

# Highly pathogenic Avian Influenza in Italy: epidemiological update

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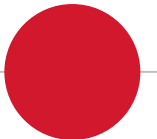
*National Reference Center/EURL/OIE Laboratory for Avian Influenza and Newcastle Disease*

*Italian Ministry of Health, Directorate General for animal health and veterinary medicinal products - Unit 1*

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**SCoPAFF AHW**

10 February 2022





# HPAI H5N1 in Italy



Ministero della Salute

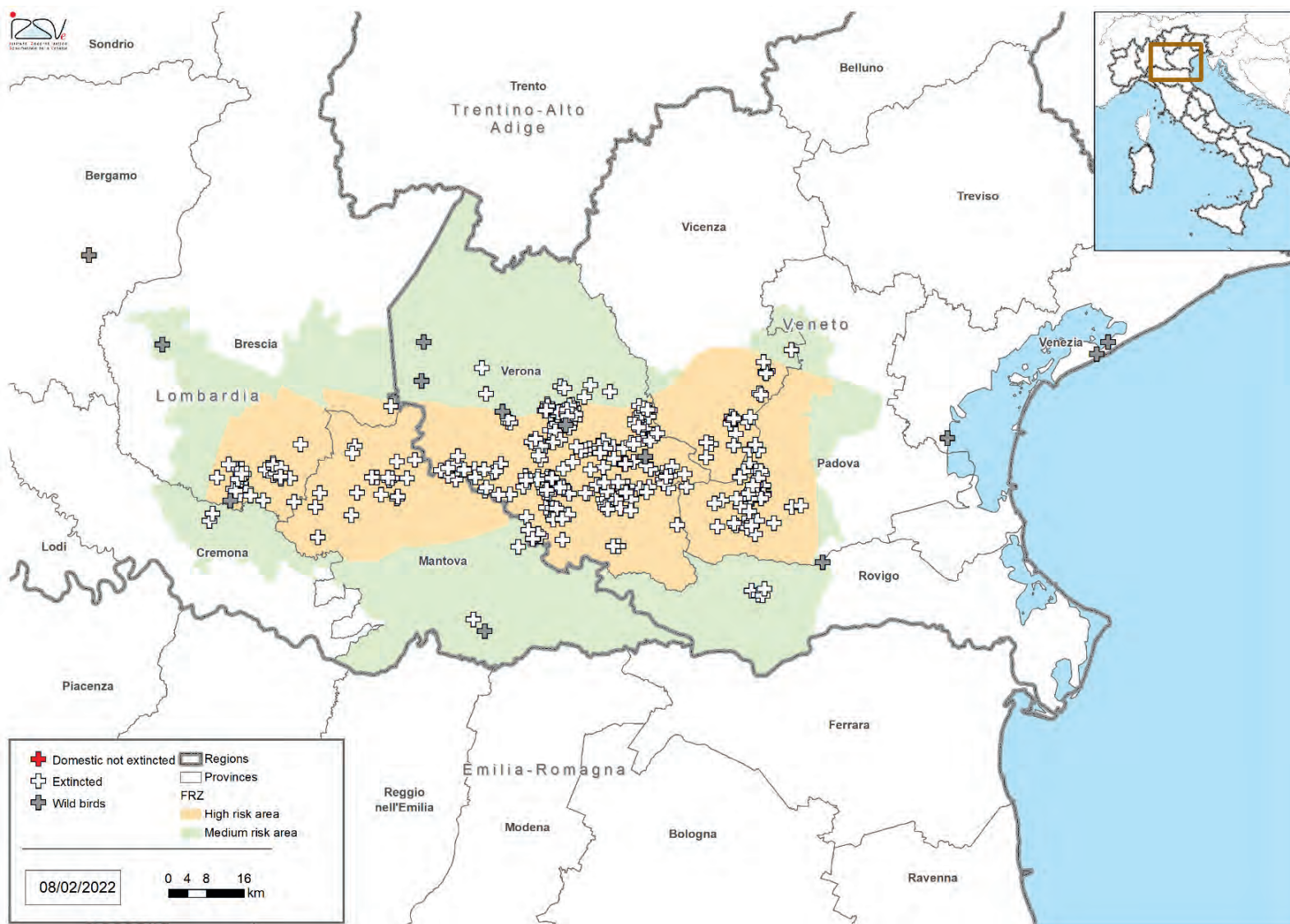
*last update 08/02/2022*

## Wild birds outbreaks

- 9 in Veneto
- 4 in Lombardy
- 1 in Friuli-Venezia Giulia
- 1 in Lazio
- 1 in Apulia
- 1 in Emilia-Romagna

