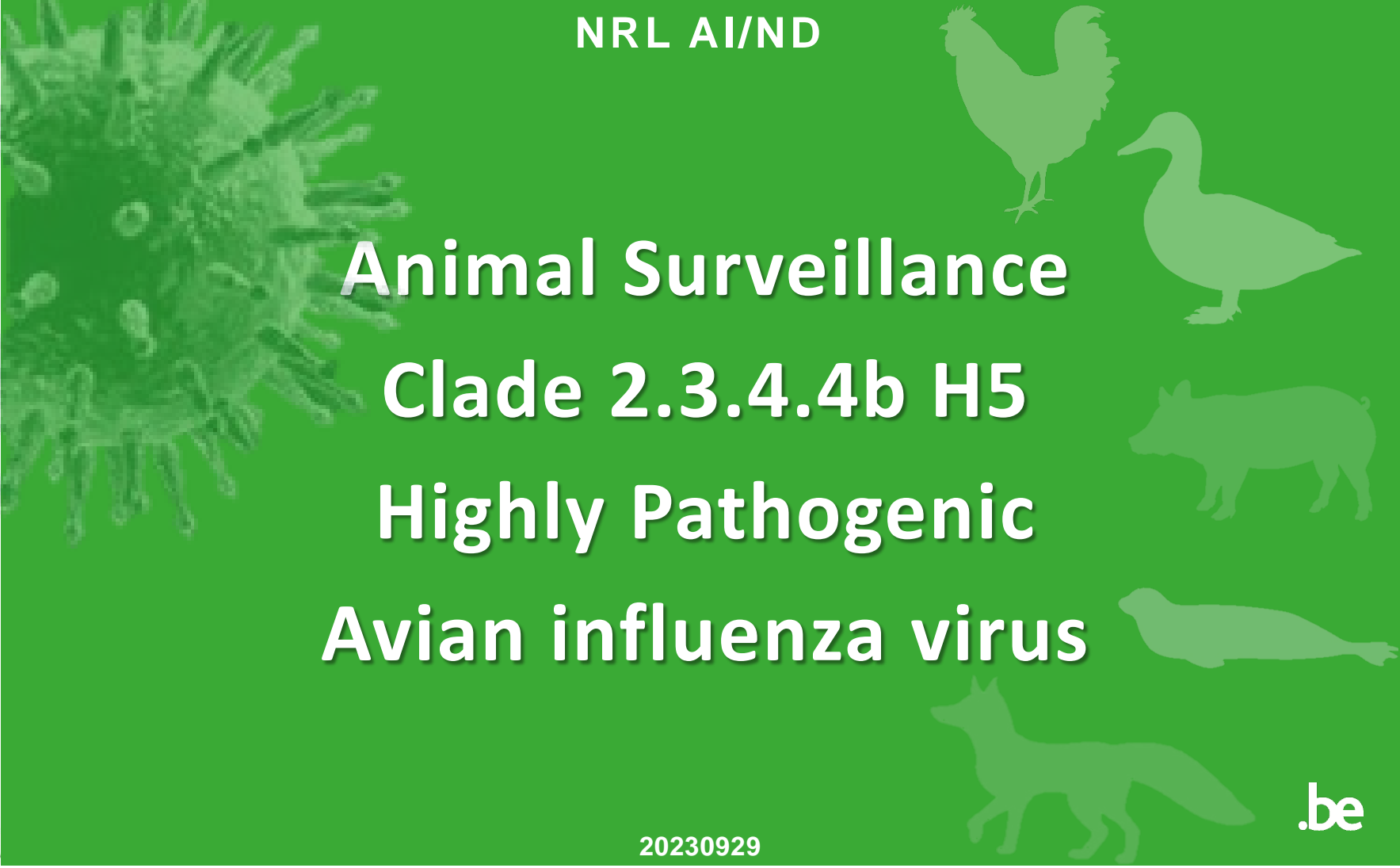


NRL AI/ND

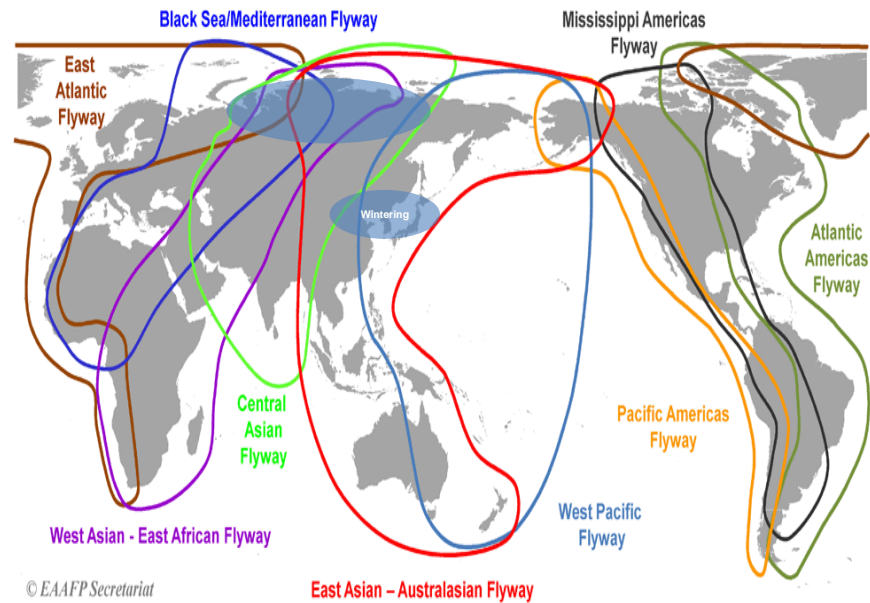
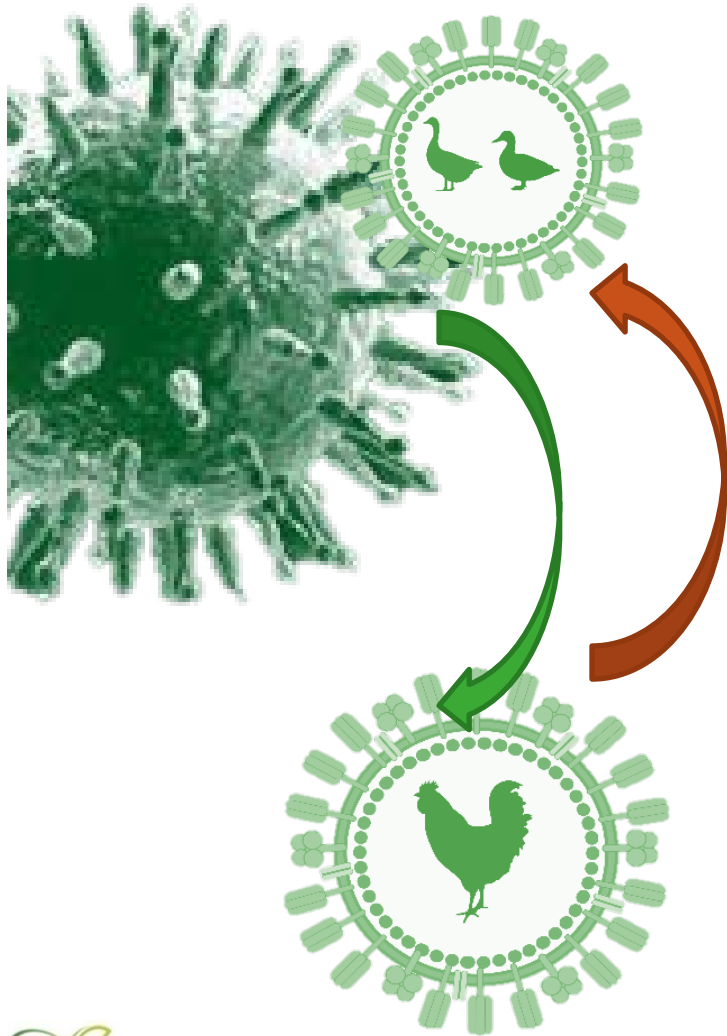


Animal Surveillance
Clade 2.3.4.4b H5
