

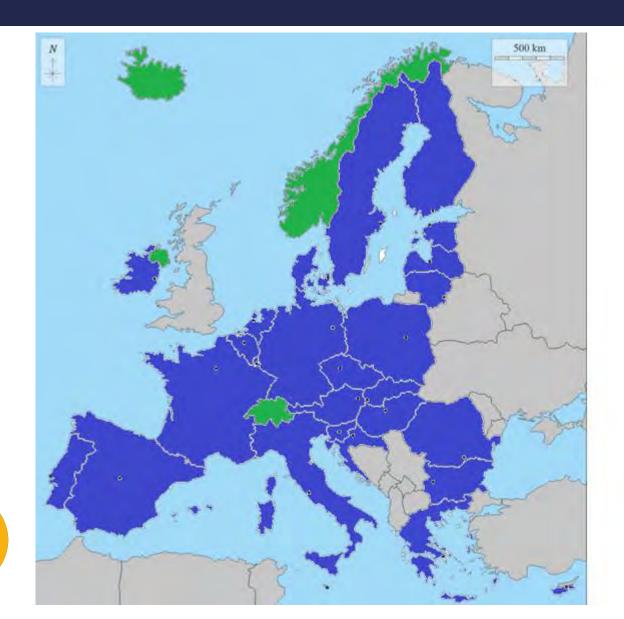
AHW.A.06.EFSA

AVIAN INFLUENZA SURVEILLANCE 2022

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BIOHAW unit
Animal Health Team



REPORTING COUNTRIES



REPORTING COUNTRIES

- 27 Member States
- Iceland, Norway, Switzerland & UK (Northern Ireland)



POULTRY

22,171 poultry establishments (PEs *) visited

15 (0.08%)

• 18,490 serological tests A(H5) sero-positive

2 PCR HP

• 1 PCR LP (H5N3)

12 PCR neg

3,755 virological tests

• (94 PE tested with serological & virological tests)



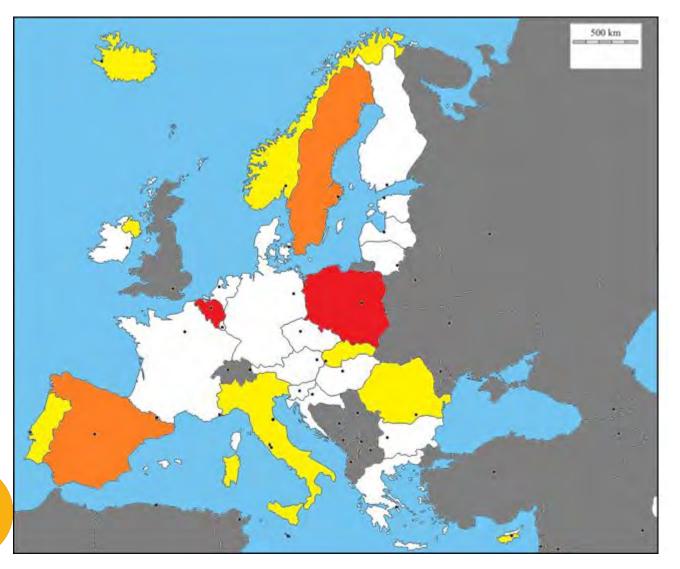
74 (1.96%) viro-positive A(H5)



- 54 HP A(H5N1)
- 17 HP A(H5N8)
- 2 ?P A(H5N1)
- 1 LP A(H5N3)



POULTRY



Serology (red)

- Breeding geese
- Waterfowl game birds
- Other...

Virology (yellow)

• 12 poultry categories

Serology & Virology (orange)





WILD BIRDS

32,143 wild birds tested 4,163 • 3,942 A(H5N1) Highly • 221 A(H5) Pathogenic **AIV pos** 26,996 984 • 660 **not**-(H5/H7) neg • 260 H5 OR H7 Low Pathogenic • 64 other H-types (e.g., H10, H11, ...)





