



**MINISTÈRE  
DE L'AGRICULTURE  
ET DE LA SOUVERAINETÉ  
ALIMENTAIRE**

*Liberté  
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AHW.A.10.(IDC).(FRANCE)

# **VACCINATION STRATEGY AGAINST HIGHLY PATHOGENIC AVIAN INFLUENZA IN FRANCE**

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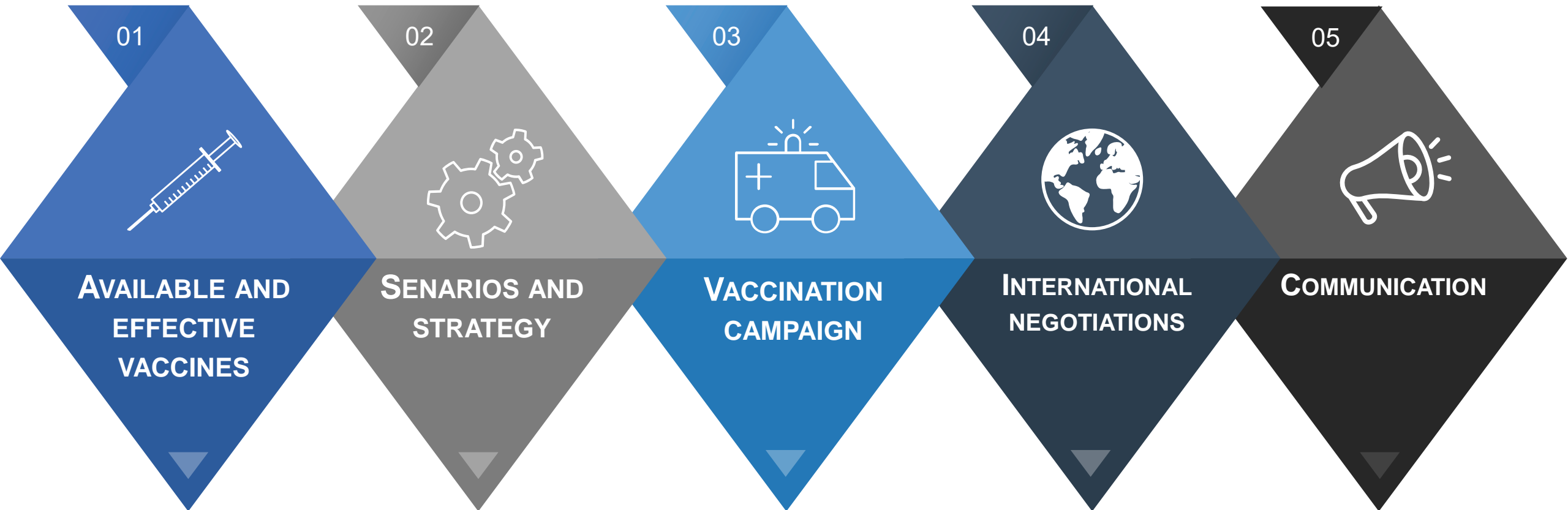
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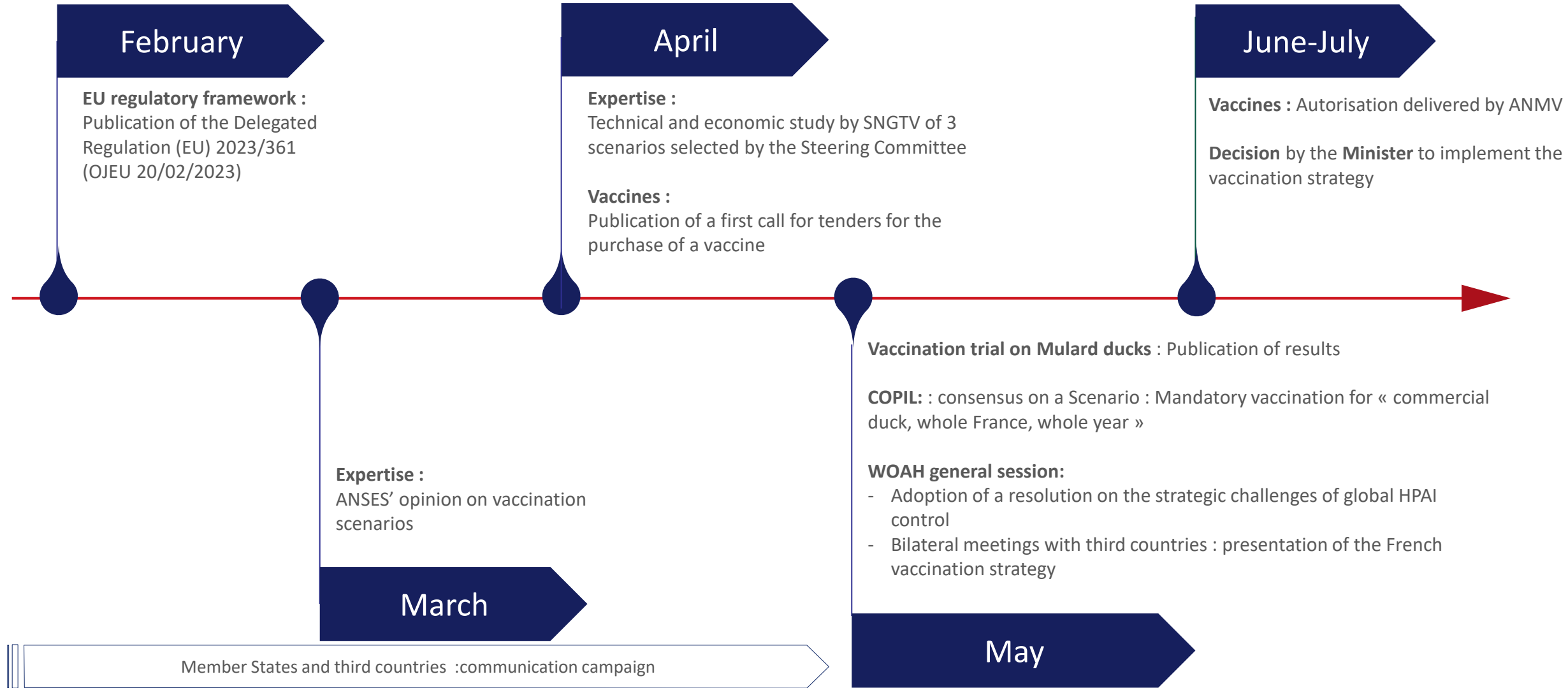
**HPAI VACCINATION ACTION PLAN  
AND  
PROGRESS REPORT**