Highly Pathogenic
Avian influenza virus

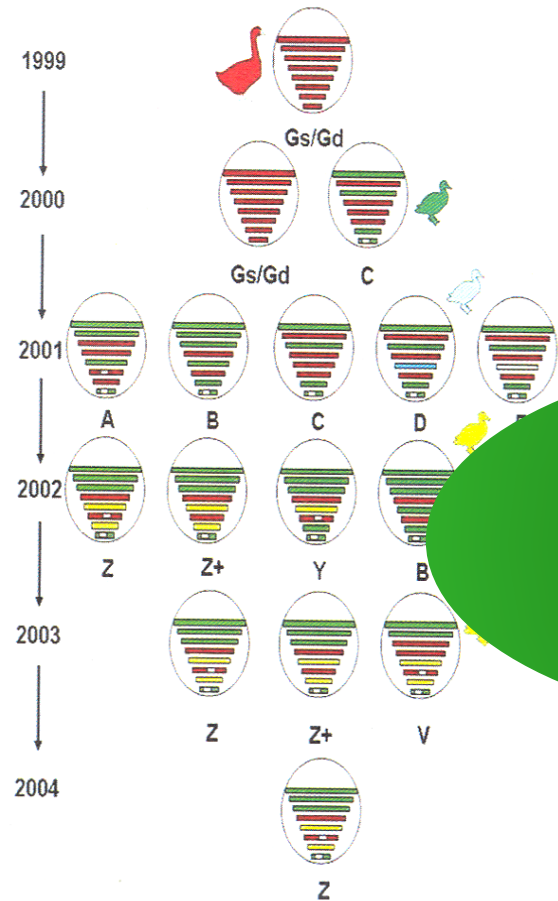
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The emergence and spread

