



Food and Agriculture
Organization of the
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World Organisation
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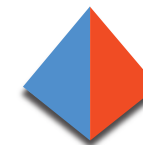
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1st GF-TADs Regional Conference in the European region

Country experience: Vaccination in
FRANCE, including cost-benefit-
effectiveness

French Ministry of Agriculture and
Food Sovereignty

(GERBIER G) 22-25/September/2025, Belgrade, Serbia



GF-TADs

GLOBAL FRAMEWORK FOR THE
PROGRESSIVE CONTROL OF
TRANSBOUNDARY ANIMAL DISEASES



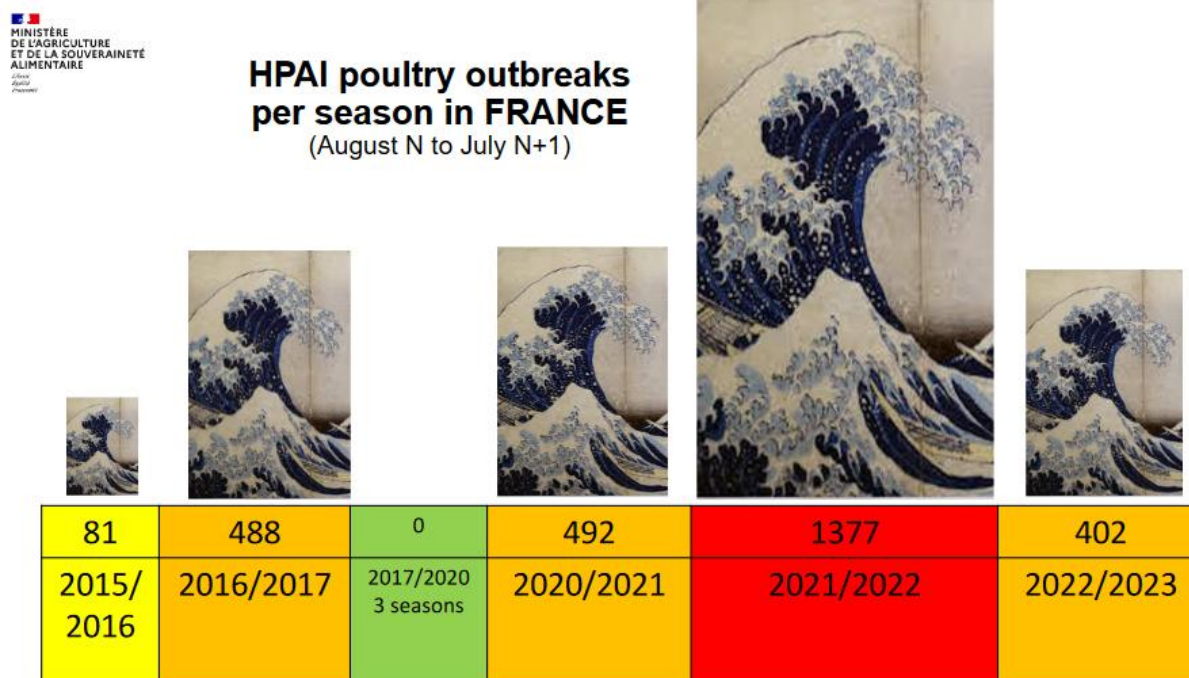
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Vaccination in France
started in October 2023
after 3 major epizootics:

- 2020/2021: 492 outbreaks
- 2021/2022: 1377 outbreaks
- 2022/2023: 402 outbreaks



Cf presentation in Samarkand



GUIDING PRINCIPLES FOR DEFINING VACCINATION STRATEGY



Objective

- Vaccination helps **to slow the spread** of the virus and complements control measures to achieve eradication.

Modalities

- **Preventive vaccination** is the only feasible option at this stage.
- Vaccination should be accompanied by a **strict surveillance system**.
- The vaccines selected will allow the implementation of a **DIVA strategy**.
- The implementation of a strategy will have to be preceded by **coordinated work towards trading partners** at European and international level.

