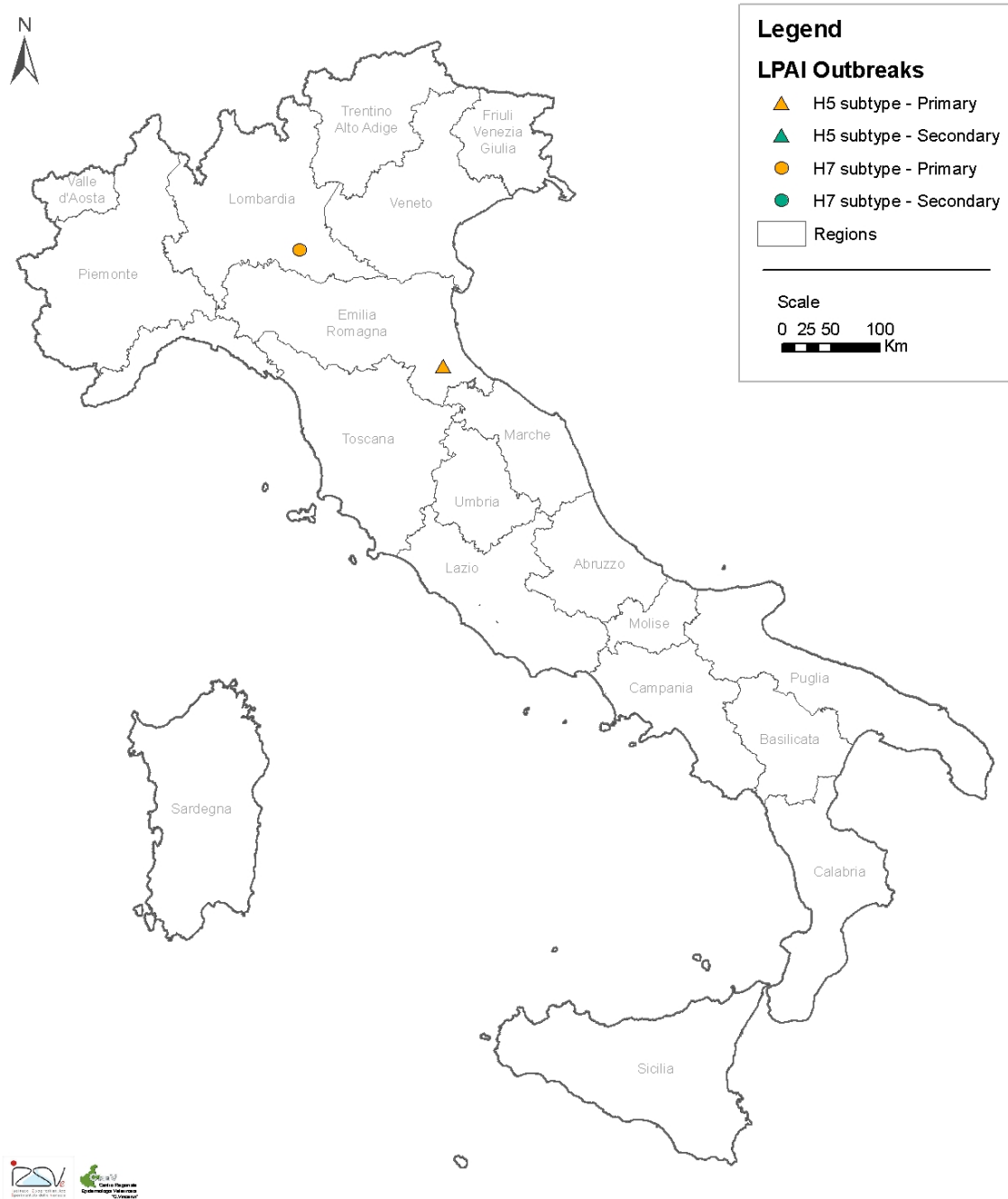




Low Pathogenicity Avian Influenza in Italy: epidemiological situation

(01 December 2010)

