



Międzynarodowa Konferencja Drobiarska

2026

AKTUALNE WYZWANIA BRANŻY DROBIARSKIEJ



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2026



KRAJOWA RADA DROBIARSTWA
I ZBIA GOSPODARCZA





The French experience in implementing vaccination against HPAI



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DE L'AGRICULTURE
ET DE LA SOUVERAINETÉ
ALIMENTAIRE

Liberté
Égalité
Fraternité



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National Veterinary College of Toulouse - ENVT
UMR IHAP – *Chair for Poultry Biosecurity & Health*



Warsaw – May 22, 2026



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NAJONNA BADA DROBIARSTWA
I ZA GOSPODARSTWA





H5 avian influenza: a global risk for animal & human health

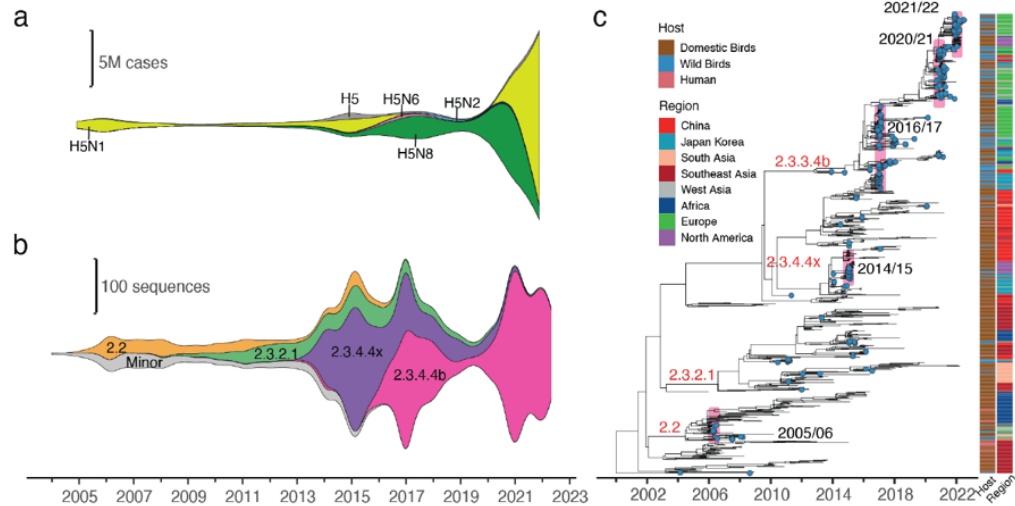
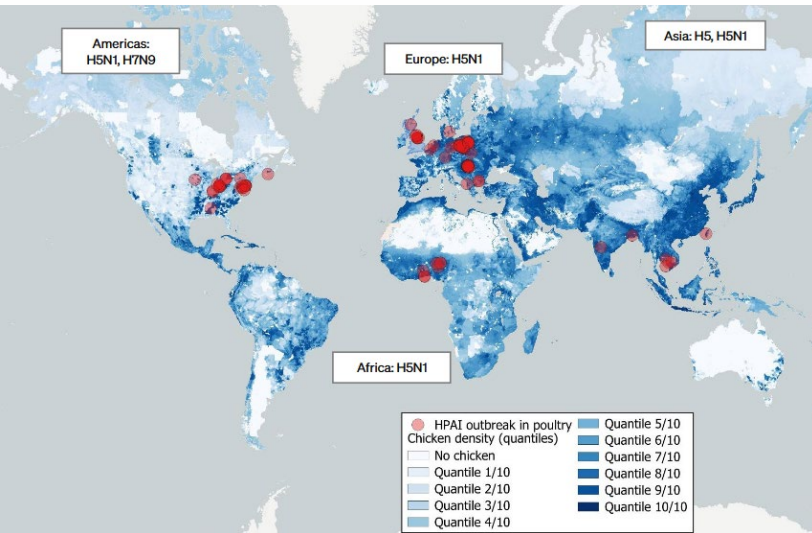
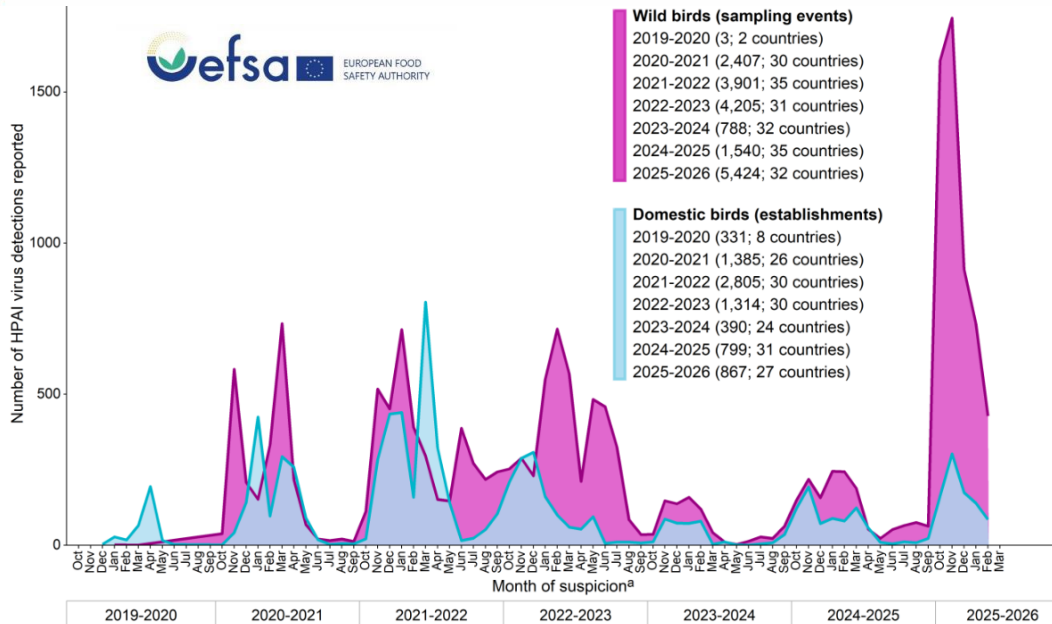


