

STANDING COMMITTEE ON PLANTS, ANIMALS, FOOD AND FEED
Section Animal Health & Welfare

Aujeszky's Disease eradication program in Emilia-Romagna Region, Italy

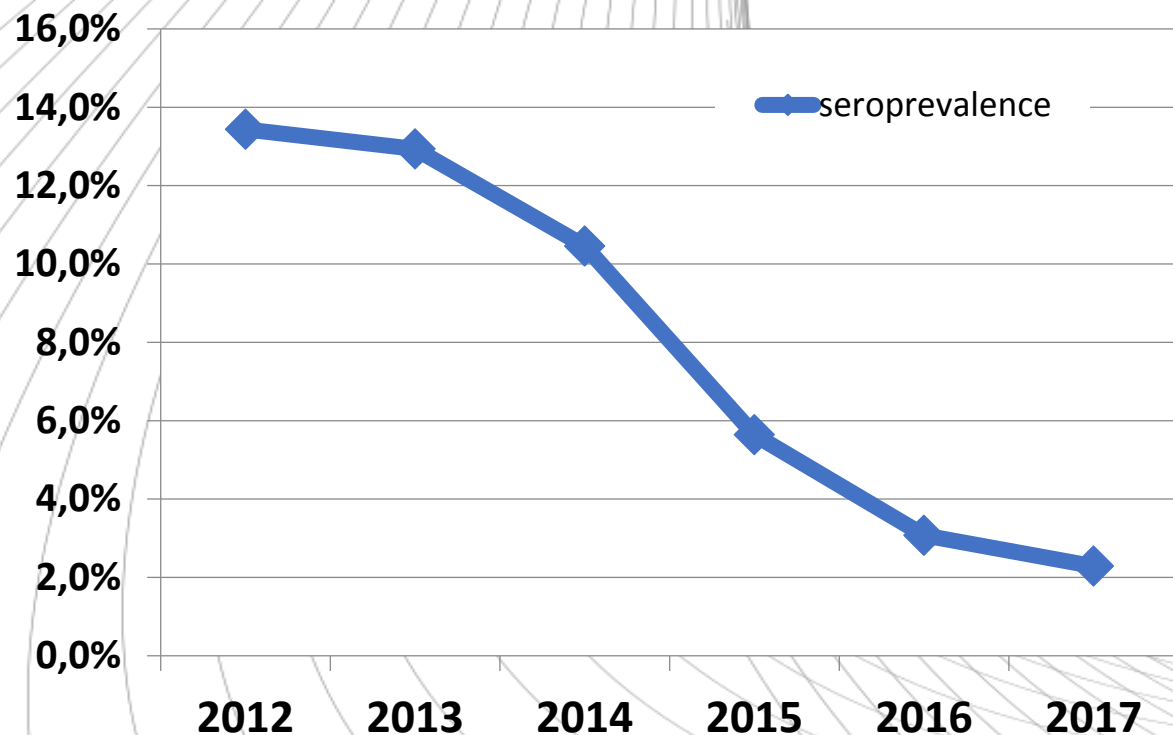
Bruxelles, 17 January 2018

The eradication program

- ❖ The program has been prepared in accordance with art. 9 of Directive 64/432/EEC to **achieve the eradication of AD virus**. It is compulsory and supervised by the OVS.
- ❖ It qualifies Emilia-Romagna Region to be listed in **Annex II of Decision 2008/185/EC** in accordance with “Guidance to Commission Decision 2008/185/EC” (SANTE/7124/2016).
- ❖ Regional surveillance system on the whole pig population:
 - Active and passive surveillance activities on domestic pig population;
 - Active surveillance on wild boar population.
- ❖ Reporting of all AD cases is mandatory.
- ❖ Vaccination (deleted virus AD strains only) is mandatory.
- ❖ All clinical and seropositive AD cases are subjected to field and laboratory investigations.
- ❖ Movement restrictions and disinfections are applied to the affected holding.

Epidemiological Evolution (2012-2017)

❖ In the last years, ADV-gE seroprevalence in pig farms decreased from 13.4% to 2.3% (Fig. 1).