Low Pathogenicity Avian Influenza -Italy-



Low Pathogenicity Avian Influenza -Italy-

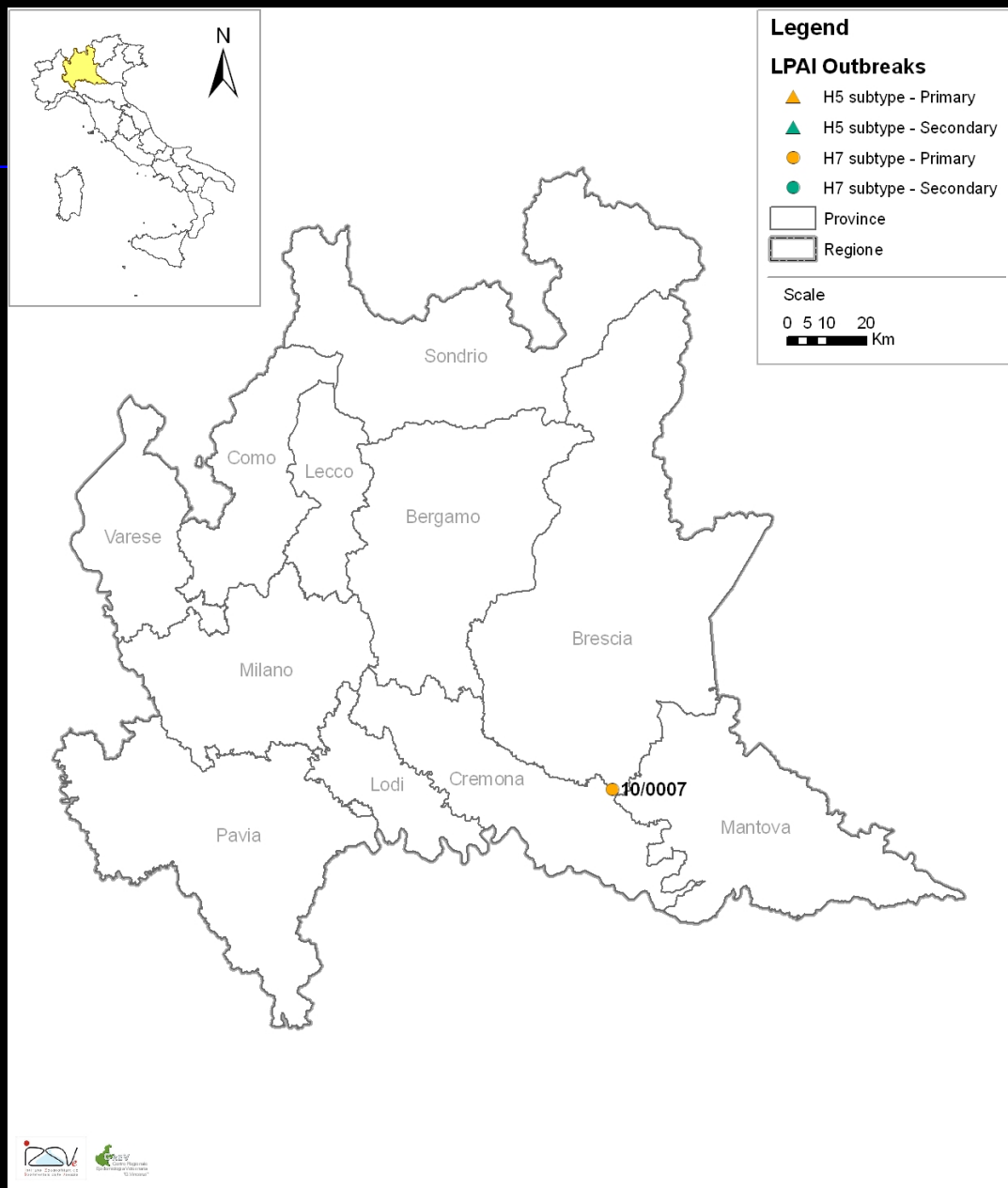
H7N3 Epidemics in 2007/2009 imposed **new regulatory sanitary measures** for the rural/commercial poultry sector (in particular dealers).