# ***Objective : Definition of a HPAI vaccination strategy in France***

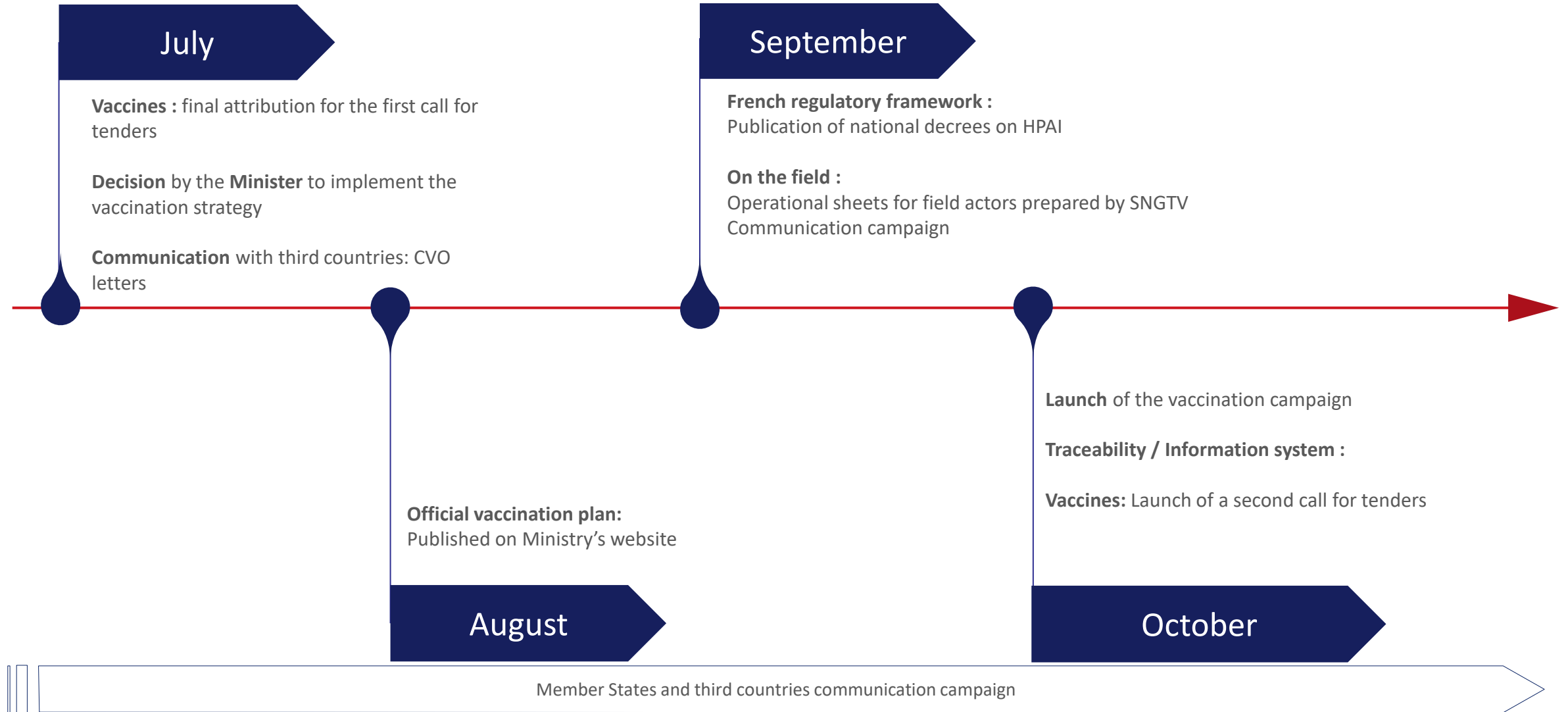
## **5 areas of work**



# TOWARDS A VACCINATION STRATEGY



# TOWARDS THE VACCINATION CAMPAIGN





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**OFFICIEL VACCINATION PLAN**  
**IN ACCORDANCE WITH REGULATION (EU) 2023/361**

# The official vaccination plan

## Table of content

10 sheets in FR and EN versions

1. A brief justification of the vaccination
2. Realization of vaccine trial on Mulard ducks in farm conditions
3. The chosen vaccination strategy and the justification of this choice
4. Presentation of the vaccine that is going to be used
5. Description of the surveillance
6. Biosecurity measures
7. Information system
8. Restrictions on the movement of vaccinated animals and their products
9. Management of outbreaks in a context of vaccination
10. Communication campaign to inform the operators and the public

<https://agriculture.gouv.fr/tout-ce-qui-faut-savoir-sur-le-plan-daction-vaccination-iahp-en-france>

# The main objectives and targets of the vaccination strategy

## Strategy

- Preventive vaccination

## Species

- Ducks (Barbarie, mulard and Pékin)

## Zone

- All of the France mainland (except Corsica)

## Period

- All year, from October 2023




# Vaccination within a regulatory framework

Species	Production flocks	Reproduction flocks
<b>Ducks</b>	Vaccination mandatory	Vaccination prohibited for breeding ducks whose products (hatching eggs and day-old ducklings) are exported to another Member State and third countries.
<b>Gallus</b>	Vaccination prohibited	Vaccination prohibited
<b>Other species</b>	Vaccination prohibited	Vaccination prohibited