Figure 1. Dynamic changes in HPAI H5 subtypes

Xie et al, Nature, 2023



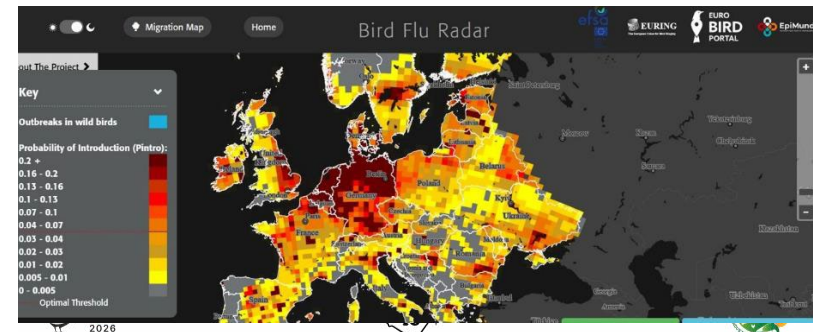


Avian influenza in Europe: enhanced surveillance and strict biosecurity needed as detections surge

Published: 24 November 2025 | 3 minutes read

Last reviewed date: 25 November 2025

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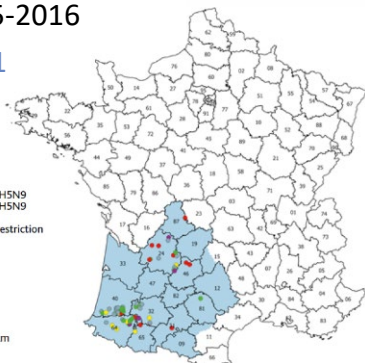


