



Global situation on HPAI Global activities for its control

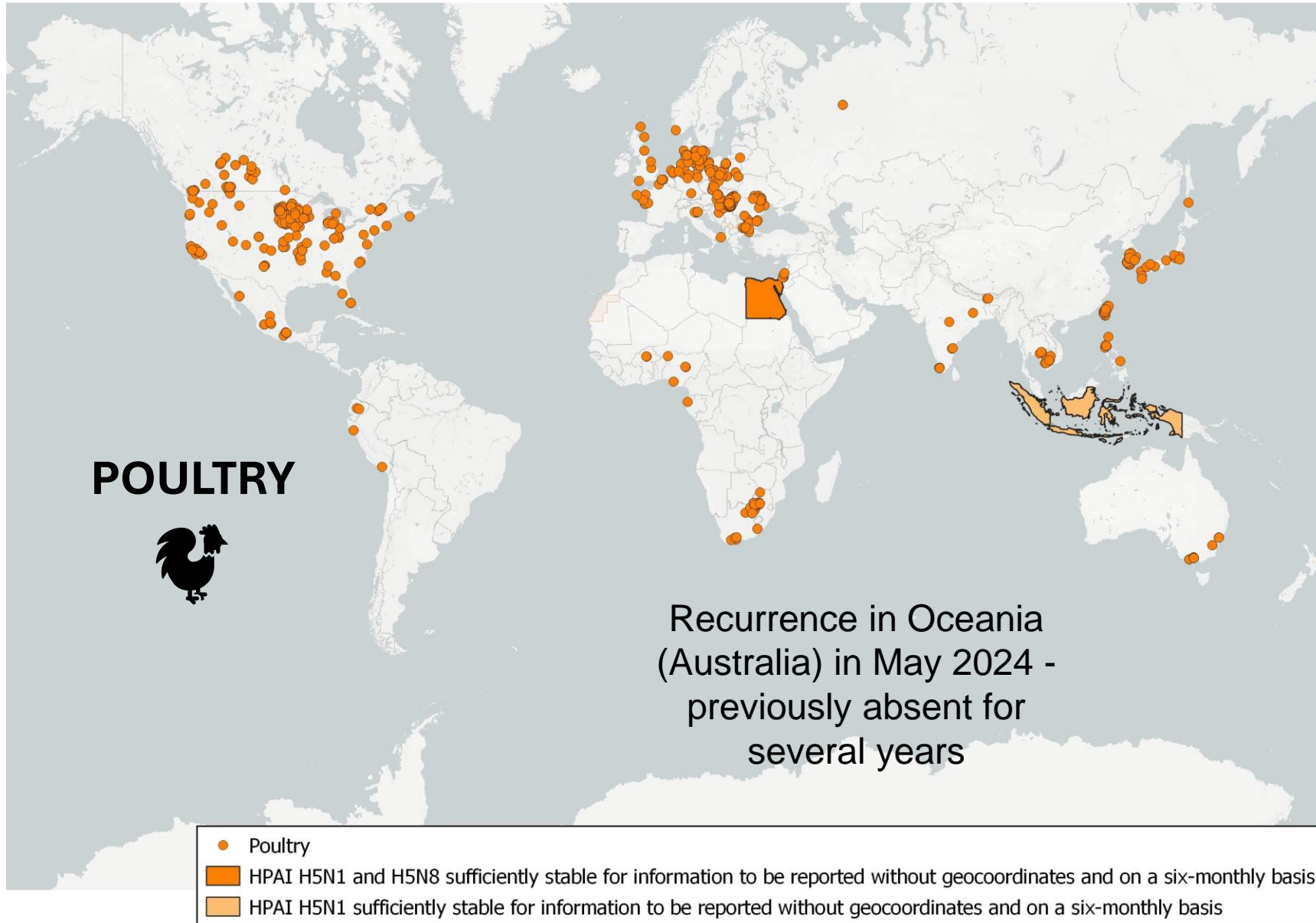
Gounalan Pavade

Science department

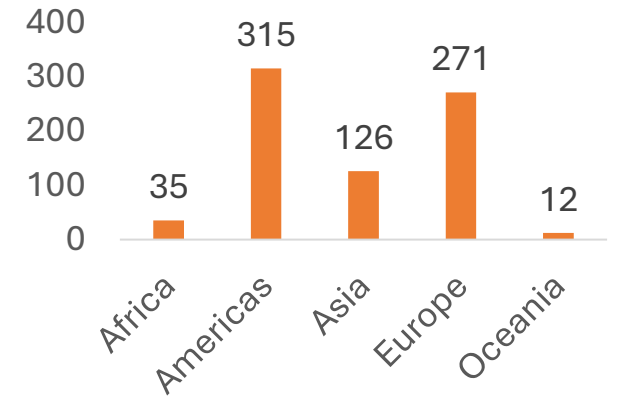
World Organisation for Animal health (WOAH)

10 October 2024

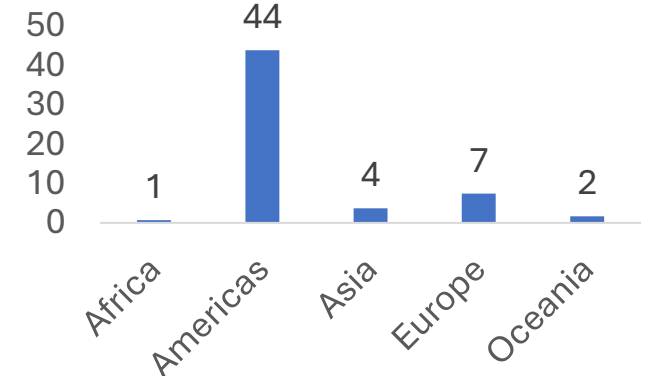
HPAI outbreaks for October 2023 – September 2024 (up to 13 September)



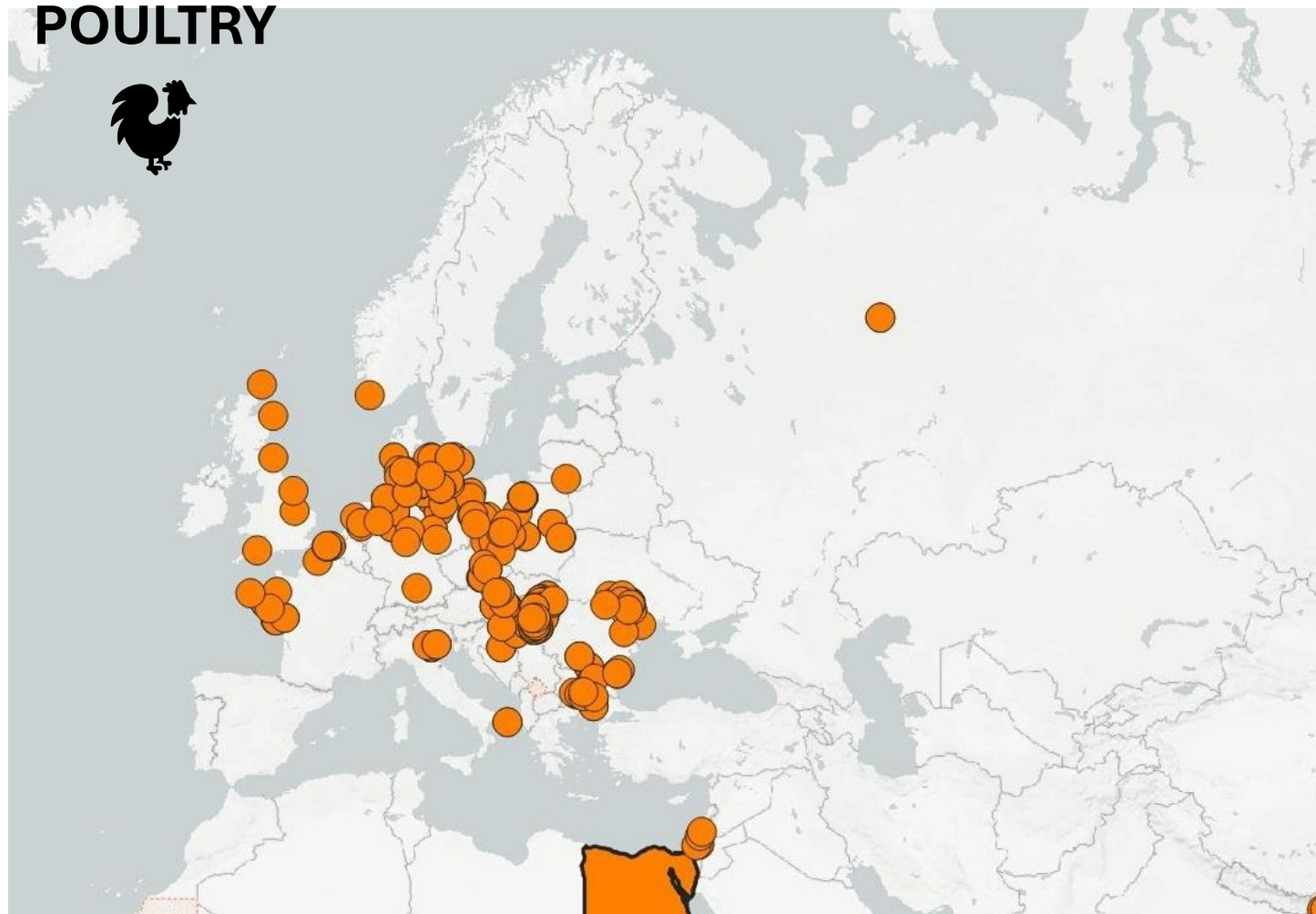
No. outbreaks by geographical region (N=759)



