



*Ministero della Salute*

# HPAI outbreaks in Italy

PAFF Committee – Animal health and welfare  
16-17 December 2024



# HPAI H5N1 in Italy

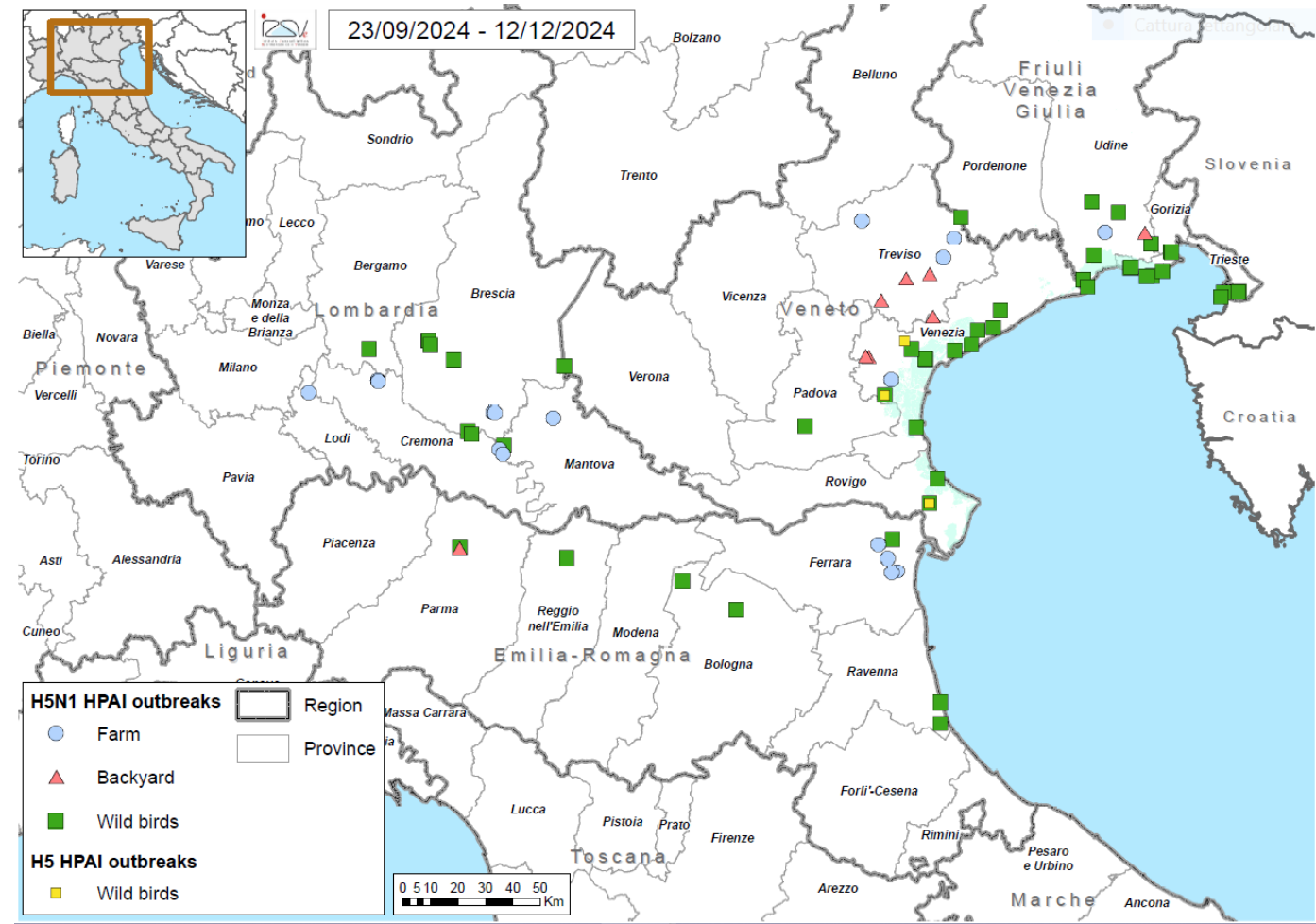
✓ **28** HPAI outbreaks in poultry (13/12/2024)