2015-2016

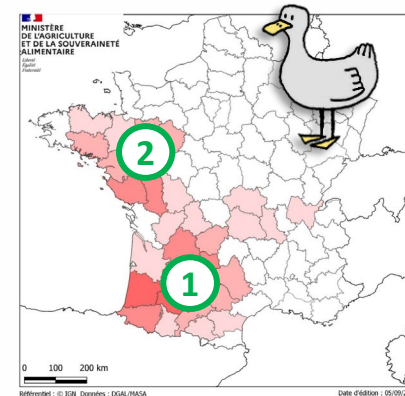
n=81

Sous-types
 ● HSN1
 ● HSN2
 ● HSN3
 ● HSN2 et HSN9
 ● HSN1 et HSN9
 ● HSHF
 ■ Zone de restriction

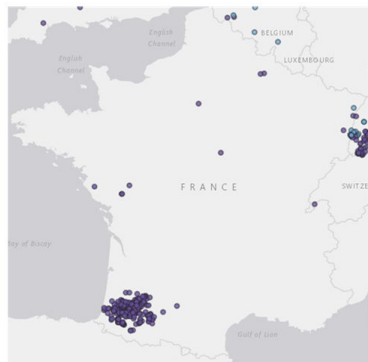
0 2 550 km



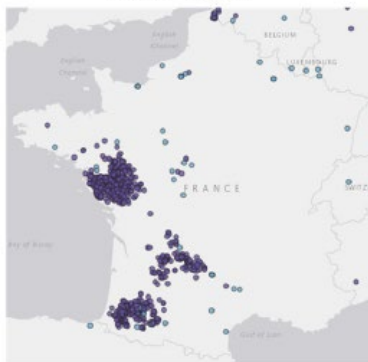
2016-2017 n=488



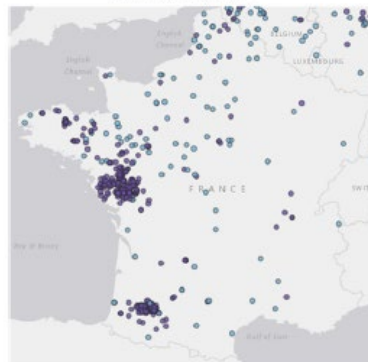
2020-2021 n=492



2021-2022 n=1,377



2022-2023 n=402



- 5 major epidemics
- Breeder stock affected
- **Role of duck farms**
- Farm density
- **« Classical » culling strategy is not efficient**

