



Low Pathogenicity Avian Influenza in Italy

SCoFCAH Bruxelles, 11-12 January 2012



H7 Low Pathogenicity Avian Influenza -Italy- 2011

Epidemiological situation
From 1st November to
31st December

1 outbreak of H7 LPAI
was detected



2011/19 OUTBREAK

20th Oct 2011

In the frame of monitoring rural poultry sector (**D.M.25 June 2010**) serum samples were collected in a **farm** located in Soveria Mannelli municipality (Calabria Region) rearing 439 birds. On the **22th November** the NRL confirmed positive results for LPAI Virus subtype H7 on 3 serum samples taken from recently introduced laying hens.

(titre range 1:16 – 1:32)

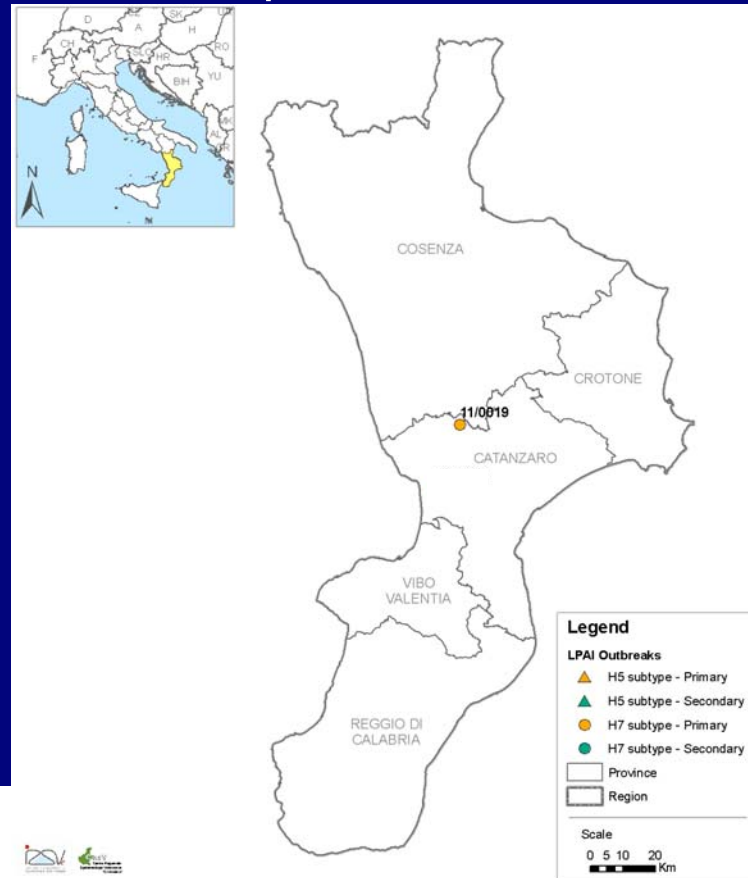
CONTROL MEASURES -

Culling of all hens (150) on 14th Dec 2011

Cleansing and Disinfection procedures

Derogation was provided, as specified by EU Directive 2005/94 (art. 40), for birds of endangered species reared in the farm

Restriction Zone (1km)