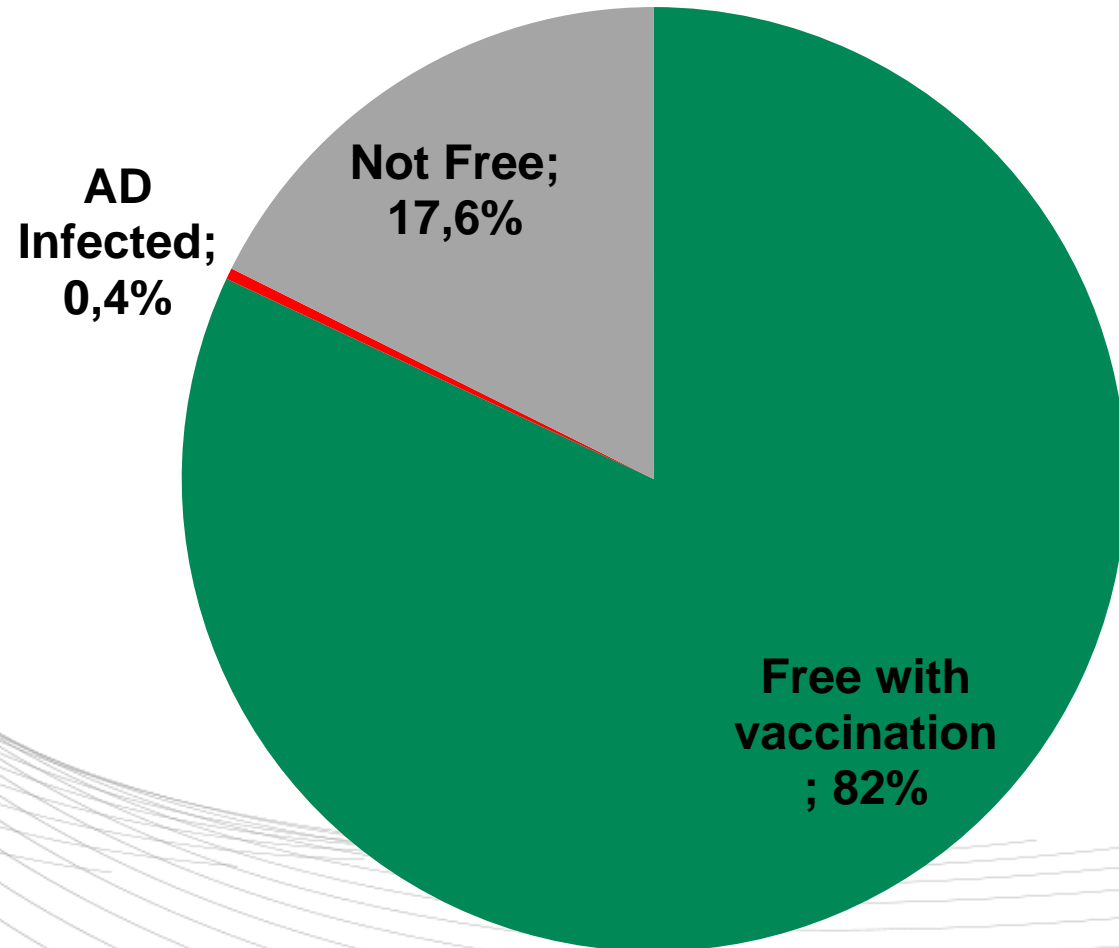
| Year | Tested farms | Positive farms | % Positive | differences from previous year | |
|------|--------------|----------------|------------|--------------------------------|----------|
| | | | | absolute | relative |
| 2012 | 454 | 61 | 13.4% | - | - |
| 2013 | 487 | 63 | 12.9% | -0.5% | -3.7% |
| 2014 | 459 | 48 | 10.5% | -2.5% | -19.2% |
| 2015 | 656 | 37 | 5.6% | -4.8% | -46.1% |
| 2016 | 716 | 22 | 3.1% | -2.6% | -45.5% |
| 2017 | 875 | 20 | 2.3% | -0.8% | -25.6% |