No. poultry killed and disposed of (in millions of heads) by geographical region (N=57)



HPAI outbreaks for October 2023 – September 2024 (up to 13 September) - Europe

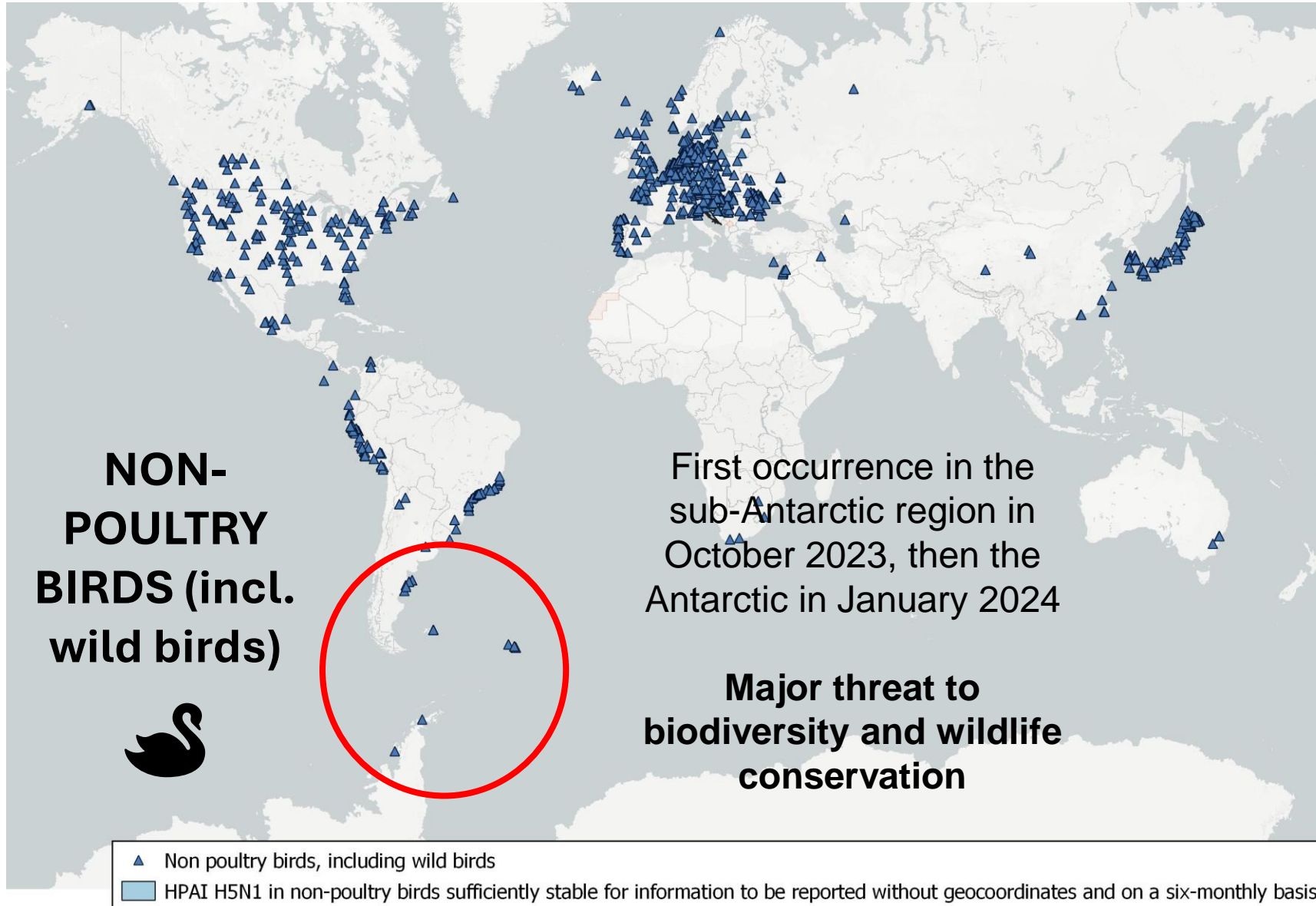


20 countries

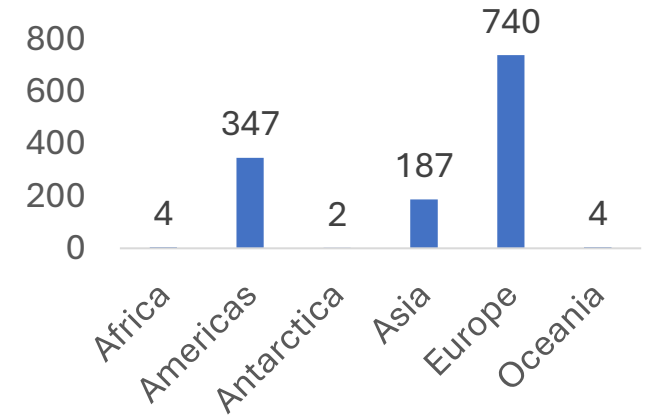
271 outbreaks

7 million poultry
killed and disposed
of

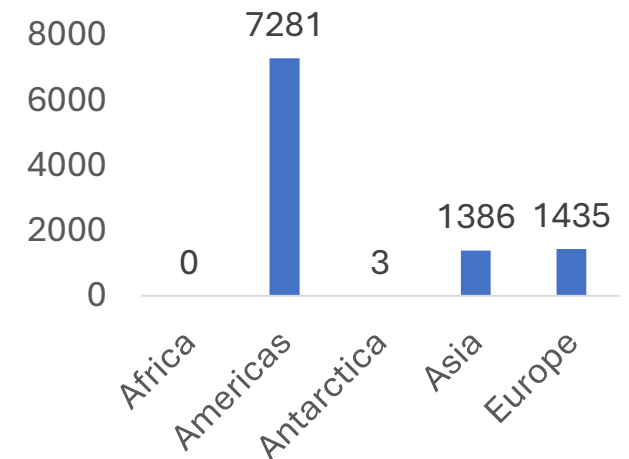
HPAI outbreaks for October 2023 – September 2024 (up to 13 September)



No. outbreaks by geographical region (N= 1284)



No. dead wild birds in heads (N= 10,105)





Animal Diseases

Avian Influenza

Antimicrobial resistance

SEARCH

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MEDIA

WAHIS

Inicio » News » **Wildlife under threat as avian influenza reaches Antarctica**

Statements

Wildlife under threat as avian influenza reaches Antarctica



Published on 13 March 2024



Mass mortality events (biodiversity)

More than **51,000** mammals died in South America (Oct-22 Nov-23)



© AFP

More than 10,000 dead South American sea lions in Peru



21 December, 2023

Continued expansion of high pathogenicity avian influenza H5 in wildlife in South America and incursion into the Antarctic region