- **11** Veneto
- **10** Lombardia
- **5** Emilia-Romagna
- **2** Friuli Venezia Giulia

+ 13 since the last PAFF

✓ **56** HPAI positive cases in wild birds (13/12/2024)

- **21** Friuli-Venezia Giulia
- **17** Veneto
- **10** Lombardia
- **8** Emilia Romagna



Regular update on: <https://www.izsvenzie.com/reference-laboratories/avian-influenza-newcastle-disease/italy-update/>  
<https://eurlaidata.izsvenzie.it/>

# HPAI H5N1 in domestic poultry

SIMAN reference	ADIS Reference	Type	Disease type	Region	Province	Municipality	Species	Susceptible
HPAI-2024-16	IT-HPAI(P)-2024-00016	Primary	H5N1	Veneto	Treviso	Breda Di Piave	multispecies farm	35
HPAI-2024-17	IT-HPAI(P)-2024-00017	Primary	H5N1	Veneto	Venezia	Mirano	multispecies farm	34
HPAI-2024-18	IT-HPAI(P)-2024-00018	Primary	H5N1	Lombardia	Mantua	Canneto sull' Oglio	broiler	35.901
HPAI-2024-19	IT-HPAI(P)-2024-00019	Primary	H5N1	Veneto	Venezia	Pianiga	backyard farm	13
HPAI-2024-20	IT-HPAI(P)-2024-00020	Primary	H5N1	Friuli-Venezia Giulia	Udine	Villa Vicentina	multispecies farm	39
HPAI-2024-21	IT-HPAI(P)-2024-00021	Primary	H5N1	Lombardia	Lodi	Zelo Buon Persico	pheasants	5.471
HPAI-2024-22	IT-HPAI(P)-2024-00022	Primary	H5N1	Veneto	Treviso	Ormelle	fattening turkeys	7.651
HPAI-2024-23	IT-HPAI(P)-2024-00023	Primary	H5N1	Emilia-Romagna	Parma	Fontanellato	backyard farm	50
HPAI-2024-24	IT-HPAI(P)-2024-00024	Primary	H5N1	Veneto	Treviso	Fontanelle	fattening turkeys	21.188
HPAI-2024-25	IT-HPAI(P)-2024-00025	Primary	H5N1	Lombardia	Mantua	Guidizzolo	fattening turkeys	23.937
HPAI-2024-26	IT-HPAI(P)-2024-00026	Primary	H5N1	Veneto	Treviso	Roncade	multispecies farm	27
HPAI-2024-27	IT-HPAI(P)-2024-00027	Primary	H5N1	Lombardia	Mantua	Ceresara	duck	20.090
HPAI-2024-28	IT-HPAI(P)-2024-00028	Primary	H5N1	Lombardia	Mantua	Goito	fattening turkeys	30.000



## Positive cases in wild birds

SPECIES	TARGET GROUP				Total
	Alive with clinical signs (including injured)	Found dead	Hunted	Trapped without clinical signs	
Black-headed Gull		1			1
Common Teal			9	11	20
Eurasian Collared-Dove		2			2
Eurasian wigeon		6	17		23
European Robin		1			1
Gadwall			1		1
Great Cormorant	1				1
Grey Heron		1			1
Greylag Goose		5			5
Little Owl		1			1
Mallard duck	1	2	12		15
Mute Swan		11			11
Northern Shoveler			1		1
Peregrin Falcon	1				1
Western Marsh Harrier		1			1
Yellow-legged Gull	2	1			3
<b>Total</b>	<b>5</b>	<b>32</b>	<b>40</b>	<b>11</b>	<b>88</b>