Conditions

- **Biosecurity** is the cornerstone of HPAI control.
- Vaccination, from the moment it is required, must be made **compulsory** except in special cases.
- Vaccination **does not dispense with the elimination of outbreaks**, even when vaccinated.

THE MAIN OBJECTIVES AND TARGETS OF THE VACCINATION STRATEGY

Strategy

- Preventive vaccination

Species

- Ducks (Muskovy/Barbarie, Mulard and Pekin)

Zone

- All of mainland France (excluding Corsica)

Period

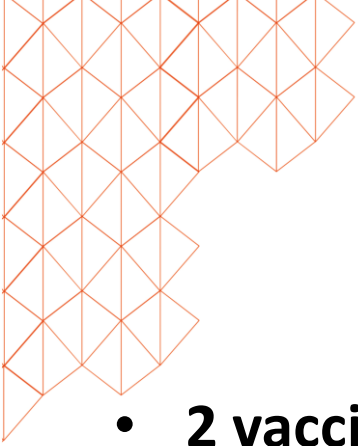
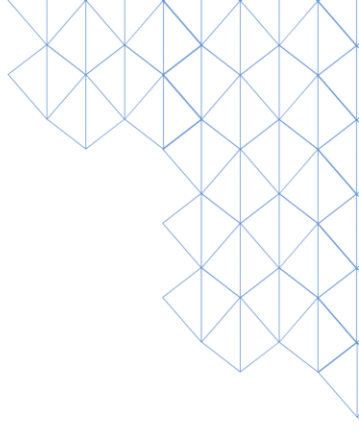
- All year, starting the first of October 2023

VACCINATION WITHIN A REGULATORY FRAMEWORK

Species	Production ducks	Breeding ducks
Ducks	Mandatory vaccination	Vaccination prohibited for breeding ducks whose products (ie hatching eggs and day-old ducklings) are exported to another Member State and third countries.
Gallus	Prohibited vaccination	Prohibited vaccination
Other species	Prohibited vaccination	Prohibited vaccination

REINFORCED POST-VACCINATION SURVEILLANCE

Conditions	Reinforced passive surveillance	Active surveillance
Where?	Epidemiological Unit	Epidemiological Unit
By who?	Breeder or Technician	Official veterinarian
Frequency?	Weekly	Every 30 days: clinical visit + virological analysis
How?	Swabs (tracheal or oropharyngeal swabs) on 5 cadavers	Swabs on 60 vaccinated ducks (tracheal or oropharyngeal swabs)
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)
Laboratory type?	Recognised laboratory	Approved laboratory

- 
- 
- **2 vaccination campaigns achieved**
 - From 1/10/2023 to 30/09/2024
 - From 1/10/2024 to 30/09/2025
 - **New vaccination campaign (2025-2026) under construction**
 - **2 vaccines**
 - VOLVAC BEST
 - CEVA RESPONS