## Domestic poultry/captive outbreaks

- 248 in Veneto
- 56 in Lombardy
- 1 in Lazio
- 1 in Friuli-Venezia Giulia
- 1 in Emilia-Romagna
- 1 in Campania
- 1 in Tuscany



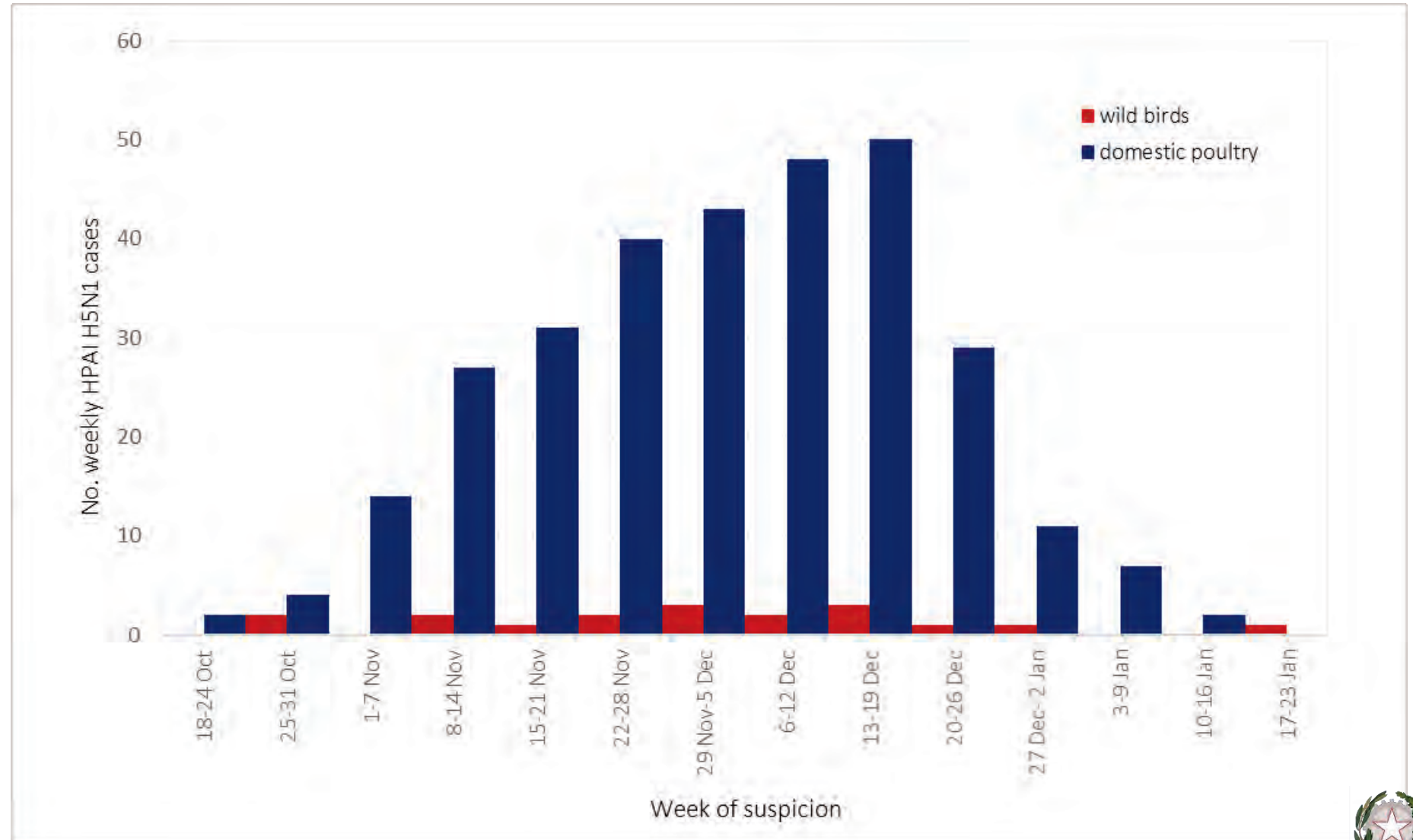
Istituto Zooprofilattico Sperimentale delle Venezie