Tested and AD positive herds, 2012-2017

Figure 1 - Trend of seroprevalence in domestic pig population in Emilia-Romagna, 2012-2017

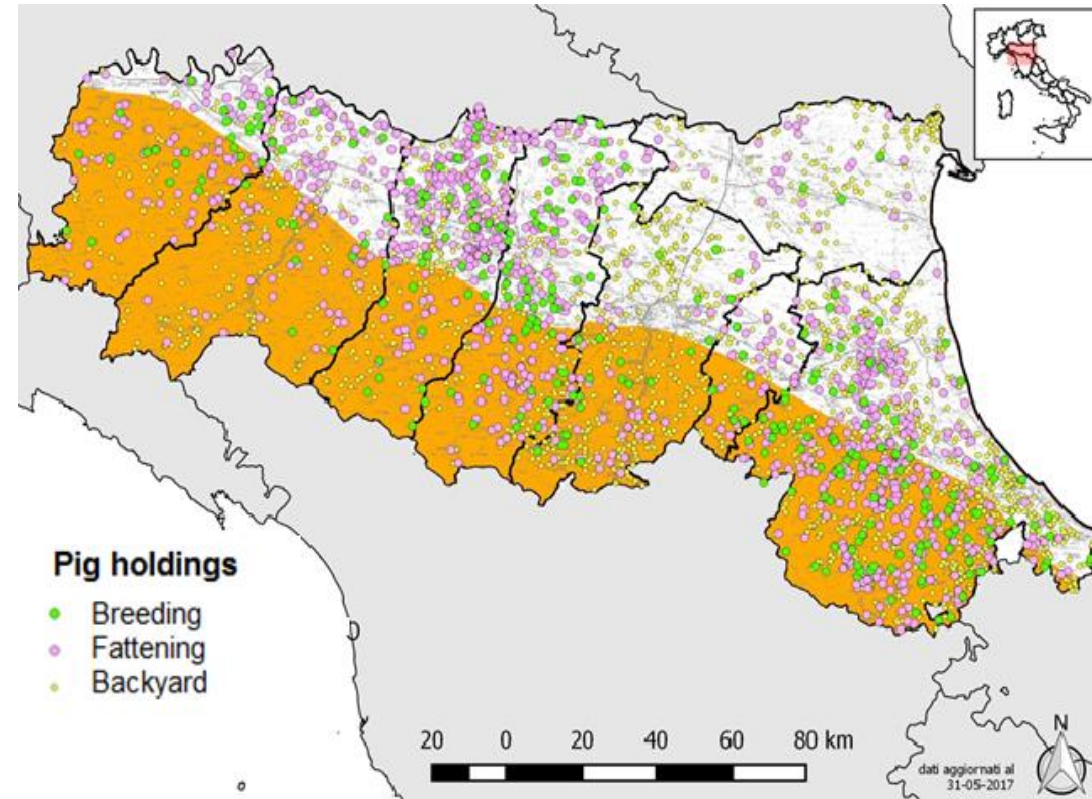
Epidemiological Evolution (2017)

- ❖ All pig herds have been classified according the EU legislation;
- ❖ Herd classification is recorded and kept updated in the National Pig Register (<https://www.vetinfo.sanita.it>)



Active surveillance on wild boars

| Year | Wild Boars | | % Pos |
|--------------|---------------|--------------|--------------|
| | Tested | Positive | |
| 2012 | 4.063 | 962 | 23.7% |
| 2013 | 5.005 | 1.391 | 27.8% |
| 2014 | 4.979 | 1.467 | 29.5% |
| 2015 | 3.276 | 880 | 26.9% |
| 2016 | 3.516 | 995 | 28.3% |
| 2017 | 3.528 | 1.016 | 28.8% |
| Total | 24.367 | 6.711 | 27.5% |



- ❖ Wild boars are present only in the hilly and mountain part of the Emilia-Romagna Region
- ❖ Seroprevalence in wild boars is constant over time, while it is decreasing in pig population
- ❖ The ADV strains circulating in the wild boar population are genomically different from the ones of domestic pigs. This confirms that the two populations are well separated.



Thank you for your attention