Bauzile et al, 2023

Guinat et al, 2020

Le Bouquin et al, 2016

Scoizec et al, 2024

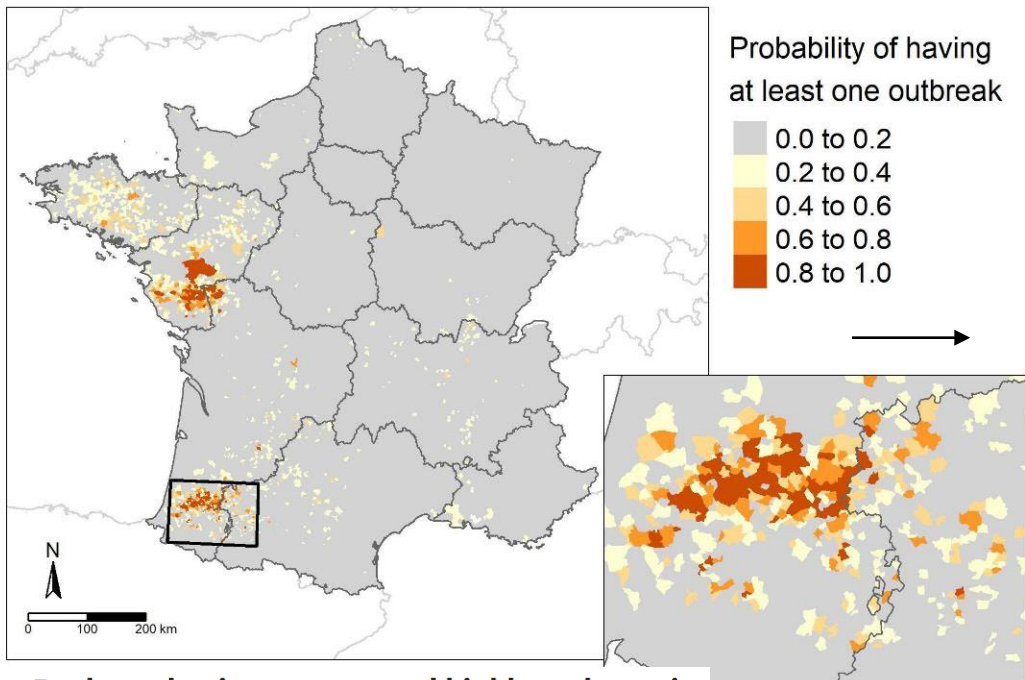


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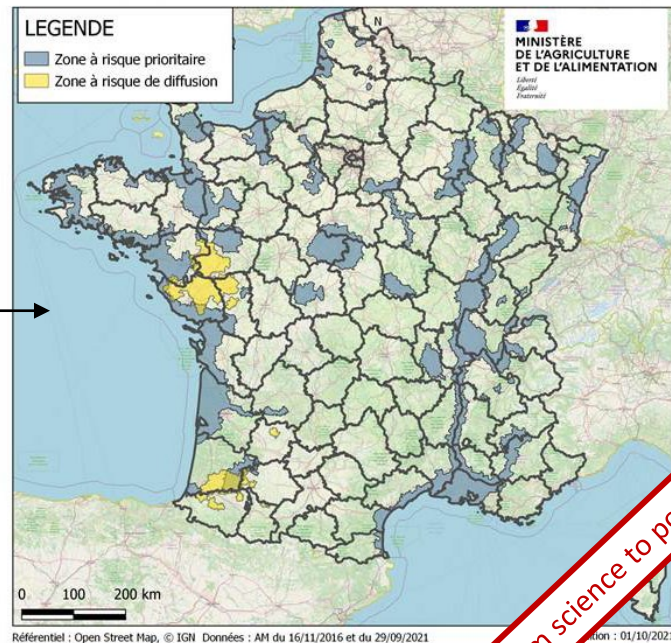




The risk map of HPAI in France is shaped by duck farms density



IAHP : zones à risque particulier (ZRP) et à risque de diffusion (ZRD) en France



From science to policy

Duck production systems and highly pathogenic avian influenza H5N8 in France, 2016–2017

C. Guinat, J. Artois, A. Bronner, J. L. Guérin, M. Gilbert & M. C. Paul

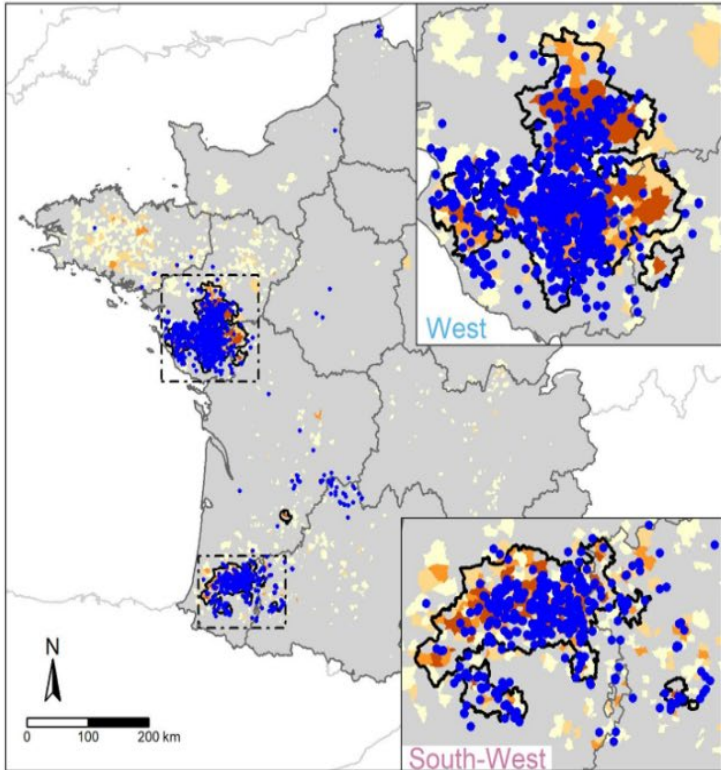
Scientific Reports 9, Article number: 6177 (2019) | Cite this article



