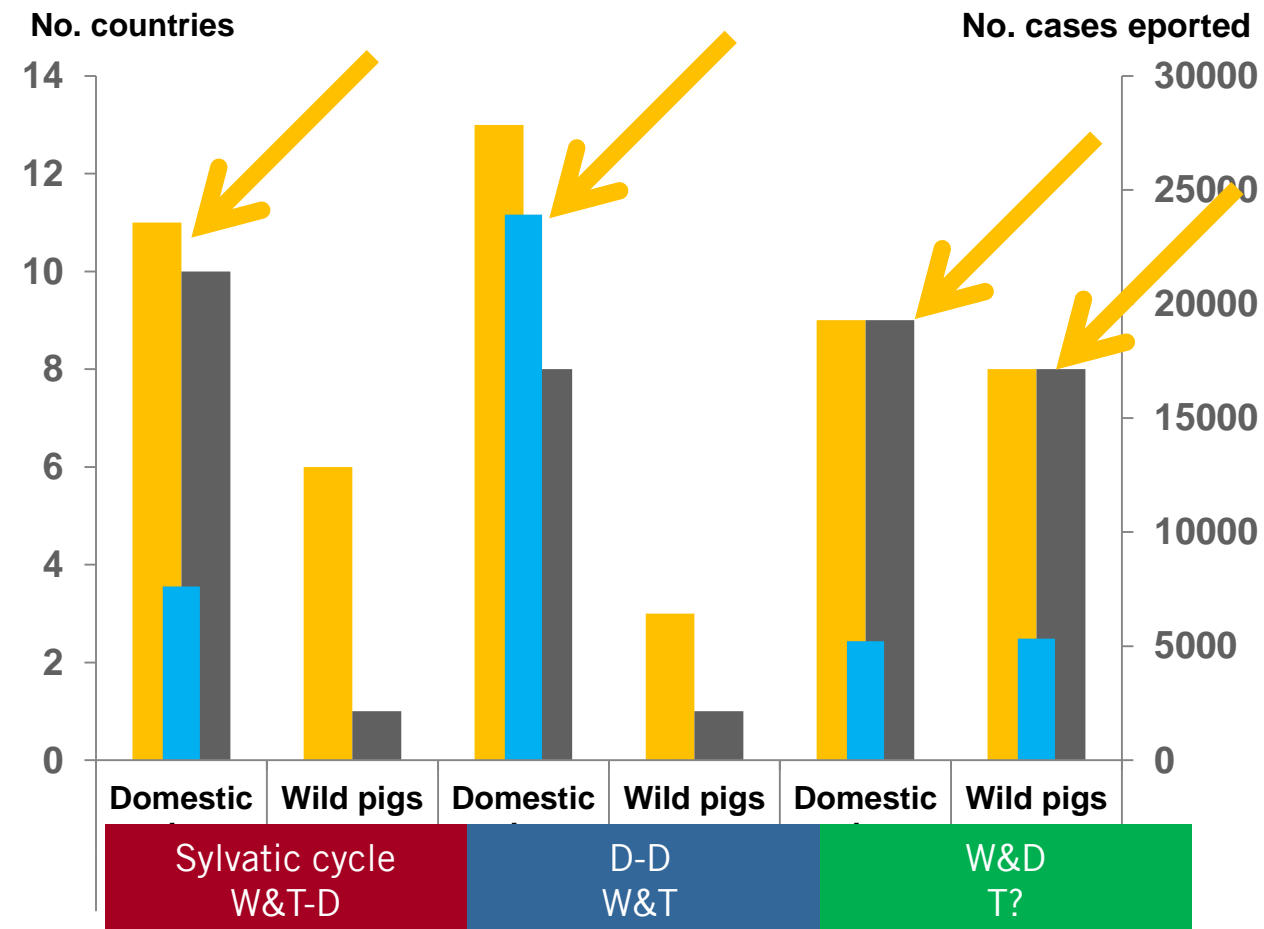
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- **In Africa:** 75% countries categorised as endemic
- **In Europe:** the majority first occurrence

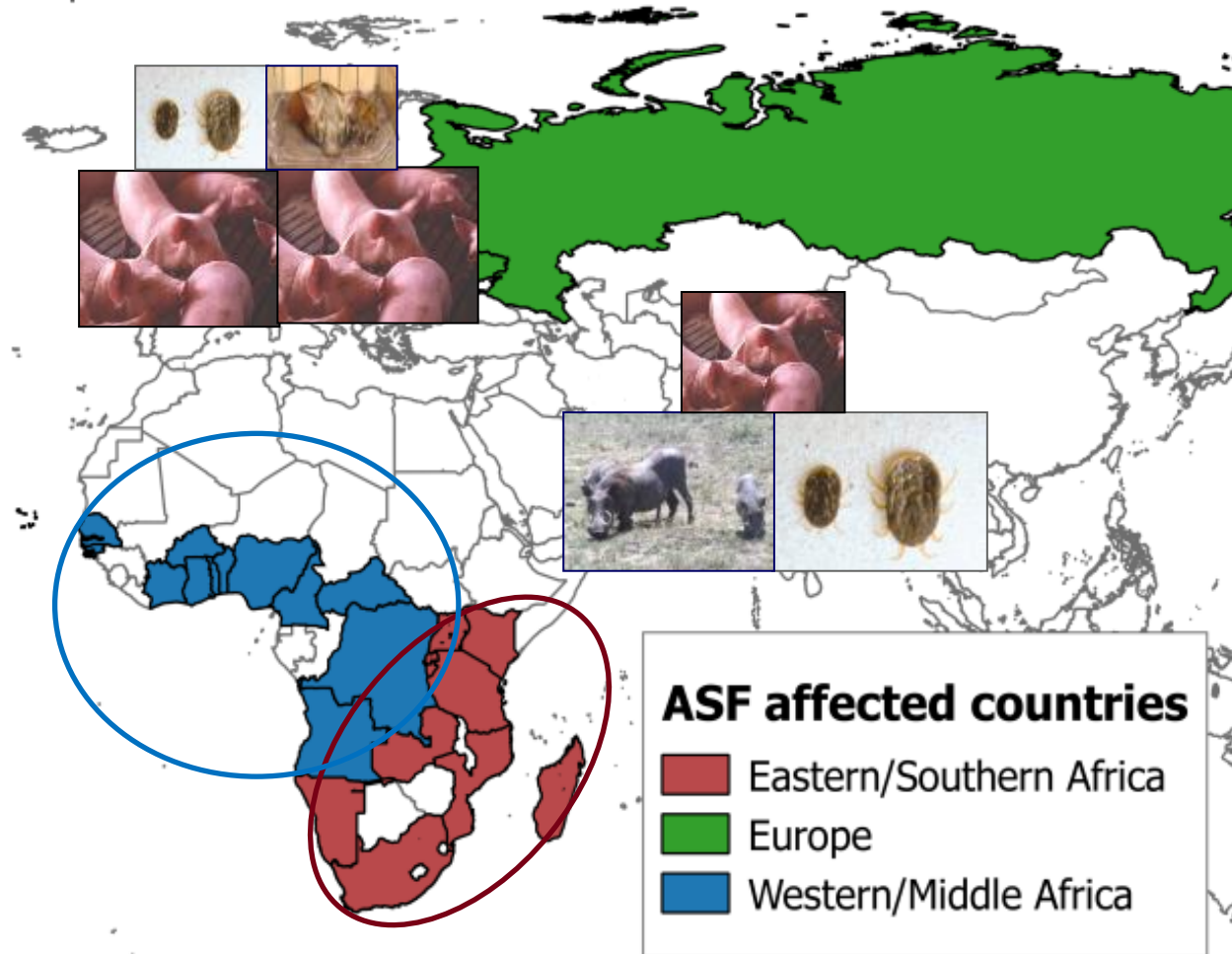
# ASF Reporting by epidemiological scenario in 2017

■ Reporting presence  
■ Number of cases  
■ Providing Quantitative info



D: domestic pig; W: wild pig; T: ticks

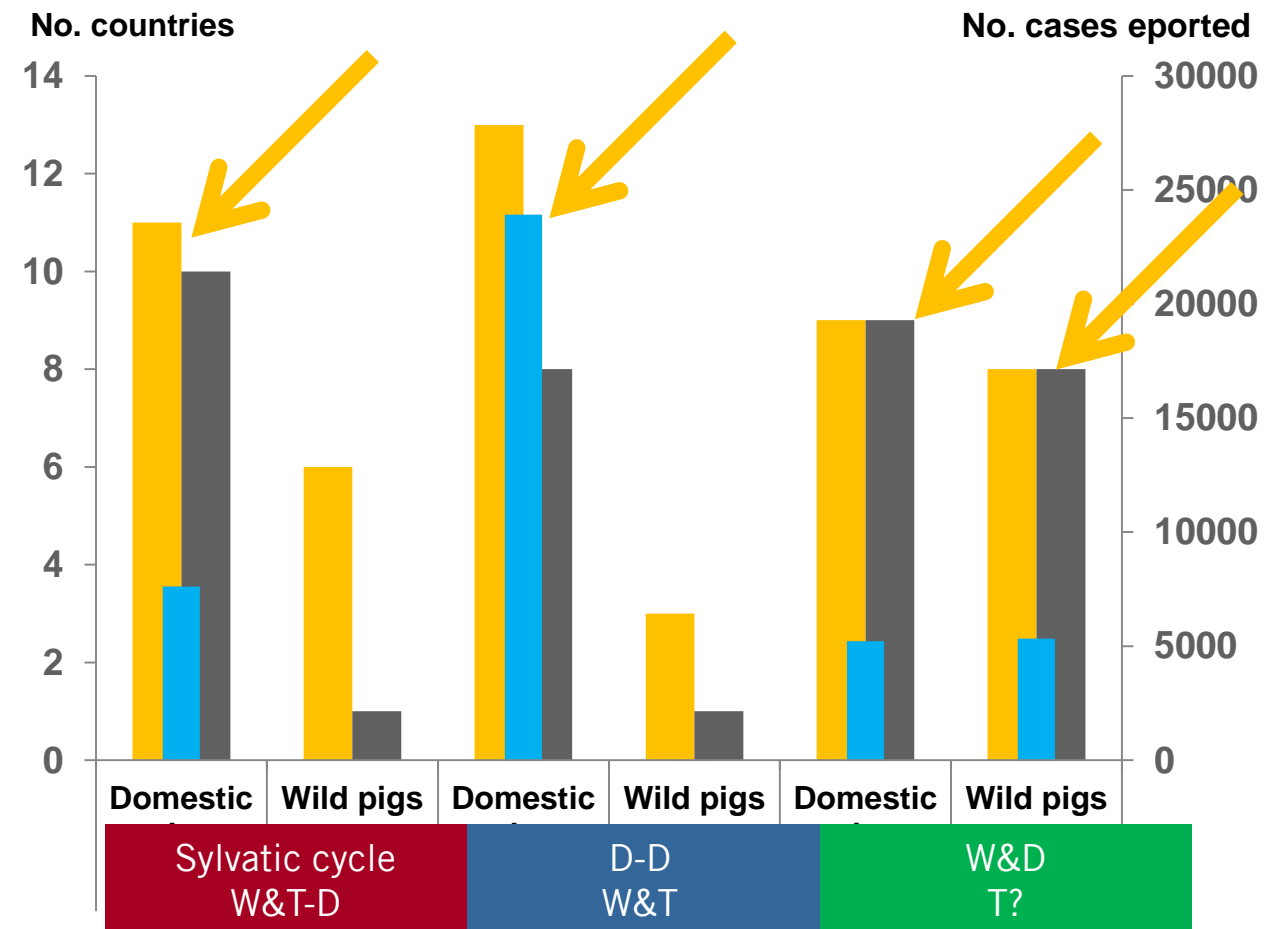
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3 scenarios → Origin of the risk in the Risk assessment

