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- 1. Members' reporting through the OIE-WAHIS early warning system
- 2. Description of the global situation regarding three diseases and infections of major interest:
 - Infection with ASF virus
 - Infection with HPAI viruses
 - Infection with SARS-CoV-2 in animals
- 3. Members' reporting on diseases in aquatic animals
- 4. OIE-WAHIS state of play



CHAPTER 1

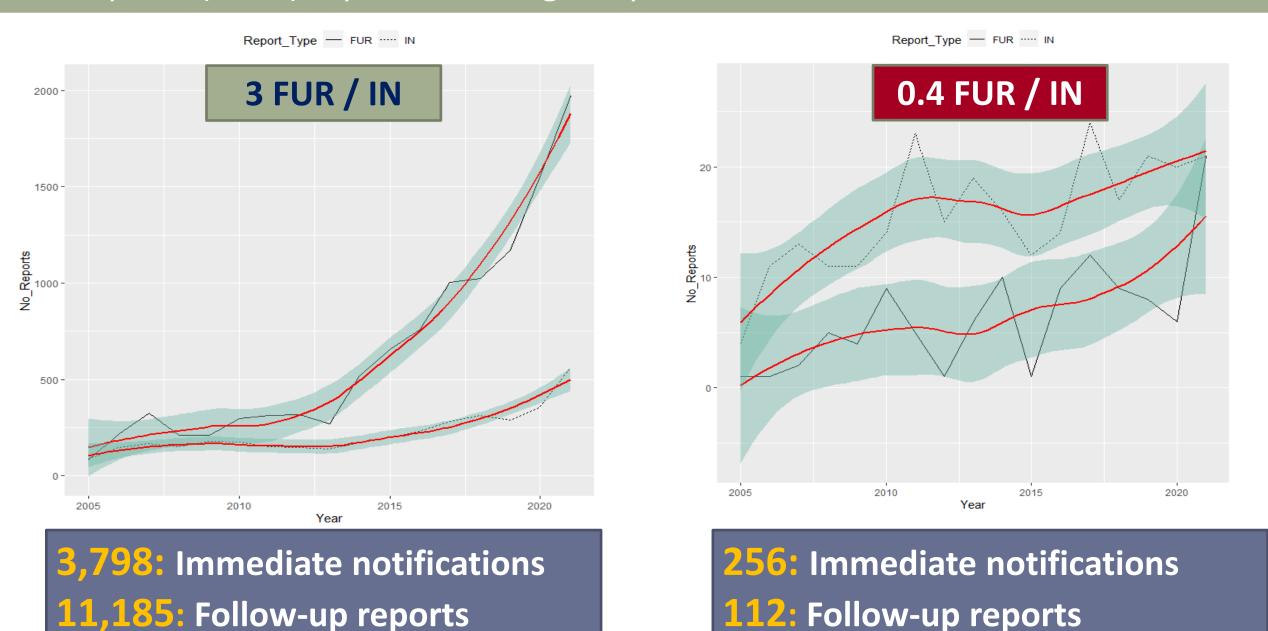
Members' reporting through the OIE-WAHIS early warning system

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Organisation Mondiale de la Santé Animale World Organisation for Animal Health

Organización Mundial de Sanidad Animal

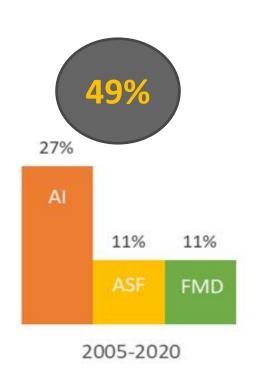
Evolution in the number of Immediate notifications (INs) and Follow-up reports (FURs) reported during the period 2005–2021

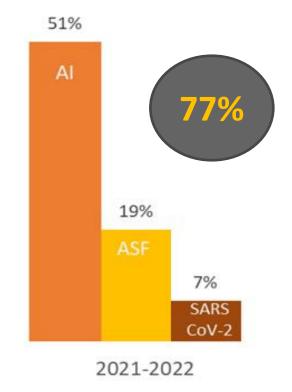


Recent reporting situation INs/FURs (until May 2022)