 **HPAI outbreaks for October 2023 – September 2024 (up to 13 September) - Europe**



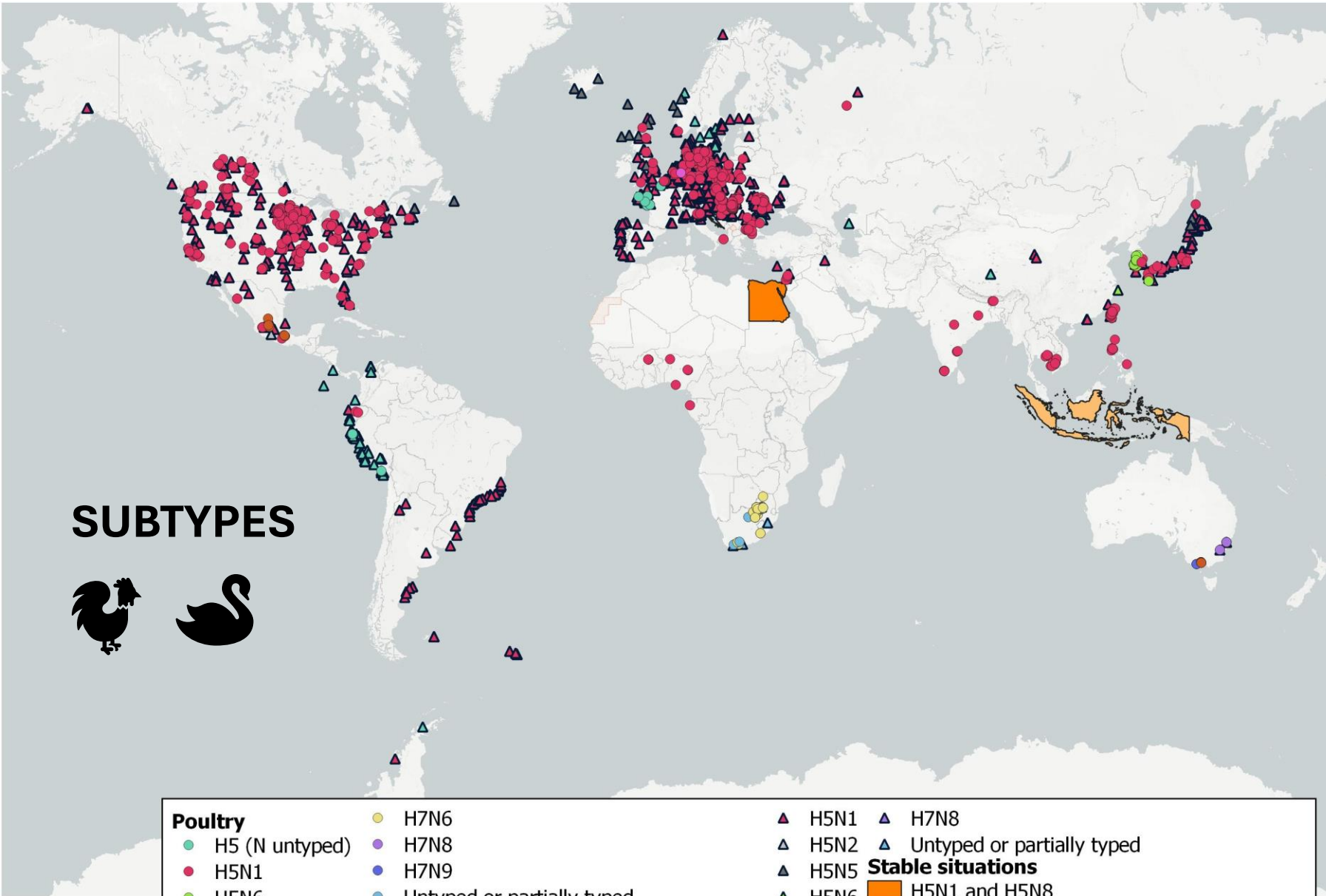
**NON-
POULTRY
BIRDS (incl.
wild birds)**



32 countries

740 outbreaks

HPAI outbreaks for October 2023 – September 2024 (up to 13 September)



SUBTYPES



Poultry

- H5 (N untyped)
- H5N1
- H5N6
- H7N3
- H7N5

- H7N6
- H7N8
- H7N9

- ### Non poultry birds (including wild birds)
- ▲ H5 (N untyped)

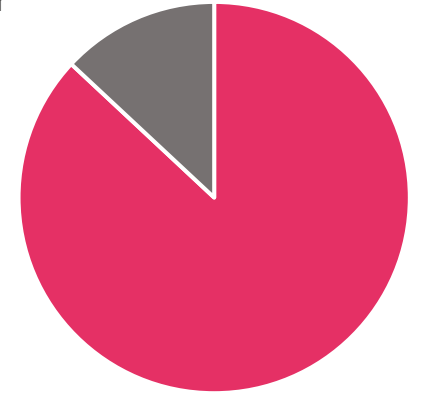
- ▲ H5N1
- ▲ H7N8
- ▲ Untyped or partially typed

Stable situations

- ▲ H5N5
- ▲ H5N6
- ▲ H5N8
- ▲ H7N6
- H5N1 and H5N8
- H5N1
- H5N1 (non poultry birds including wild birds)

% outbreaks in poultry

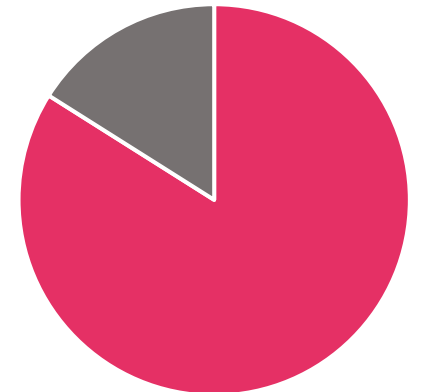
Other
13%



H5N1
87%

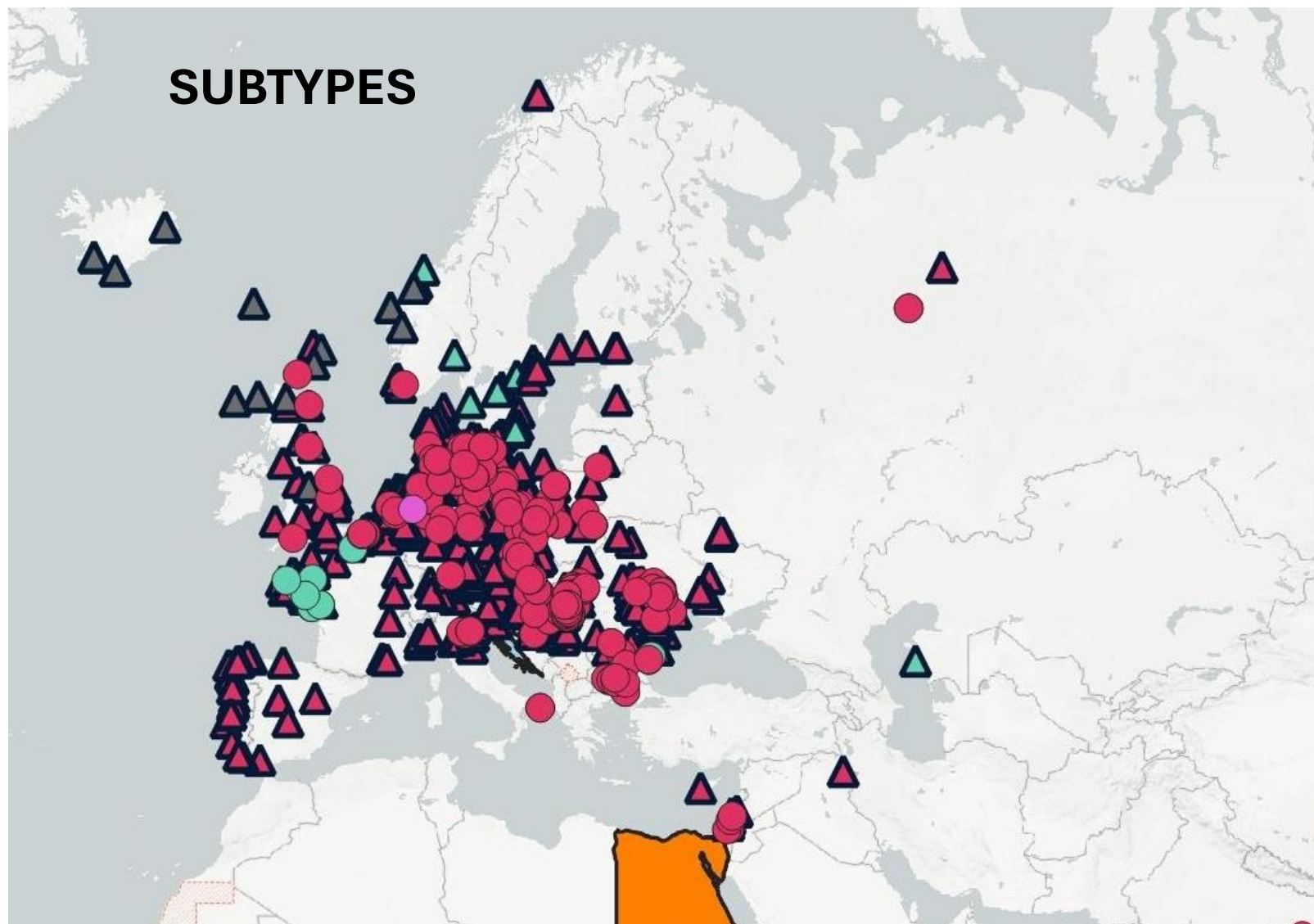
No. outbreaks in non-poultry birds (incl. wild birds)