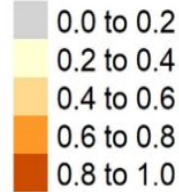


The risk map of HPAI in France is shaped by duck farms density

A



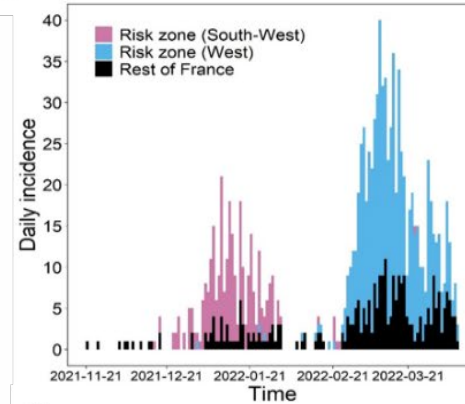
Predicted probability
that ≥ 1 outbreak
occurs based on the
2016-2017 model



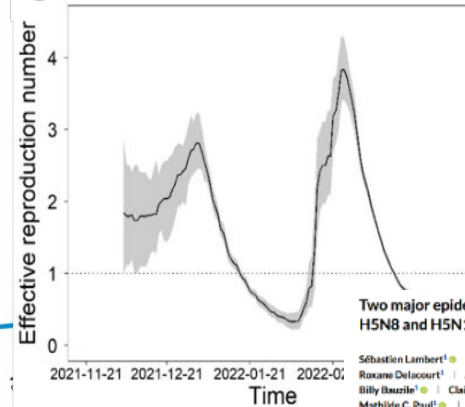
— Risk zones

• Outbreaks 2021-22

B



C



Two major epidemics of highly pathogenic avian influenza virus
H5N8 and H5N1 in domestic poultry in France, 2020-2022

Sébastien Lambert¹ | Benoit Durand² | Mathieu Andraud³ |
Roxane Delacourt⁴ | Axelle Scozrec⁵ | Sophie Le Bouquin⁶ | Séverine Rautureau⁷ |
Billy Bazille⁸ | Claire Guinat^{9,10} | Lisa Fourtune¹¹ | Jean-Luc Guairin¹² |
Mathilde C. Paul¹³ | Timothée Vergne¹⁴



- **Biosecurity**
 - Is and will remain a basics and a MUST in all sanitary strategy
 - But showed limited efficacy against avian influenza
- **Surveillance**
 - Objective: early detection of outbreaks
 - Molecular tools: detection → genomic surveillance
 - Surveillance of vaccinated flocks more challenging (?)
- **Depopulation + restriction zones in case of outbreaks**
 - Outbreaks: « culling as fast as possible » + « Preventive culling »
 - Stop movements + testing
 - Issues : animal + farmer welfare, societal acceptability, capacities for culling and disposal of carcasses in case of large epizootics, ...





SO...why not include vaccination in our toolbox?

PROS

- PROTECT birds from disease & mortality
- REDUCE viral excretion and sensitivity of birds to infection
- REDUCE culling and placement restriction
- REDUCE exposure of mammals (humans) to HPAIV



CONS

- RISK of silent viral circulation in vaccinated flocks
- RESTRICTION of international trade
- COST of vaccination and SURVEILLANCE
- REDUCE compliance with biosecurity measures by farmers





2022: toward vaccination in the EU

Agreement from EU and G7: vaccination is a complementary tool to control HPAI and should **not** result in commercial restrictions if properly applied

Trials in 3 EU members: France, Italy and The Netherland started trials



Ducks



Turkey (high farm densities + wetlands in the North)



Layers (specific risks + wetlands)

.....

The strategy should be adapted to the specificities of each poultry sector (species, densities ...)



Restrictions on international trade?