# Weekly incidence of HPAI H5N1 cases

Since mid December we observed a turning point in the rapidly expanding epidemic

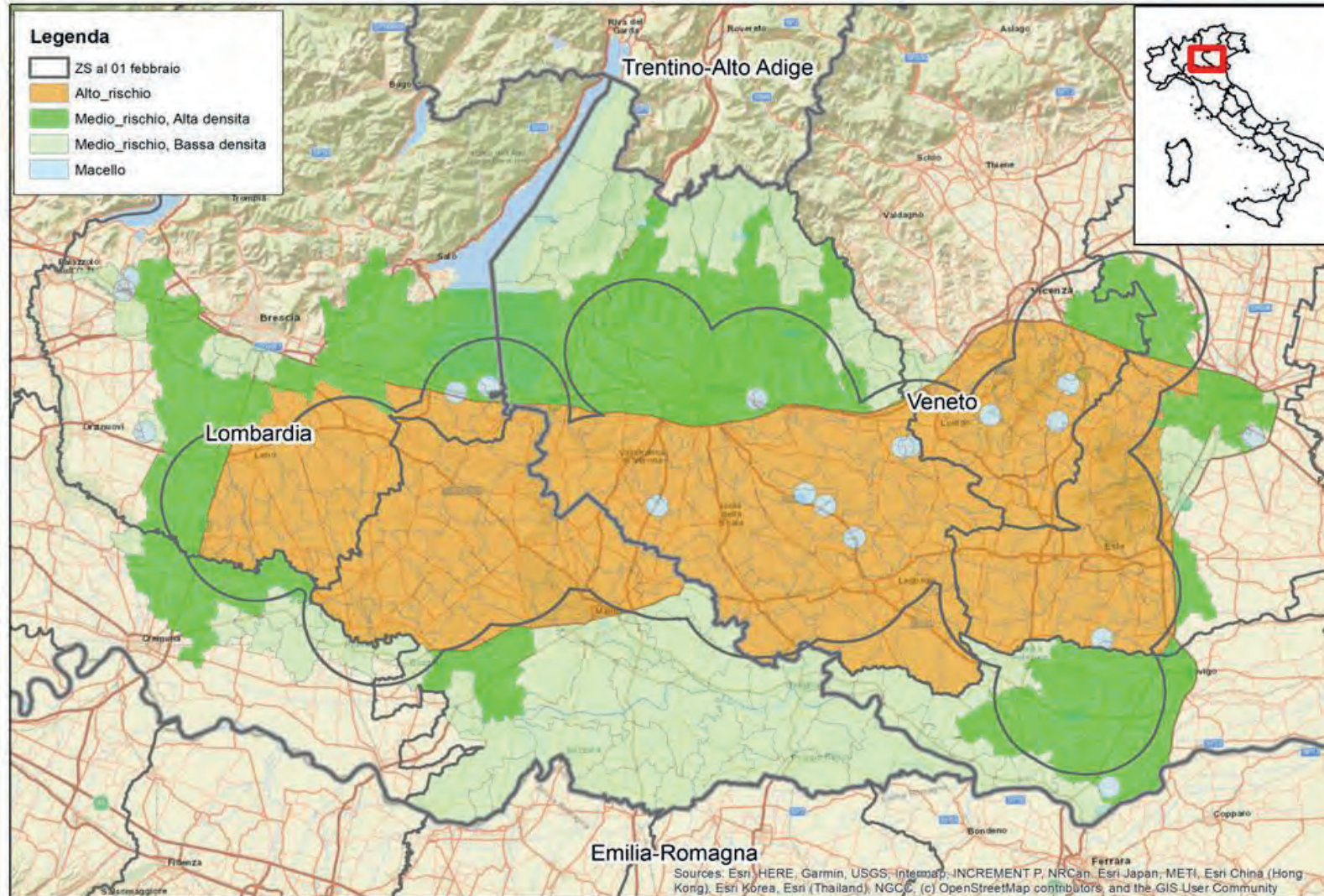
Last outbreaks in commercial poultry sector in the first week of January