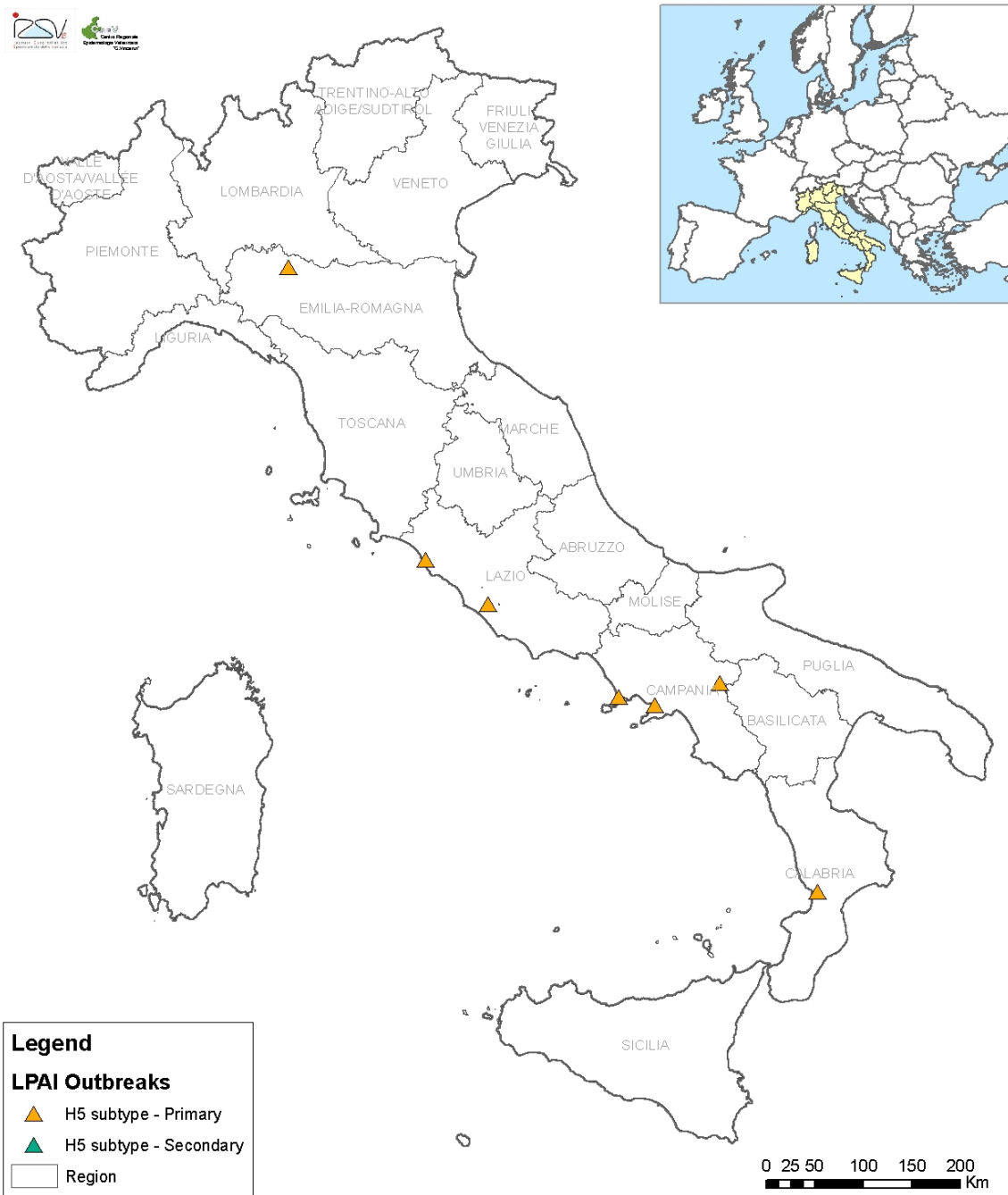




H5 Low Pathogenicity Avian Influenza -Italy- 2011

Epidemiological situation
From 1st November to
31th December 2011

7 outbreak of H5 LPAI
were detected





H5 LPAI in Italy

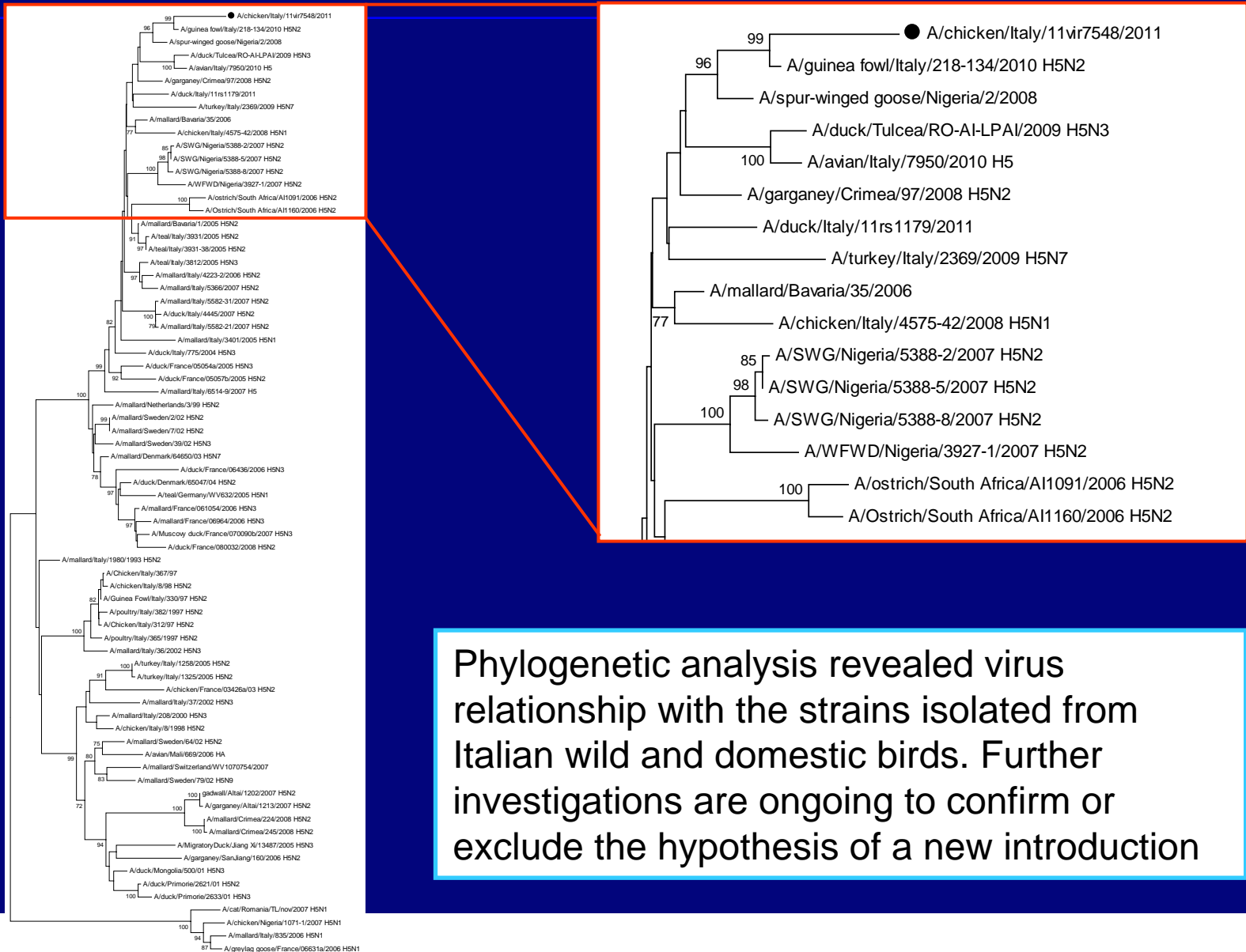
- 7 outbreaks:
 - 6 in rural farm
 - 1 in industrial meat-turkey farm
- 6.913 birds involved
- First outbreak confirmation date 25th November 2011
Last outbreak confirmation 28th December 2011
- 4 regions involved:
 - Emilia Romagna
 - Lazio
 - Campania
 - Calabria

H5 LPAI Rural outbreaks

ID ADNS	Date of confirmation	Reason of sampling	Region	Bird present in farm	Serological Virological
2011/16	30 Nov	Rural sector monitoring	Emilia Romagna	734	Virological + (RT-PCR) Serological -
2011/17	29 Nov	Rural sector monitoring	Campania	47	Serological + Titre range 1:16 – 1:64
2011/18	25 Nov	Rural sector monitoring	Campania	250	Serological + Titre range 1:16 – 1:64
2011/21	21 Dec	Rural sector monitoring	Calabria	30	Serological + Titre range 1:16 – 1:64
2011/22	21 Dec	Rural sector monitoring	Lazio	152	Serological + Titre range 1:16 – 1:256
2011/23	28 Dec	Rural sector monitoring	Campania	100	Virological + (RT-PCR) Virological + (Isolation)

HA (H5) phylogenetic tree

ADNS 2011/23



H5 LPAI Rural outbreaks Control measures

Depopulation

Cleansing and Disinfection procedures

Restriction Zone 1km:

- Serological and virological screening of rural and industrial farms
- Epidemiological investigations are ongoing



H5 LPAI industrial Meat-turkey farm

10th Dec 2011

A meat turkey farm located in Viterbo province (Lazio region) was checked as a consequence of mild respiratory symptoms, with low mortality rate.