Terrestrial diseases





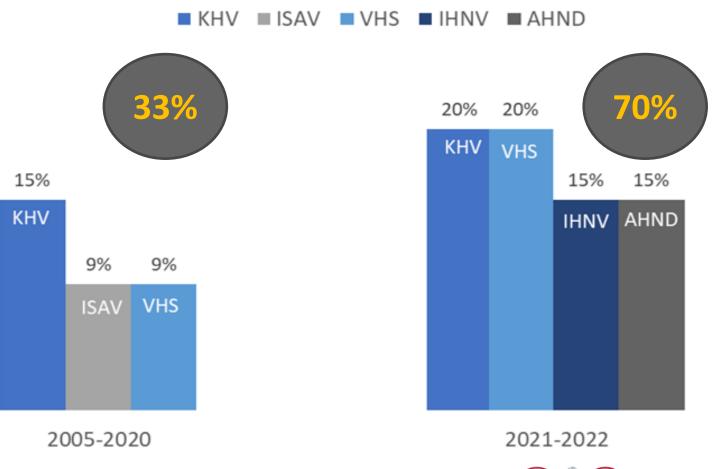




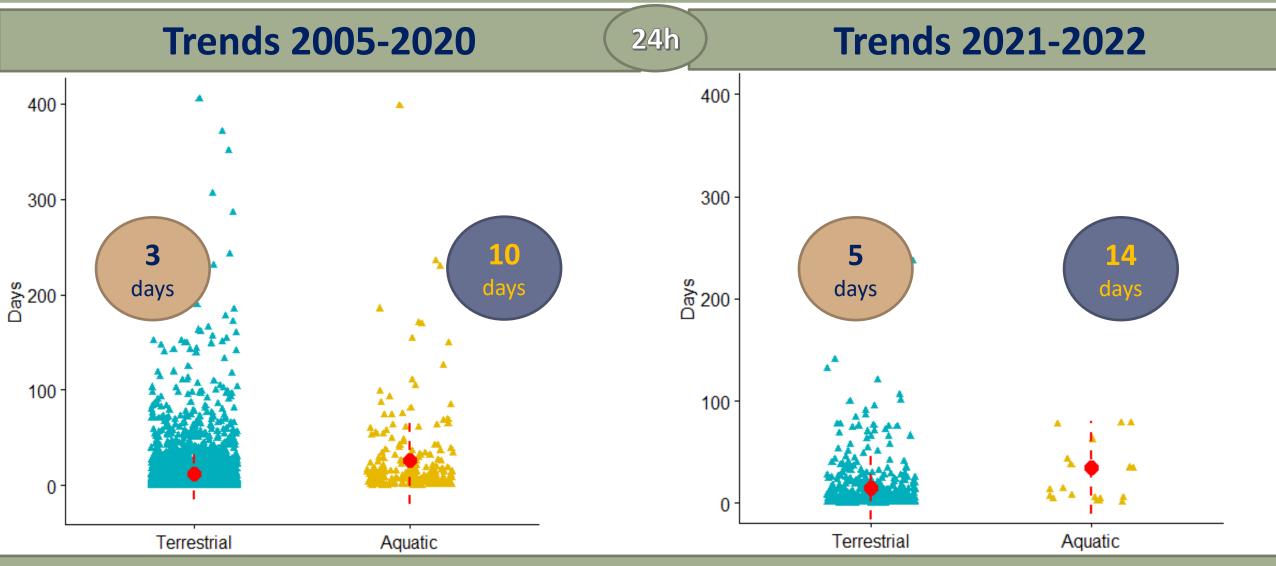
Mondiale de la Santé Animale World Organisation for Animal Health Organización Mundial de Sanidad Animal

Recent reporting situation INs/FURs (until May 2022)

Aquatic diseases

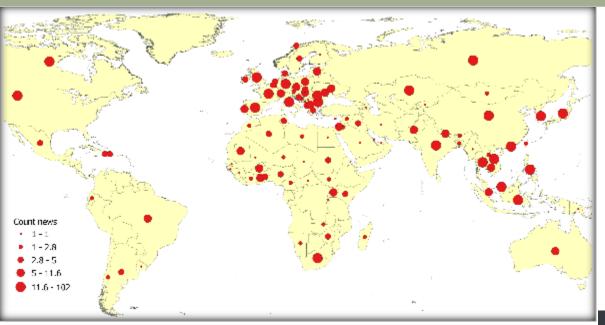


Distribution of submission time values (days) for terrestrial animal and aquatic animal diseases



The OIE encourage their Members continue to share information in a **timely** and **transparent** way. The OIE team has been always available to support Members if they have difficulties with the process.

OIE epidemic intelligence: update on active search activity



Constant communication between OIE and Members:

News tracked in the last six months (November 2021- April 2022) in **109** countries



OIE Reference Laboratories



OiC







Intelliriver Source

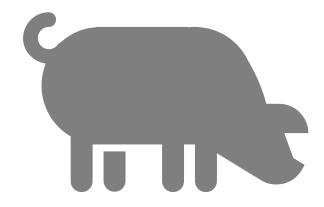
Daily screening of the web for all OIE-listed diseases from **10,000** news/year in 2017 to **120,000** news screened in 2021



CHAPTER 2

Description of the global situation regarding three diseases and infections of major interest





1. Infection with African swine fever virus



Organisatio Mondiale de la Santé Animale World Organisation for Animal Organización Mundial de Sanidad