Policy brief

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

Executive summary

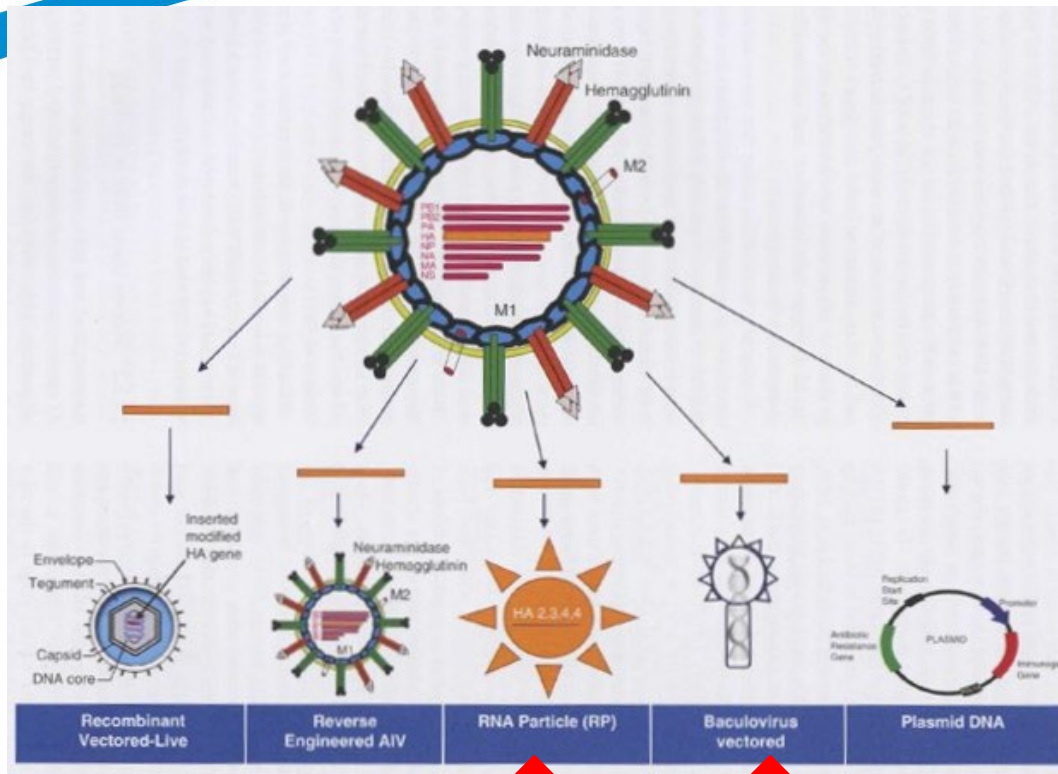
Since 2005, avian influenza has had a staggering toll, with over 500 million birds lost to the disease worldwide [1]. Its devastating impact extends beyond domestic and wild birds, threatening livelihoods, food security and public health. The recent shift in the disease's ecology and epidemiology has 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.



© Wiloski

December 2023





Swayne et Sims
In: Metwally et al., 2021





Vaccine & company	Species	Vaccination at 1 day of age	DIVA ELISA NP serology
Volvac BEST AI+ND BOERHINGER INGELHEIM	Pekin ducks,	Yes	Possible
	Mule ducks,		
Vaccin CEVA Respons H5 Ceva Animal health	Muscovy ducks	Yes	Possible
	Mule ducks,	Yes	
	Pekin ducks,		
	Muscovy ducks		