Results of the first campaign 2023/2024

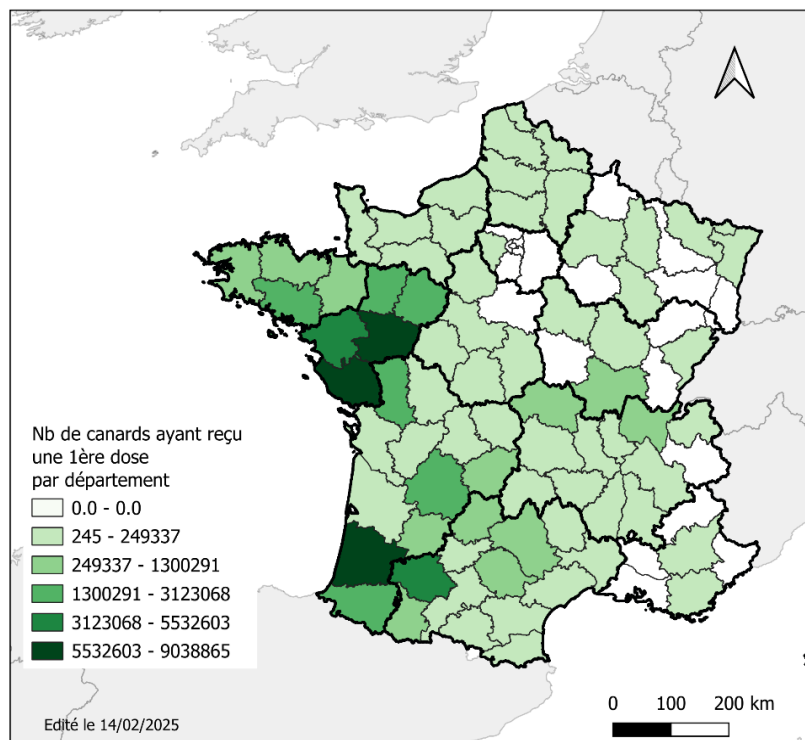
**61,5
millions**

Number of vaccinated
ducks



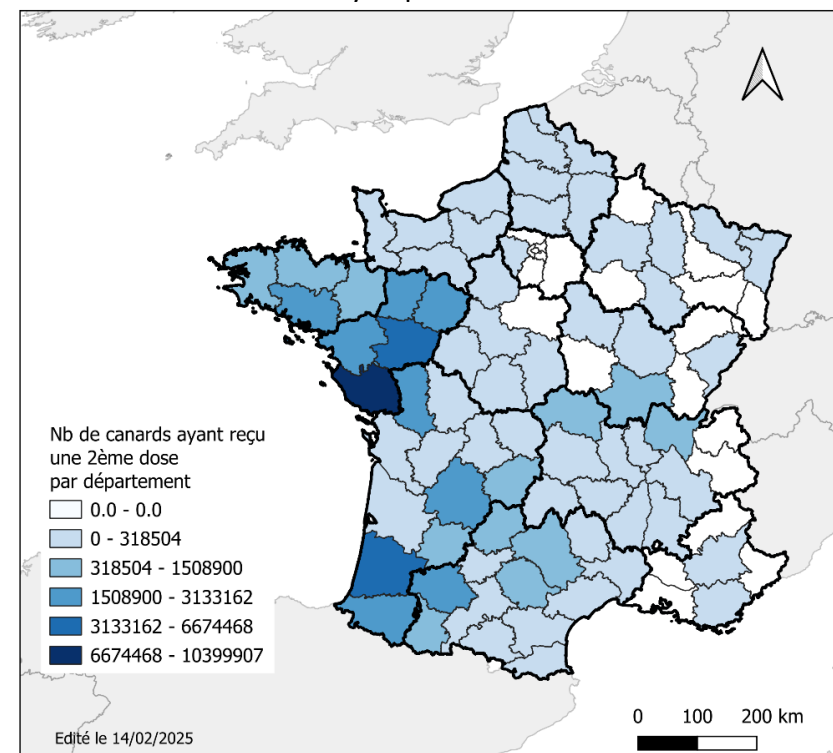
2300

Number of
establishments



Number of ducks that received a first dose of the vaccine by department

Number of ducks that received a second dose of the vaccine by department



Results of the second campaign 2024/2025

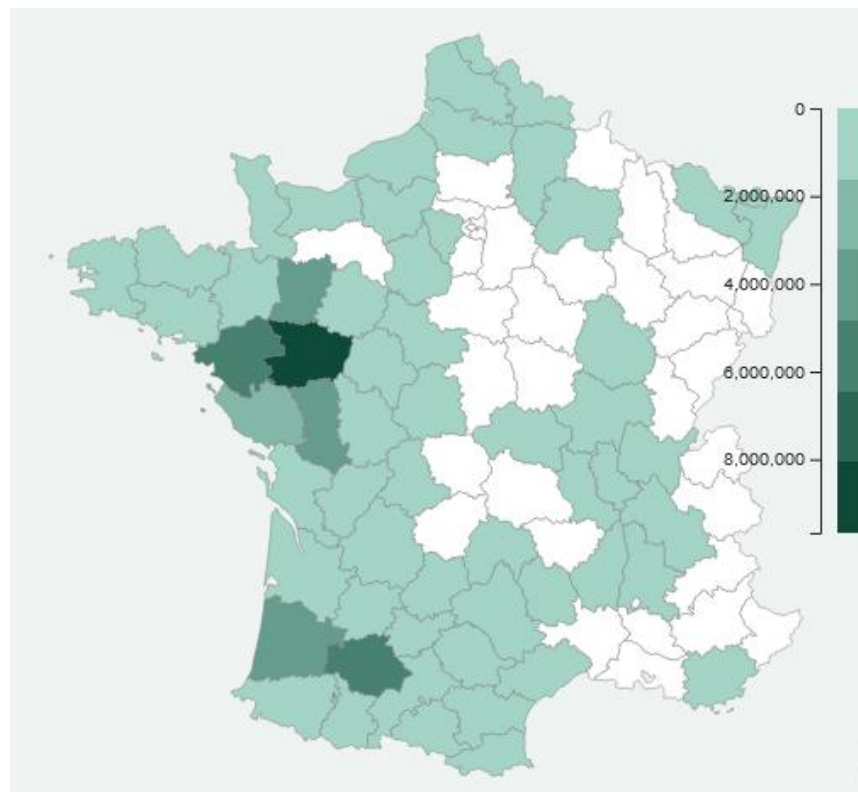
**50
millions**

Number of ducks
1st injection

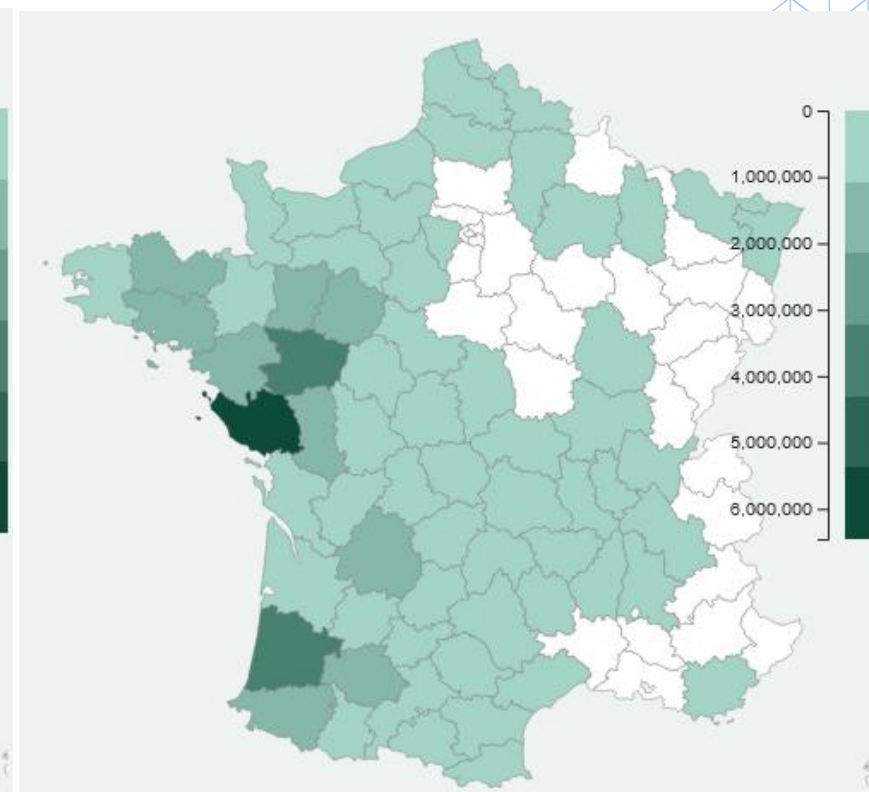


**45
millions**

Number of ducks 2nd
injection



Geographical distribution of the number of ducks vaccinated for the first time