# Vaccination campaign map

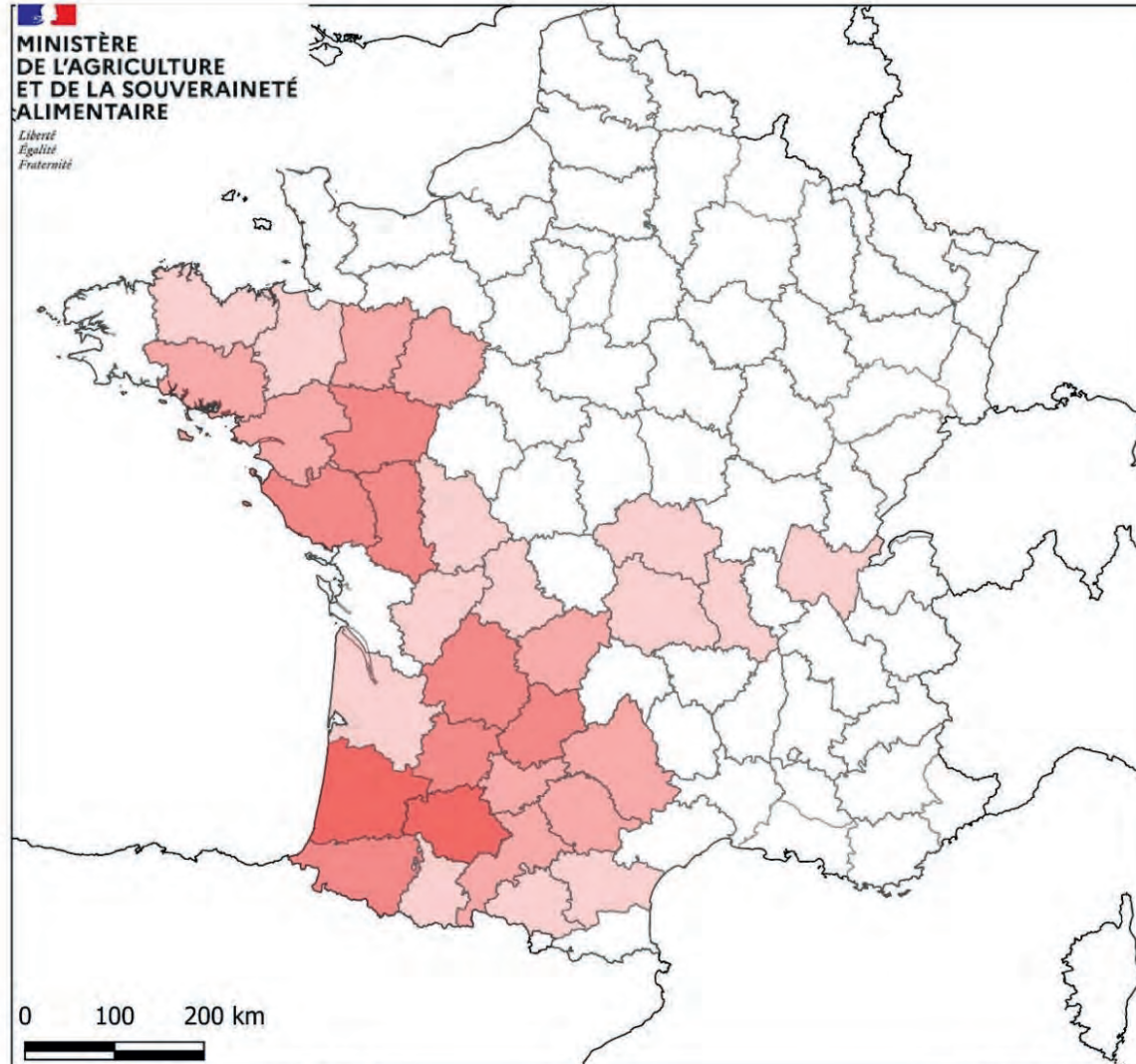
**64  
million**

Number of Ducks 

**2700**

Number of establishments 

Number of active establishments per department



Number of establishments

- 1 - 16
- 16 - 43
- 43 - 114
- 114 - 247
- 247 - 482

# The used vaccine

- **The used vaccine should:**

- Be effective on the HPAI clade 2.3.4.4.b strain
- Have the capacity for a DIVA strategy using the NP ELISA serology
- Have an authorisation for use, issued by the ANMV (The National Veterinary Medicines Agency)

= > <https://www.anses.fr/fr/content/médicaments>

- **First call for a first tender of vaccines: 80 million doses == > Selected vaccine: VOLVAC B.E.S.T of Boehringer Ingelheim**

Vaccine/fabricant	Species	Administration route	Number of primary injections	Vaccine storage	Shelf life	DIVA ELISA NP serology
<b>Volvac BEST AI+ND BOEHRINGER INGELHEIM</b>	Chicken Pékin duck Barbarie duck Mulard duck	SC	Chicken : 1 Barbarie, mulard Ducks: 2 (from day 10) Pékin Ducks: 2 (from day 1)	+5°C	24 months	Yes

- **Launch of a second call for tenders in October: 60 million doses**

# Reinforced post-vaccination surveillance

Conditions	Reinforced passive surveillance	Active surveillance
<b>Where?</b>	Epidemiological Unit	
<b>By who?</b>	Breeder or Technician	Official veterinarian
<b>Frequence?</b>	Weekly	Every 30 days: clinical visit + virological analysis At the end of the batch: serological analysis
<b>How?</b>	Swabs (tracheal or oropharyngeal swabs) on 5 cadavers	Every 30 days: Swabs on 60 animals (tracheal or oropharyngeal swabs) At the end of the batch: blood collection from 20 animals