13th Dec 2011

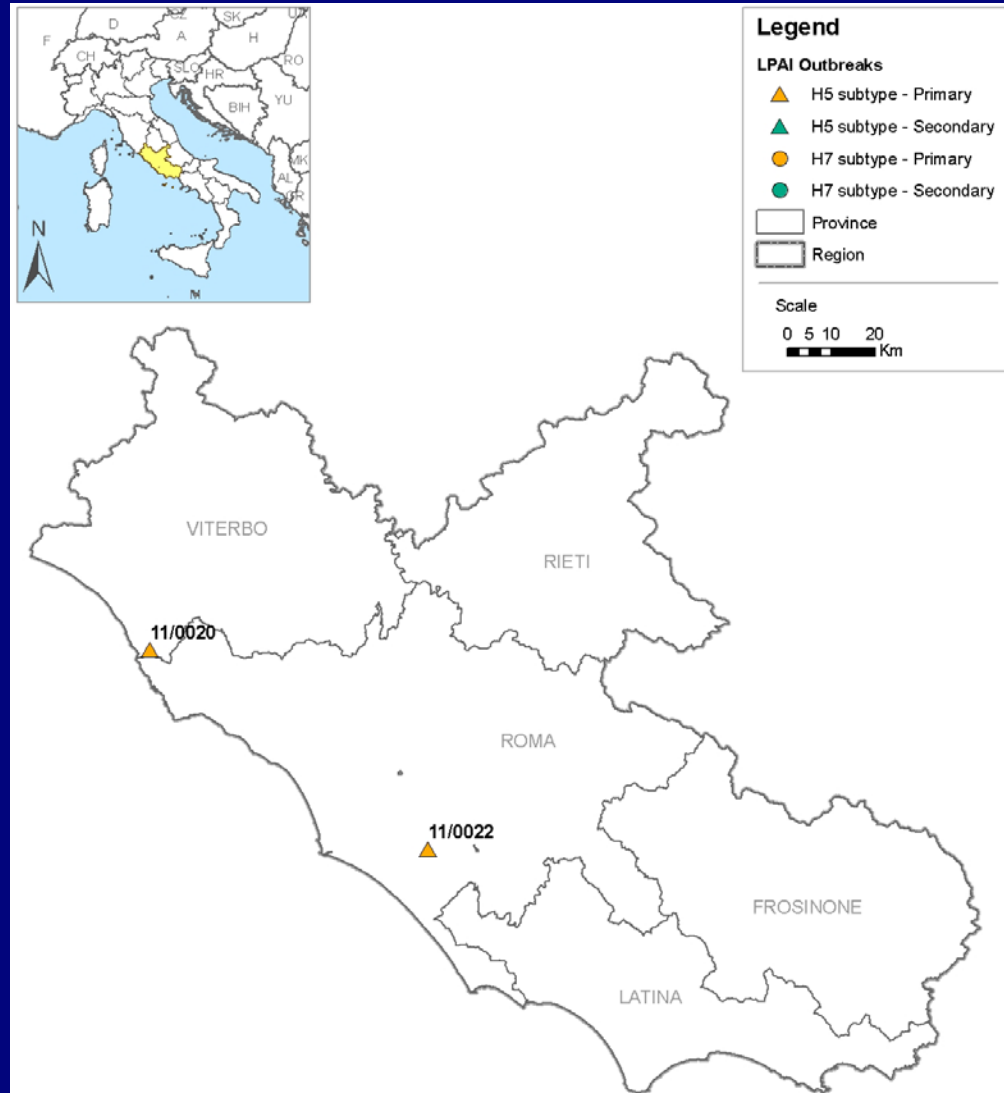
NRL confirmed serological positivity for H5 LPAI subtype. Virus was not isolated.

Serological typing of Neuroamminidase gave positive result for N2 subtype.

H5 LPAI industrial Meat-turkey farm

Control measures

All turkeys present in the holding were slaughtered in a designated slaughterhouse (as provided by art. 39 par. 3 EU Directive 2005/94) on 7th January.



Total outbreaks of LPAI virus in Italy