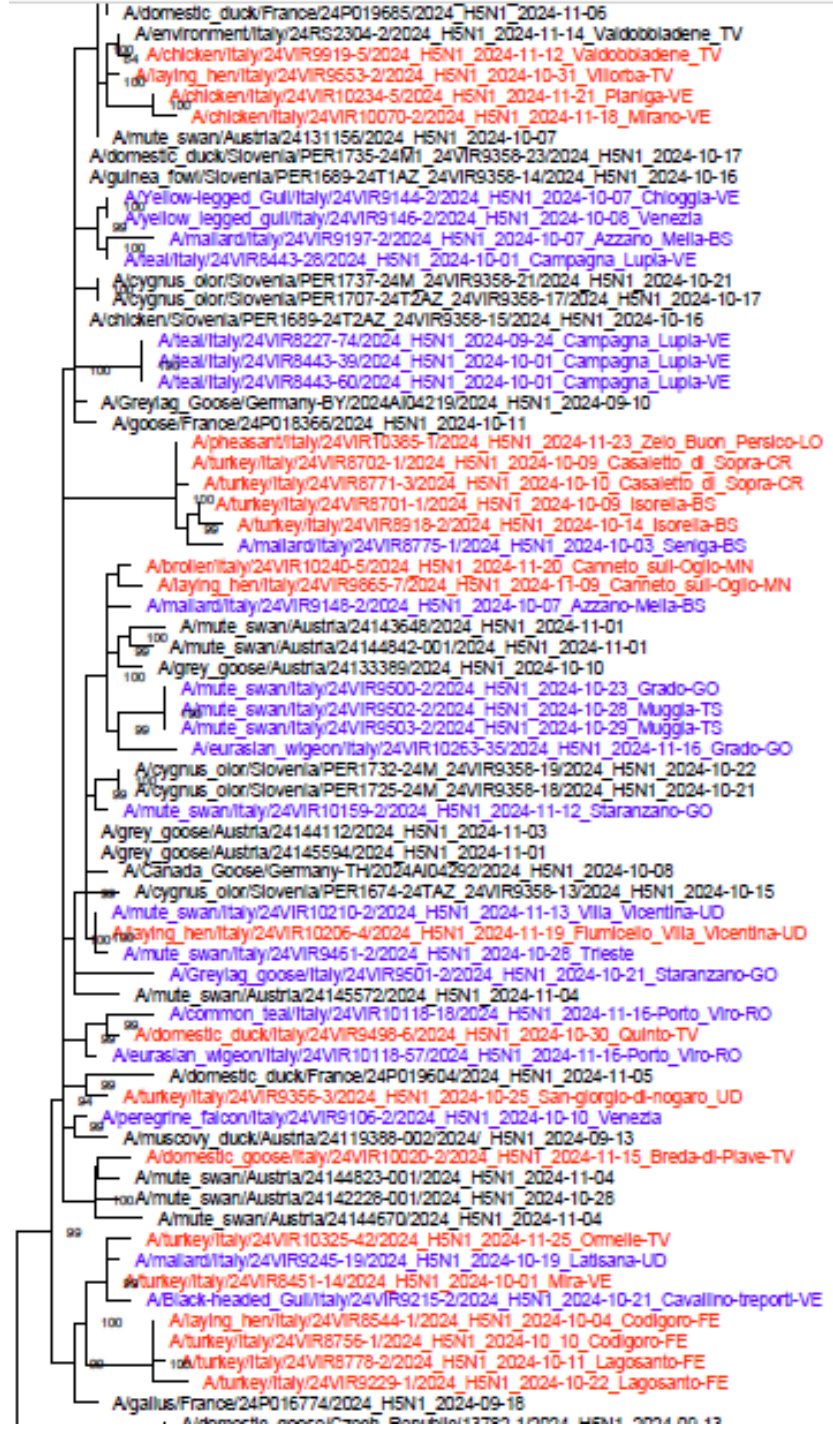


## GENETIC CHARACTERISATION OF THE VIRUSES IDENTIFIED IN THE HPAI OUTBREAKS

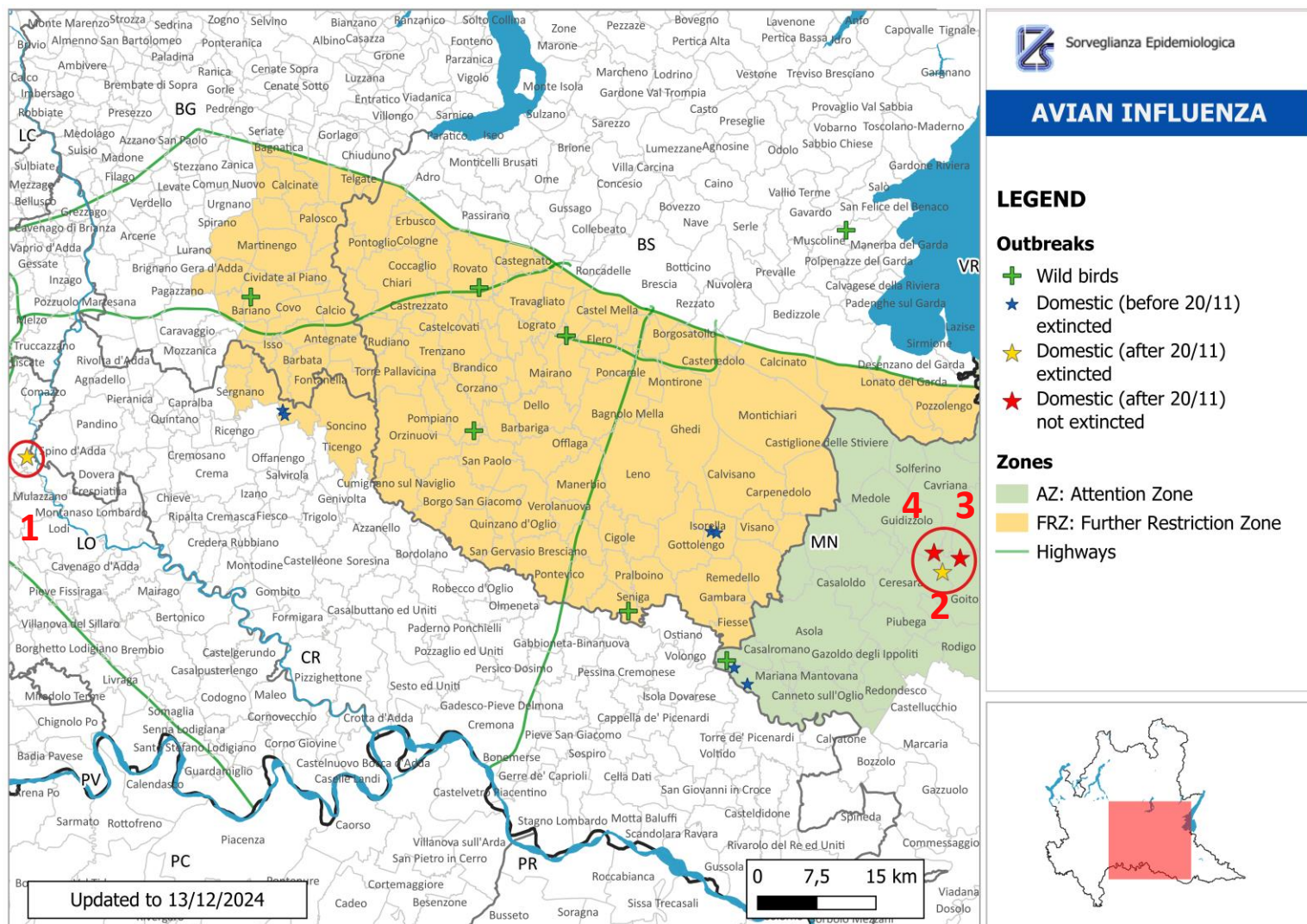
The high similarity of the viruses found in poultry (in **red**) to those identified in wild birds (in **blue**) suggests multiple primary introductions and limited secondary spread.