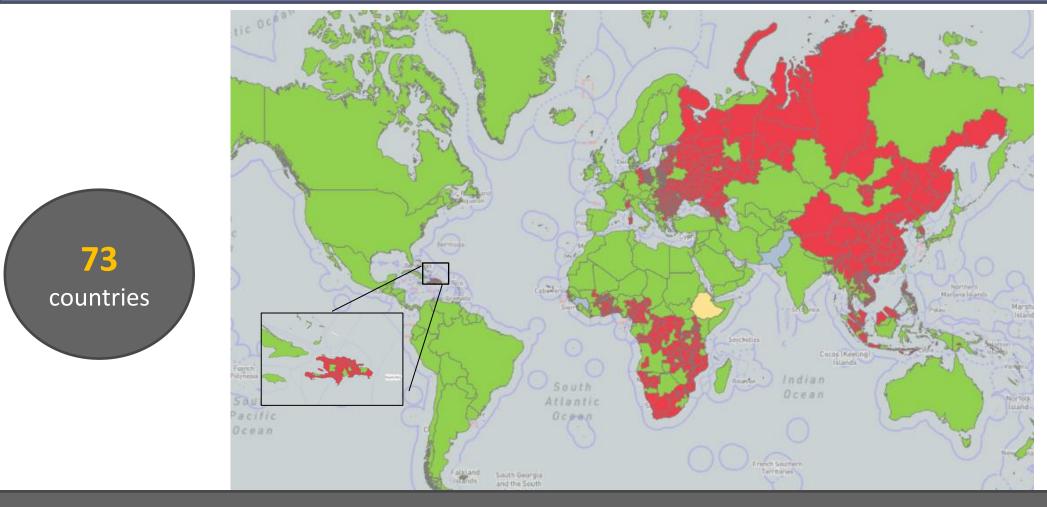
PPA distribution in 2005

20 countries





Accumulative PPA distribution in 2005-2022

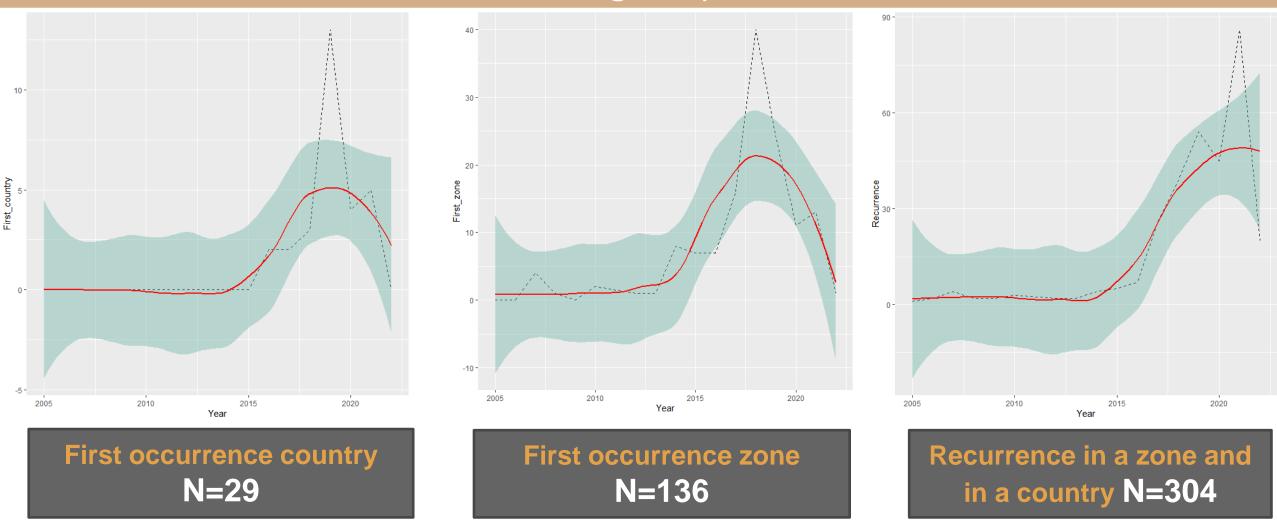


Since 2005 general deterioration

2nd most notified disease with 470 IN & 1st disease with more 4,292FUR

Two countries have eradicated the disease: Belgium (March 2020) & Czech Republic (April 2018).

Trend in the number of OIE Members and non-Members reporting the first occurrence of ASF, during the period 2005–2022