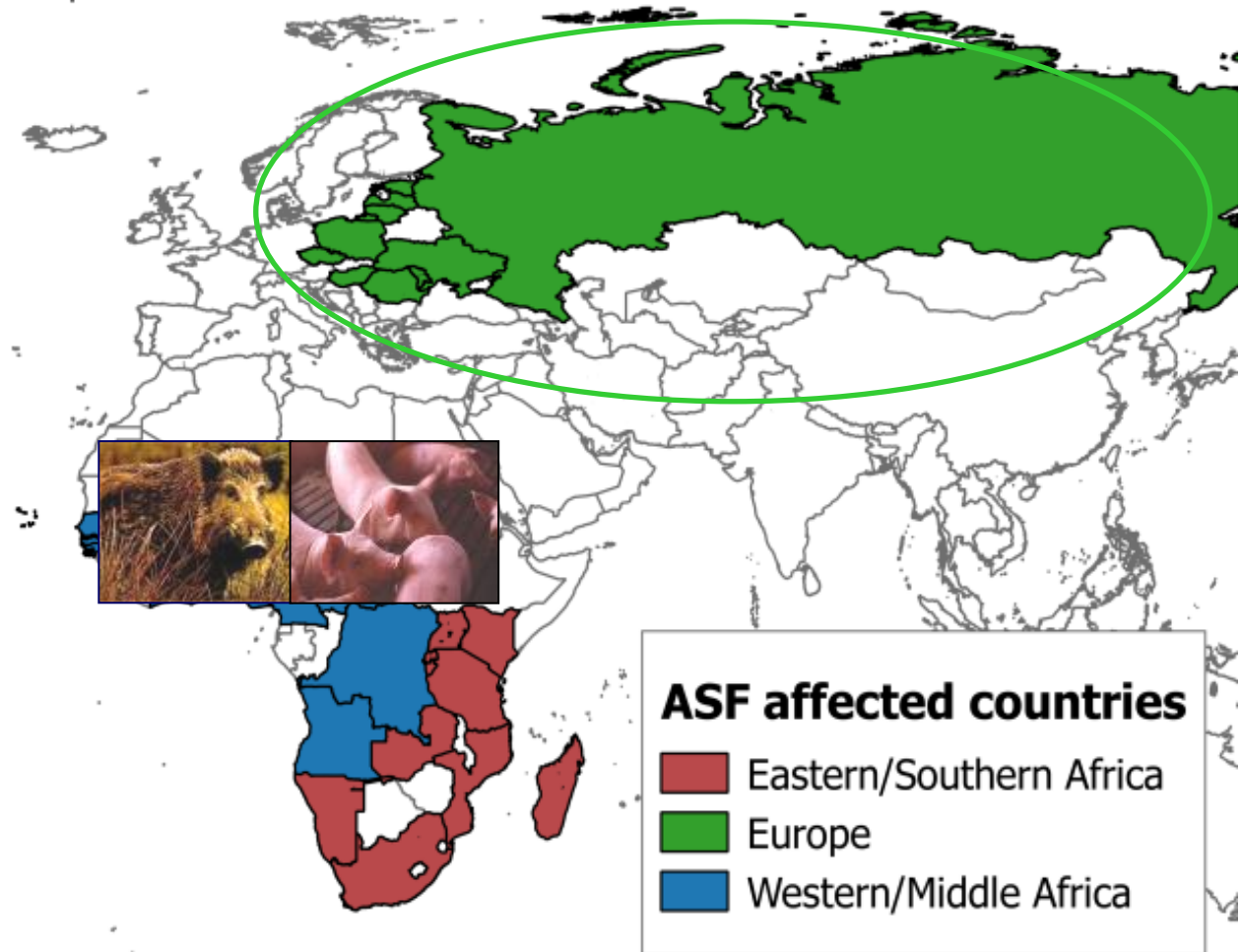
# ASF Reporting by epidemiological scenario in 2017

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

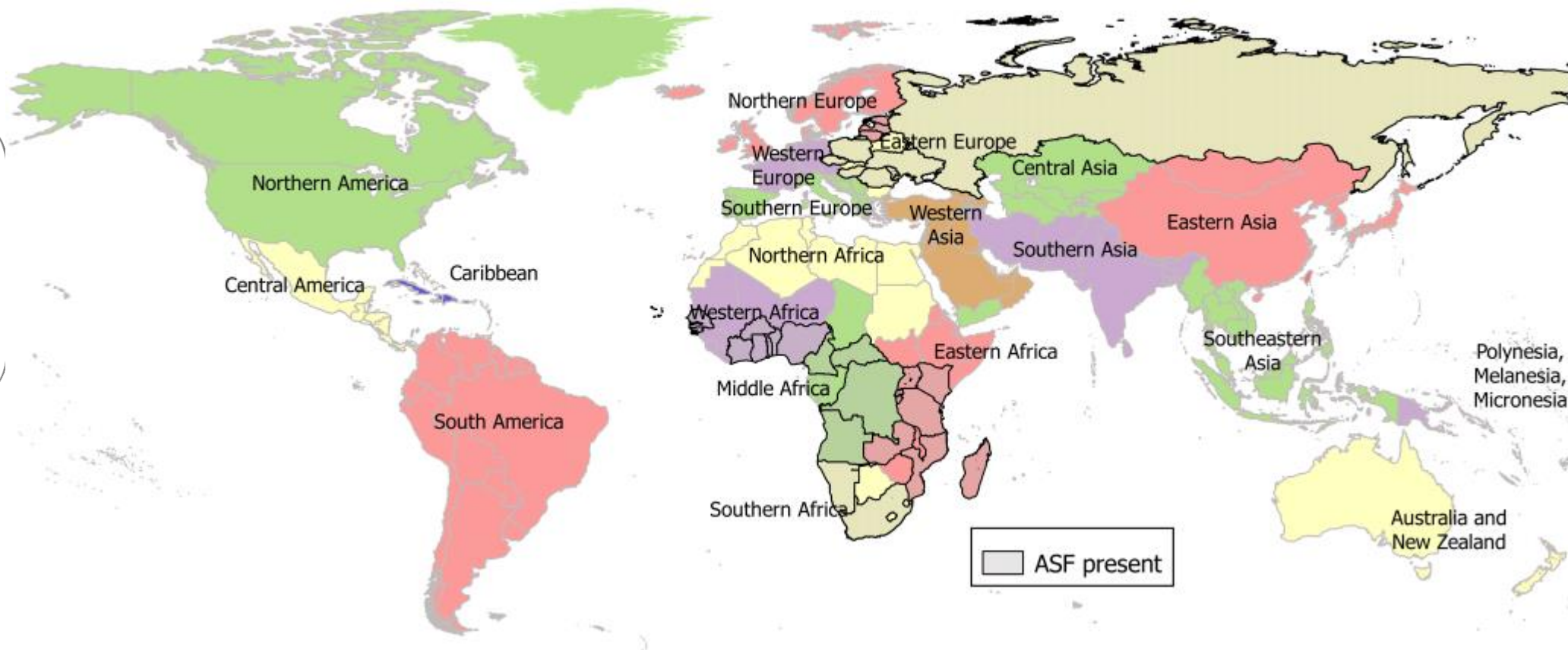


3 scenarios → Origin of the risk in the Risk assessment

## Qualitative assessment of the risk of ASF introduction into free regions through 7 pathways/routes of introduction

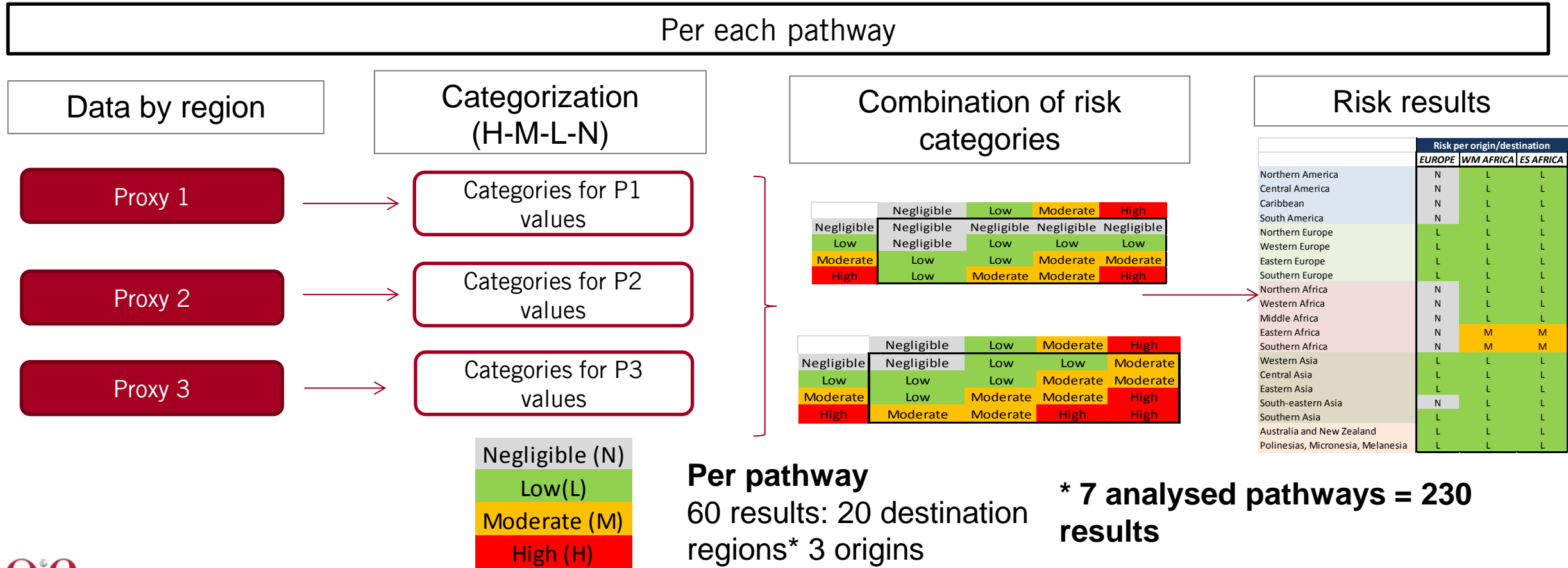
Copyright © 2018, World Animal Health Information and Analysis Department – OIE