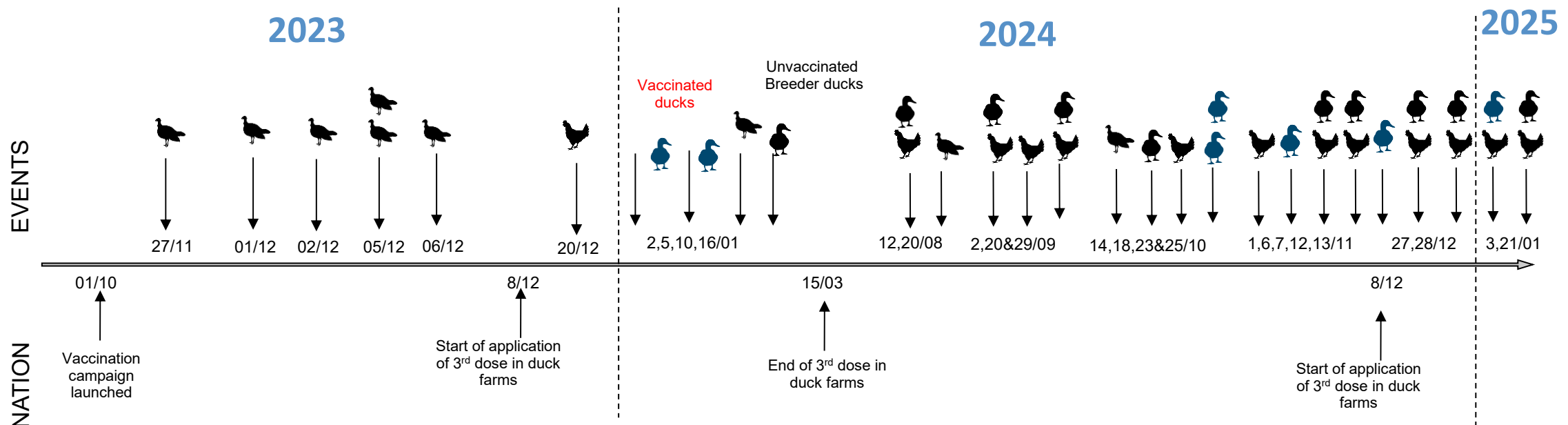


Geographical distribution of the number of ducks receiving a second injection of vaccine

Calypso – 04/07/2025

HPAI H5N1 outbreaks in France: oct 2023 –august 2025

- Positive results for France:
only **11** outbreaks in 2023-2024 and **19** in 2024-2025 in commercial poultry farms



- 2 cases in vaccinated duck flocks in January 2024
- 4 new cases in vaccinated duck flocks in October and in November 2024
- 1 new case in multi-species flock in January 2025



Cost - Benefits

- Were evaluated in 2021
- Cost of one campaign
 - Vaccine purchase, vaccination, surveillance
 - Around 100 millions €

Breakdown of expenditure items for the 2023-2024 vaccination campaign

	Distribution	
	State	Farmers
Vaccination		
Order vaccine doses	X	
Vaccine storage and delivery	X	
Vaccine administration	X	X
Vaccination supervision	X	
Surveillance post-vaccination		
Active surveillance – veterinary visit	X	
Surveillance active - analyses	X	
Surveillance passive – analyses		X

Breakdown of expenditure items for the 2024-2025 vaccination campaign

	Distribution	
	State	Farmers
Vaccination		
Order vaccine doses	X	
Vaccine storage and delivery	X	
Vaccine administration		X
Vaccination supervision	X	
Surveillance post-vaccination		
Active surveillance – veterinary visit	X	
Surveillance active - analyses	X	
Surveillance passive – analyses		X