Other
16%








H5N1
84%


HPAI outbreaks for October 2023 – September 2024 (up to 13 September) - Europe



Subtype	Poultry outbreaks	
H5 (N untyped)		21
H5N1		249
H7N5		1



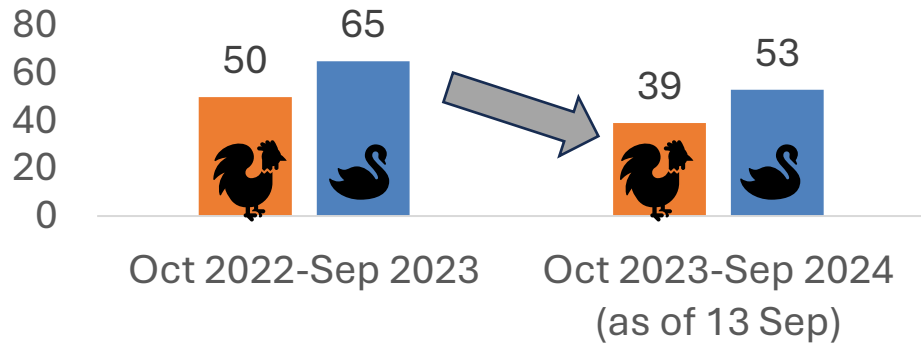
Subtype	Outbreaks – non poultry birds	
H5 (N untyped)		8
H5N1		706
H5N5		25
H5N8		1





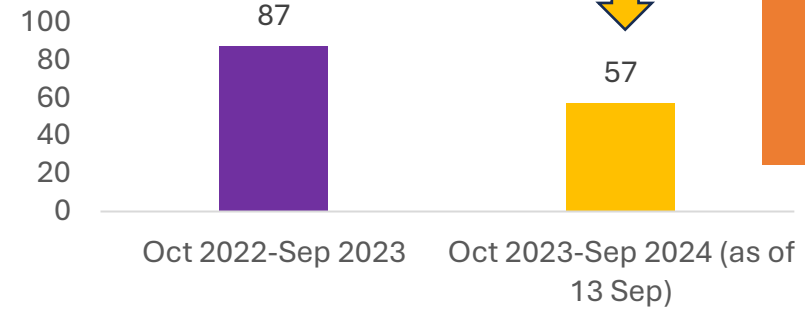
HPAI : comparison Oct 2022- Sep 2023 vs Oct 2023 – Sep 2024 - world

No. of countries/territories reporting HPAI to WOAAH - world



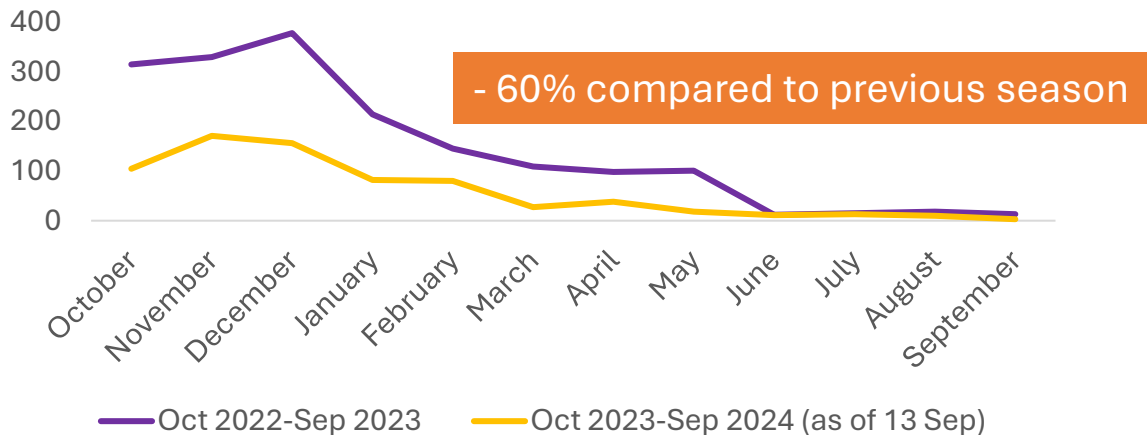
- HPAI in poultry
- HPAI in non poultry including wild birds

No. poultry killed and disposed of reported to WOAAH (in millions of heads) - world