POULTRY

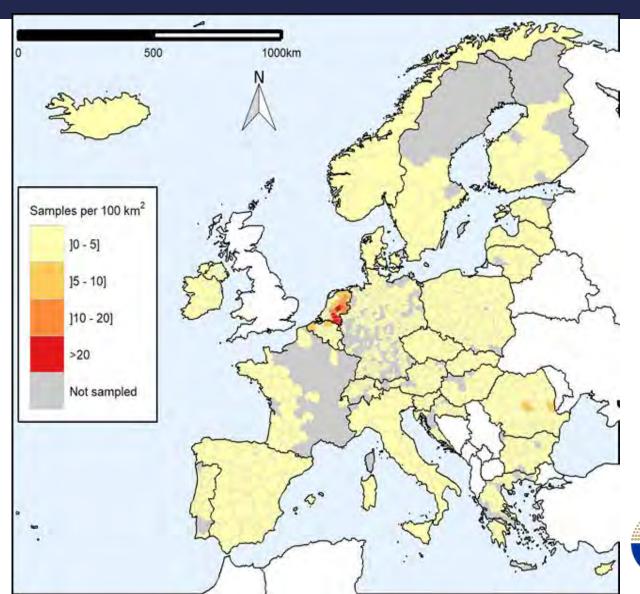


SAMPLING DENSITY

Even spatial distribution of the sampling.

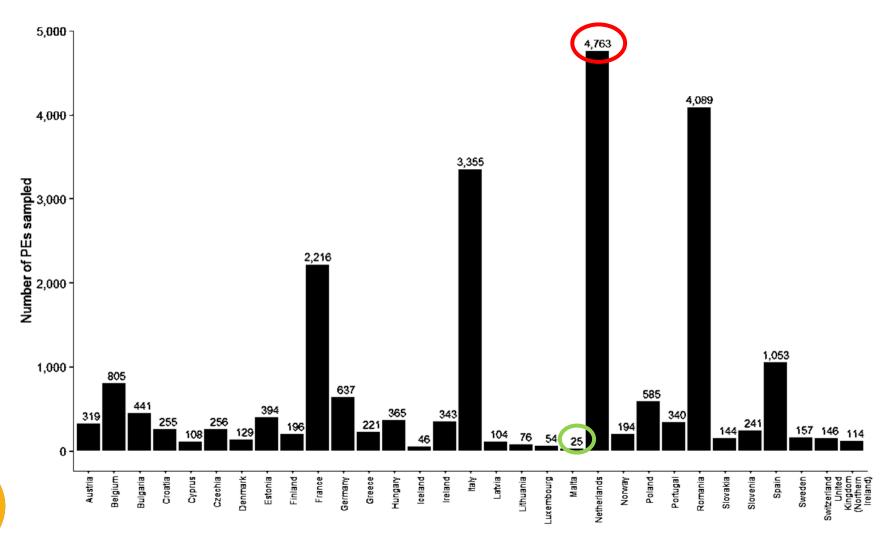
Higher intensity in The Netherlands

Sampling density does **not** give information on the representativeness of the sampling





POULTRY ESTABLISHMENTS VISITED



Note: the plot represents absolute numbers of establishments visited.

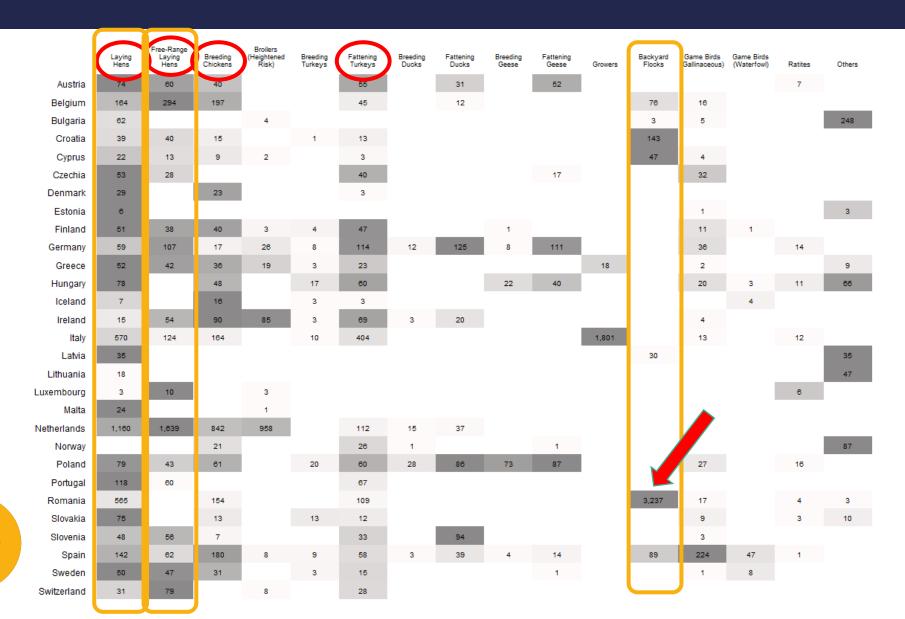
To calculate the proportion of visited establishment, the total number of establishments per country is needed.