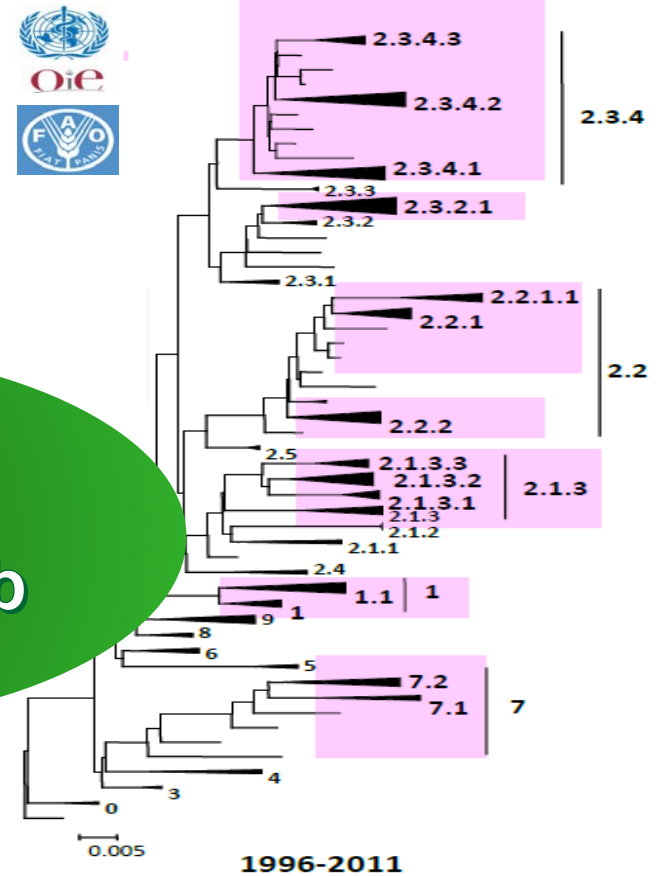


The evolution



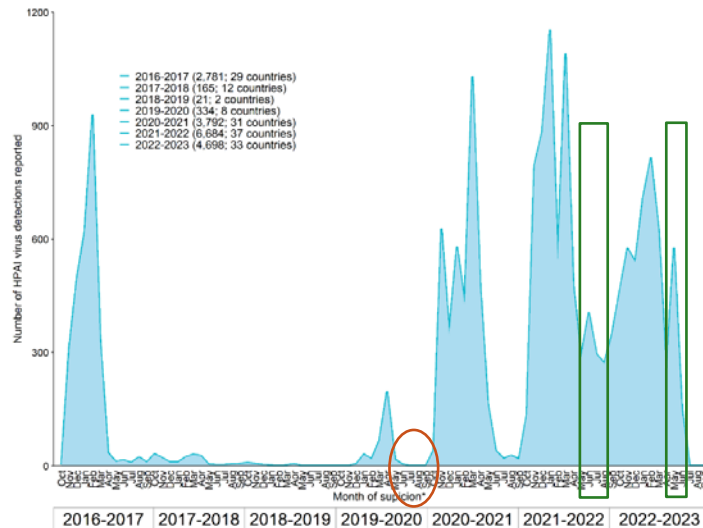
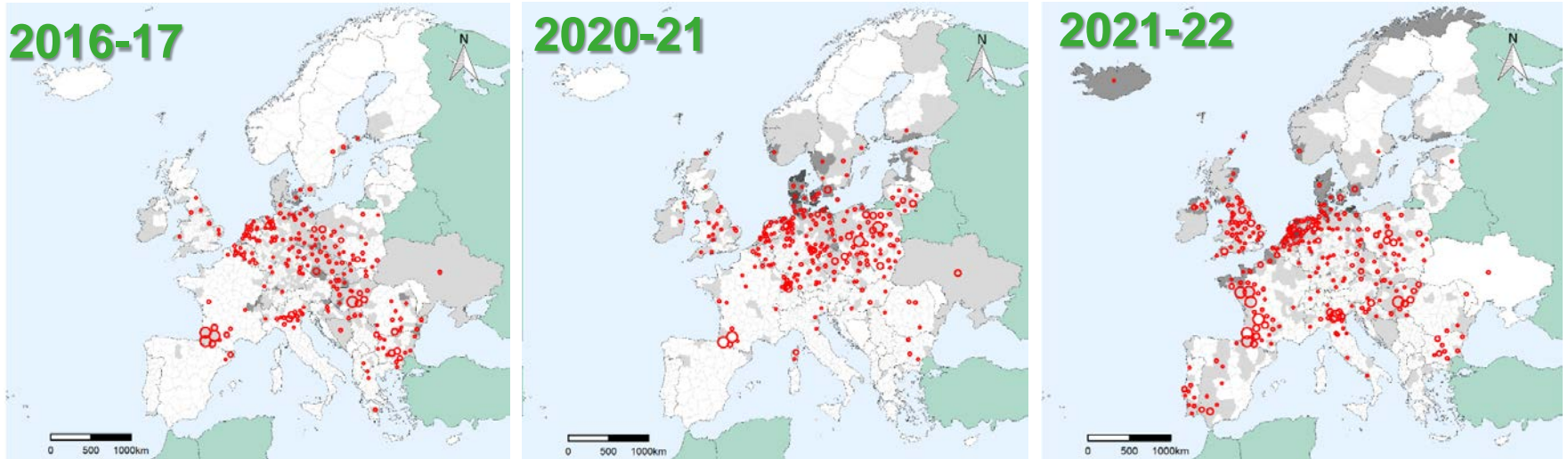
2016
Clade 2.3.4.4b