Destination of  
risk =  
free ASF  
countries by  
regions\*

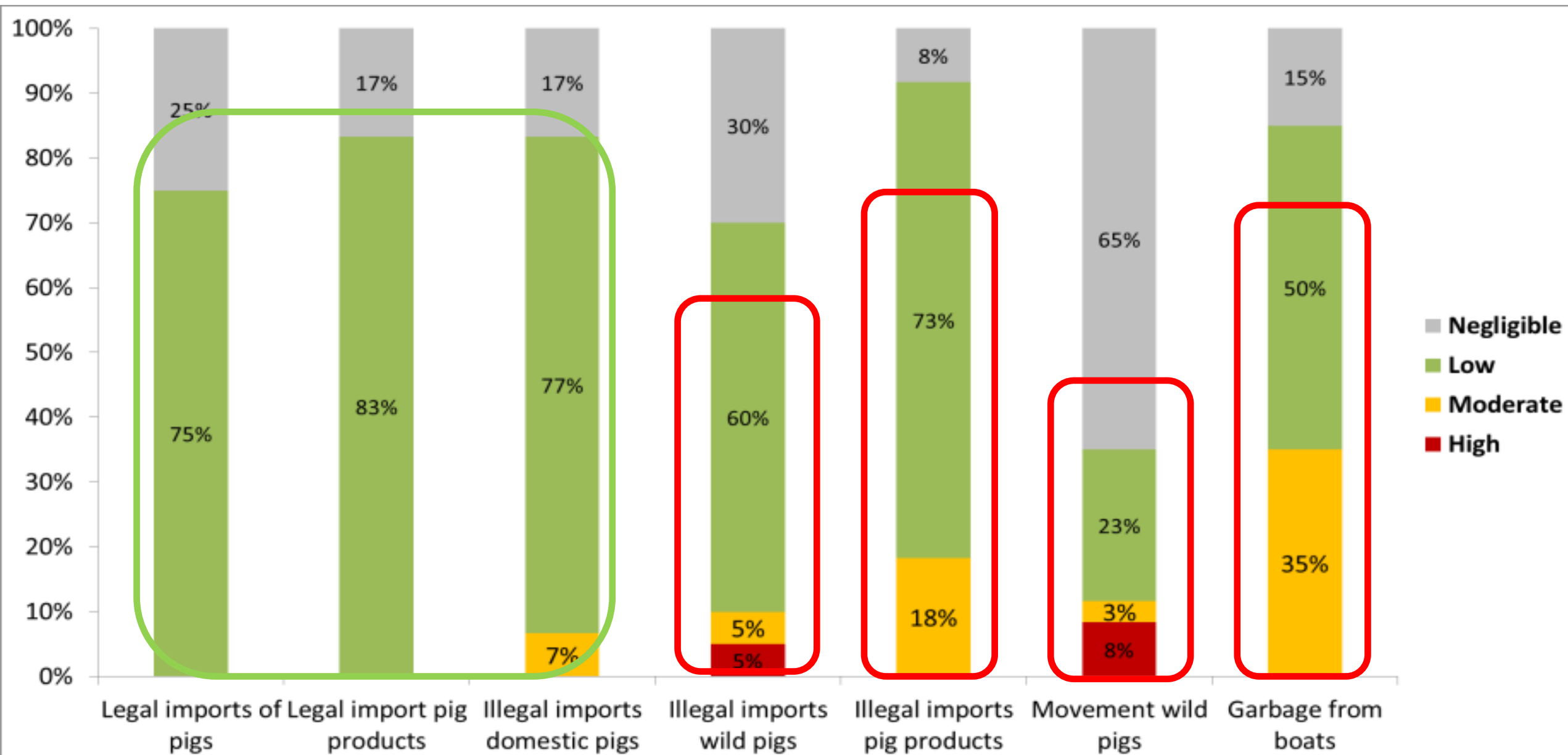


\* UN geographical regions

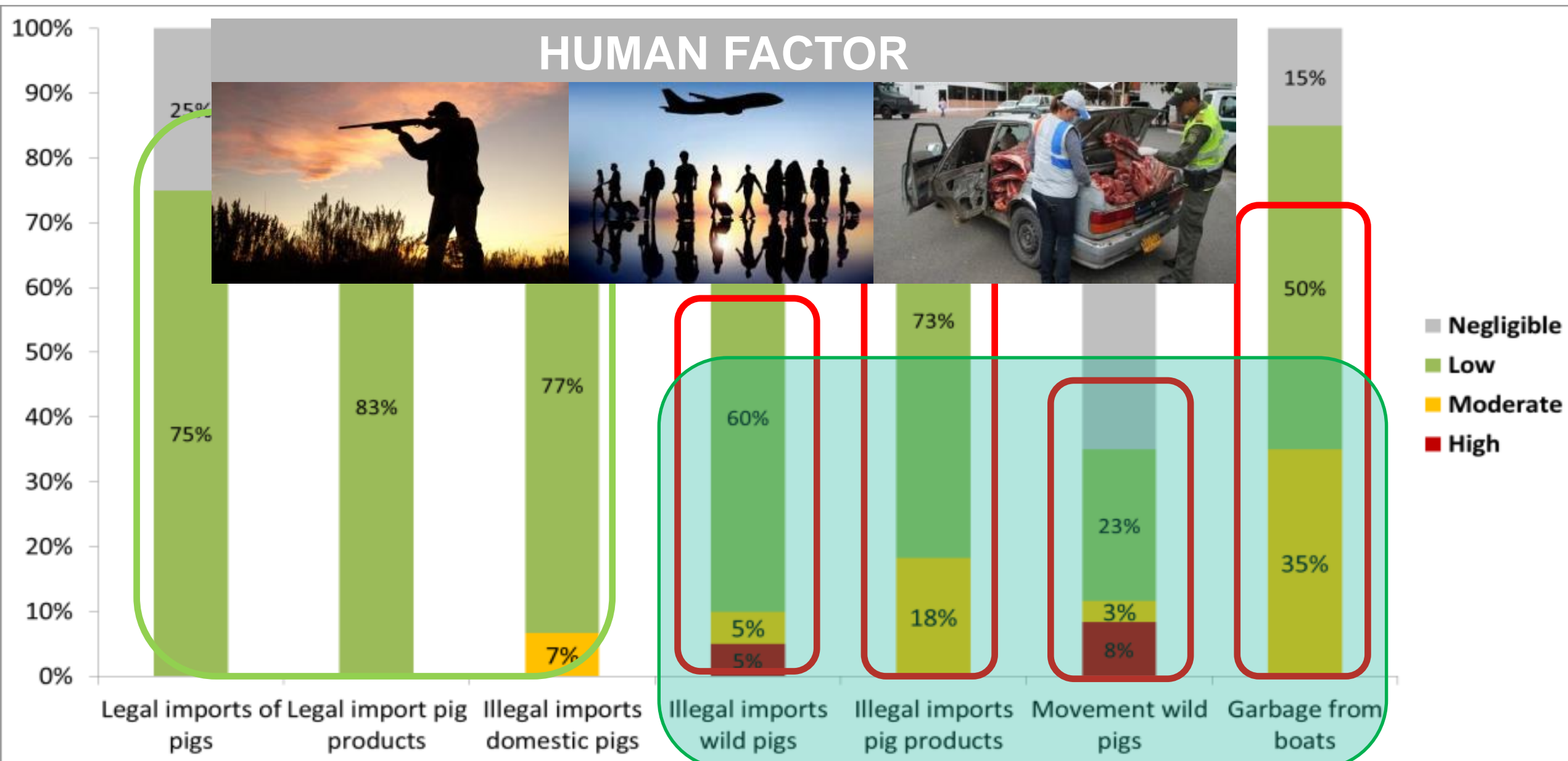
Qualitative risk assessment based on the use of **proxies** (factors that are likely to influence the risk for each pathway).



# ASF: Results



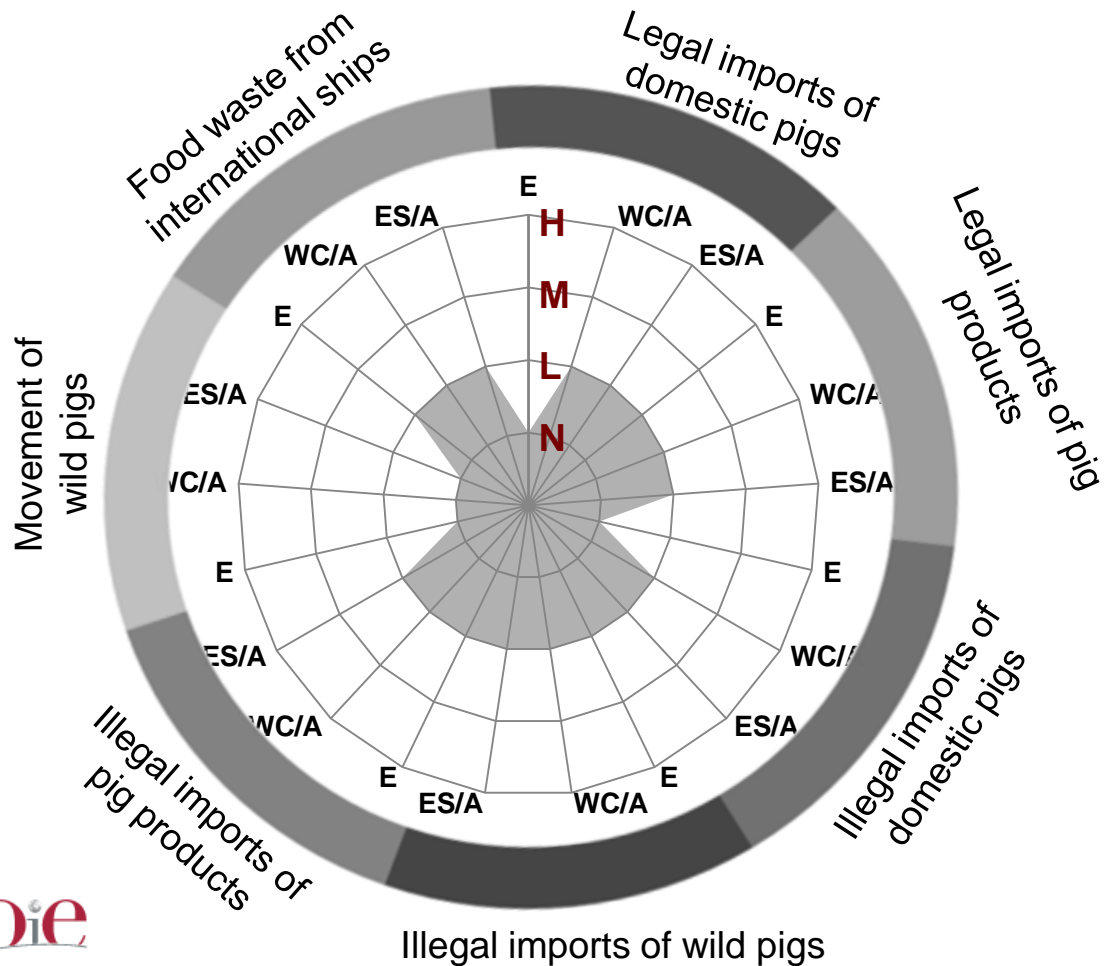
# ASF: Results



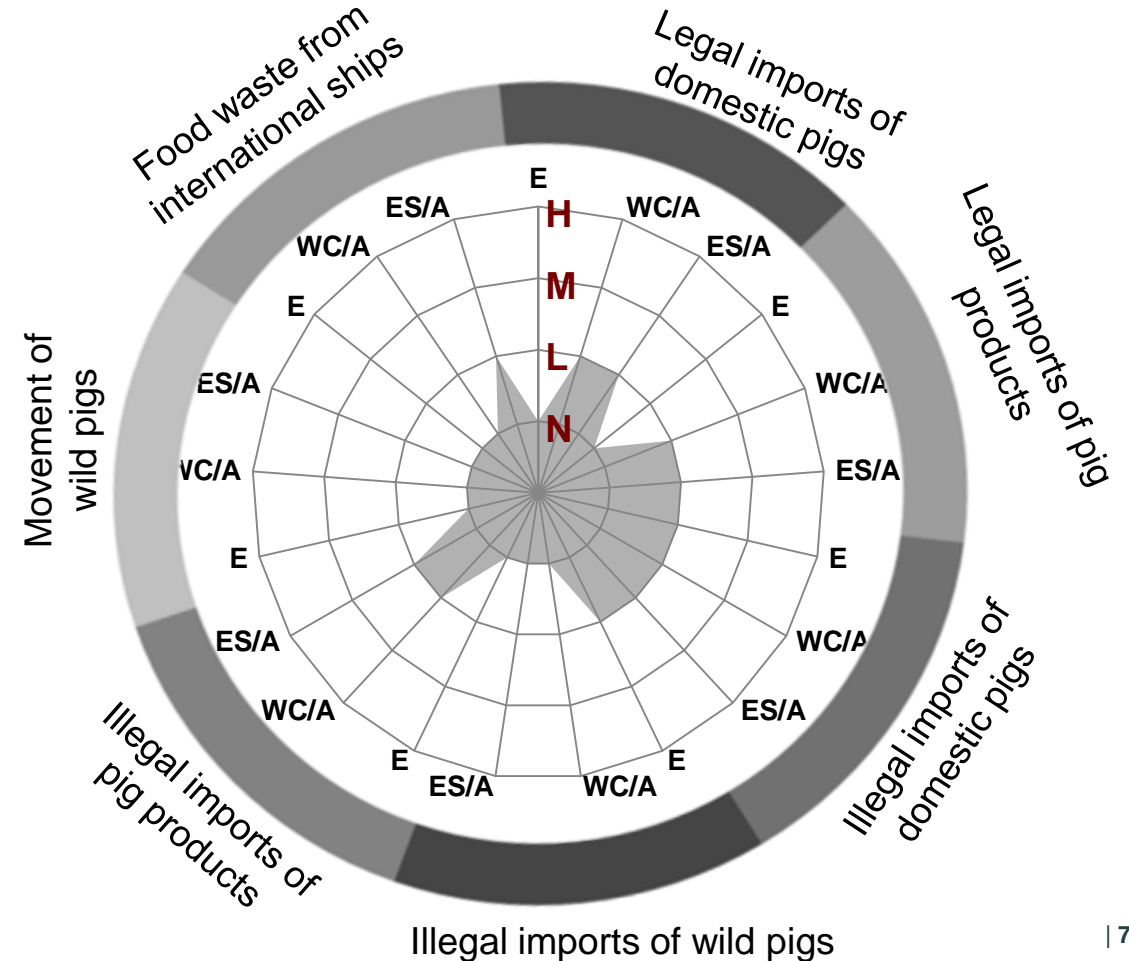
# Individual risk profiles were produced for each region

The risk for ASF introduction into America and Oceania regions was generally low /negligible.