Starting from 2024 there is the opportunity to provide poultry population data to EFSA for scientific purposes

(SIGMA project)



POULTRY CATEGORIES - SEROLOGY



The plot represents absolute numbers of samples taken per poultry category.



POULTRY CATEGORIES - VIROLOGY



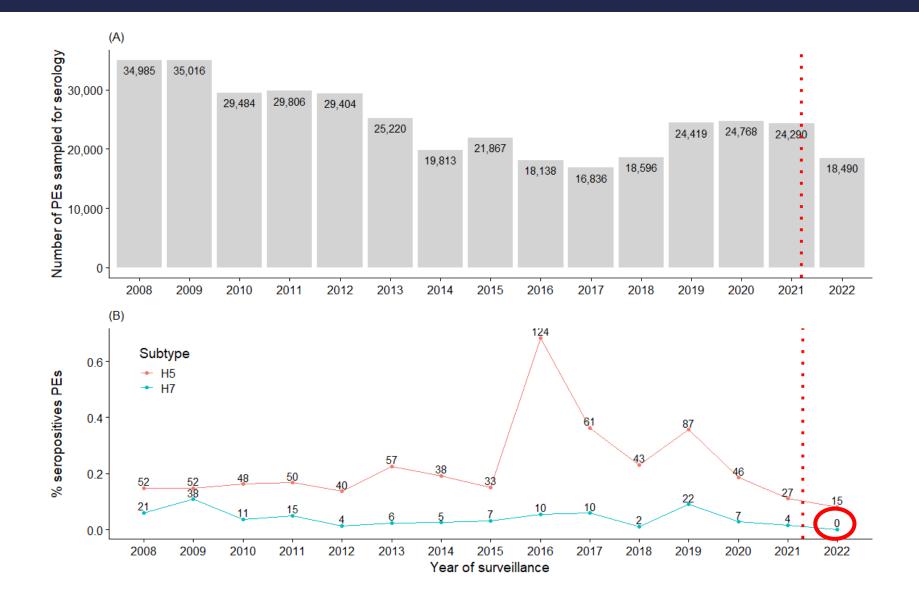
The category "other" is the most "targeted" by the countries and records the highest number of samples.

The two tables suggest an association between the methodology and the poultry category.