Breakdown of expenditure items for the 2025-2026 vaccination campaign

State :
Veterinary
actions

	Distribution	
	State	Farmers
Vaccination		
Order vaccine doses		X
Vaccine storage and delivery		X
Vaccine administration		X
Vaccination supervision	X	
Surveillance post-vaccination		
Active surveillance – veterinary visit	X	
Surveillance active - analyses	X	
Surveillance passive – analyses		X



Losts

- Few third countries do not accept vaccination
 - Embargo on genetic products, meat from vaccinated poultry (non heated) or all products

BUT

With hundreds of HPAI outbreaks these markets would be closed

=> Sanitary Diplomacy

Benefits

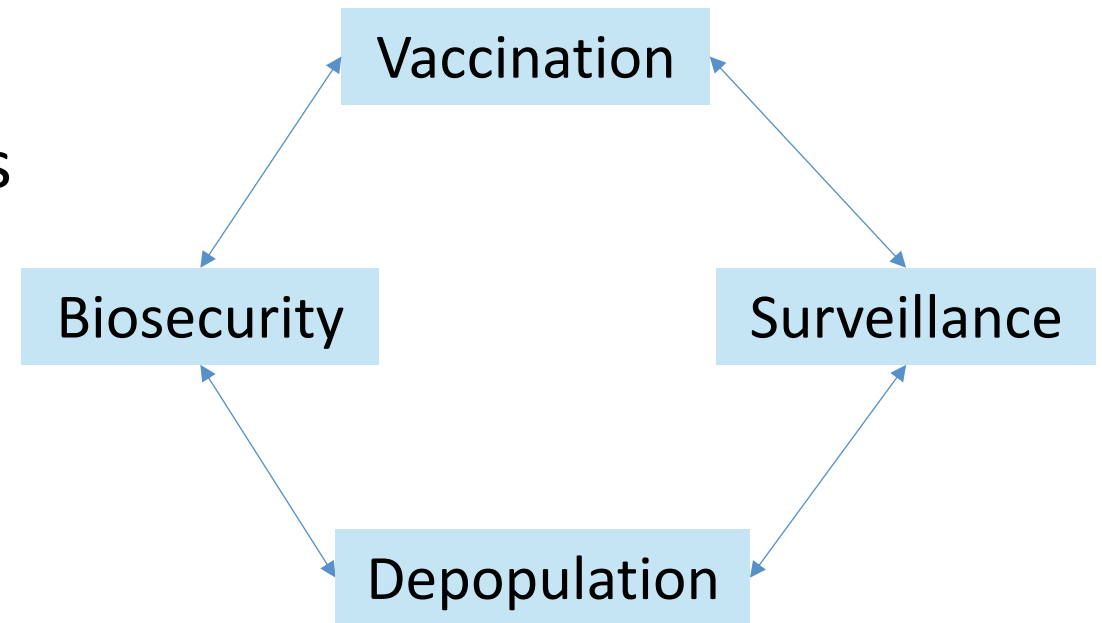
- Less
 - zoonotic risk
 - moral distress of breeders
 - exhaustion of veterinary services
 - mass killings
- Sooner : Free HPAI status in kept birds

HPAI SEASON	FREEDOM FROM HPAI SUSPENSION	DURATION OF SUSPENSION
2020/2021	From 17/11/2020 to 02/09/2021	9.6 months
2021/2022	From 26/11/2021 to 14/08/2023	20.9 months
2022/2023		
2023/2024	From 27/11/2023 to 16/02/2024	2.7 months
2024/2025	From 12/08/2024 to 15/12/2024	4.2 months
	From 27/12/2024 to 04/02/2025	1.3 months

Whereas HPAI was circulating in wildlife

Conclusions

- Preventive vaccination seems to be a success to avoid large epidemics
- Limited numbers of (primary) outbreaks remains
- Vaccination : only one part of the HPAI strategy