In the frame of these monitoring activities, samples collected in a **grower holding** in **Lombardy** region tested positive



LPAI outbreak in Volongo (CR)

Lombardy Region

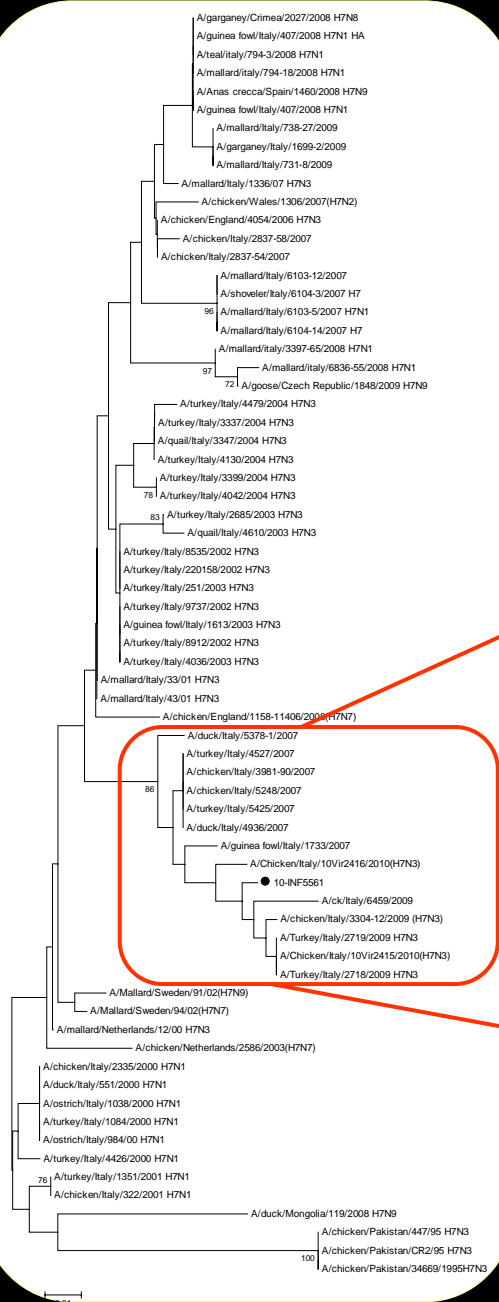


LPAI outbreak in Volongo (CR)

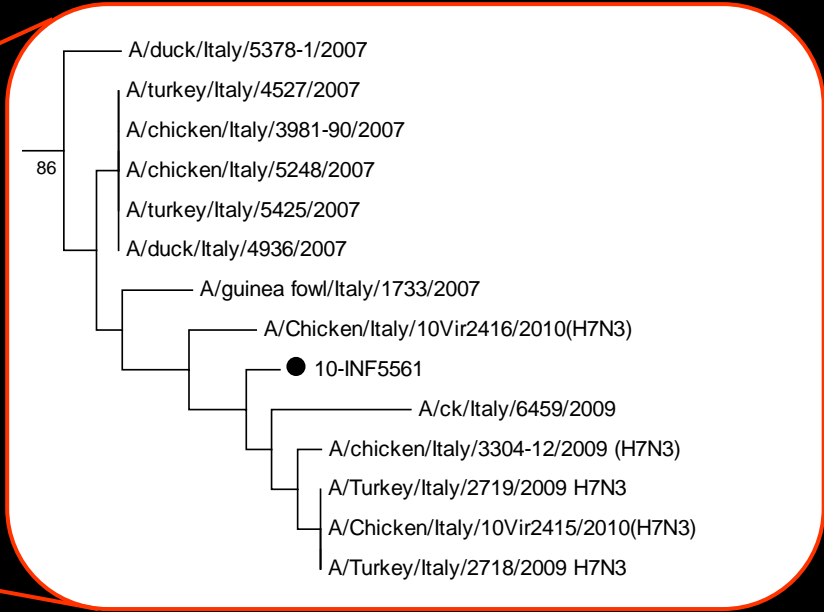
30 September 2010

The AI National Reference Laboratory confirmed by RT-PCR the positivity of a Type A, sub-type H7 LPAI virus (deduced aminoacid sequence at the *cleavage site* of the haemagglutinin –...PEPPKGRGFLF...) in a pool of tracheal swabs.