WHO/OIE/FAO H5N1 Evolution Working Group



The Current Situation

Clade 2.3.4.4b HP H5Nx in Europe

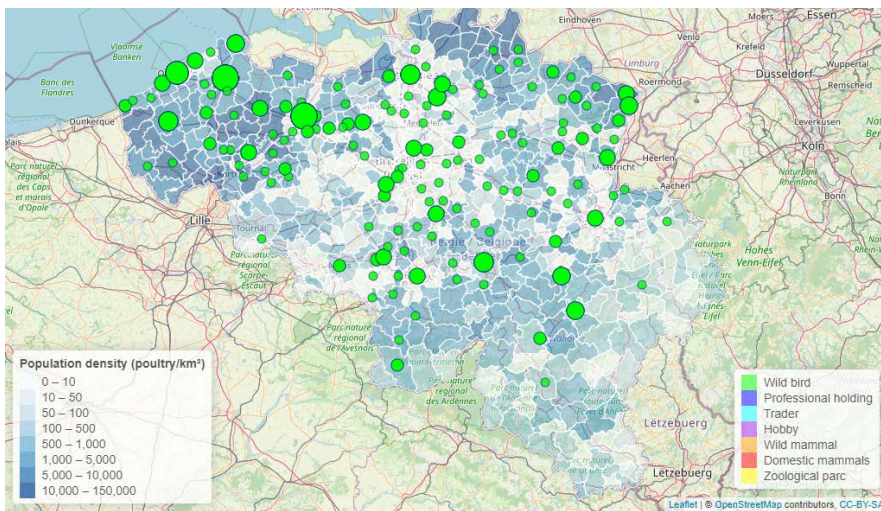


The Belgian BIRD Surveillance

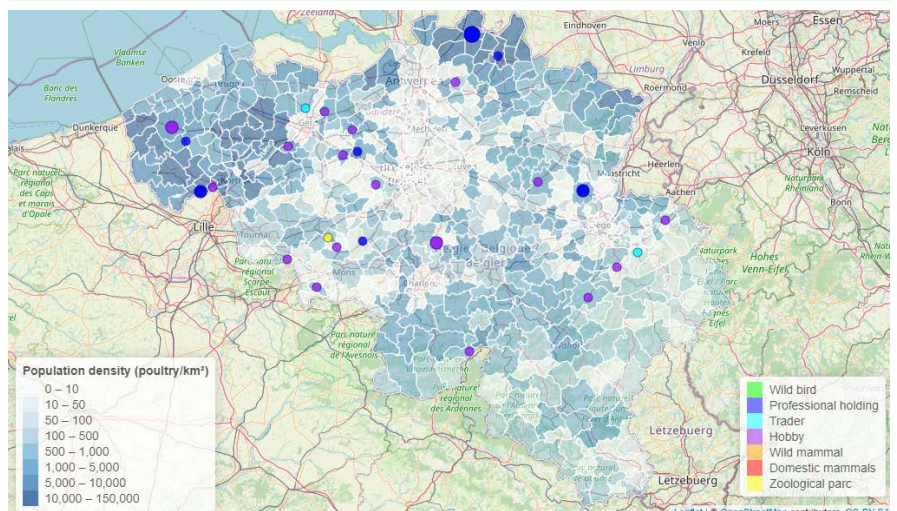


The Belgian Bird situation

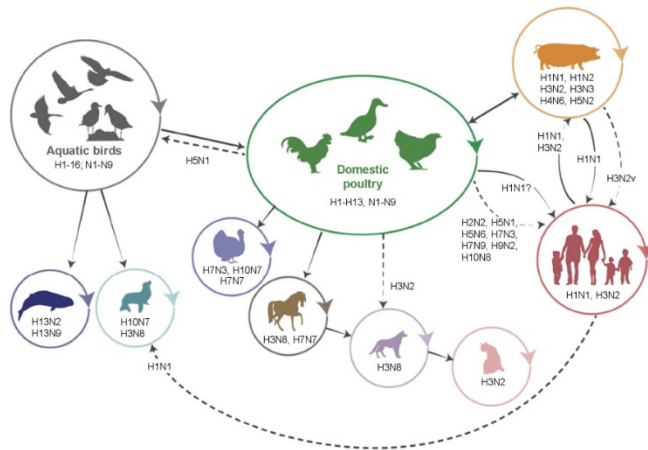
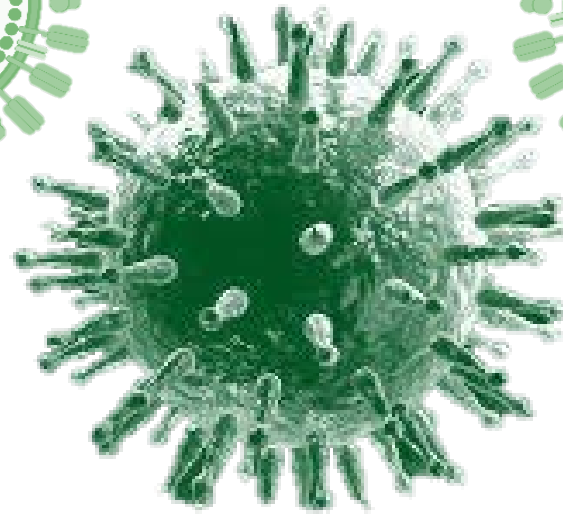
WILD BIRDS