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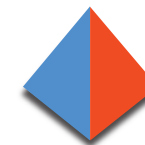
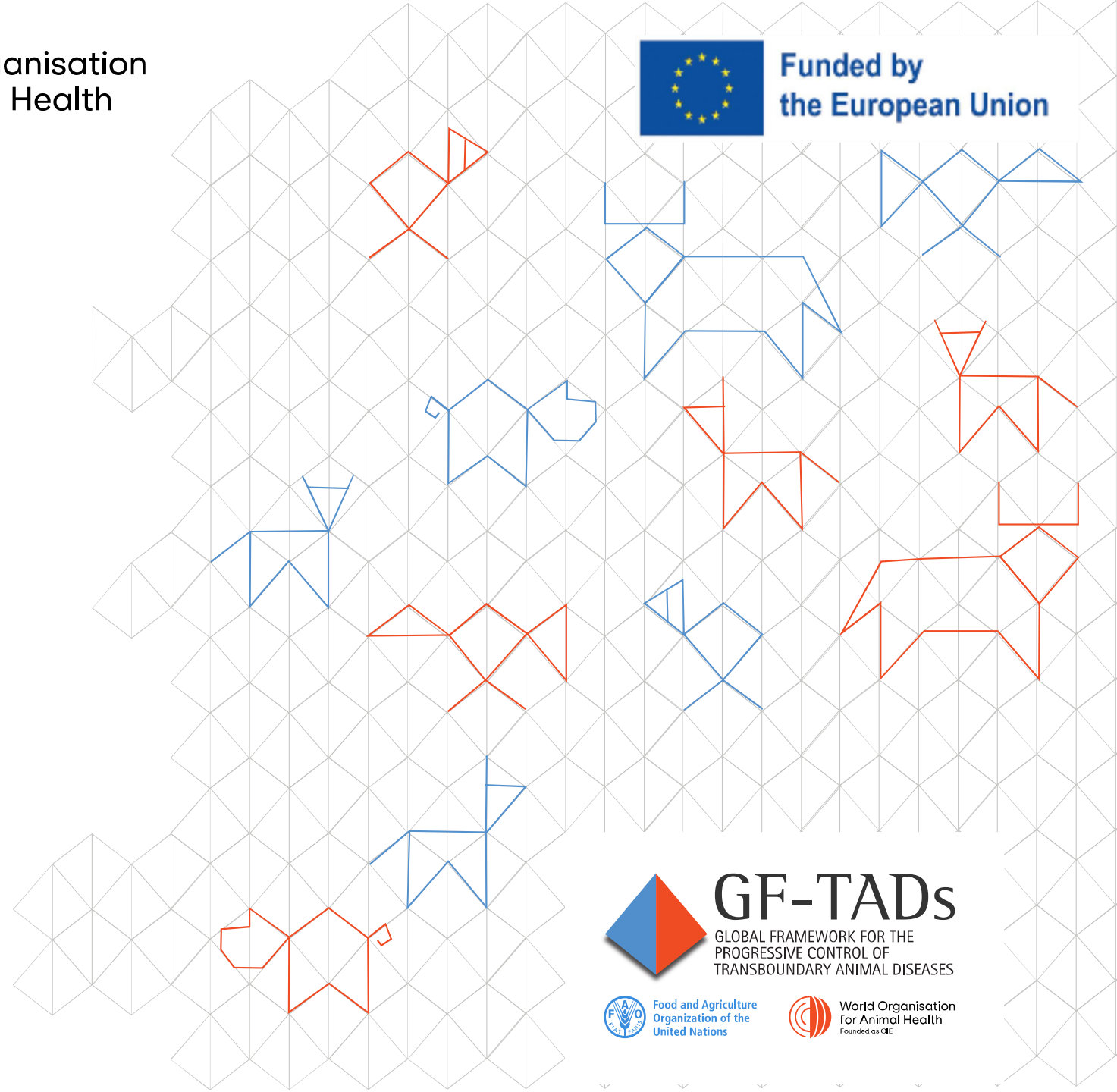


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THANK YOU



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