2 outbreaks in rural poultry sector and 1 in wild birds in the third week of January








# Control measures – Establishment of a new Further Restricted Zone (FRZ) from 02 February 2022

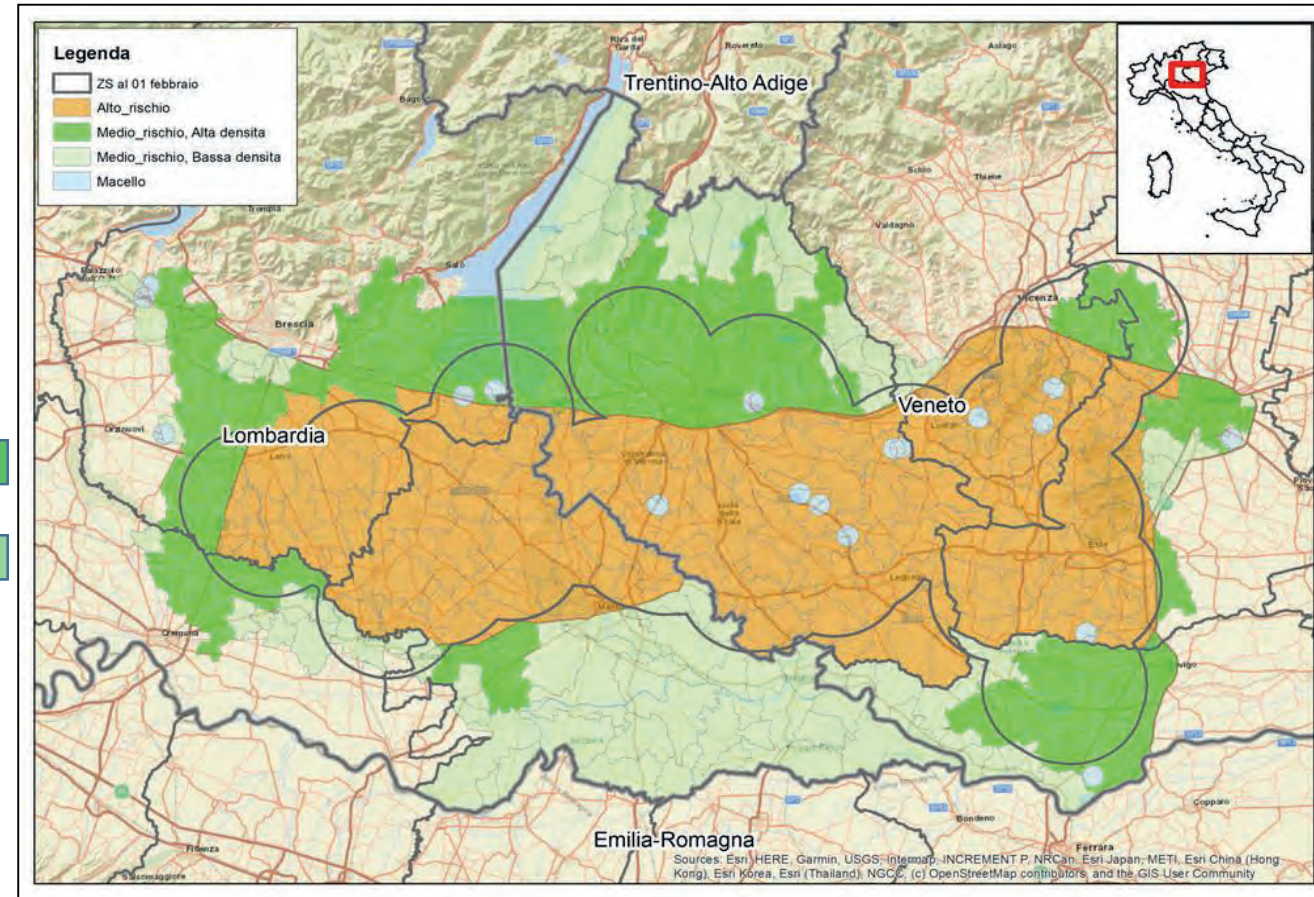




# ● Control measures – Establishment of a new Further Restricted Zone (FRZ)

2 different zones based on the poultry farms density and the evolving epidemiological situation:

- High risk area 
- Medium risk area high density 
- Medium risk area low density 



# Restocking in **high risk zone (orange)** starting from 08/02/2022

## General criteria

### Restocking is Prohibited in High risk zone

- Derogation

- *Restocking could be authorized by the Central authority on the basis of a favorable evaluation by the NRC for IA (specific criteria should be met)*
- *In protection and surveillance areas restocking is always prohibited*