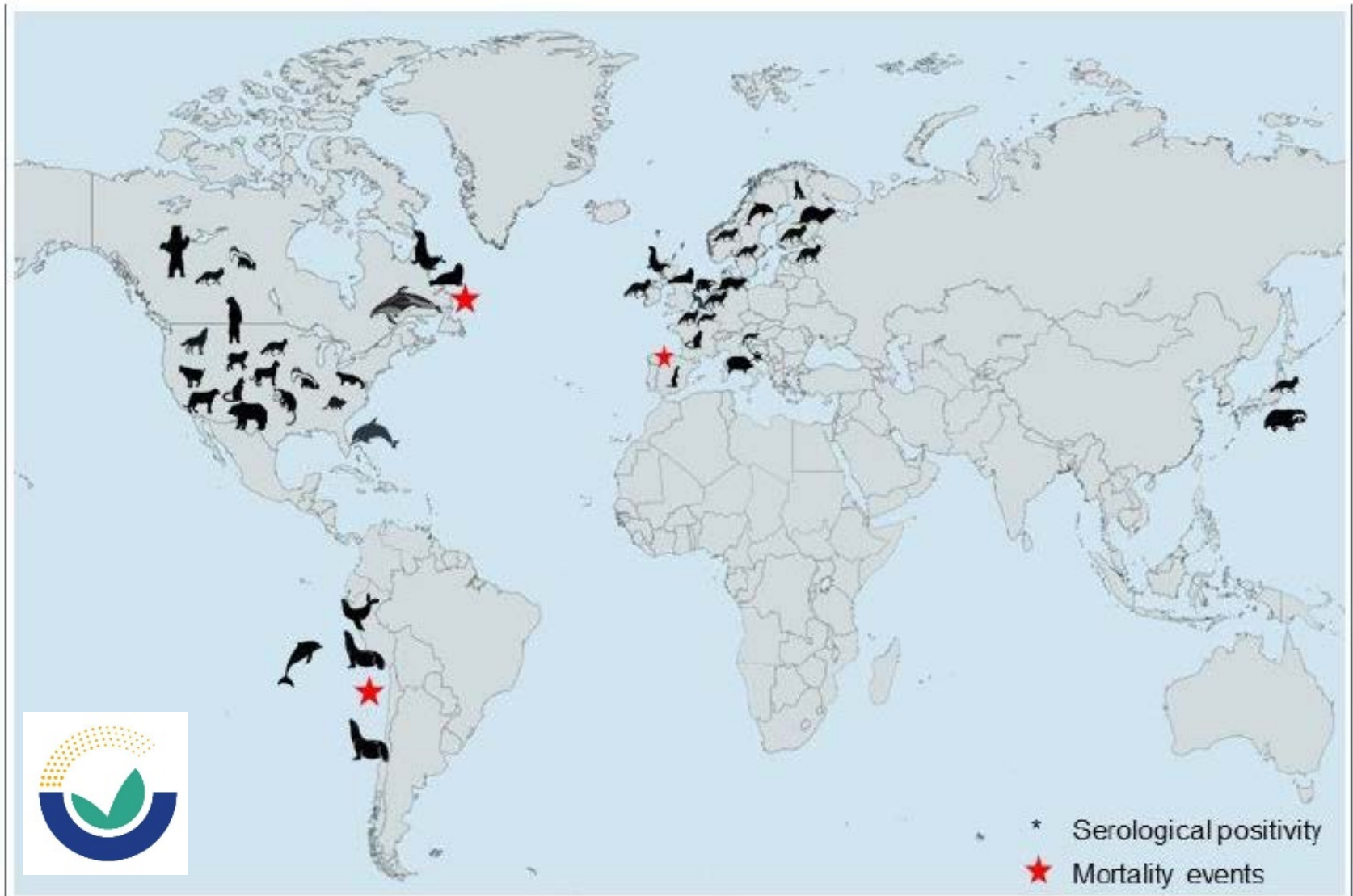
POULTRY / CAPTIVE