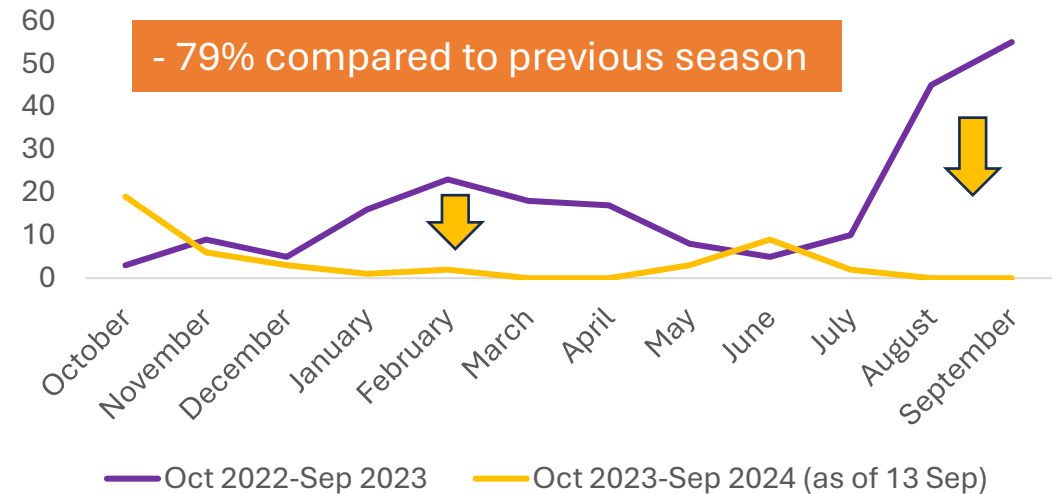
- 34% compared to previous season

No. outbreaks in poultry - Northern hemisphere



- 60% compared to previous season

No. outbreaks in poultry - Southern hemisphere

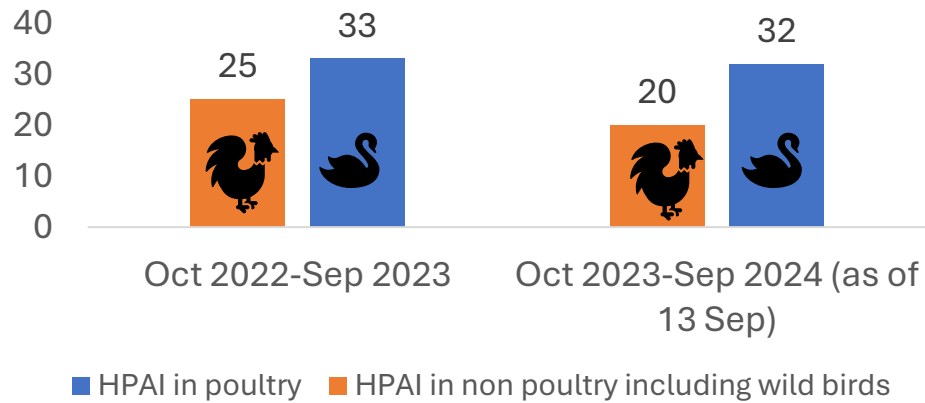


- 79% compared to previous season

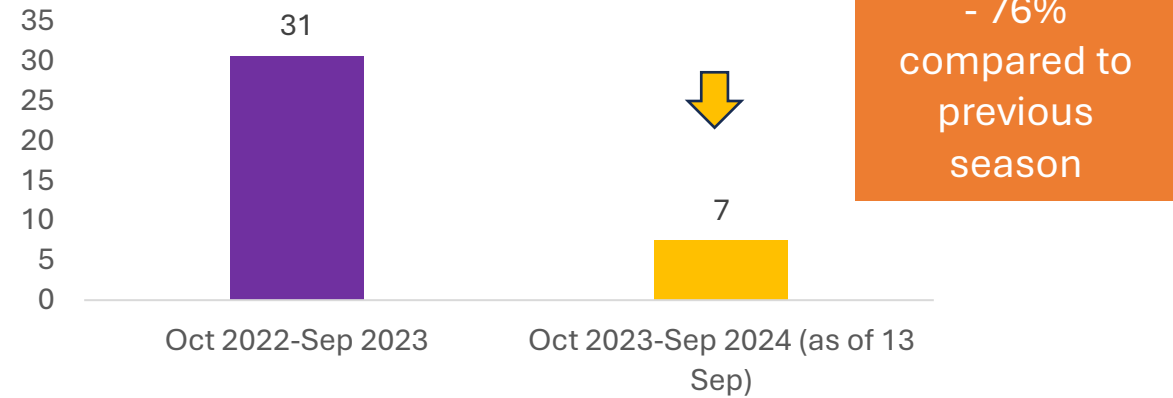


HPAI : comparison Oct 2022- Sep 2023 vs Oct 2023 – Sep 2024 - Europe

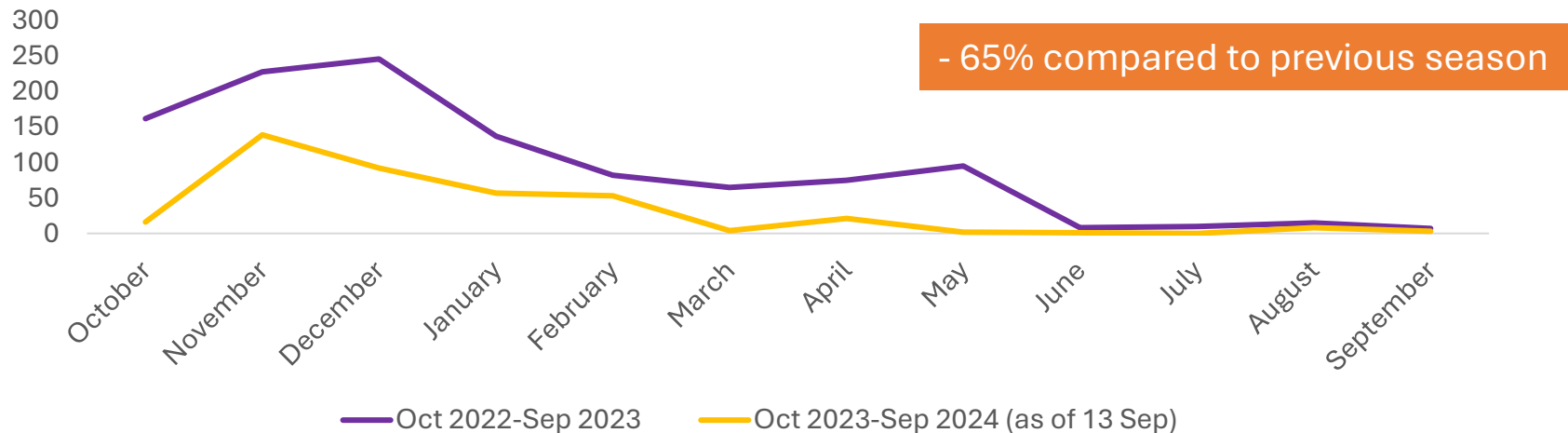
No. of countries/territories reporting HPAI to WOAH - Europe



No. poultry killed and disposed of reported to WOAH (in millions of heads) - Europe



No. outbreaks in poultry - Europe



Reported according to *Terrestrial Code* Article 1.1.3. or 1.1.5

Summary of reports made according to Article 1.1.3.

Serotype, country, and species	Earliest outbreak report date	Latest outbreak report date	Number of outbreaks reported	More information
H5				
Argentina	25/08/2023	27/10/2023	18	🔗
Chile	24/02/2023	28/07/2023	34	🔗
Norway	23/02/2024	21/06/2024	3	🔗
Peru	17/08/2023	17/08/2023	3	🔗
Uruguay	10/05/2023	15/11/2023	12	🔗
H5N1				
Brazil	05/10/2023	15/12/2023	5	🔗
Canada	06/05/2022	26/05/2024	45	🔗
China (People's Rep. of)	25/02/2015	25/02/2015	1	🔗
Estonia	17/12/2021	17/12/2021	1	🔗
Finland	13/07/2023	25/04/2024	76	🔗
France	28/12/2022	06/03/2023	2	🔗
Germany	02/05/2023	18/04/2024	19	🔗
Ireland	14/02/2022	20/12/2022	2	🔗
Italy	05/05/2023	13/07/2023	3	🔗
Japan	11/04/2022	03/07/2023	4	🔗
Korea (Rep. of)	26/07/2023	04/08/2023	2	🔗
Latvia	14/07/2023	14/07/2023	2	🔗
Norway	26/07/2023	26/07/2023	1	🔗
Russia	28/08/2023	28/08/2023	1	🔗
United States of America	10/05/2022	05/07/2024	332	🔗
H5N5				
Canada	24/05/2023	13/05/2024	4	🔗

Summary of reports made according to Article 1.1.5.

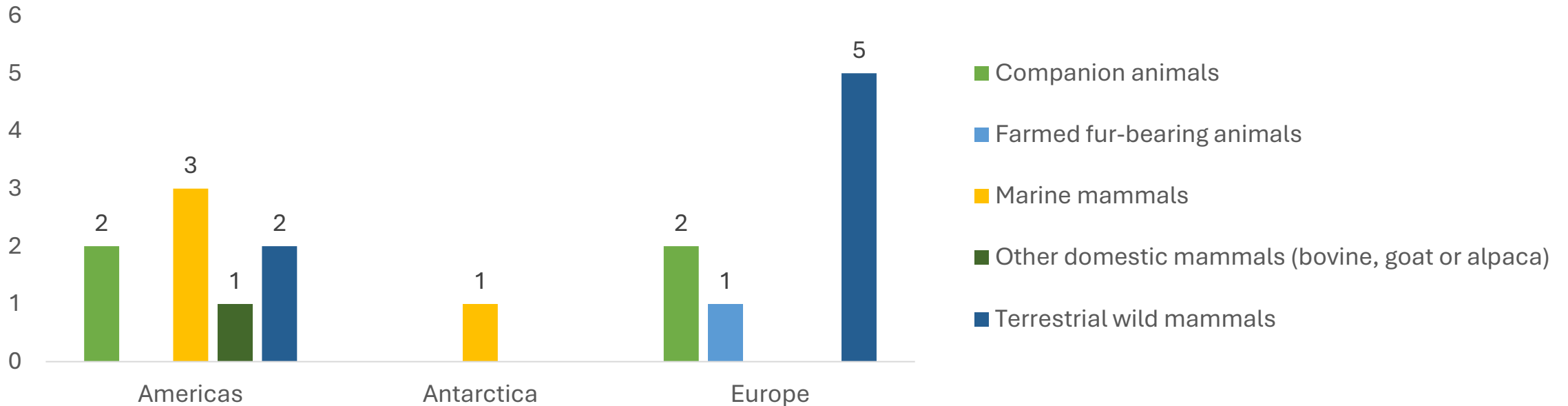
Serotype, country, and species	First report date	Latest report date	Number of reports
H5N1			
Chile	03/05/2023	03/05/2023	1
Denmark	25/09/2023	25/09/2023	1
Hungary	07/06/2024	07/06/2024	1
Peru	07/02/2023	07/02/2023	1
Poland	12/07/2023	12/07/2023	1
South Georgia and the South Sandwich Islands	13/01/2024	13/01/2024	1
Spain	21/10/2022	21/10/2022	1
Sweden	09/08/2023	23/05/2024	3
United Kingdom	20/12/2022	26/10/2023	8
H5NX			
United Kingdom	23/03/2023	23/03/2023	1





Reporting by mammal category (October 2023 – September 2024 (up to 13 September))

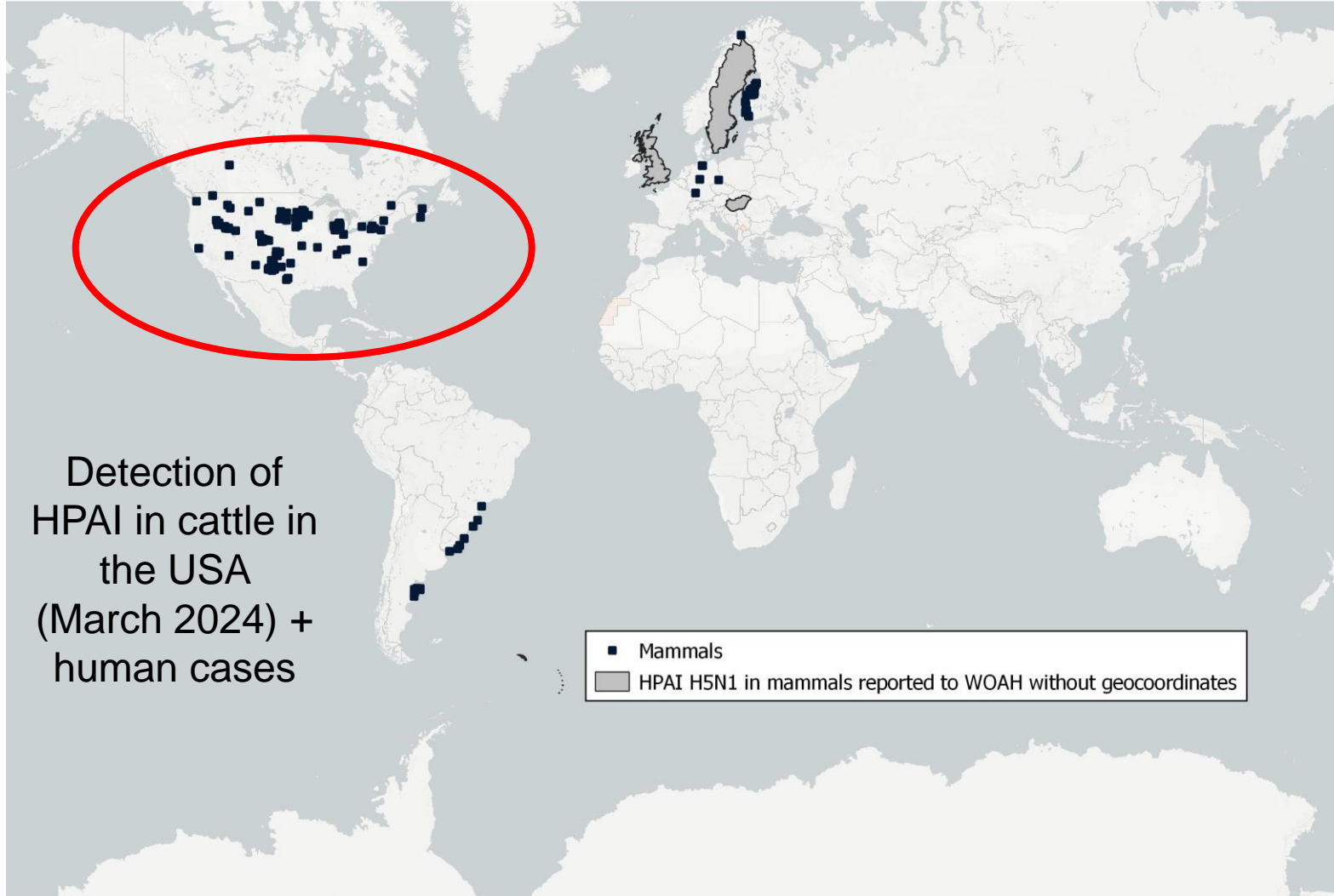
Number of countries/territories reporting HPAI cases in mammals