## Caribbean



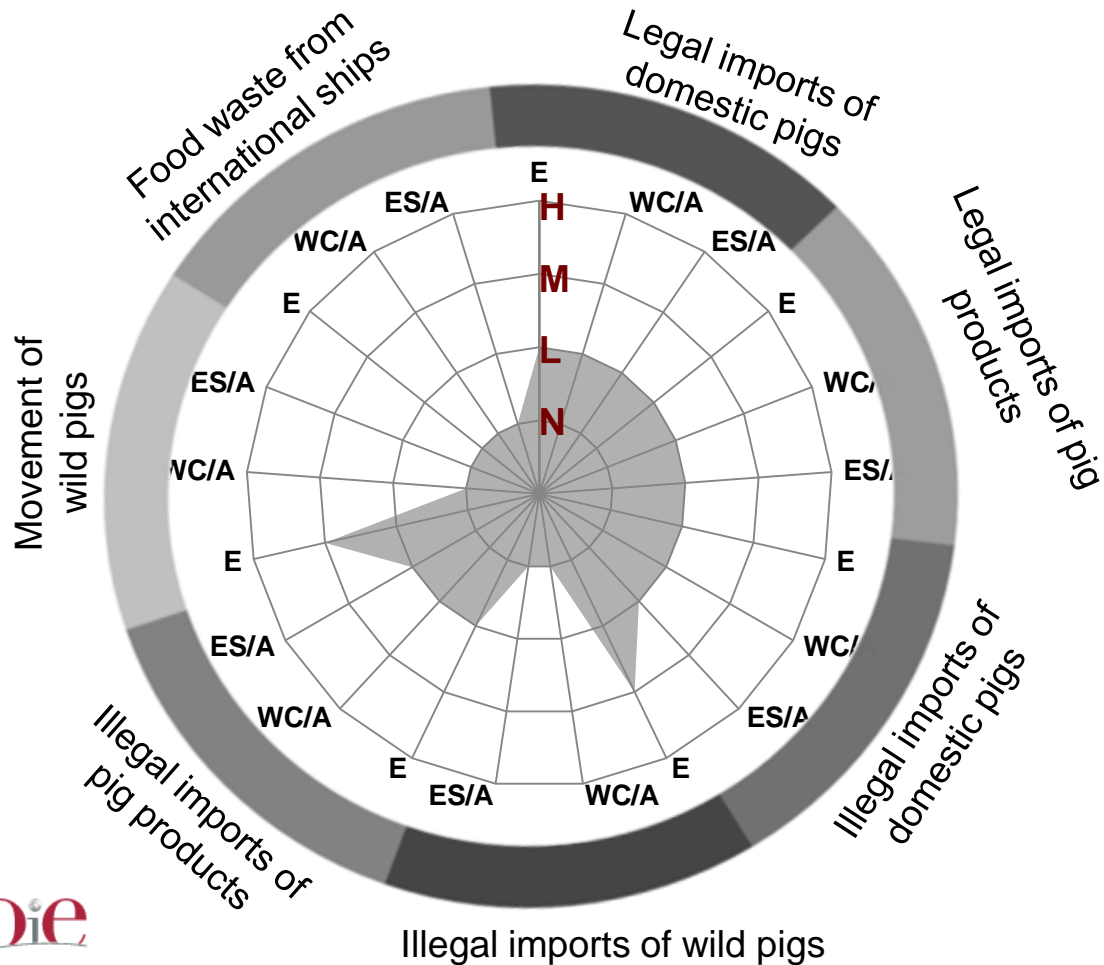
## Polynesia, Micronesia and Melanesia



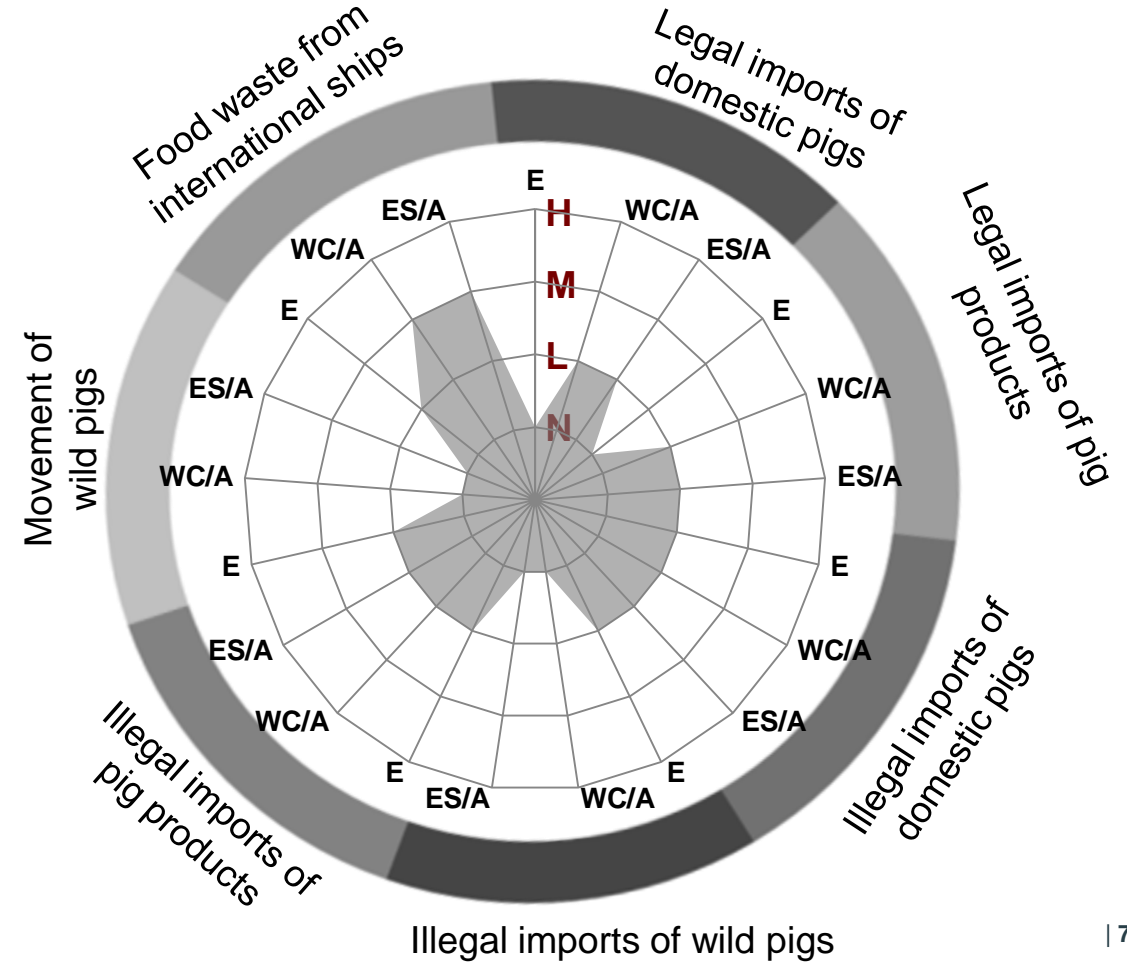
# Individual risk profiles were produced for each region

Certain regions in Asia presented moderate risk in specific pathways.