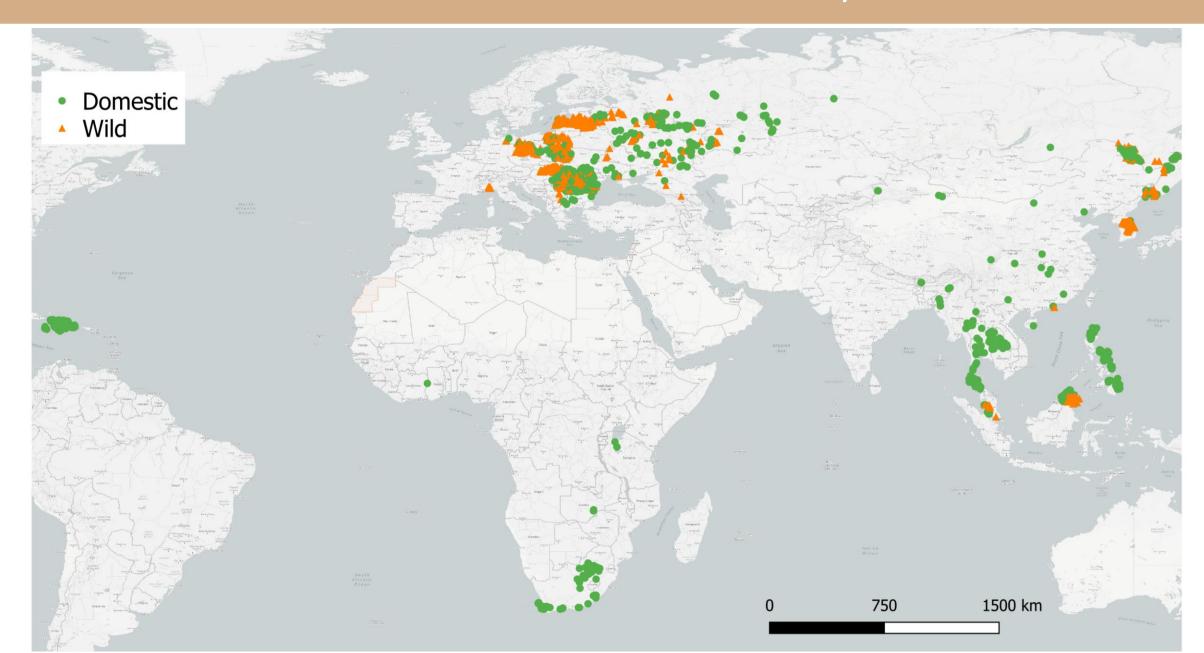




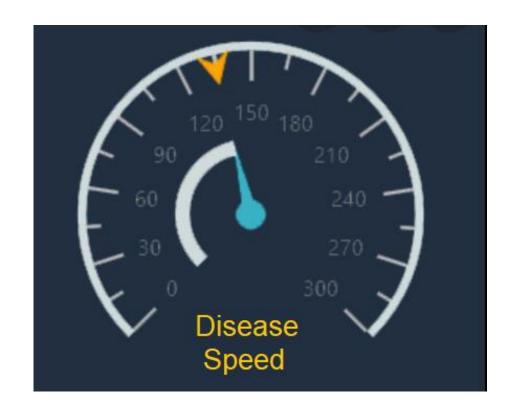
Organisation Mondiale de la Santé Animale

World Organisation for Animal Health Organización Mundial de Sanidad Animal

African swine fever oubreaks started in 2021 – May 2022



Double spatial dynamic of the disease

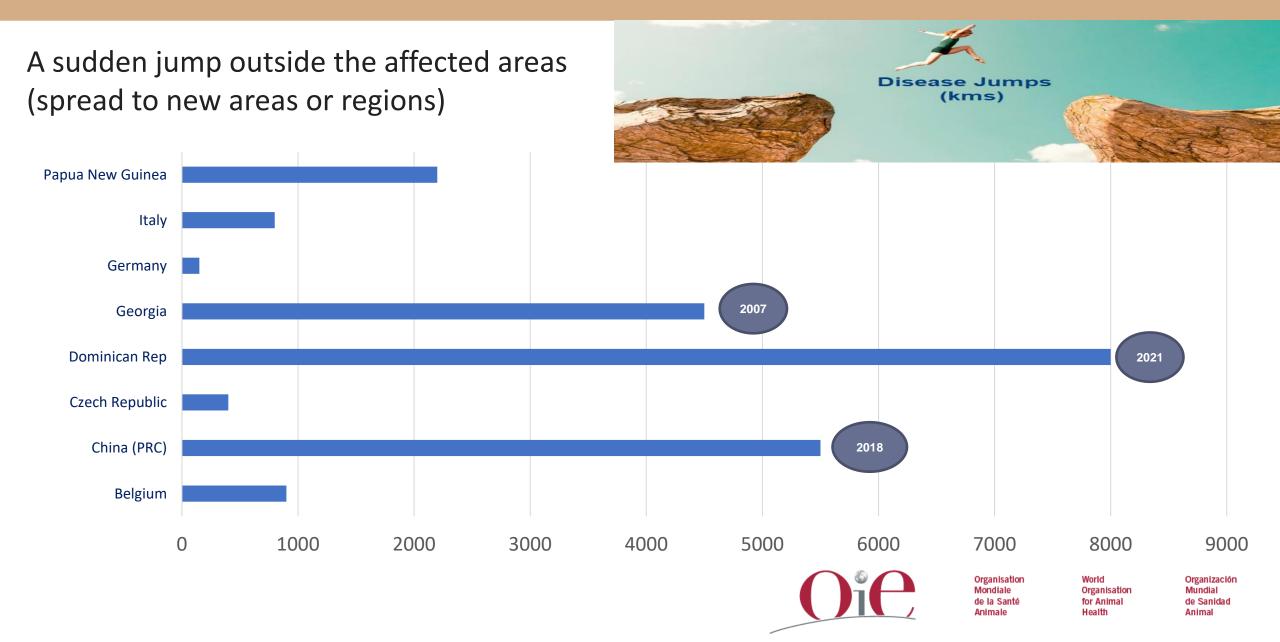


Dynamic of disease speed at country level:

- A slow and steady progressive expansion inside the affected areas
- Evaluation in 10 country randomly selected
- Highly variable
- Minimum disease speed of 4 km/month to a maximum of 96 km/month
- Average speed 32 km/month



Double spatial dynamic of the disease



OIE Resources

The OIE made available in a dedicated repository on it website, a wide range of resources, such as communication material and training resources: https://www.oie.int/en/disease/african-swine-fever/#ui-id-5

ASF bi-weekly situation report on OIE website: https://www.oie.int/en/disease/african-swine-fever/#ui-id-2



in Asia. Since then, the disease continued to spread in the Region, affecting 16 countries as of 2021.

is farmaning 2010, the first convergors of \$65 in Organia was reported by Tonon Leite. Followed by Pance

New Guinea (March 2020). In July 2021 the disease reappeared in the Americas after an absence of aimost

African Swine Fever (ASF) -**Situation report 10**

This report provides an update of the African swine fever (ASF) situation, according to the information submitted through the World Animal Health Information System of the World Organisation for Animal Health (WAHIS) between 1 April and 14 April 2022.