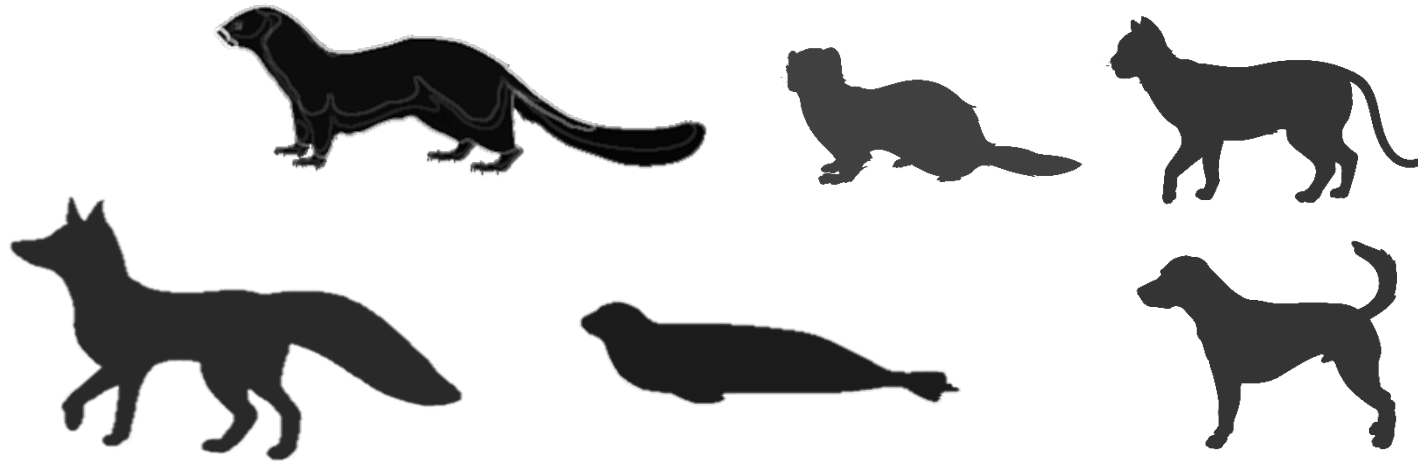
Zoonotic Risk?