## Central Asia



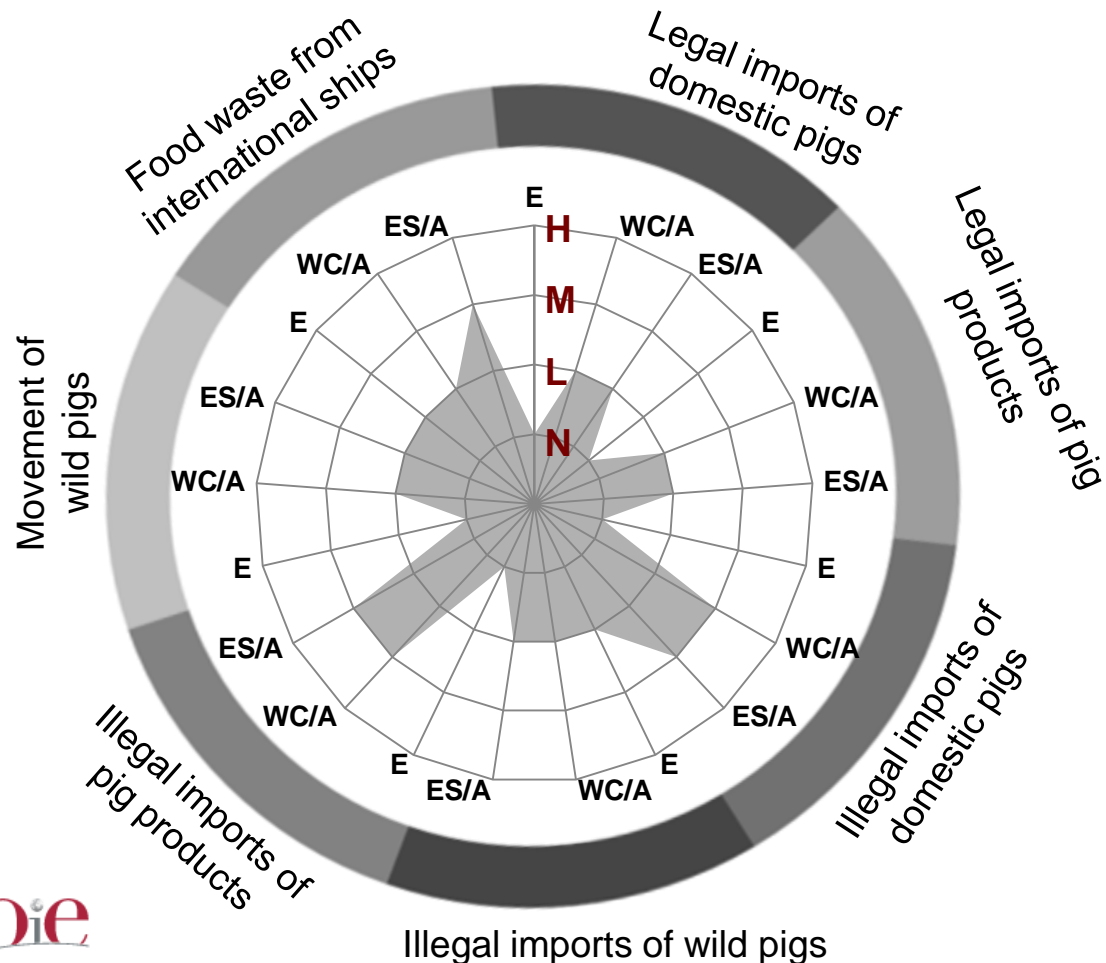
## Southern Asia



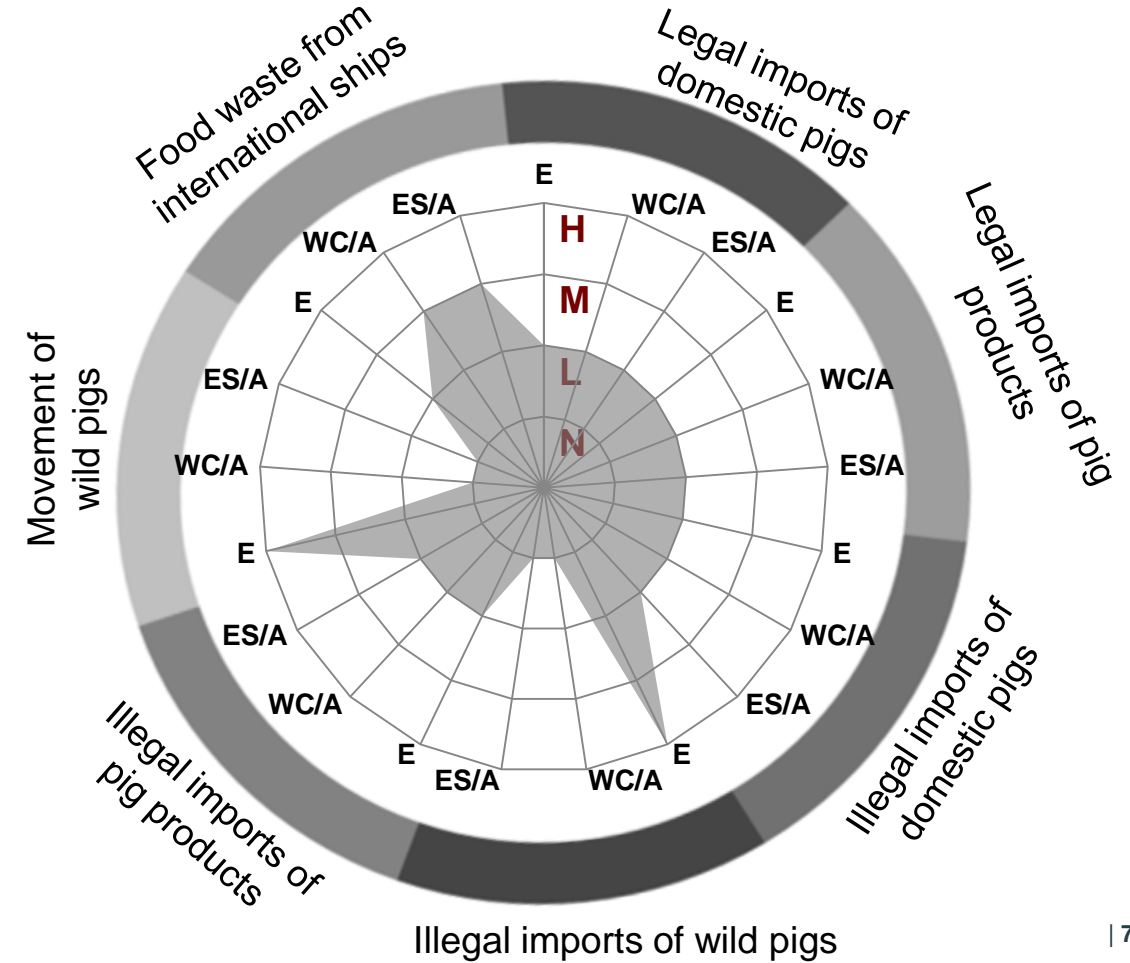
# Individual risk profiles were produced for each region

ASF-free European and African countries presented the highest risks for ASF introduction but with different profiles between them.

## Eastern Africa



## Northern Europe



# ASF: CONCLUSIONS

- The global situation of ASF has deteriorated in recent years.
- The risk assessment presented here only evaluated the first step of ASF virus release, without considering the exposure of susceptible population nor the consequences.
- The identified risks should be managed by adequate prevention measures including biosecurity and coordination with all stakeholders involved.
- The Standing Group of Experts on ASF in Europe (under GF-TADs) could serve as a model for other diseases.



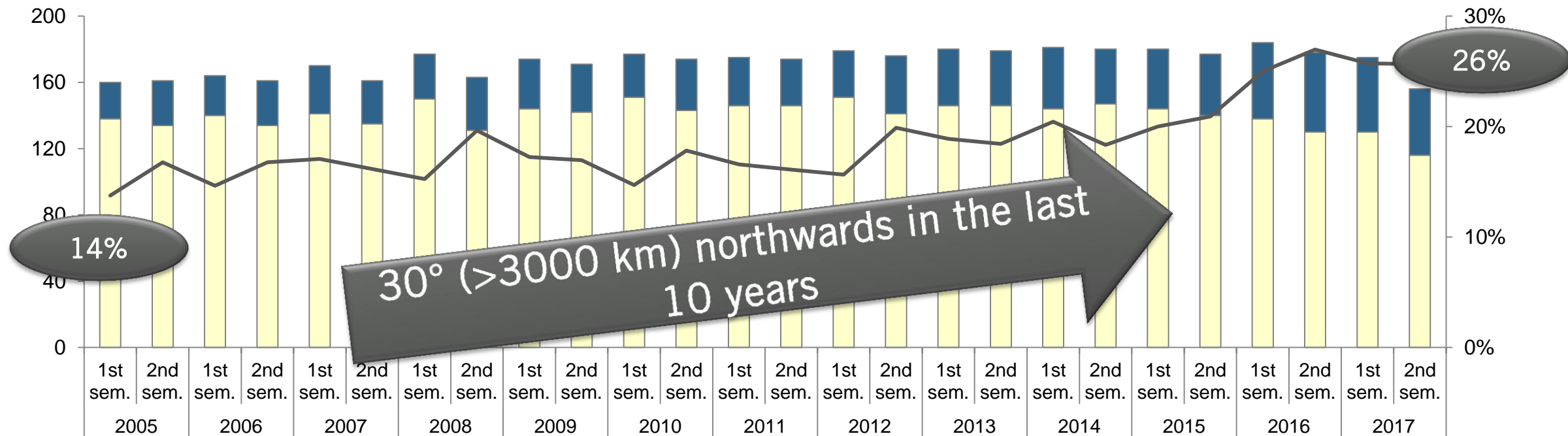
# Lumpy skin disease (LSD)

# % of the reporting countries that notified LSD present between 2005 and 2017

(data based on reports received up to 6 May 2018)