Need to capture more detailed information on the "other" category

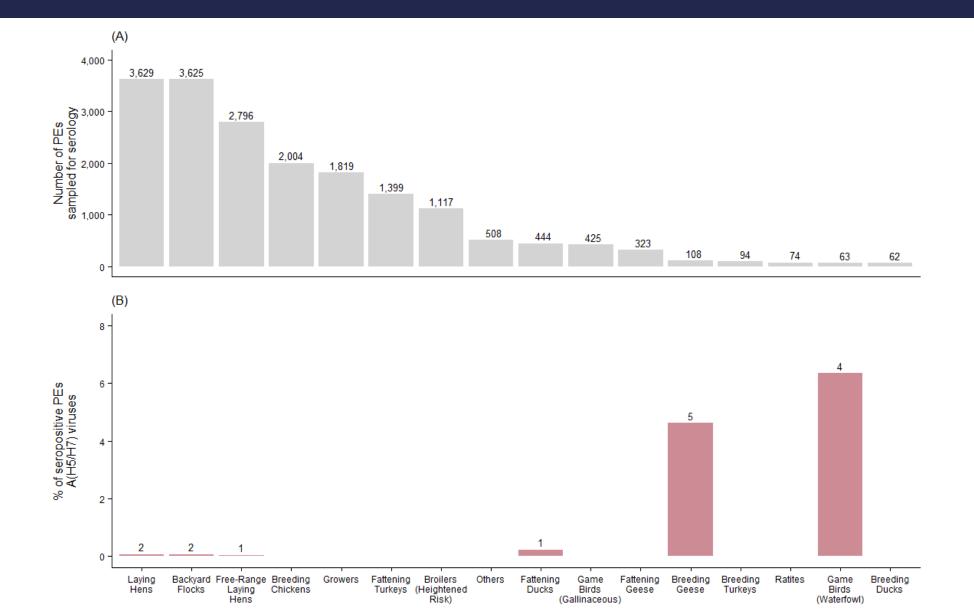


SEROLOGICAL TEST RESULTS



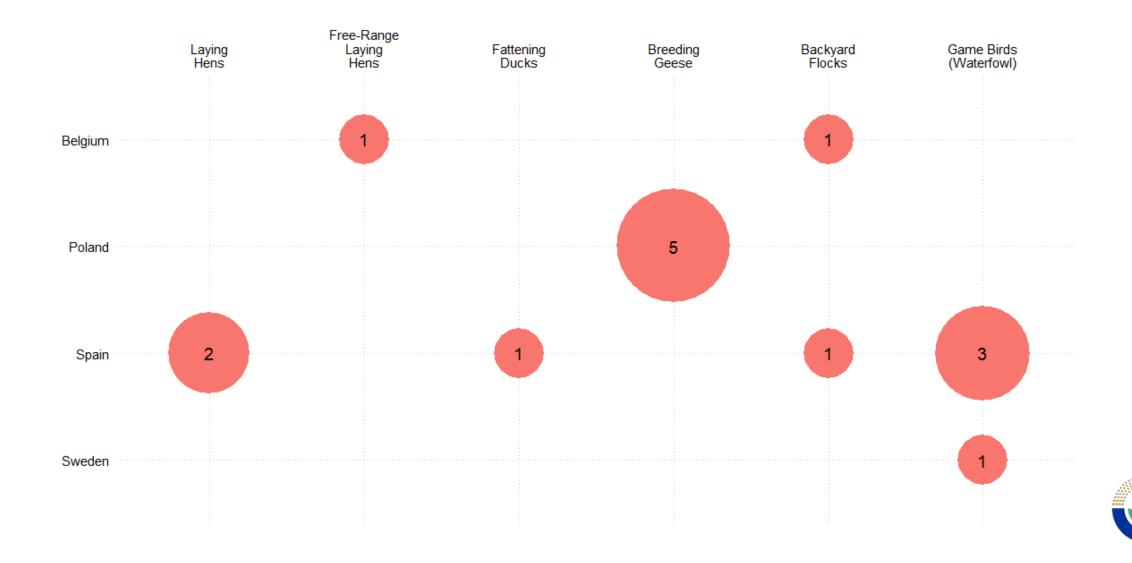


SEROLOGICAL TEST RESULTS

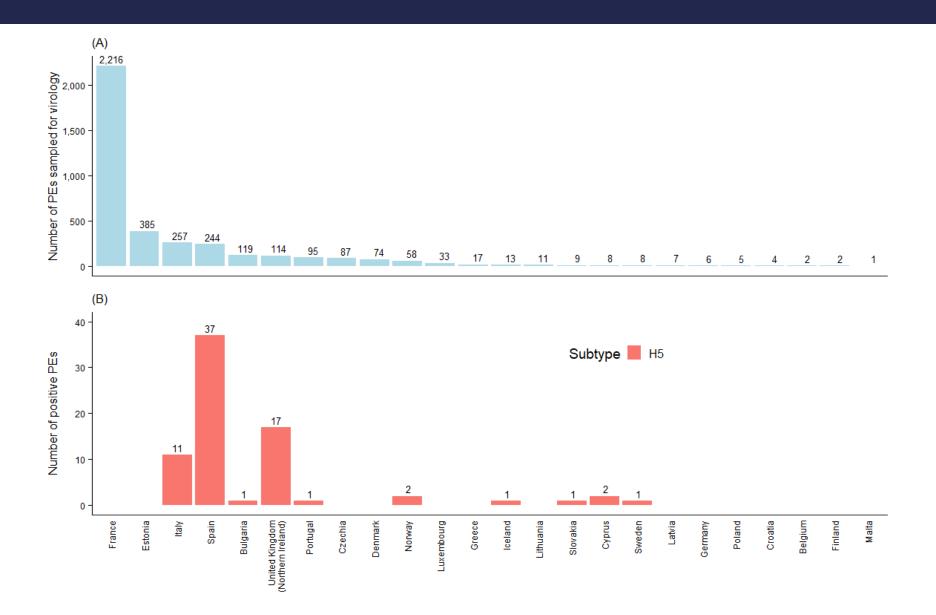




SUMMARY POSITIVITY A(H5) - SEROLOGY

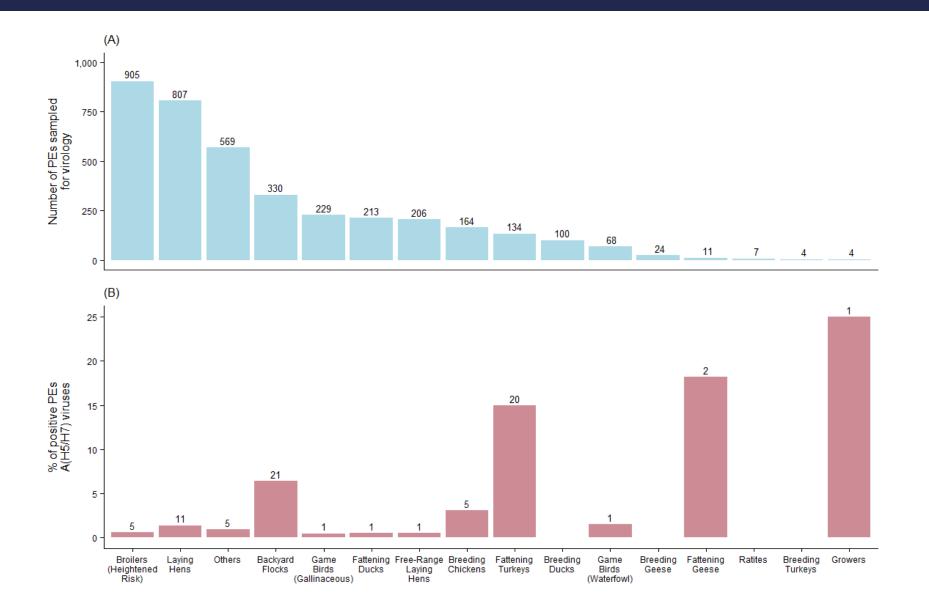


VIROLOGICAL TEST RESULTS





VIROLOGICAL TEST RESULTS





SUMMARY POSITIVITY - VIROLOGY





POULTRY

22,171 poultry establishments (PEs *) visited

15 (0.08%)

 18,490 serological tests \Rightarrow A(H5) sero-positive

74 (1.96%) viro-positive

2 PCR HP

12 PCR neg

• 1 PCR LP (H5N3)

A(H5)

(94 PE tested with serological & virological tests)



• 3,755 virological tests

- 54 HP A(H5N1)
- 17 HP A(H5N8)
- 2 ?P A(H5N1)
- LP A(H5N3)