In some strains, markers of mammalian adaptation have been identified in the PB2 protein.

TV  
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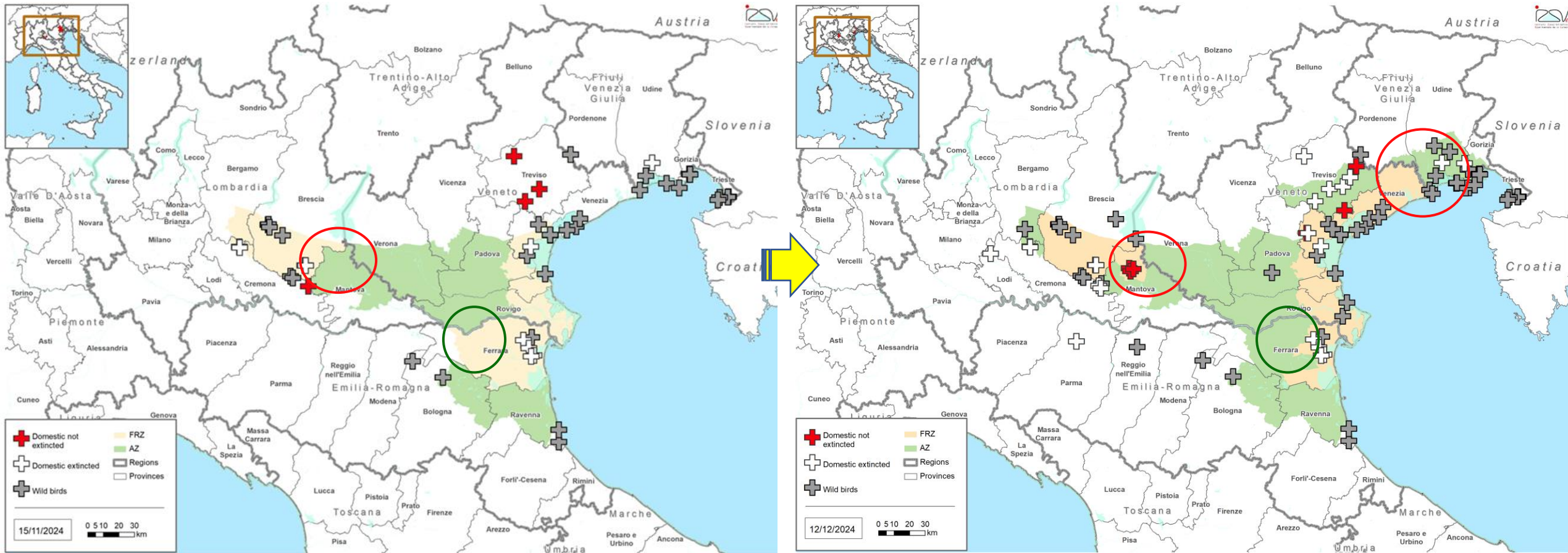


# Evolution of epidemiological situation in Lombardia



- Since the end of November, 4 outbreaks have been identified, 2 are already extinct
  1. game farm (pheasants, gray partridges, mallards, etc.) extinct
  2. Meat Turkeys: extinct
  3. Ducks
  4. Meat Turkeys
- All outbreaks occurred in wetlands with the presence of watercourses, even within the farm, and wild birds
- Outbreaks 2,3,4 are approximately 2 km away from each other and the genetic characterization shows the high similarity to viruses found in wild birds;
- all tracing has already been carried out and at the moment there is no evidence of secondary outbreaks

# Further Restricted Zone Update



New provision updating the FRZ (and attention zone) on the basis of epidemiological developments and HPAI risk level of different areas was signed on 13 December 2024 and will be in place until 31/01/2025

Thank you