No. countries

% affected countries



■ Countries reporting the disease absent

■ Countries reporting the disease present

— % affected reporting countries

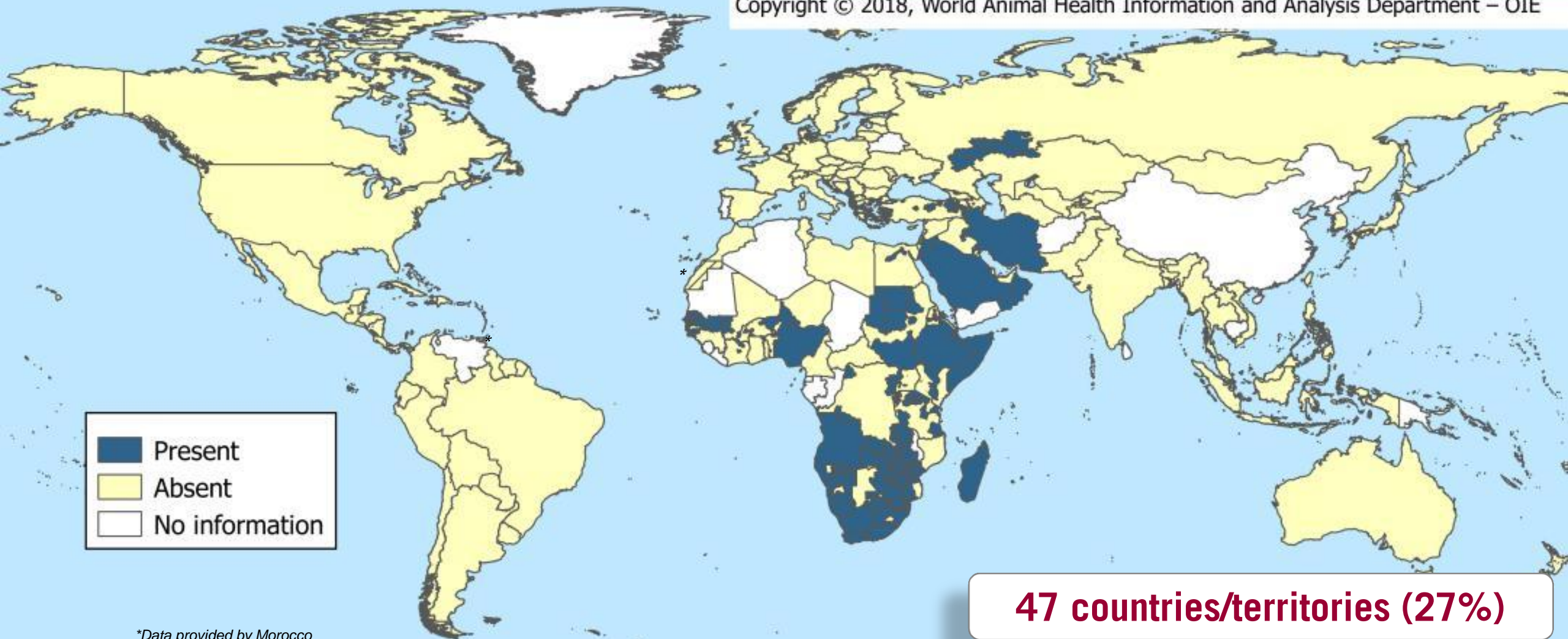
**Deterioration**



# LSD distribution in 2017 and early 2018

*(data based on reports received up to 6 May 2018)*

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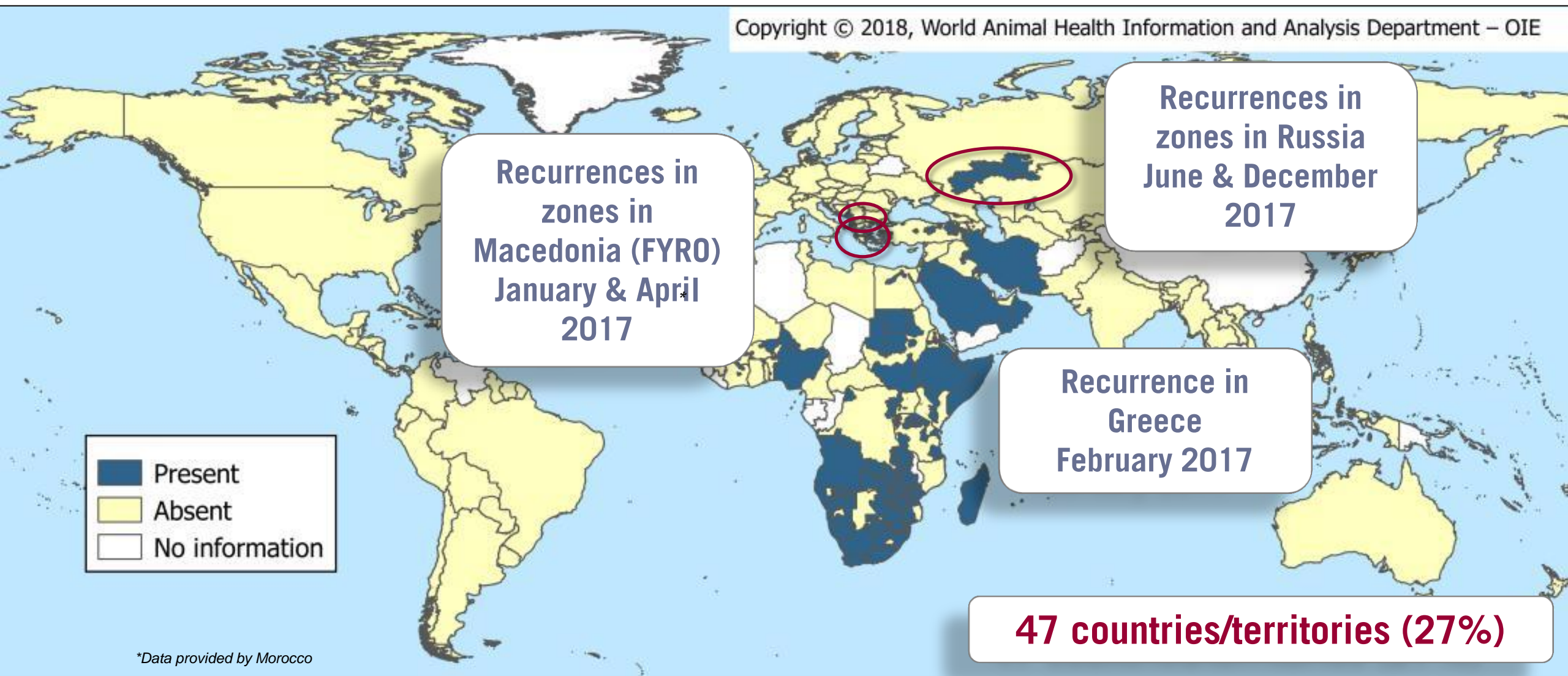


\*Data provided by Morocco

# LSD distribution in 2017 and early 2018

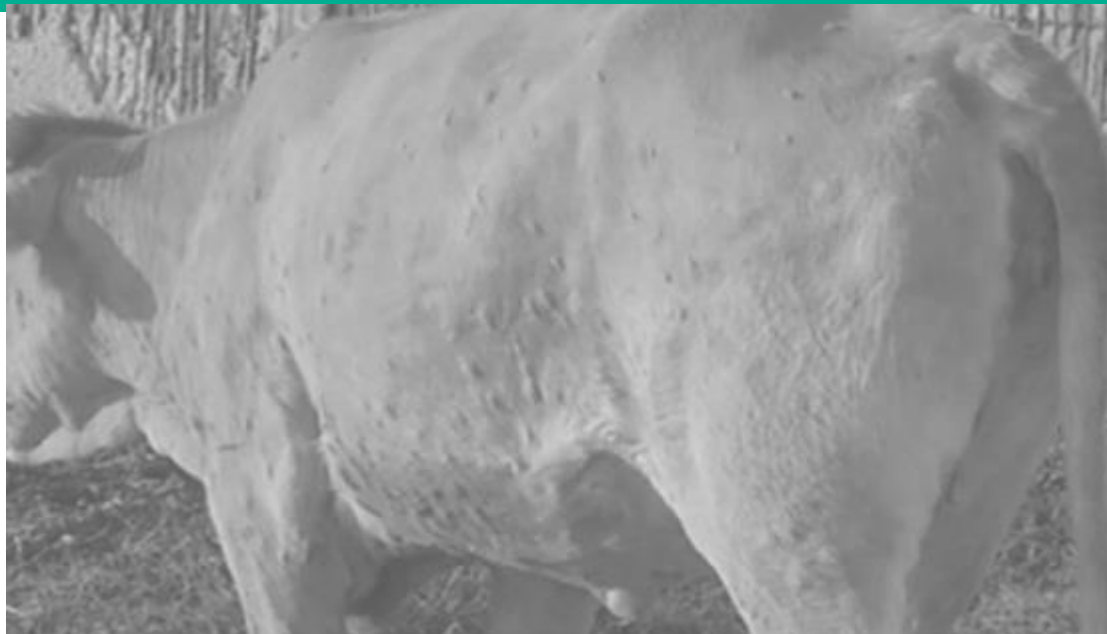
*(data based on reports received up to 6 May 2018)*

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



\*Data provided by Morocco

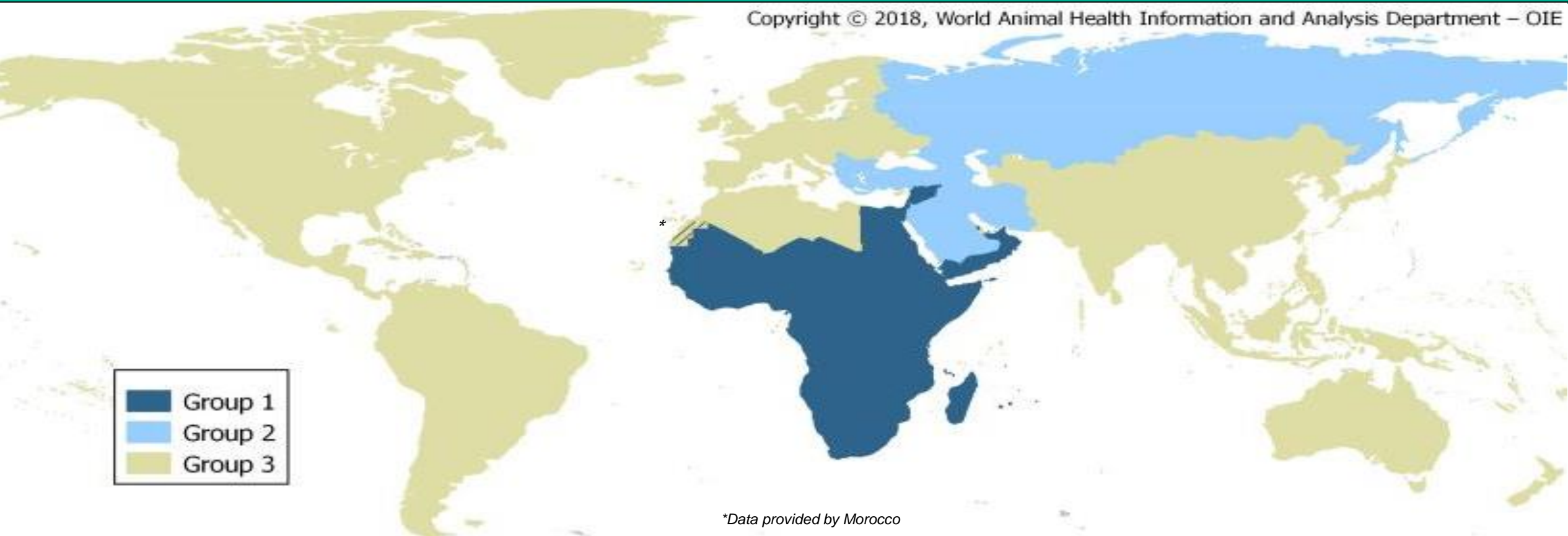
# Lumpy skin disease



Prevention and control strategies implemented over the past 13 years & differences in disease evolution?



# Lumpy skin disease: Methodology



- **Groups 1 and 2:** description *trend of the disease* & *control strategies* implemented at regional level
- **Group 3:** description *preventive strategies*

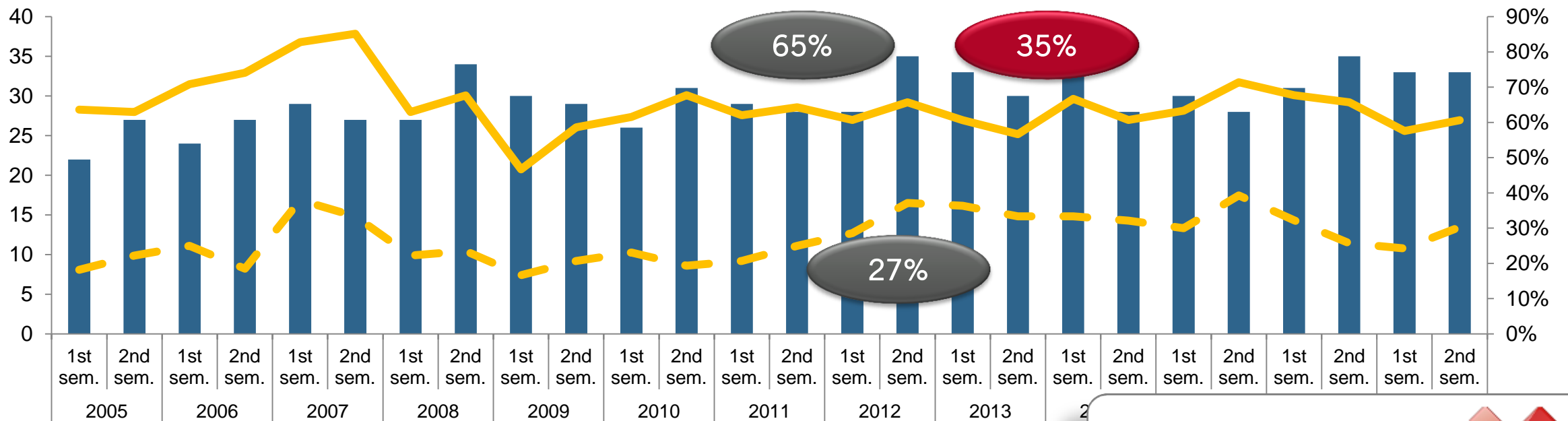
# LSD: Results – Group 1



## Traditionally affected areas

No. countries

% affected countries



■ Countries reporting LSD present

— % affected countries reporting control strategies

- - % affected countries reporting all recommended pillars of LSD control strategy

**No improvement**



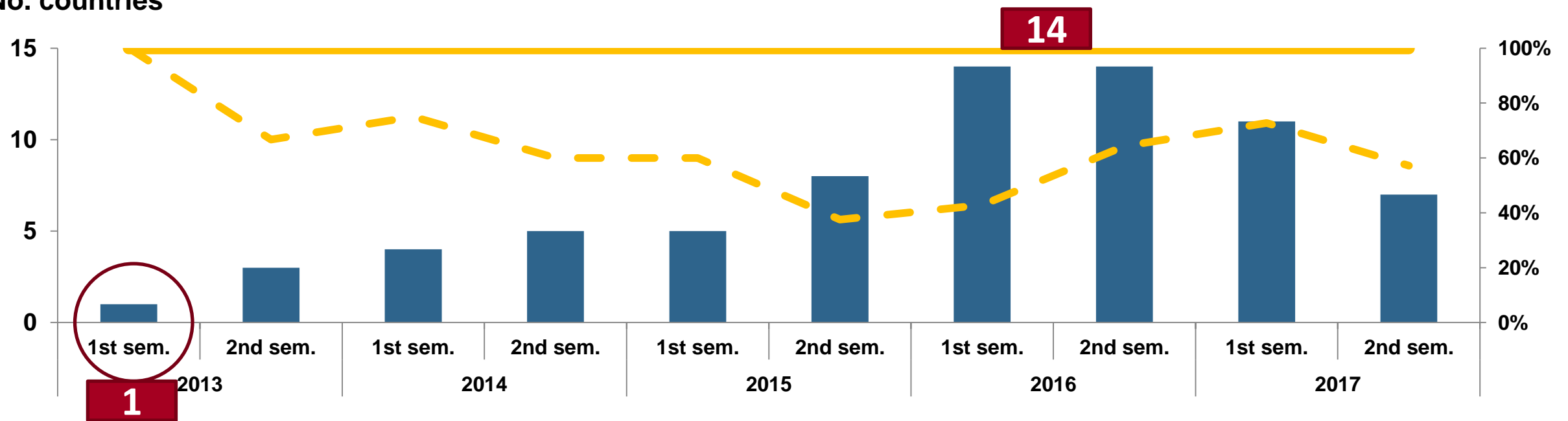
# LSD: Results- Group 2

## Recently affected areas



No. countries

% affected countries



■ Countries reporting LSD present

— % affected countries reporting control strategies

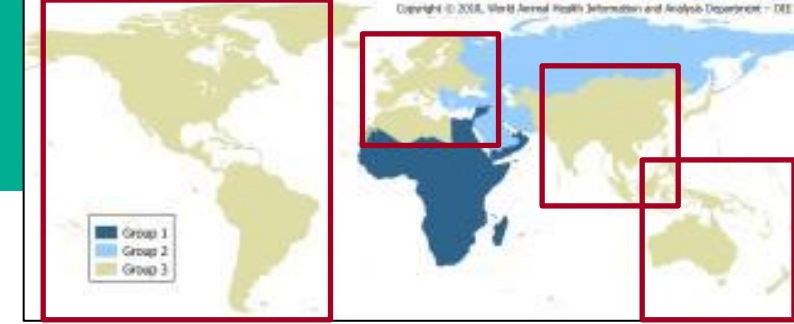
— % affected countries reporting all recommended pillars of LSD control strategy