SITUATION REPORT

[↑] 10/04/2022













Technical resources



Global control of African swine fever: A **GF-TADs**

STRATEGIC PLAN









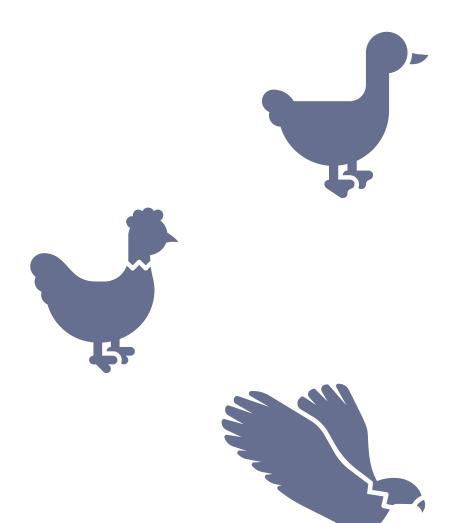
Global Control of African swine fever. A **GF-TADs** initiative -

Compartmenta lisation Guidelines

.PDF - 9 MB

GUIDELINES

Compartmenta lisation Guidelines -**African Swine**



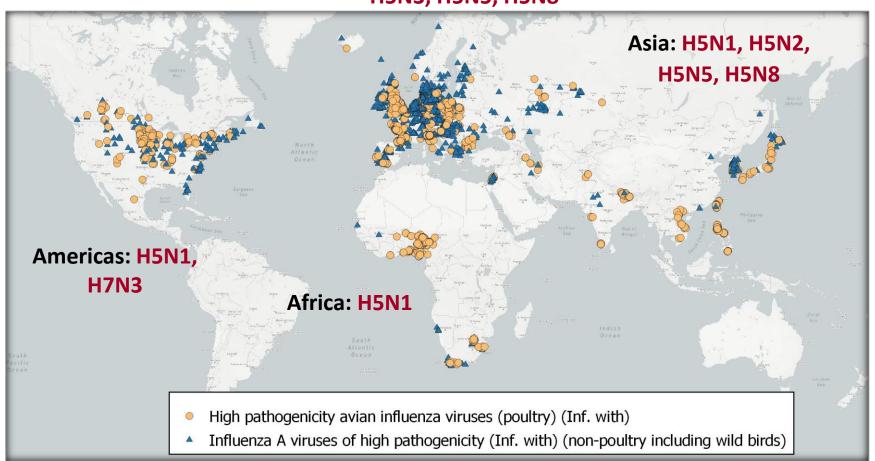
2. Infection with high pathogenicity avian influenza viruses



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Global distribution of HPAI outbreaks reported through the early warning system (1 October 2021 – 5 May 2022)

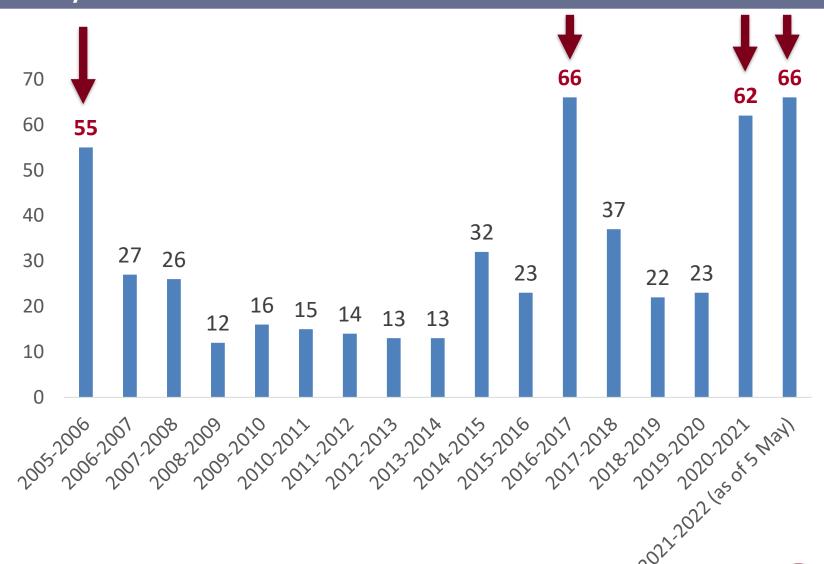
Europe: H5N1, H5N2, H5N3, H5N5, H5N8



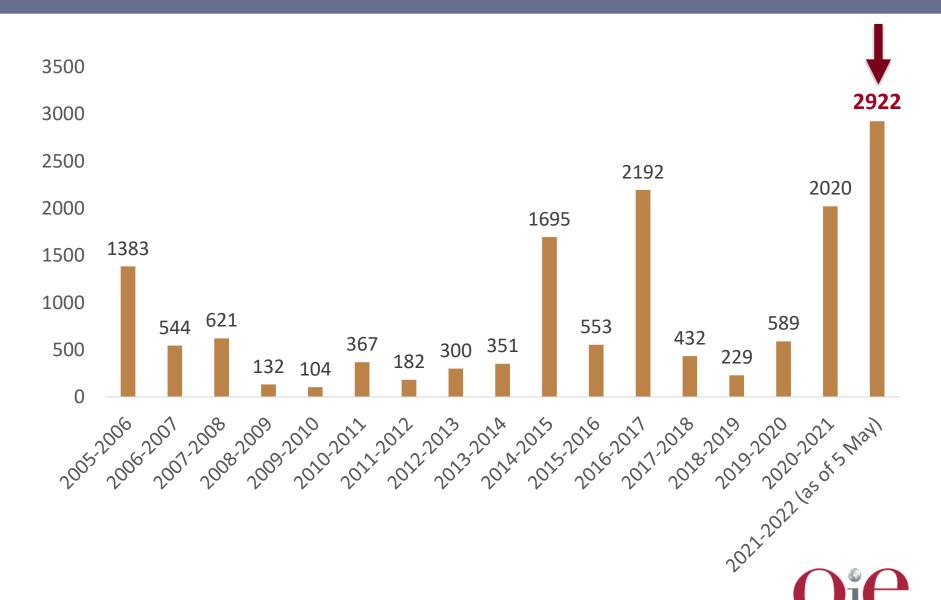
- reported HPAI outbreaks in poultry & **53** in birds other than poultry (including wild birds)
- Predominant subtype : H5N1 (97% of the outbreaks)
- The OIE recommends that its Members ensure the timely sharing of information through OIE-WAHIS as well as the overall monitoring of the situation in their territories.