- **Companion animals** : cats and dogs
- **Farmed fur-bearing mammals** : 4 species (*American mink, Arctic fox, raccoon dog, sable*)
- **Marine mammals** : 4 species (*Antarctic fur seal, South American fur seal, South American sea lion, Southern elephant seal*)
- **Other domestic mammals** : 3 species (*alpaca, bovine, goat*)
- **Terrestrial wild mammals**: 13 species (e.g. raccoon, red fox, Eurasian otter)



HPAI in mammals, reported to WOAAH by national authorities for October 2023 – September 2024 (up to 13 September)



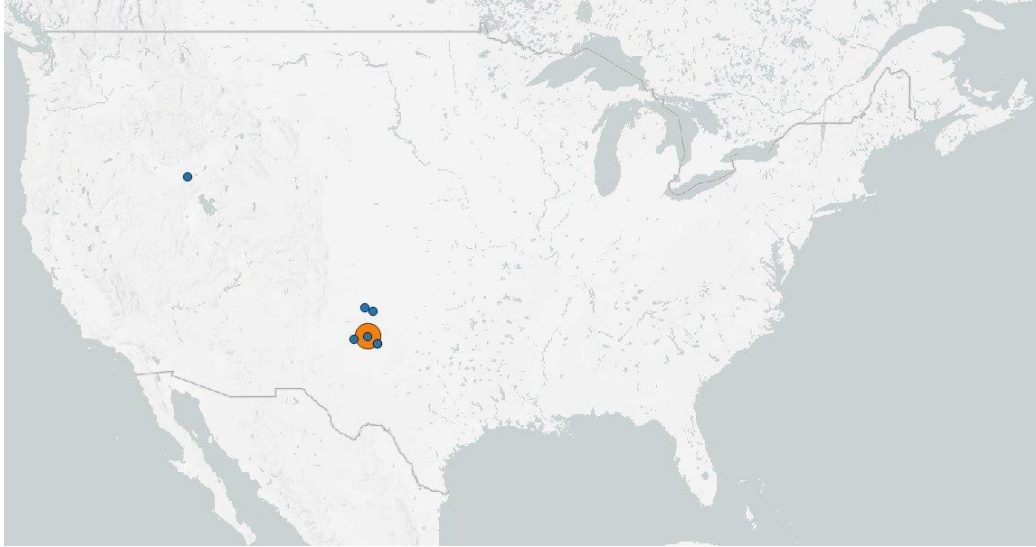
12 countries/territories

Argentina, Brazil, Canada, Finland, Germany, Hungary, Norway, United Kingdom, United States of America, South Georgia, Sweden, Uruguay

Increase in the number of cases detected in domestic and wild mammals

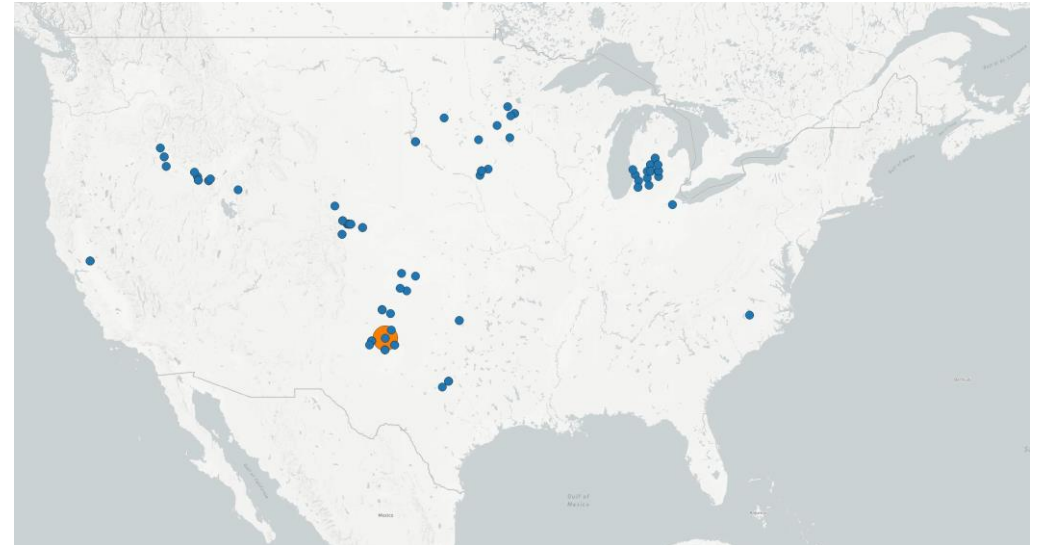


Outbreaks reported by USA to WOAAH, based on start dates (cumulative)



WEEK 1 Start date of the first outbreak (orange dot) on 10 March 2024

8 outbreaks
Texas, Idaho, New Mexico



WEEK 27

202 outbreaks – 14 States
Texas, Idaho, New Mexico, Michigan, Kansas, Ohio, South Dakota, North Carolina, Oklahoma, Colorado, Minnesota, Wyoming, Iowa, California



13 May 2024

The screenshot shows the top navigation bar of the WOAH website with categories like 'Animal Diseases', 'Avian Influenza', and '91st General Session'. The main article title is 'High Pathogenicity Avian Influenza in Cattle', published on 5 April 2024. A QR code is provided for quick access to the article. An image of a person in a dark coat standing in a barn with several cows is also visible.

Updated OFFLU Statement on high pathogenicity avian influenza in dairy cows

Since its inception in 2005, [OFFLU](#) (WOAH-FAO network of expertise on animal influenza) has been closely monitoring the global impacts of high pathogenicity avian influenza (HPAI), including working with multiple countries affected by the current H5N1 HPAI panzootic. Field veterinarians and OFFLU scientists in influenza Reference and Collaborating Centres play a key role in responding to novel outbreaks and characterising avian influenza (AI) viruses, including those that spillover to livestock or new and unusual hosts.

OFFLU scientists strive to share scientifically sound information for the surveillance and diagnosis of animal influenzas for Member laboratories and are closely following the current situation of [AI detections in dairy cows](#) (the first reported spillover to bovine species) and an associated human case in the USA as well as subsequent reports of viral RNA detections in milk. A [case definition](#) for HPAI H5N1 clade 2.3.4.4b in livestock is described by USDA. WOAH recommends investigation of suspected HPAI cases in [non-avian species including cattle or other livestock populations](#) with high risk of exposure to HPAI viruses.



Food and Agriculture Organization of the United Nations



World Health Organization



World Organisation for Animal Health
Founded as OIE

Updated joint FAO/WHO/WOAH assessment of recent influenza A(H5N1) virus events in animals and people

Assessment based on data as of 18 July 2024

14 August 2024

Key points

At the present time, based on available information, FAO-WHO-WOAH assess the global public health risk of influenza A(H5N1) viruses to be low, while the risk of infection for occupationally exposed persons is low to moderate depending on the risk mitigation measures in place. Transmission between animals continues to occur and, to date, a limited number of human infections have been reported. Although additional human infections associated with exposure to infected animals or contaminated environments are likely to continue to occur, the overall public health impact of such infections at a global level is minor.