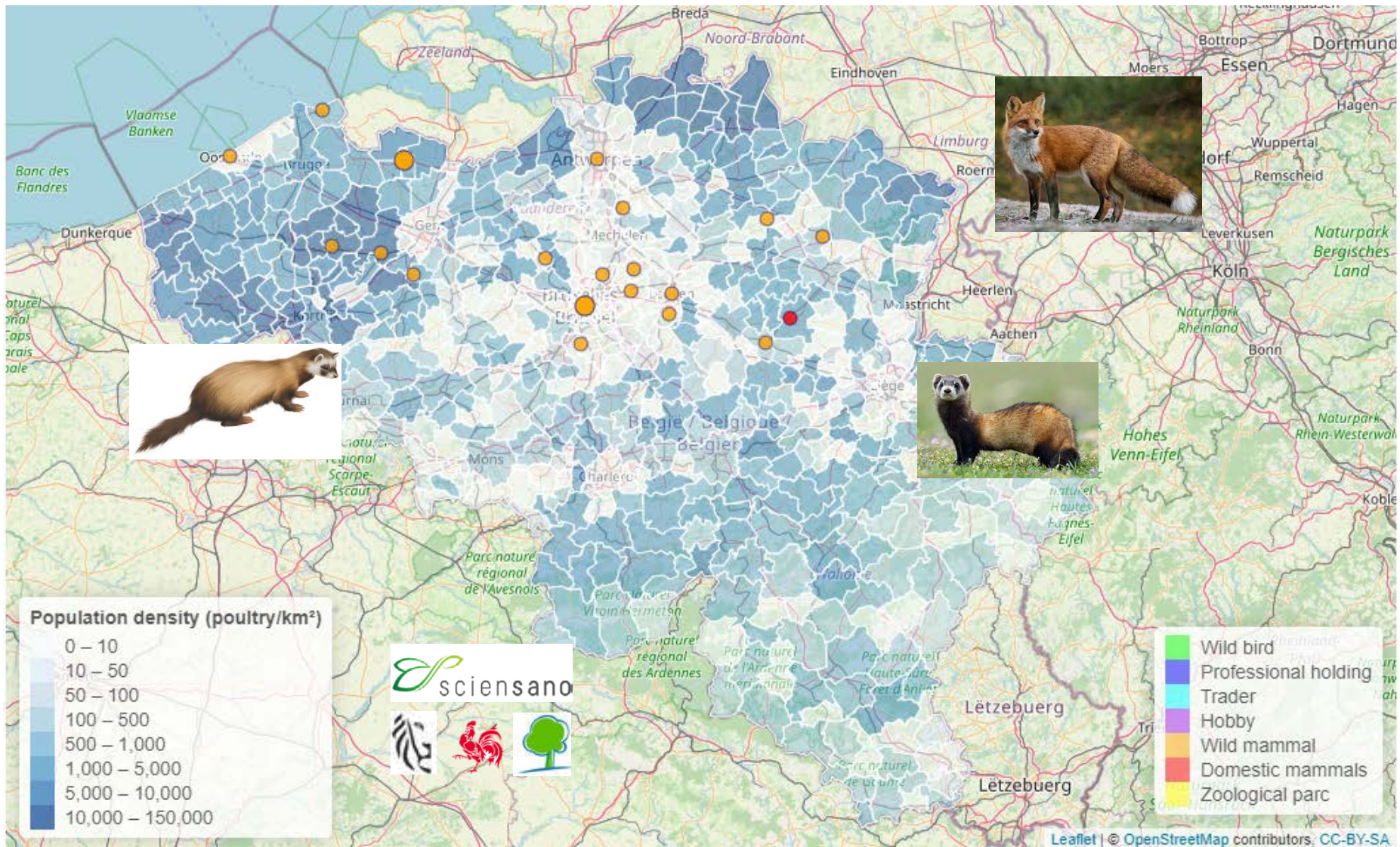
The current situation MAMMALS



Belgian Non-Human Mammalian Surveillance



The Belgian non human mammalian situation



The BE-zoonotic EARLY WARNING

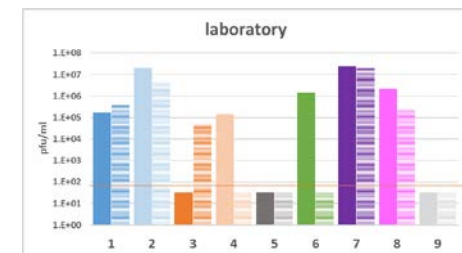
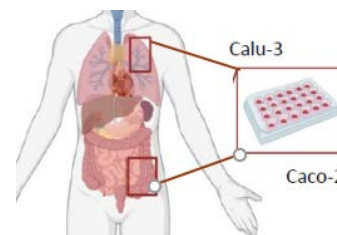
Monitoring of mammalian molecular adaptation markers

Whole genome sequencing: poultry – wild birds - mammals



A/Mustela_furo/Belgium/14312-0001/2022	PB2 E627K
A/Mustela_furo/Belgium/14312-0002/2022	PB2 E627K
A/Gallus_gallus/Belgium/14313-001/2022	PB2 E627K
A/Mustela_putorius/Belgium/01421_0001/2023	PB2 E627K
A/Vulpes_vulpes/Belgium/01784_0010/2023	NA S237Y loss glycosylation
A/Mustela_putorius/Belgium/01922_0001/2023	HA insertion R clsite & PB2 D701N
A/Gallus_gallus/Belgium/02824_0001/2023	HA S304N loss of glycosylation site

In vitro fitness evaluation



NRL

Newt Braem
Salimatou Diallo
Aurelie Francart
Coralie Prod'Homme
Catherine Rasseneur
Sylvain Romijn
Sander Van Hees

Christophe Delgrange

Pierre Hostyn
Steven Van Borm

Fiona Ingrao
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THANK YOU

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Avian influenza | information & data

The Belgian health authorities closely monitor the situation. Discover the role of Sciensano in tackling avian influenza in Belgium.