Successful strategy



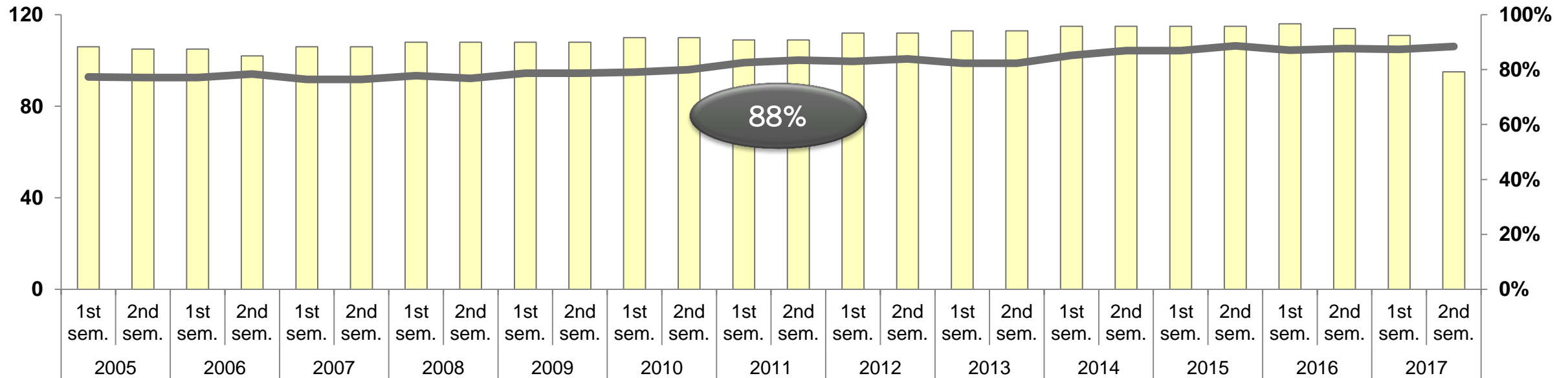
# LSD: Results-Group 3

## Free Areas



No. countries

% reporting countries



**More countries  
implementing  
preventive strategies** ✓

■ Countries reporting LSD absent

— % reporting countries notifying preventive strategies

# LSD: CONCLUSIONS

- Quick spread in 2014-2016 but **no further spread in 2017/2018**
- **Effectiveness of the control strategies** in recently affected areas
- Assistance from OIE Reference Laboratories and Collab. Centres
- Members in at-risk areas are encouraged to initiate **vaccination campaigns ahead of virus entry**
- **Manual** and **Code** Chapters on LSD were updated in 2016 and 2017



# **Tilapia lake virus disease:** *an emerging disease in aquatic animals*

# Aquatic Animal Health Code: **Emerging disease**



Means a disease, other than listed diseases, which has a significant impact on aquatic animal or public health resulting from:

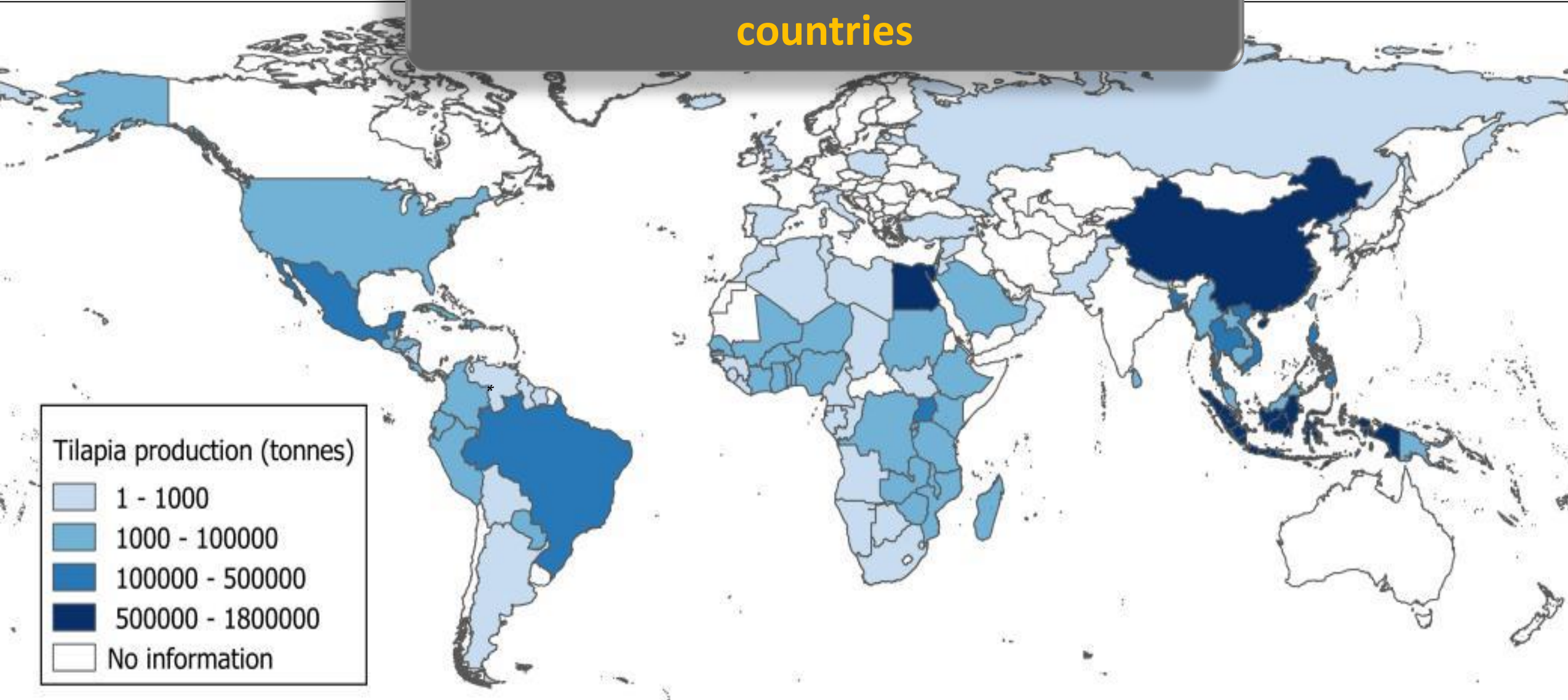
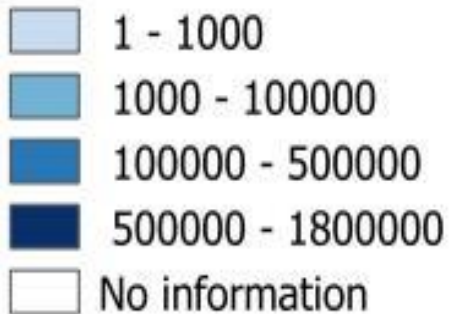
- a change of known pathogenic agent or its spread to a new geographic area or species; **or**
- a newly recognised or suspected pathogenic agent.

# Global distribution of annual tilapia production in 2015

(data based on information provided by FAO)

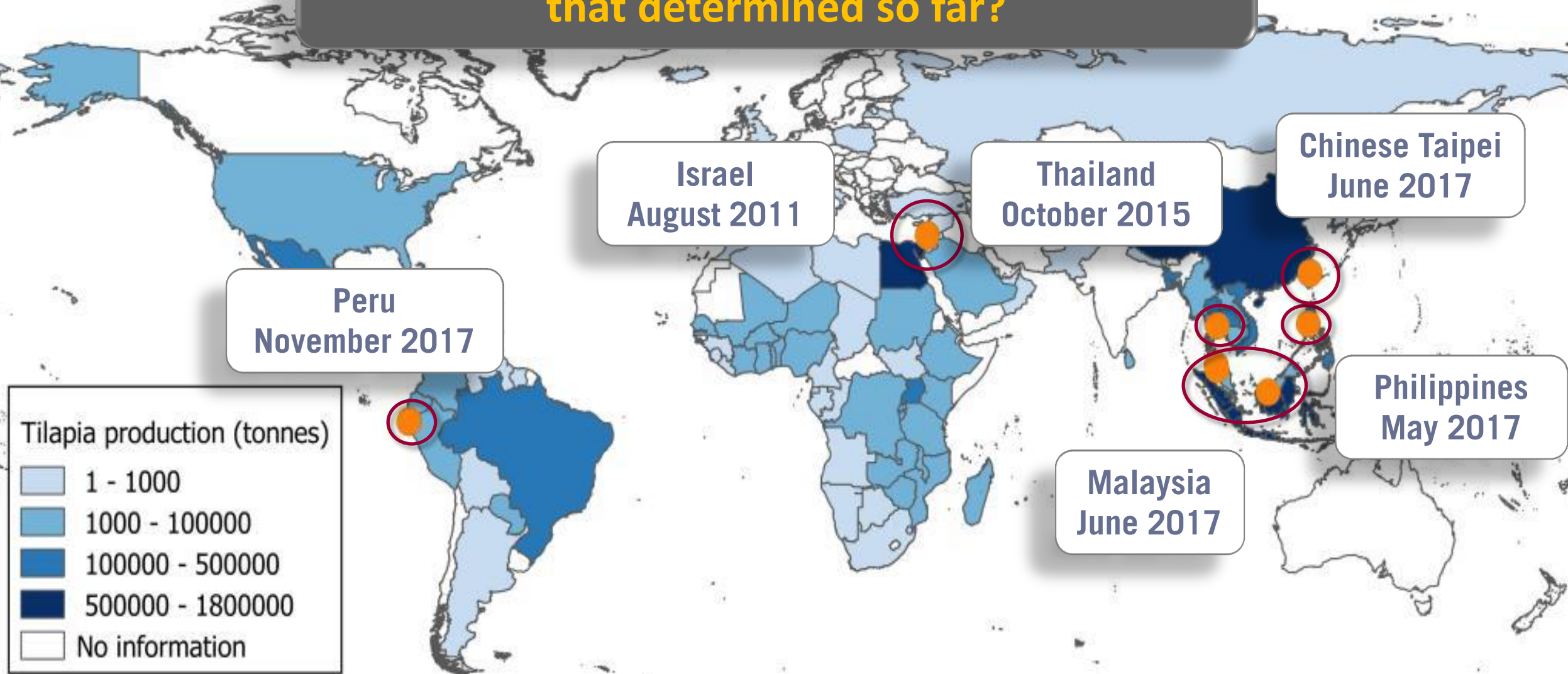
**About 6 000 000 tonnes in more than 100 countries**

Tilapia production (tonnes)



# Global distribution of annual tilapia production in 2015 & reported events in 2017 and early 2018

Geographical distribution of TiLV wider than that determined so far?