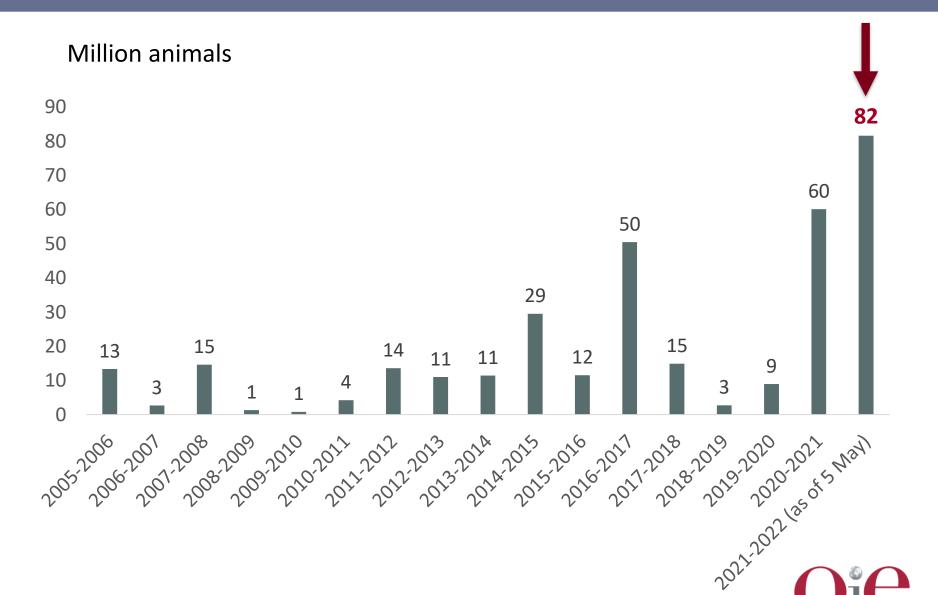
Number of countries and territories affected by HPAI by AI seasonal wave (1 October 2005 - 5 May 2022)



The number of countries affected by **HPAI** in poultry and non-poultry birds in 2020/2021 & 2021/2022 are very high, and comparable to previous peaks observed in 2005/2006 and 2016/2017



In 2021/2022:
highest number of
outbreaks recorded
in poultry



The number of poultry losses in 2021/2022 is higher than in all previous seasonal waves

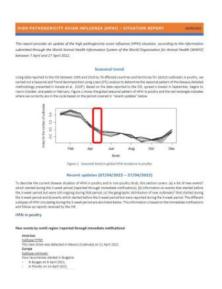
One Health approach to Avian influenza

- During these two years, about a quarter of the world's countries were affected by HPAI in poultry
- In the last 20 years, humans have occasionally been infected by H5N1, H7N9 and H5N6 subtypes.
- Increase in the number of humans infected with H5N6 subtype viruses in China (People's Rep. of)
 in 2021/2022 & H5N1 cases in United Kingdom (January 2022) and USA (April 2022).
- None of these waves have had any sustained transmissibility in humans
- OFFLU network important for pandemic preparedness purposes and in helping to reduce the negative impacts of animal influenza viruses



One Health approach to Avian influenza

- Infection of domestic and captive wild birds with low pathogenicity avian influenza viruses having proven natural transmission to humans associated with severe consequences adopted for inclusion in the OIE list of diseases in 2021 & requirement to notify the disease came into force in January 2022 (no such event had reported to the OIE so far)
- The OIE urges countries to intensify their surveillance efforts, implement strict biosecurity measures at farm level to prevent the introduction of the disease, continue timely reporting of avian influenza outbreaks, and maintain the high quality of the information provided to support early detection and rapid response to potential threats to both animal and public health.
 - Situation report HPAI published every 3 weeks on OIE website https://www.oie.int/en/disease/a vian-influenza/#ui-id-2



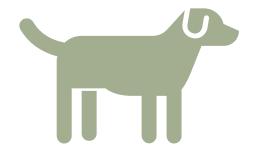
High Pathogenicity Avian Influenza (HPAI) - Situation Report 29

This report provides an update of the high pathogenicity avian influenza (HPAI) situation, according to the information submitted through the World Animal Health Information System of the World Organisation for Animal Health (WAHIS) between 7 April and 27 April 2022.