The situation is constantly evolving, and risks must continue to be assessed regularly

FAO/WHO/WOAH continue to monitor and collaborate

- HPAI has led to the death and **mass slaughter of over 525 million poultry worldwide between 2005 and 2024 (as of 13 September)** with an unprecedented peak of 135 million in 2022.
 - 57 million poultry birds killed and disposed of between 1 October 2023 and 13 September 2024
- During this peak in 2022, 84 countries and territories in the world were affected with HPAI. This number continued to rise in 2023, reaching 88 countries and territories
 - 71 countries and territories so far in 2024, as of 13 September.
- HPAI is a **significant threat to biodiversity**, for both wild bird populations (the disease can decimate colonies of endangered species and has reached critical areas) and mammals (mass mortality events)
- Situation of concern in cattle in the USA, **novel risk to the cattle industry** ([207 dairy herds affected](#) as of 17 September 2024), and **implications for public health**
- In addition, up to now, humans have occasionally been infected with several subtypes of avian influenza (mainly H5N1, H7N9, H5N6, H9N2 with more than 2500 cases since 2003)
 - 38 human cases reported by 8 countries/territories (none in Europe) to [WHO](#) between 1 October 2023 and 13 September 2024 (of which 14 in the [USA](#)) – WOAHA **closely monitoring evolutions and public health risk**

90th General Session
World Organisation for Animal Health

World Assembly
Paris, 21-25 May 2023



The **HPAI Animal Health Forum** offered an opportunity for Delegates and subject matter experts to have open discussions and agree on how to best tackle HPAI.



Technical Item:
Strategic challenges in the global control of high pathogenicity avian influenza

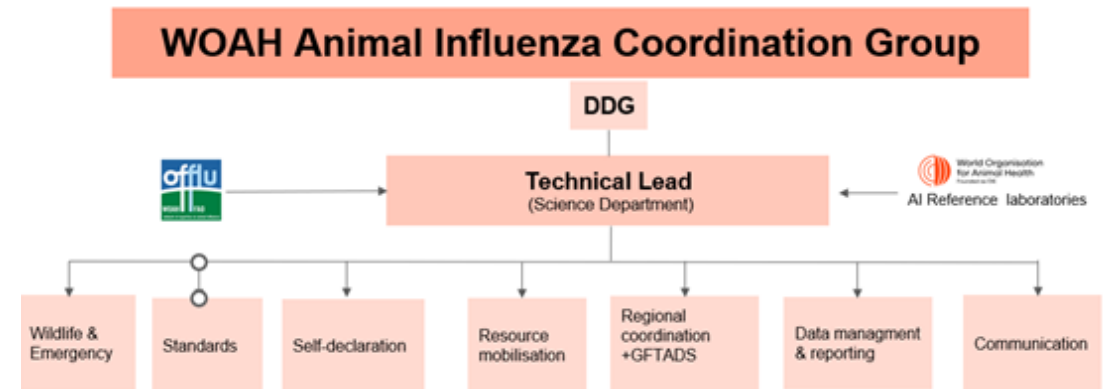


Policy to Action:
The case of Avian Influenza – Reflections for Change



Resolution 28:
Strategic Challenges in the Global Control of High Pathogenicity Avian Influenza

Implementation framework (May 2023 – May 2025)



- All the 19 recommendations of Resolution 28 have at least one related activity underway.
- Of the 29 SMART indicators, 16 (55.2%) have already been achieved within the first year of implementing the framework.


OUTCOMES	1 st YEAR ACTIVITIES	OUTPUTS
<p>Outcome 1 Global and regional surveillance and monitoring systems for early detection and prevention in domestic and wild animals are enhanced.</p>	<ul style="list-style-type: none"> - Global OFFLU proficiency testing programme - 200 focal points trained on notification - Contributions of zoonotic influenza data to WHO Vaccine Composition Meetings - 18 Situation reports - Working group on wildlife – Guidelines for mammals 	<p>Improved global intelligence on HPAI in domestic and wild animals</p>
<p>Outcome 2 Tools for the prevention and control of HPAI, including vaccination, are optimized and disseminated, and the development of new tools is accelerated.</p>	<ul style="list-style-type: none"> - At least 12 meetings on HPAI - OFFLU avian influenza matching project (AIM) reports published - Ongoing to draft – Surveillance guidelines for smallholder poultry settings (backyard) - Guidelines on zoning and compartmentalization 	<p>Use of current tools to prevent and control HPAI</p>
<p>Outcome 3 Safe international trade is being facilitated by the correct implementation of up to date and science-based standards and guidance.</p>	<ul style="list-style-type: none"> - Revision of Terrestrial Manual - Chapter 3.3.4 - WOAH Policy paper of avian influenza vaccination 	<p>Facilitation of safe trade using up-to-date and science-based standards and guidance</p>
<p>Outcome 4 Global and regional coordination on avian influenza is achieved.</p>	<ul style="list-style-type: none"> - GF TADs Global Strategy on HPAI launched - Regional GF-TAD meetings - Star IDAZ – research roadmaps 	<p>Effective global and regional coordination in the control of HPAI</p>

Policy brief

Avian influenza vaccination: why it should not be a barrier to safe trade

Executive summary

Since 2005, avian influenza has had a staggering toll, with over 500 million birds lost to the disease worldwide [1]. Its devastating impact extends beyond domestic and wild birds, threatening livelihoods, food security and public health. The recent shift in the disease's ecology and epidemiology has heightened global concern as it has spread to new geographical regions. It has also caused unusual die-offs in wild birds and led to an alarming increase in mammalian cases. The rapidly evolving nature of avian influenza and **changes in its patterns of spread** [2] require a review of existing prevention and control strategies. To effectively contain the disease, protect the economic sustainability of the poultry sector and reduce potential pandemic risks, all available tools must be reconsidered – including vaccination.



December 2022

© WHO/FAO

Joint WOAH-FAO network of scientific expertise on animal influenzas OFFLU



Reference laboratories
Influenza Experts

OFFLU Technical working groups:

- Avian Influenza
- Wildlife group
- Human animal interface (VCM)
- Poultry vaccination (AIM)
- Applied epidemiology
- Socioeconomics
- Equine Influenza
- Swine Influenza

Network promoting the sharing of information
(and sequence data)

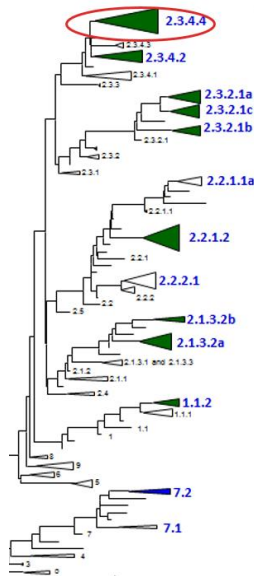
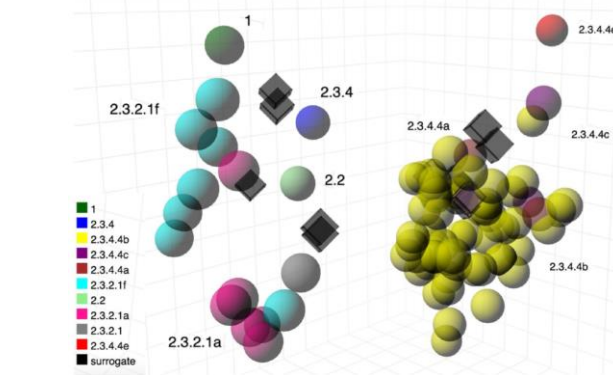
OFFLU GLOBAL TECHNICAL MEETING HAPPENED IN JULY 2024 to revise ToR of groups and future plan of action



OFFLU network contribution to WHO Vaccine Composition Meetings



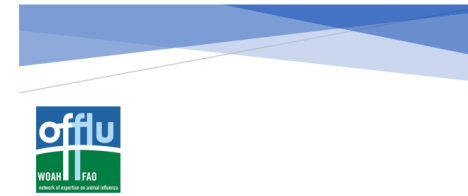
Step 1:
Epidemiological
and genetic
analysis



Step 2:
Evaluate antigenic
changes of significance
to candidate vaccine
viruses (CVV)

Step 3:

- OFFLU data package presented
- Discussed in the context of zoonotic human influenza cases
- WHO VCM zoonotic report
- Updates to CVVs



OFFLU SWINE
INFLUENZA REPORT
JANUARY 2023 TO JUNE 2023

SCOPE
In this document we present a summary of H1 and H3 swine influenza A virus evolution.