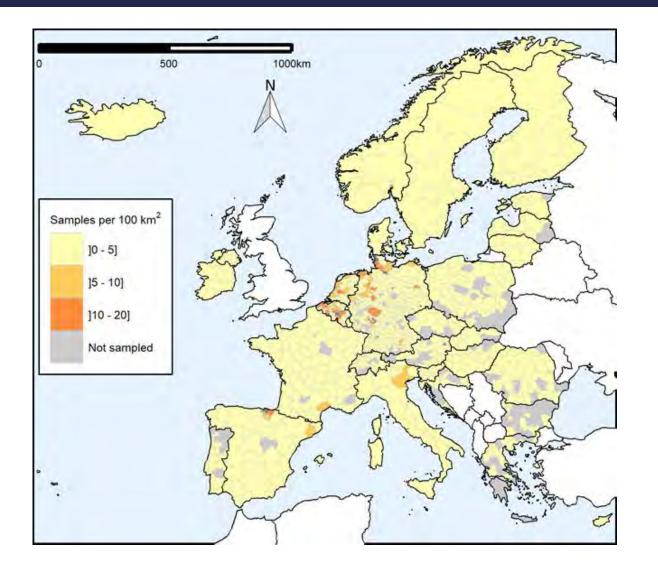


WILD BIRDS



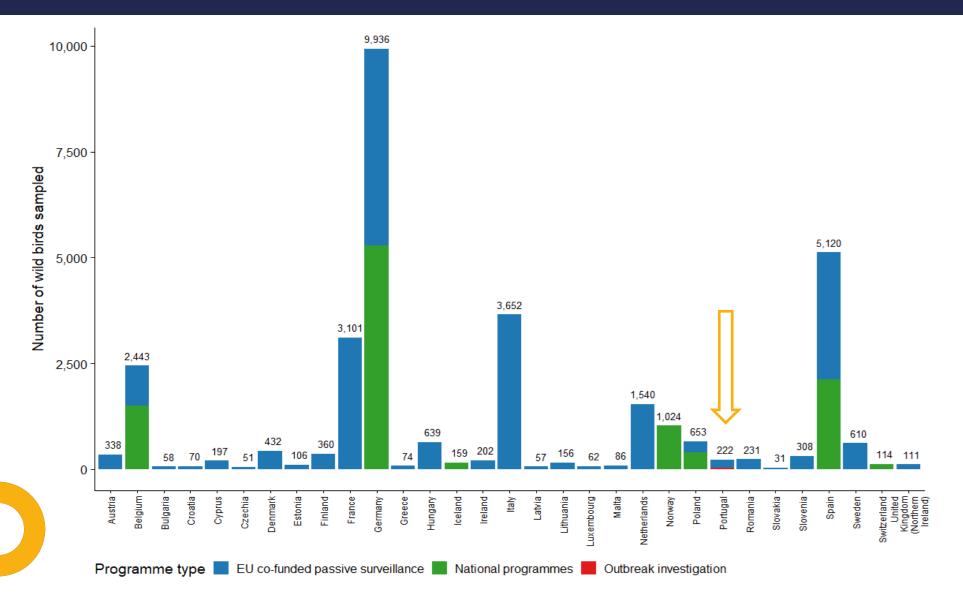
SAMPLING DENSITY

- Evenly distributed sampling
- Higher intensity in Northern Europe