<b>Analysis?</b>	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) and ELISA NP serology
<b>Laboratoty type?</b>	Recognised laboratory	Approved laboratory

## Data recording system



### CALYPSO

- To collect data on vaccination carried out by the veterinarian or under his supervision: **vaccination and monthly visit.**



### SIGAL

- To collect surveillance data: **laboratory analysis results**



### CARTOGIP

- To combine the movement data declared by the operator and the vaccination data from Calypso and thus ensure the **tracking of the vaccinated animals.**

# Communication

## Target

- Breeders
- Professional trade associations,
- Commercial partners
- Government departments
- The press and the general public

## Broadcast

- National meetings
- Local meetings
- Press releases
- Ministry website

## Tools

- Operational sheets for field workers
- Technical instructions for inspection services
- Export information on EXPADON
- Other communication media (flyer, Q&A)

# French Ministry of Agriculture website

Everything you need to know about the highly pathogenic avian influenza  
vaccination action plan in France

(available in French and English)

Influenza  
aviaire  
hautement  
pathogène



Pour  
en savoir  
plus sur  
la stratégie  
vaccinale



# Cost and funding of the vaccination campaign

## Cost:

- The cost of the campaign is estimated at €93.6m for 12 months.

## Funding:

- The government is funding 85% of the 2023-2024 vaccination campaign.
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**Thank you for your attention**