SITUATION REPORT



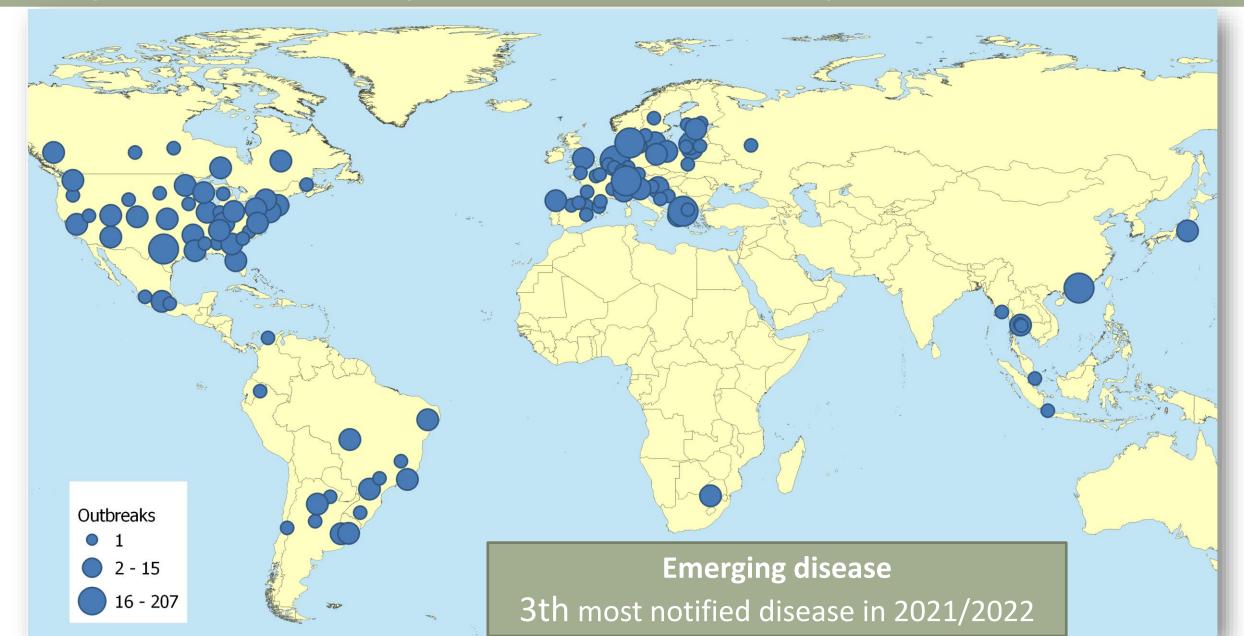




3. Infection with SARS-CoV-2 in animals

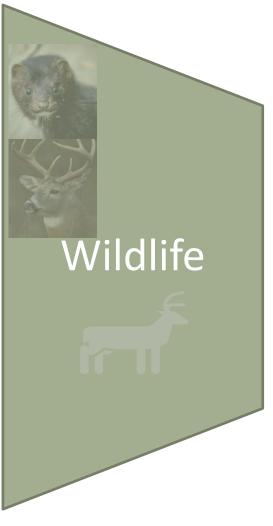


Worldwide distribution of SARS-CoV-2 outbreaks in 23 animal species reported to the OIE by 36 countries (as of 5 May 2022)



23 Species notified for SARS-Cov-2











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One Health approach to SARS-Cov-2

 OIE actions on SARS-CoV-2, guidelines, and advisory groups

SARS-COV-2 IN ANIMALS – SITUATION REPORT 12

30/04/2022

OIE Members have been keeping the OIE updated outcomes of investigations in animals:

Page last updated 11 April 2022

Guidance to report cases of animals infected with SARS-CoV-2 to the OIE

Situation report #1 on SARS-CoV-2 and animals (31/05/2021) Situation report #2 on SARS-CoV-2 and animals (30/06/2021) COVID-19, caused by infection with SARS-CoV-2, is a human disease which most likely emerged from an animal source and through widespread human-to-human transmission became a pandemic. As of 30 April **2022**, around **500 million** confirmed human cases have been reported worldwide, with more than **6 million** human deaths¹. The nature of this new zoonotic virus, together with its widespread distribution and the susceptibility of some animal species to infection, manifests in animal infections arising from close contact between people and animals. Conversely, there is also evidence that, for some animal species, close contact with infected animals can represent a potential source of infection in humans². This report is a monthly update of the global situation of the report of SARS-CoV-2 in animals, with a special focus on the new reports submitted to the OIE in the last month.

SARS-CoV-2 monthly situation report

Global situation since the beginning of the pandemic

The worldwide geographical distribution of SARS-CoV-2 outbreaks in animals reported to the OIE is shown in Figure 1. The first case of SARS-CoV-2 in animals was officially reported to the OIE by Hong-Kong (SARC) on 29 February 2021 in a dog.



- Creation of a specific category "animals and coronavirus"
- OIE capture around 90 news/day



One Health approach to SARS-Cov-2

 The OIE recommends its Members to keep informing the global community in the event of SARS-CoV-2 cases occurring in animals, to better understanding the disease epidemiology and dynamics.

 Within the framework of One Health collaboration with WHO, specific attention should be given to providing details of the strain isolated in animals, so that any potential strain of concern can be carefully monitored.

 The OIE maintains a close collaboration with WHO and FAO for the monitoring of SARS-CoV-2 (GLEWS+)















CHAPTER 3

Members' reporting on diseases in aquatic animals



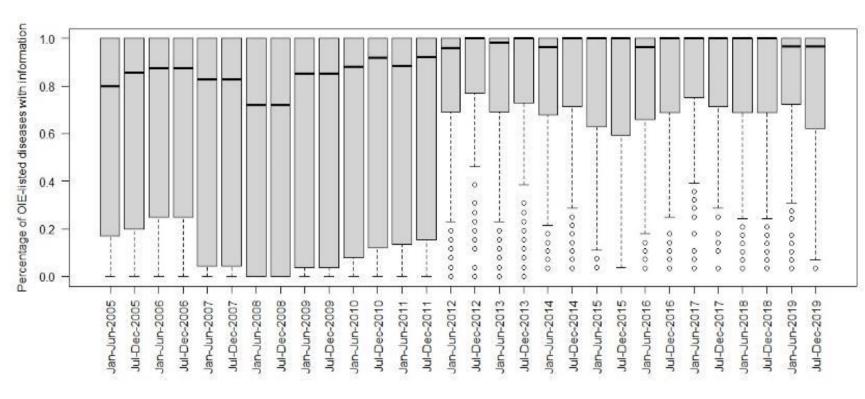
Number of countries and territories from which OIE has received six-monthly reports for aquatic animals, by report date (2013-2021)