NR. WILD BIRDS SAMPLED / COUNTRY

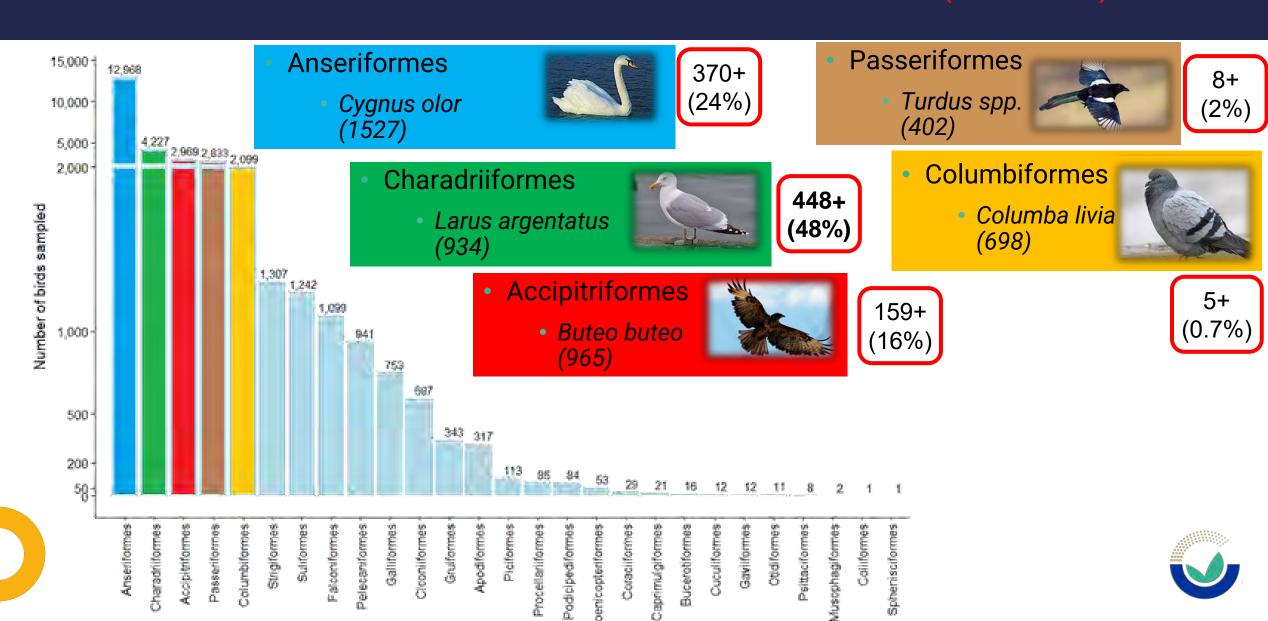


From 2024

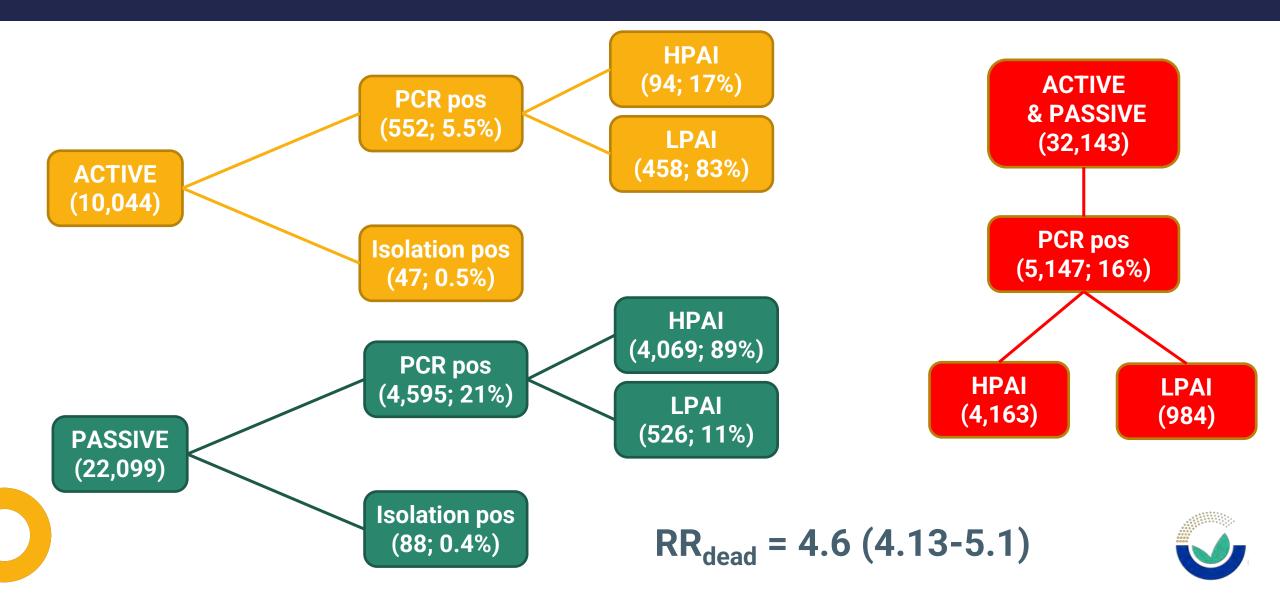
Possibility of a more detailed description of the activity (more combinations)