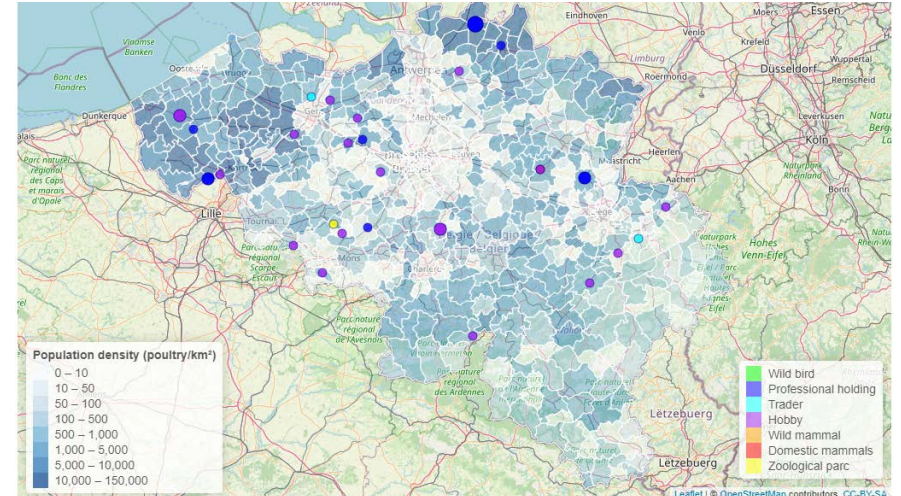
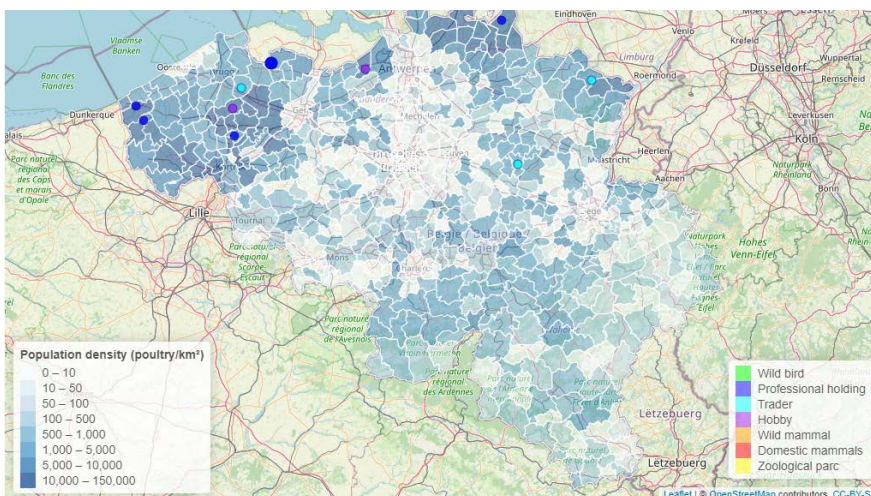
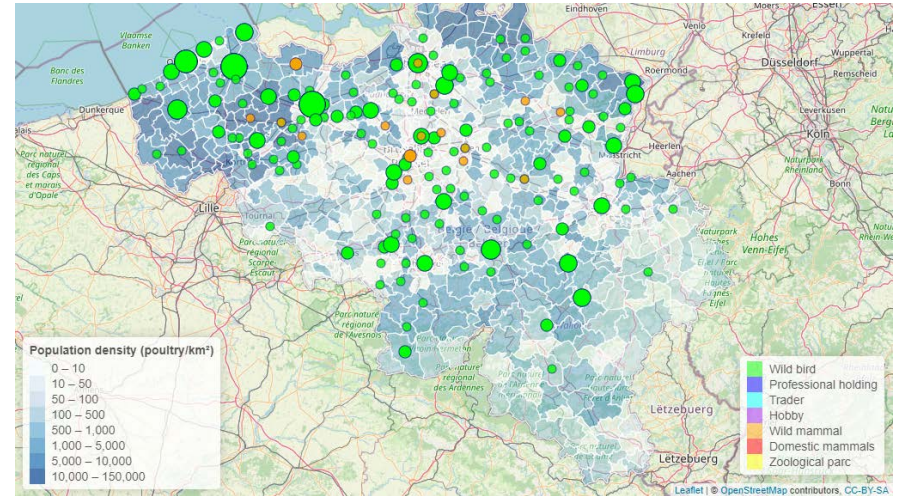
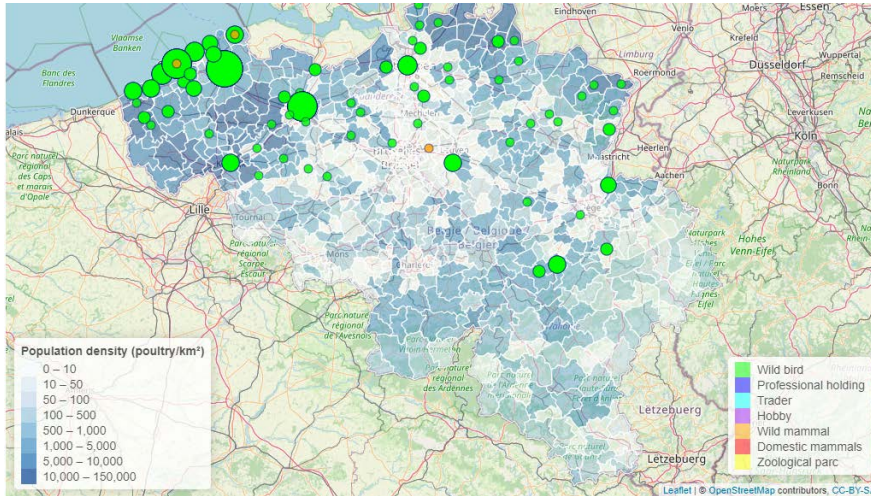
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Belgian situation

Wild Birds



Poultry

2021-22

2022-23