Preliminary results of sequence analysis of a portion of HA gene revealed a high homology with H7N3 LPAI Italian Strains isolated from 2007 to 2009



Sequence analysis of a portion of HA gene



Birds present in farm

At time of sampling the farm had **1040 birds** of different species and production types:

- ✓ Pullet (246)
- ✓ Guinea Fowl (231)
- ✓ Chicken (214)
- ✓ Duck (156)
- ✓ Laying hen (60)
- ✓ Turkey (60)
- ✓ Capon (53)
- ✓ Goose (20)

All birds present in the farm were culled on 1st October. Cleansing and disinfection procedures started on the same day

Epidemiological inquiry revealed connection, due to trade in live animals, with other premises in:

Lombardy
Veneto
Emilia Romagna

Tests performed gave negative results

Eradication measures implemented in Lombardy Region

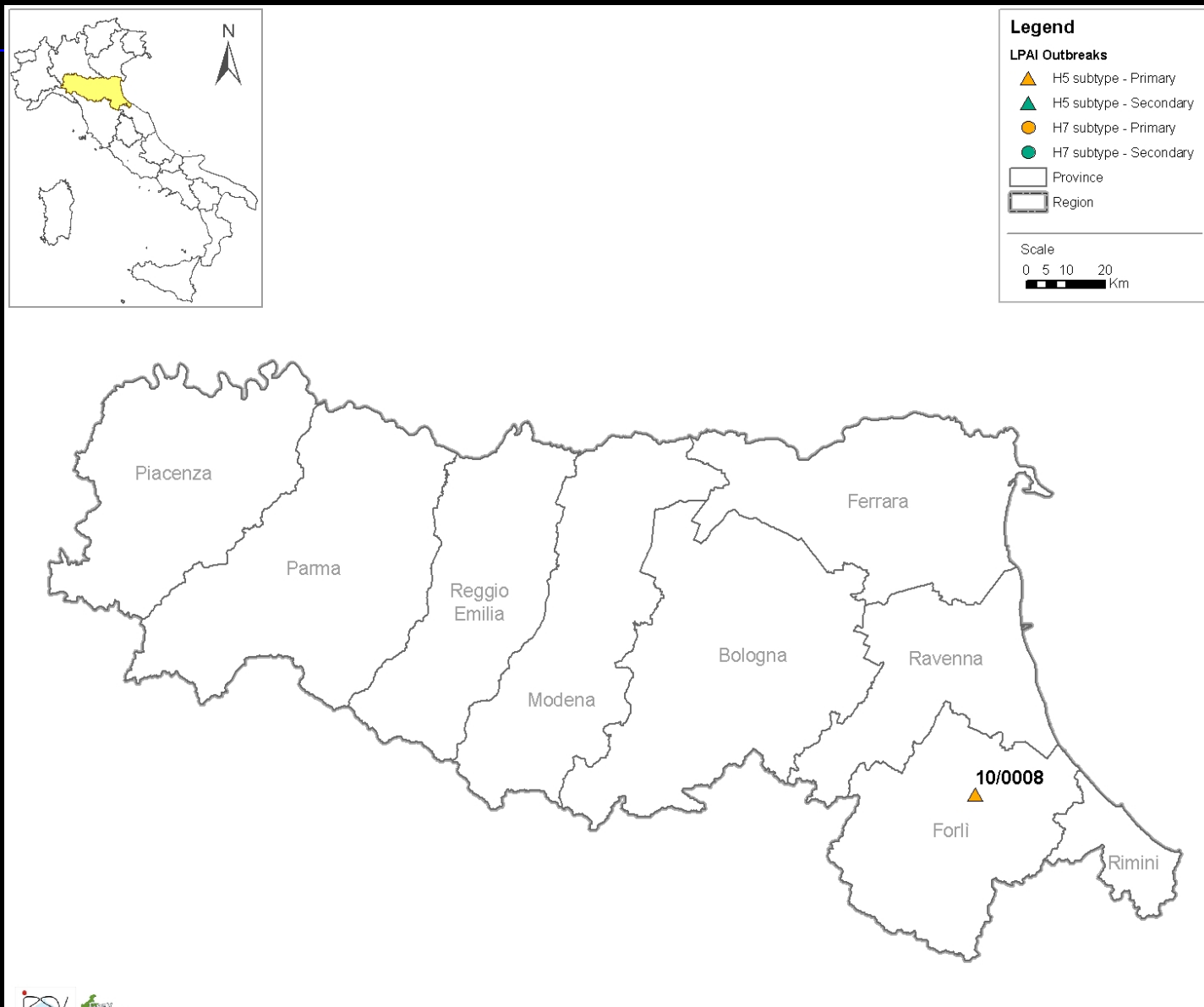
❖ Restriction Zone 1 km:

- **Laboratory tests** on commercial poultry holdings
- **Birds' movement restrictions**
- **Prohibition of fairs, markets, shows or other gatherings of birds**

❖ In the whole territory of Lombardy region:

- **Serological and virological tests in commercial holdings of the whole region**
- **Prohibition** of birds' **movements** from these farms until negative laboratory results was obtained

LPAI outbreak in Gatteo (FC) Emilia Romagna



SCoFCAH Bruxelles 01 December 2010

LPAI outbreak in Gatteo municipality (FC)

18 November 2010

The AI National Reference Laboratory confirmed by RT-PCR the positivity of a Type A, sub-type H5 LPAI virus (deduced aminoacid sequence at the *cleavage site* of the haemagglutinin – ...**QRETRGLF*GAIA**...) in a pool of tracheal swabs collected in a hobby farm.

Birds present in the farm

At time of sampling, the farm had 3.527* birds:

stork	5	pheasant	18
peacock	14	crane	2
nandù	8	duck	388
owl	5	turkey	20
crow	2	Quail	22
goose	21	chicken breeders	188
passeriformes	2800	swan	34

*On 19-20 november 713 birds were culled

2.814 birds of endangered species --> derogation art.40 2005/94/CEE

Preliminary investigations revealed the participation at hobby birds exhibitions in Friuli Venezia Giulia and Veneto regions.

Further investigations are ongoing



Eradication measures

as specified by EU Directive 94/2005/CE

- All birds in the affected holding were depopulated*
- Cleaning and disinfection procedures
- Restriction zone 1km
 - **Laboratory tests** were carried out on backyard flocks (any industrial holding was present)
 - **Bird movement restrictions**
 - **Prohibition of fairs, markets, shows or other gatherings of birds**



Eradication measures

*Derogation provided for in Art. 40

- Granted for **birds of endangered** species reared in the farm in Gatteo
- These birds will be:
 - i) subjected to **further surveillance** and **testing** in accordance with **the diagnostic manual**;
 - ii) **not moved** until the laboratory tests indicate that they **no longer pose a significant risk of further spread of LPAI**



Direzione Generale
della Sanità Animale e del Farmaco Veterinario



Ministero della Salute

UFF III

**Centro Nazionale di lotta ed Emergenza
contro le malattie animali**

**Low pathogenic Avian Influenza H7 in Italy:
control and preventive measures in rural farms**



All holdings are subject to:
Biosecurity measures and
Identification and Registration protocol.

Level of this measures
is proportional to the
risk



EXTRA
REGIONAL
TRADE DEALERS¹

REGIONAL
TRADE
AND EXTRA
REGIONAL
FAIRS AND
MARKETS
TRADE
DEALERS

LOCAL
SELLING DEALERS

Accreditation

Structural Biosecurity measures

- walls and concrete flooring washable
- feeding areas indoors

- point of cleanliness and sanitation of the vehicles
- filter zone: both for operators and for any visitors

¹Quails and *Anatidae*: reared separated

Managerial Biosecurity measures

- Traceability of animal movements (¹computerized register)
- Training course for operators

¹ Prohibition of re-introduction of birds from fair and markets

Biosecurity measures
Traceability and movement registrations

ALL HOLDINGS ARE SUBJECTED TO SANITARY CHECKS ON THE BASIS OF RISK