Vaccination

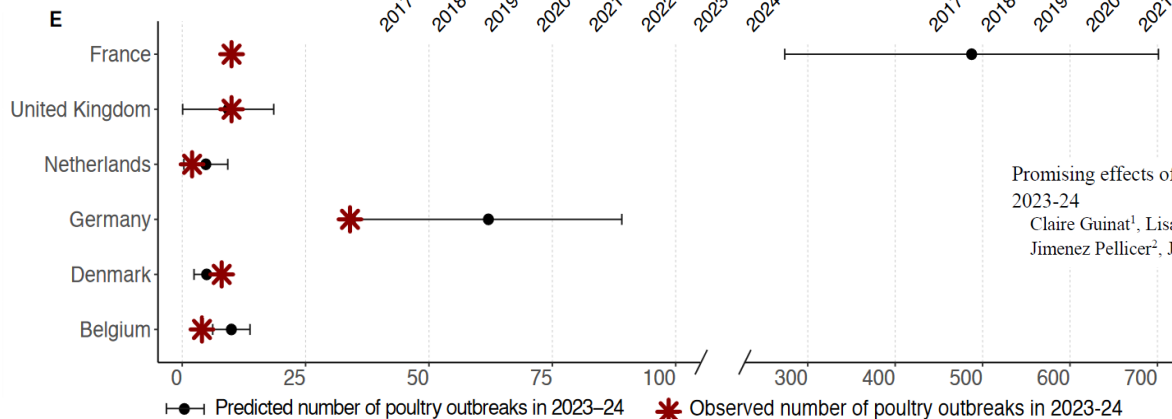
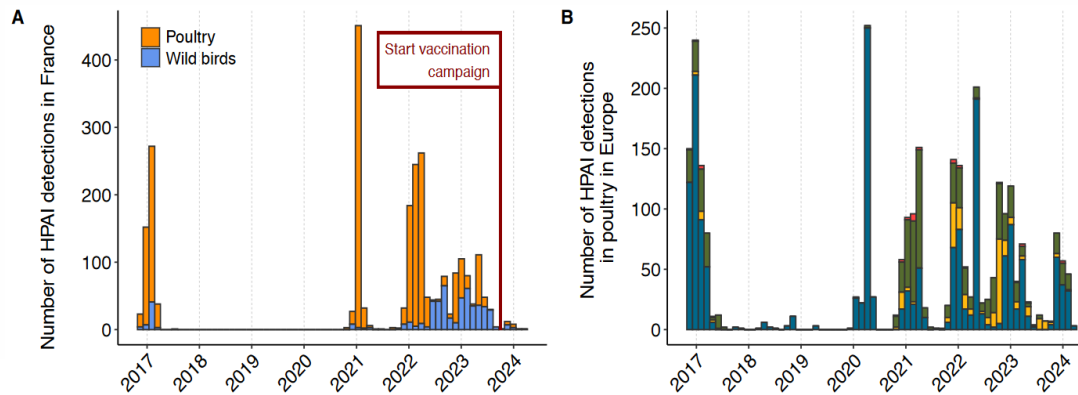
- Mandatory for all ducks at the production level
- Optional for breeder ducks
- Prohibited for all other poultry





EU Delegate act – HPAI vaccination surveillance

Conditions	Enhanced passive surveillance	Active surveillance	Serological survey to evaluate the effectiveness of the campaign
Where?	Epidemiological Unit	Epidemiological Unit	Batch
By who?	Breeder or Technician	Official veterinarian	Official veterinarian
Frequency?	Weekly	Every 30 days: clinical visit + virological analysis	At the end of the batch: serological analysis
How?	Swabs (tracheal or oropharyngeal swabs) on 5 cadavers	Swabs on 60 vaccinated ducks (tracheal or oropharyngeal swabs)	Blood collection from 20 animals
Analysis?	RT-PCR gene M virology If the result was positive → screening H5/H7	RT-PCR gene M virology (If the result was positive → screening H5/H7)	ELISA NP serology
Laboratory type?	Recognised laboratory	Approved laboratory	Approved laboratory



Promising effects of duck vaccination against highly pathogenic avian influenza, France 2023-24

Claire Guinat¹, Lisa Fortune¹, Sébastien Lambert¹, Eva Martin¹, Guillaume Gerbier², Andrea Jimenez Pellicer², Jean-Luc Guérin¹, Timothée Vergne¹