- *Favorable Biosecurity check in the holding*

# Restocking derogation in **high risk zone**

- Specific criteria

Broilers, turkeys and pullets with >250 animals

- ✓ Minimum distance to similar poultry premises 1100 m
- ✓ Minimum distance to poultry , laying hens , pullets premises with >50.000 animals
- ✓ Minimum distance to turkeys, premises with >20.000 animals
- ✓ Poultry slaughters

1500 m

# Restocking derogation in **high risk zone**

In case of the criteria of distance of 1100 m could not be met an *Homogeneous Areas* could be set up

## *Criteria*

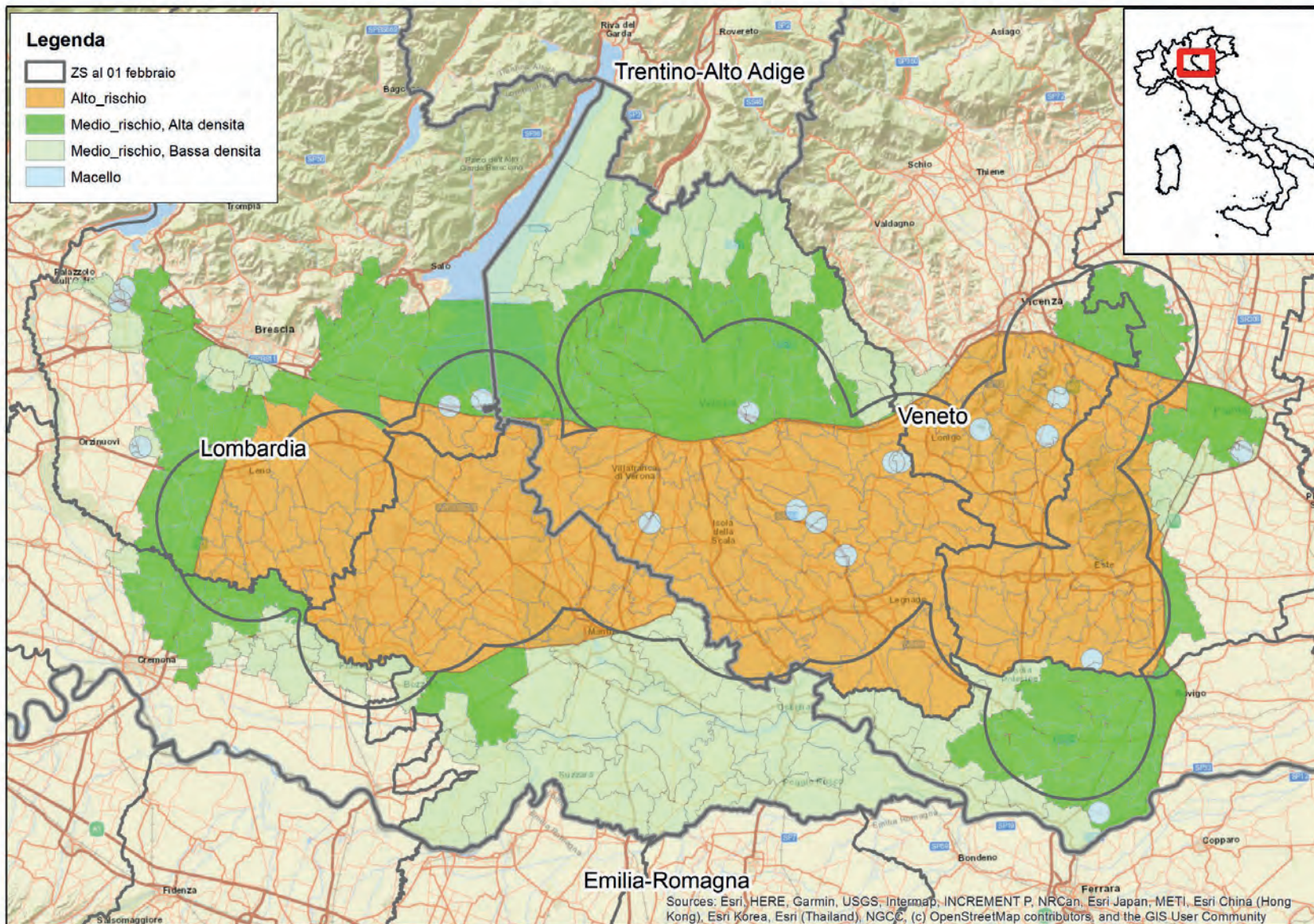
- ✓ Same breed (broilers or fattering turkeys)
- ✓ Minimum distance between two homogeneous areas : at least 1100 m
- ✓ Maximum number of animals to re-stock in the Homogeneous area
  - ✓ Broiler: 1.000.000 in total
  - ✓ turkeys: 200.000 in total