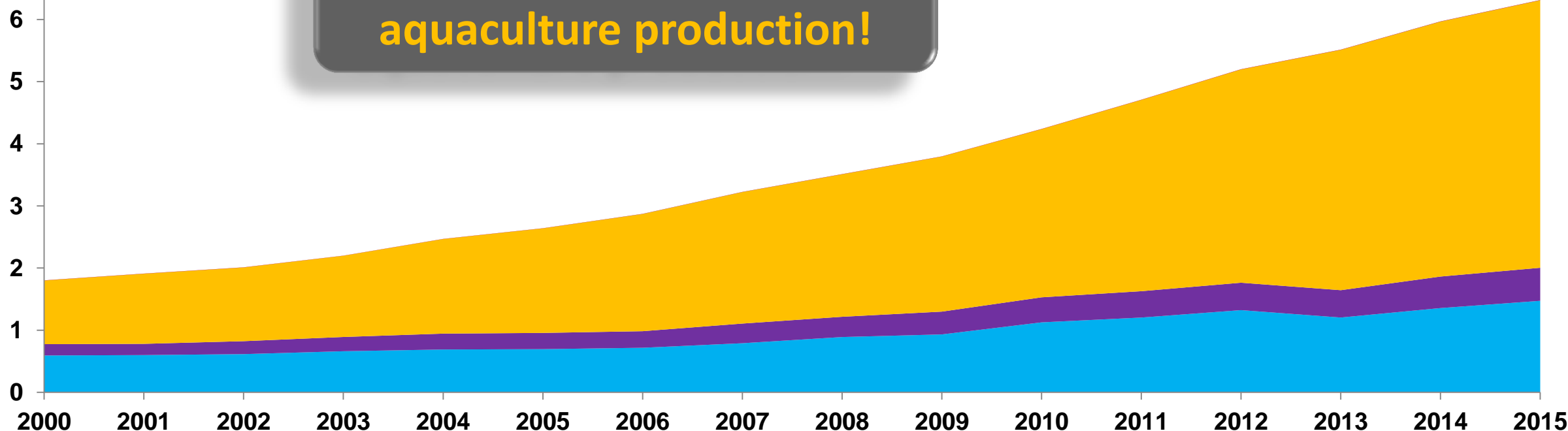


# Evolution from 2000 to 2015 of the global production of tilapia, by world region

(data based on information provided by FAO)

Production (million tonnes)

**Tremendous increase in aquaculture production!**



148%

Africa

192%

Americas

320%

Asia

403%

Europe

39%

Oceania

# Tilapia lake virus disease: **CONCLUSIONS**

- Capacity of the virus for long distance spread
- Importance of **understanding the geographical distribution of TiLV** to prevent and control its possible spread
- Members are encouraged to **investigate mortality and morbidity events** in tilapines, to notify the OIE and submit viral isolates to the National Center for Biotechnology Information (NCBI) gene bank.

**Increase in the information submitted to the OIE observed in the past five years for aquatic animal diseases. OIE support, Aquatic focal point access to WAHIS and e-learning**

A photograph of a man in a blue cap and plaid shirt kneeling in a barn, feeding a black and white cow. The background shows other cows and a barn structure.

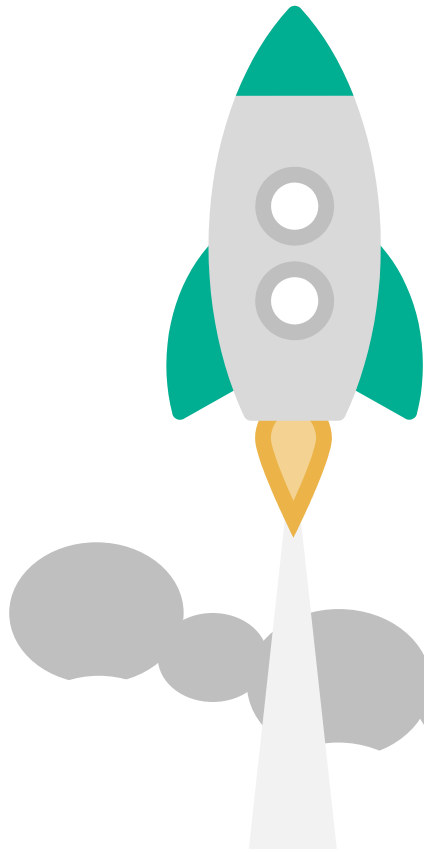
OIE#86SG

# Chapter 3



## Update on the WAHIS renovation project (WAHIS+)

## WAHIS+ launch for GS 2019



User-friendly



Respond to  
evolving  
standards



High-resolution  
dynamic maps



Facilitates data  
extraction &  
analysis



Supports  
interoperability with  
other data &  
systems

# The temporal roll-out strategy for 4 stages



## 1. Foundation

Rebuilding modernised Core modules and migration of current WAHIS data

Dec. 2019



## 2. Evolutive

Interoperability, integration with other systems and data sources

May 2020



## 3. Advanced

Integration of historical data sources before 2005 (Handistatus)

March 2021



## 4. Optimisation

Integration of new modules and future innovations

2027 and beyond

## May 2019

- Local report (*new*)
- Immediate notification
- Follow-up report
- Six-monthly report



## Objective for end 2019

- Annual report
- Wild annual report,
- Alert App for smartphones
- E-learning

## Integration

- Historical data from WAHIS 2005
- ADIS interoperability



## Implementation

- Modern data mining system
- GIS terrestrial and aquatic
- Automatic translation tool
- New dashboards for the VS

# Partner to ensure 10 year's vision

sopra  steria

**Tender award**  
23 February 2018



**General Specifications**  
April – June 2018



**International  
Call for tender**  
30 October 2017



**End-to-end  
partnership**

# WAHIS+ Project Governance



## Strategic Advisory Committee

Provides strategic direction on project oversight

*Meeting on 13<sup>th</sup> December 2017*



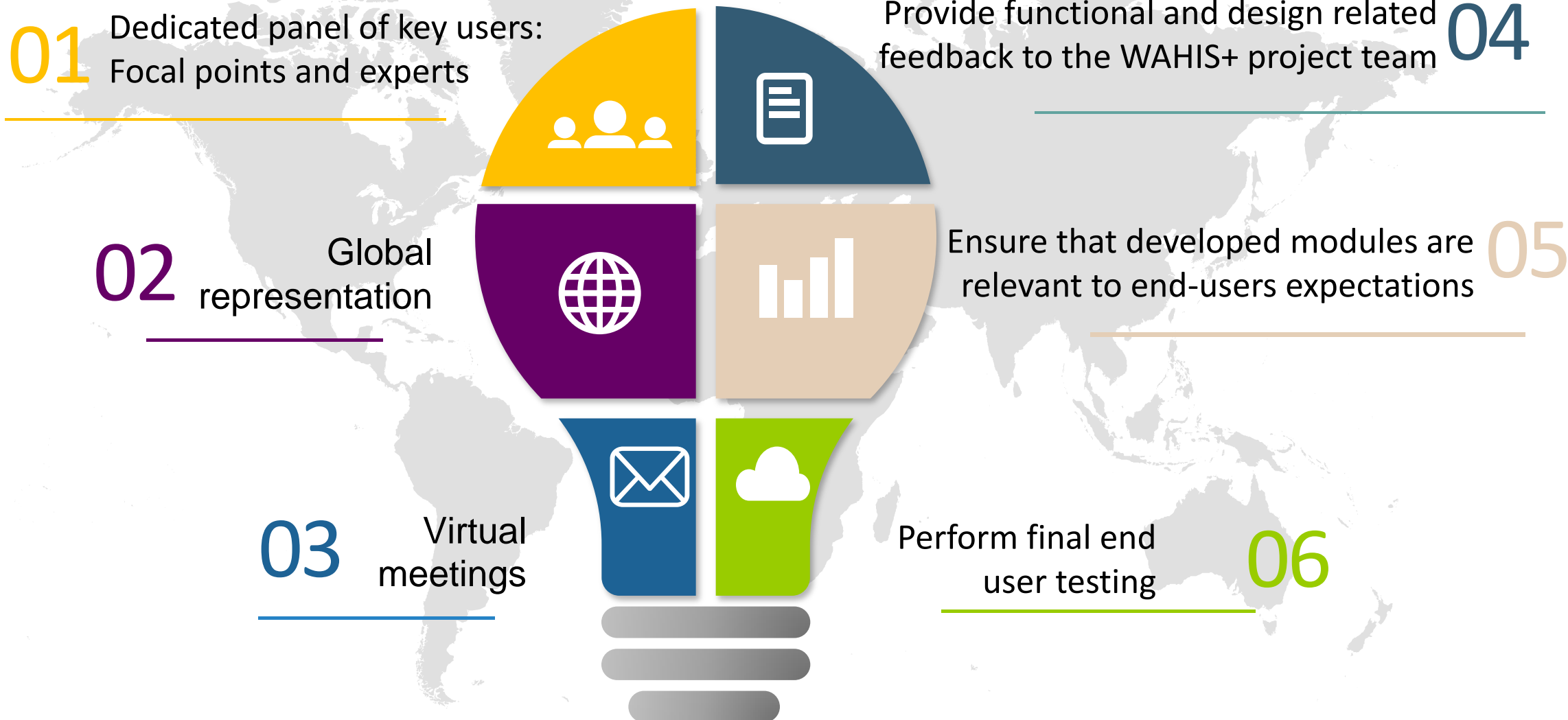
## Key users Committee

Assists WAHIAD and WAHIS+ project team in solution testing

**Steering Committee**  
(monthly)

**Operational Committee**  
(weekly)

# Key users involvement in WAHIS+ project

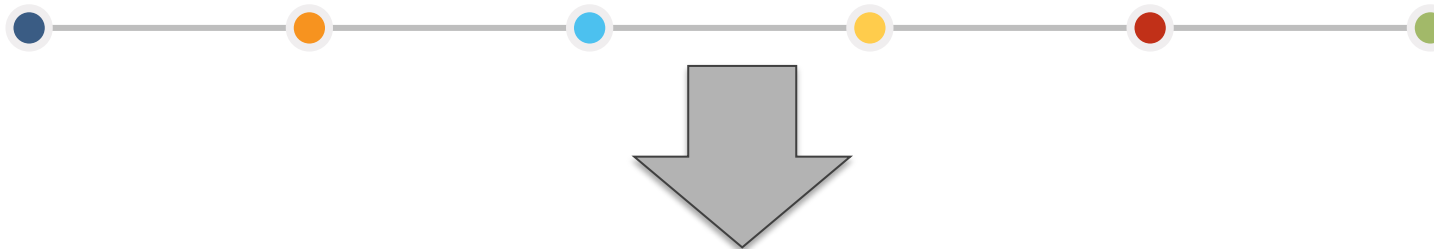


# Strategic approach for communication and advocacy

GLOBAL ORGANISATIONS AND AGENCIES, SOME MEMBER COUNTRIES AND DONORS, TRADE PARTNERS, ACADEMIA, RESEARCHERS, CIVIL SOCIETY

**SPEAK HIGHLY & CALL FOR MORE USE**

*(External communication workshop on 20th of February)*



**MEMBER COUNTRIES INCREASE SUPPORT AND COMMITMENT TO WAHIS**



**CURRENT ANIMAL  
HEALTH SITUATION  
WORLDWIDE: ANALYSIS  
OF EVENTS AND TRENDS**

*Dr Paula Cáceres Soto*

World Animal Health Information  
and Analysis Department

A line art illustration of various animals, including a horse, a cow, a pig, and a sheep, rendered in a stylized, overlapping manner. A horizontal line extends from the left side of the illustration across the slide.

**Thank you for your attention**