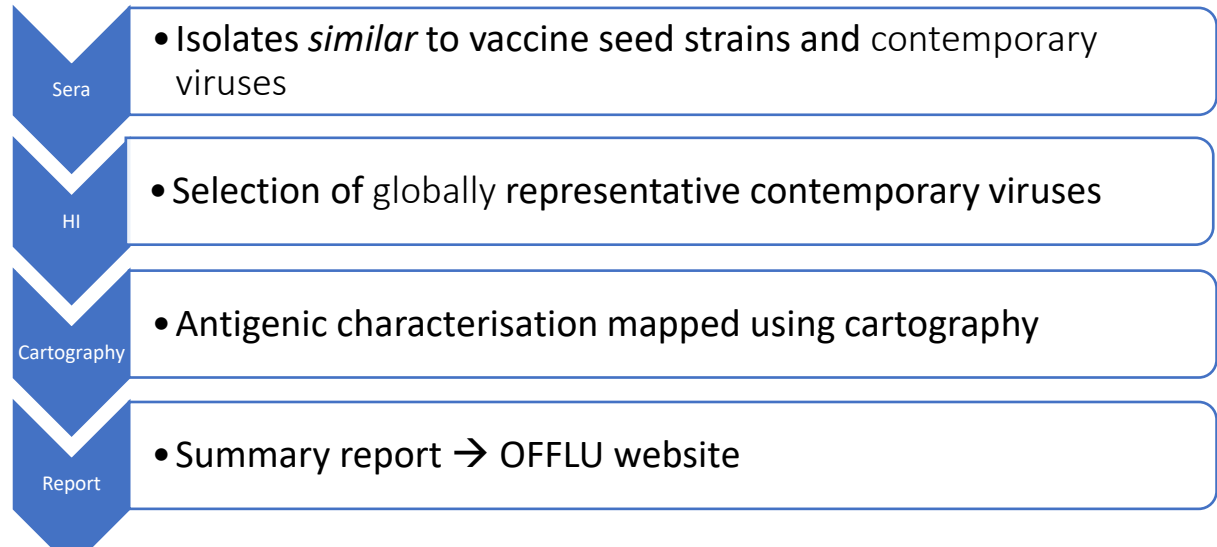


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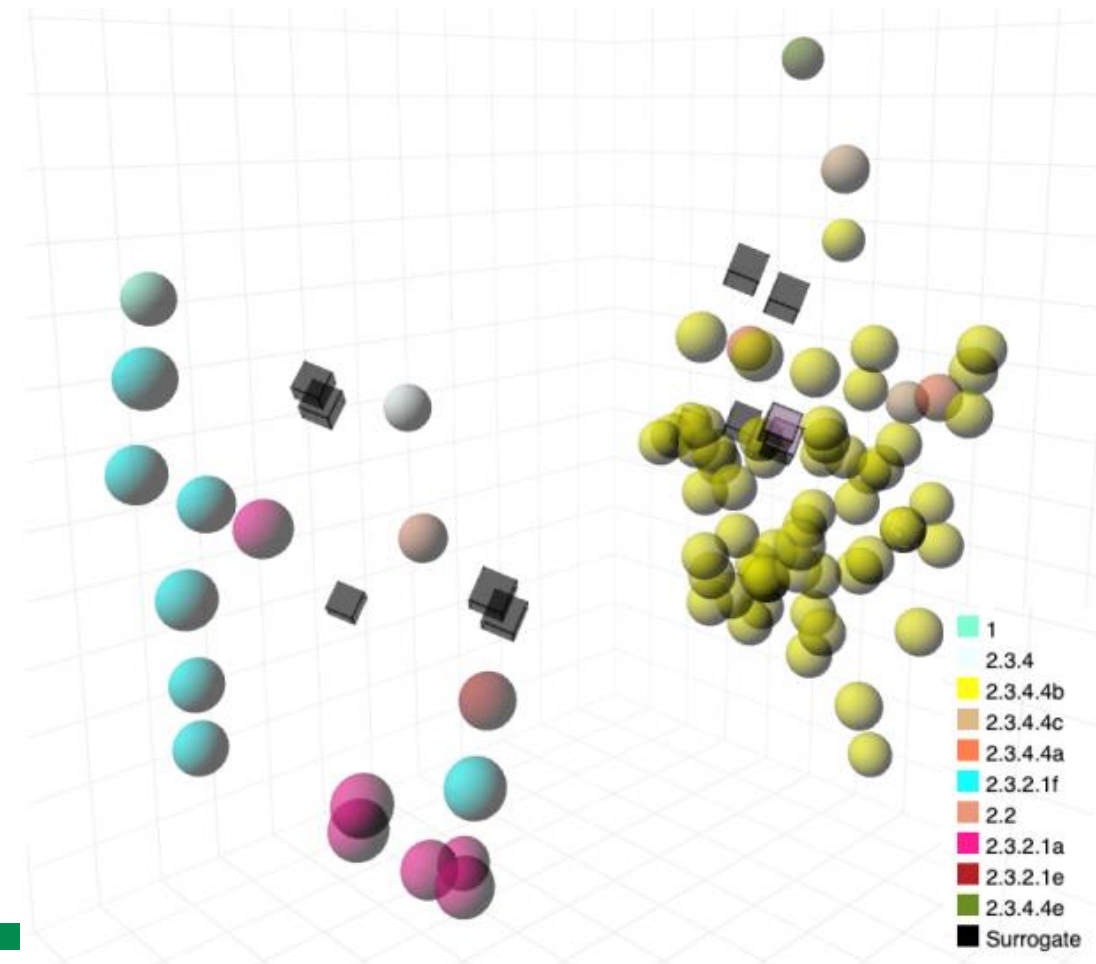


World Health
Organization

Avian Influenza Matching (AIM) for poultry vaccines



- Information on the antigenic characteristics of currently circulating avian influenza viruses
- Facilitate the selection of appropriate vaccines for poultry
- Requires **sharing** of viral isolates from countries
- Potential for early warning and regularly updated





Global strategy for the prevention and control of high pathogenic avian influenza (2024-2033)

In brief

KEY ELEMENTS OF THE REVISED GLOBAL STRATEGY:

- It provides high-level strategic direction for global and regional coordination to support the development and/or revision of national and regional action plans for HPAI prevention and control. It is not intended to be prescriptive or binding.
- It emphasizes the need for a One Health approach and puts a focus on poultry value chains and measures that can significantly reduce the burden of HPAI.

BACKGROUND

The Food and Agriculture Organization of the United Nations (FAO) and World Organisation for Animal Health (WOAH), under the Global Framework for the Progressive Control of Transboundary Animal Diseases (GF-TADs), have collaboratively drafted a revised ten-year global strategy for the prevention and control of high pathogenic avian influenza (HPAI) in response to the continued intercontinental spread and changes in the circulating HPAI virus (H5 goose/Guangdong (Gs/GD) lineage, especially 2.3.4.4b clade). This replaces the strategy published in 2007 in response to the initial emergence of the H5N1 Gs/GD lineage in Asia.

The revised strategy emphasizes a systems approach to contextualize the threat of HPAI against the backdrop of other global concerns and work towards long-term transformative change in the poultry sector. There is a strong focus on the One Health approach to ensure integrated collaboration with public health, wildlife and environmental sectors to prevent, protect and transform poultry value chains against HPAI. It encourages the use of established and innovative means of protecting poultry value chains to reduce the burden of infections and losses. The revised strategy provides a framework.

- **Prevent** HPAI epidemics, panzootics and negative impacts on biodiversity through multisectoral early detection and control
- **Protect** poultry value chains, livelihoods, trade, and the health of humans, ecosystems, and other animals from avian influenza impacts
- **Transform** poultry value chains to improve resilience to avian influenza and other disease threats.



<https://openknowledge.fao.org/server/api/core/bitstreams/6fff62da-80e1-43ab-94ee-3a5b69940b7c/content>

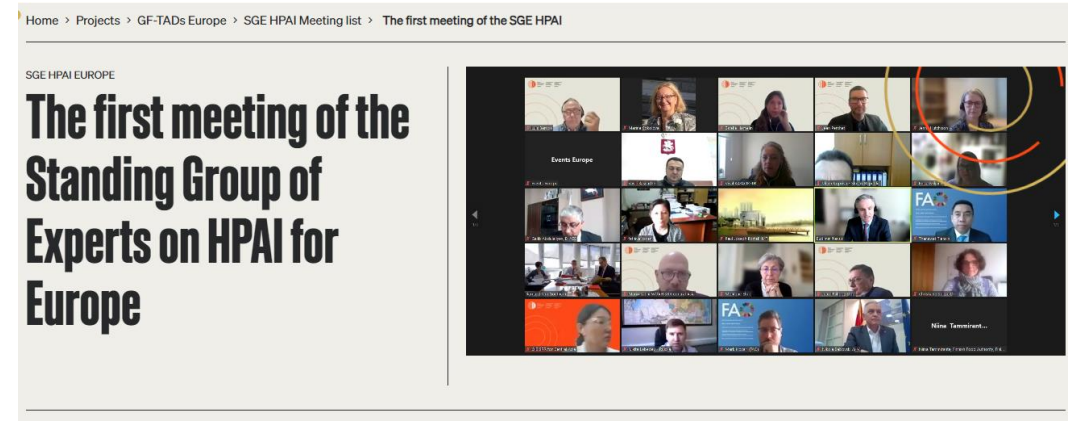
Regional groups on Avian Influenza

Supporting coordination and exchange of information between neighbouring countries, experts and international/regional organisations

Information, presentations and material available on regional WOAHP website



[Second meeting of the SGE HPAI - Americas](#)



02/05/23 TELECONFERENCE

Share on social media: [f](#) [x](#) [in](#)

[The first meeting of the SGE HPAI - WOAHP – Europe](#)

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Avian Disease Workshop for Asia Pacific 2024



AUGUST 27, 2024 - AUGUST 29, 2024 SEOUL, REPUBLIC OF KOREA

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Thank you

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