## Banned

- Restocking of mixed sexes of turkeys, in the same premise
- Restocking that can generate fractional or thinning loads



# Restocking in the medium risk zone ( green area)



# Restocking in **medium risk zone**

## General criteria

### Prohibited:

- flocks of turkeys with mixed sexes
- Broilers thinning, except for the purpose of emptying the farm within 14 days

# ● Restocking derogation in **medium risk zone**

## General rule

- ✓ Favorable Biosecurity check in the holding

### Medium risk zone and low density (light green)

- No restrictions
  - ✓ Transmission of scheduled restocking programme to local veterinary services and Region (in copy)

### Medium risk zone and high density (dark green)

- Broiler and turkeys restocking programming **authorized by regional authority** in the following criteria are met:
  - ✓ 1100 m minimum distance between turkeys and broilers premises;
  - ✓ 1500 metri minimum distance from poultry slaughters or laying hens premises with > 50.000 animals of capacity

# Monitoring in the FRZ

- Fattening turkeys
- Broilers
- Chickens
- Laying hens
- The number of farms to control, for each Province is established to ensure 3% AI prevalence between premises (CL 95%)

Premises to be restock	Farms under control (for each Province)
≤ 50	all
51 - 65	51
66 - 80	57
81 - 100	63
101 - 140	70
141 - 200	78
201 - 250	81
251 - 344	85
345 - 584	90
≥ 585	100



# ● Monitoring in the FRZ

- In each selected farm:
  - ✓ 5 carcasses/warehouse with a maximum of carcasses
  - ✓ As alternative, heads/necks or tracheal swabs from carcasses
  - ✓ Death of the day or, if absent, of the previous days, mainly in the warehouse with high mortality)
- Frequency:
  - Every 7 days in the high risk zone premises
  - Every 15 gg days in the medium risk zone premises
- Minimum age for sampling :
  - 28 days → Broiler, chickens and laying hens
  - 50 days → Turkeys

**Thanks for your attention**