- Several factors can explain the decrease between 2019 and 2020/2021.
- The OIE urges its Members to pursue their efforts with the support of the OIE to send their pending reports and to continue sharing the information in a timely manner, providing quality data, best reflecting the reality of the situation.
- The OIE has initiated activities for the identification of barriers to aquatic animal disease reporting and the identification of improvement measures, in the context of the first OIE Aquatic Animal Health Strategy, launched in May 2021.



Distribution of reporting countries and territories, based on their percentage of OIE-listed aquatic animal diseases with information in six-monthly reports, for each semester between 2005 and 2019



These reporting countries and territories have been providing information on most OIE-listed diseases through their six-monthly reports, since 2012, in a regular way.

Half of the countries have been reporting information for nearly all OIE-listed diseases during this period. This reporting is essential in order to monitor the global situation of OIE-listed aquatic animal diseases over time.

No significant difference by world Region or animal group (fish, crustaceans, molluscs, amphibians)





CHAPTER 4

OIE-WAHIS state of play



World Organisation for Animal

OIE-WAHIS: world reference animal health platform



OIE-WAHIS is broadly used for **reporting** purposes (early warning and monitoring reports)



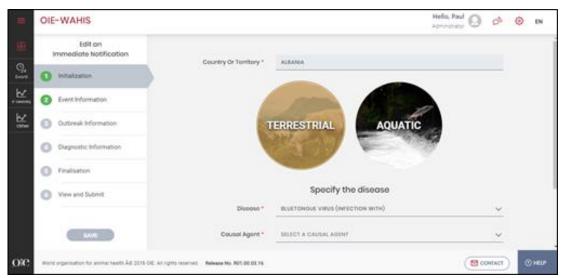
Continuous **engagement** with stakeholders and users via: training, feedback collection, support desk, communication campaigns



Evolutive maintenance implemented to maintain production platform



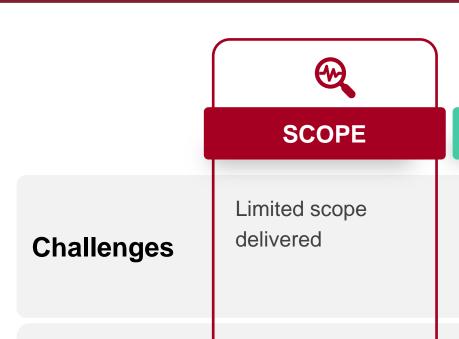
Continued **investments** are required to cover the development and evolution



https://wahis.oie.int



Learning from the past







USER EXPERIENCE

Knowledge acquisition Poor User Experience

Training; e-learning;
FAQs, videos. support
desk and observation
session; UX
implemented in
optimisation



QUALITY

Bugs, performance issues and instabilities reported

Ongoing optimisation of infrastructure and functional modules; Data and code fixes applied



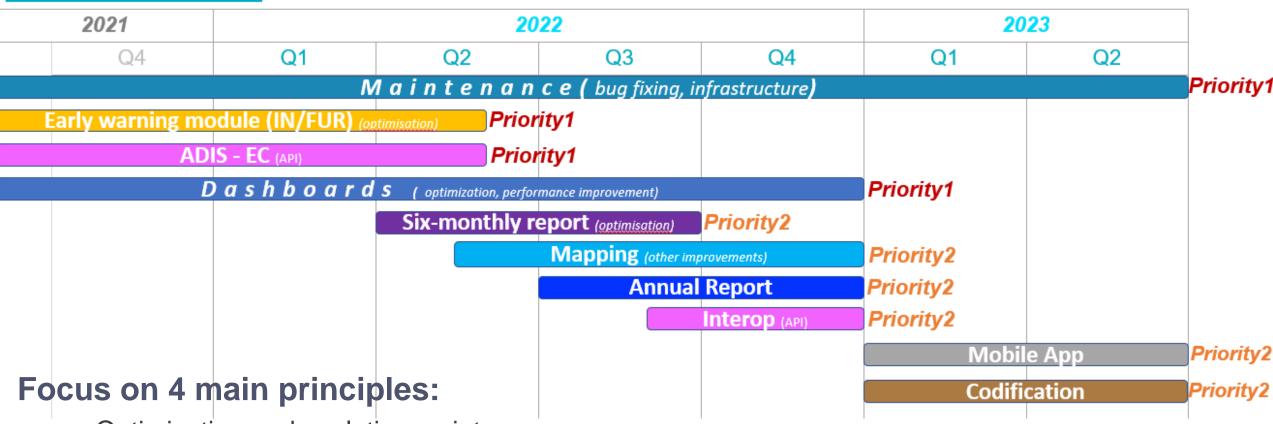
DELAYS

Delays linked to complexity and Covid-19 made platform delivery challenging

Simplify solution using agile methodology



THE FUTURE: OIE-WAHIS provisional roadmap



- Optimization and evolutive maintenance,
- Continuous improvement (new development)
- Data governance and consistency
- Partnering with global health















Thank you for your attention Merci pour votre attention **Gracias por su atencion**