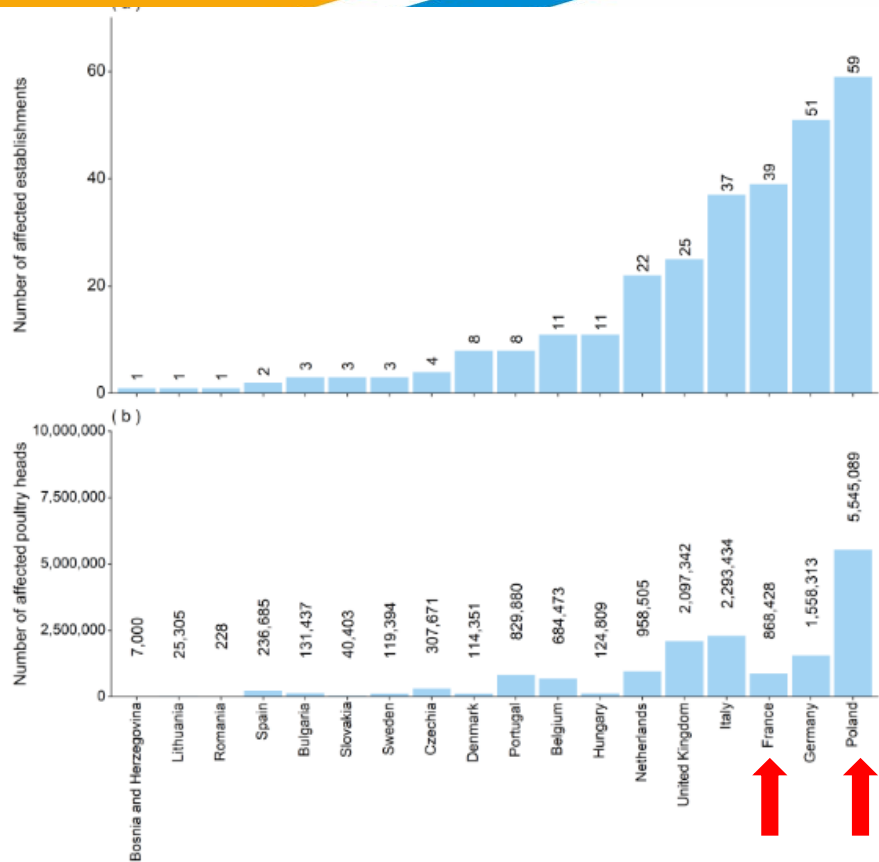
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France

During the current reporting period from 29 November 2025 to 27 February 2026, 39 HPAI A(H5N1) outbreaks in poultry were reported in France via ADIS. Additional data were collected and provided by the reporting country for all outbreaks (Annex B). Among these, 97% (38/39) were classified as primary and 3% (1/39) as secondary, affecting a total of 868,428 birds. Most (87%, 34/39) of the outbreaks occurred in commercial single-species establishments, including vaccinated ducks (36%, 14/39), turkeys for fattening (15%, 6/39), laying hens (10%, 4/39),

- Multiple primary introductions at the EU scale
- Investigations pending on duck cases
- 100% protection does not exist !





Take-home messages

- No taboo ! vaccination may be part of the solution (**along with biosecurity and surveillance**)
- Implementation of HPAI vaccination – if properly executed - does NOT increase the risk of viral circulation
- Major improvements in both vaccine and diagnostics technologies offer now smart solutions for efficient vaccination AND monitoring of vaccinated flocks
- **A vaccination strategy (which species? Which areas? Which programme?) must be designed for each national/regional specific situation**
- **Logistical / practical aspects** of a vaccination programme are very important and must be addressed with all stakeholders (vets, farmers, services, ...)
- Surveillance is and will remain THE key and the most expensive part of a vaccination program
- Modeling the infection and the impact of vaccination, including the economic impact, at the farm and regional scales, may be helpful to define a strategy
- There's need for research to improve vaccines, vaccination strategy and surveillance tools
- **This is a never-ending story ! Adaptation of our response to viral changes will remain our daily challenge**



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Thank you for your attention !



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envt école
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vétérinaire
toulouse

INRAE



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Ducks are insidious and heavy disseminators of HPAIVs