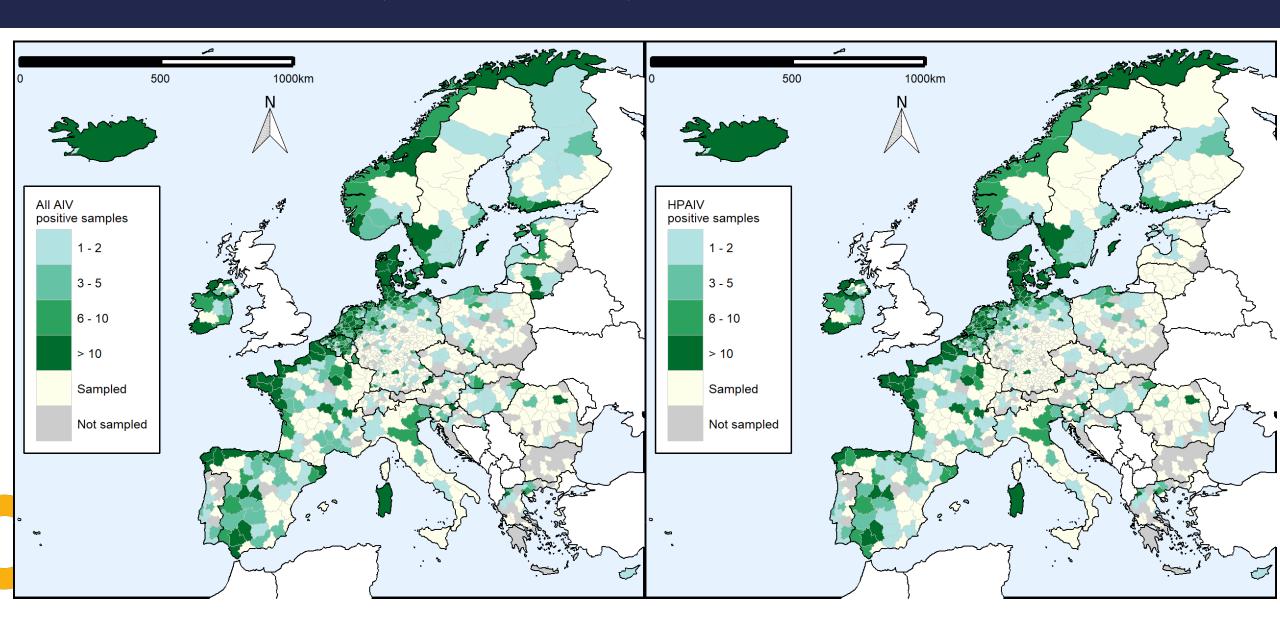
SAMPLED SPECIES - ACTIVE & PASSIVE SURVEILLANCE (HPAI POS)



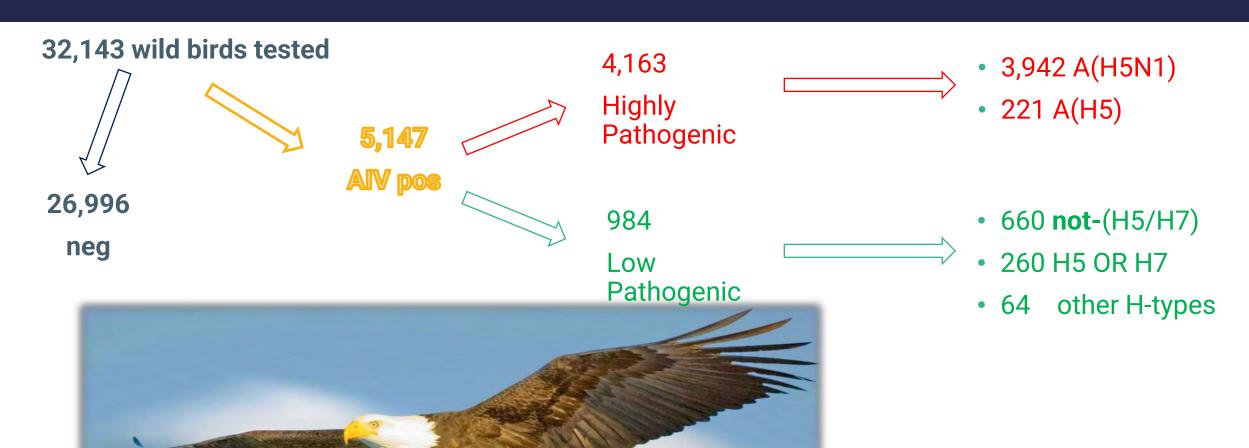
VIRO-POSITIVE SAMPLES



GEO-POSITIVITY (AIV VS. HPAIV)



WILD BIRDS







CONCLUSIONS & FINAL REMARKS

CONCLUSIONS & FINAL REMARKS



First report reflecting the full implementation of the new legal framework -> More variety in the approaches (PCR / Virology)



Increasing complexity → Surveillance and Monitoring evaluated together?



Evolving scenario → Need for smarter data collection strategy (flexibility & speed)



New data collection in 2024 (Pilot ongoing)





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