ESFLU
European Swine Influenza Network

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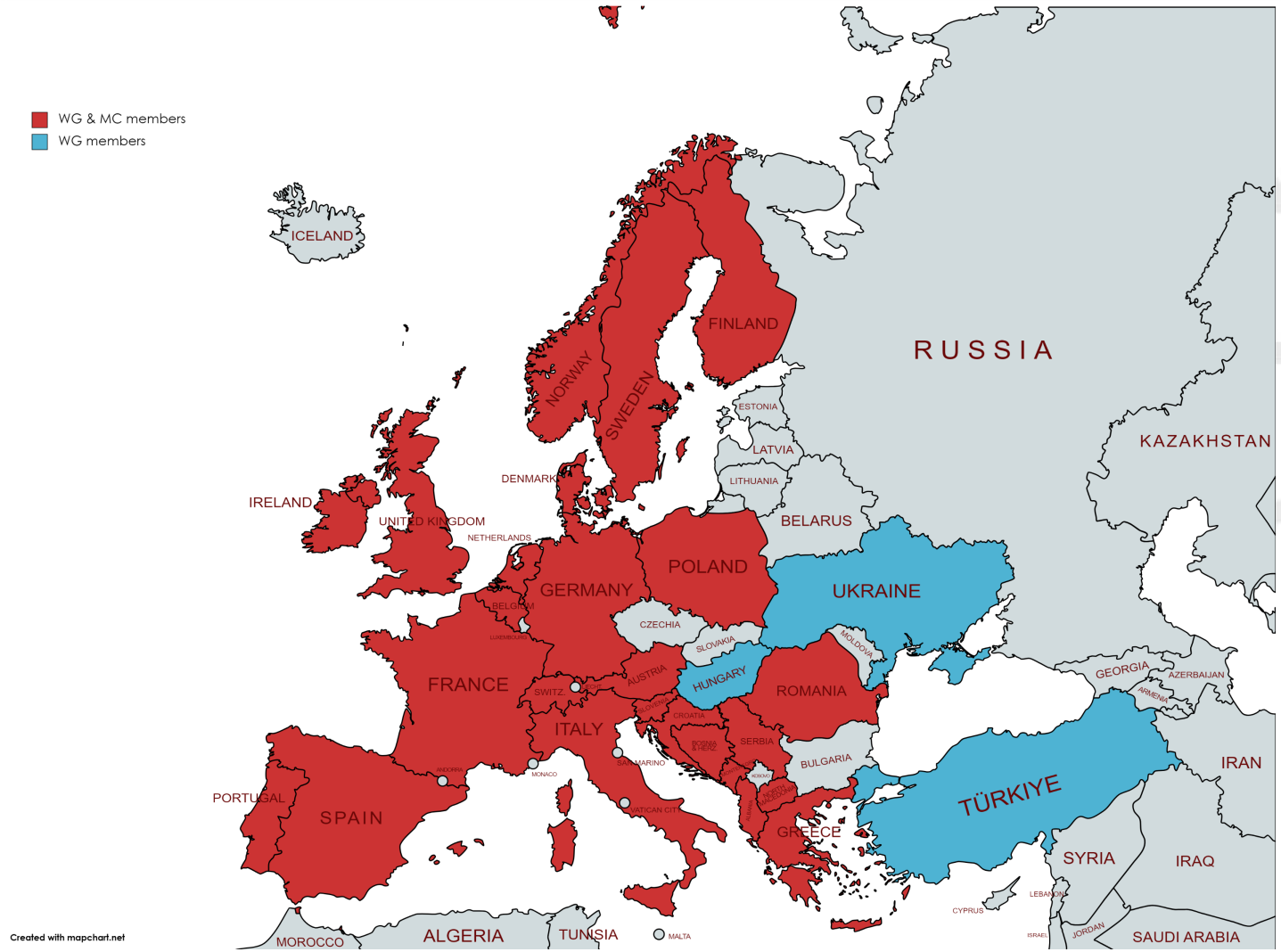
EUROPEAN COOPERATION IN SCIENCE & TECHNOLOGY

CA21132

European Swine Influenza Network (ESFLU) for the benefit of One Health

***L Dieste-Pérez**, T Tobias, G Simon, D Novosel, R Dias, S Fereidouni, G Richard, LE Larsen, G Dauphin, on behalf of ESFLU consortium*

European Swine Influenza Network (ESFLU)



WG & MC members
WG members

ESFLU: Objectives

- To facilitate **data sharing and analysis** for swIAV surveillance
- To strengthen capability for swIAV **detection and characterization**
- To establish guidelines for swIAV **management and control**
- To promote **dialog** between stakeholders
- To support **pandemic preparedness**

Swine Influenza

- Disease of **high impact** in pig production
- **Increasing** persistence and prevalence
- Swine **vaccination** coverage is inconsistent
- **Emergence** of new variants
- Non- harmonized **diagnostic** protocols
- Not notifiable, patchy **surveillance** in pigs
- **Zoonotic** risk
- Low **awareness**

ESFLU First year’s achievements

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ESFLU Cloud

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Aim

a highly contagious respiratory disease in pigs caused by
s (swIAV) which leads to production losses. The
ork production systems and free livestock movement
ters the spread of the virus in Europe. New variants, some
ential, constantly emerge. Recent human pandemics have
onotic and reverse zoonotic potential of swine influenza
th animal and public health. Despite the burdens caused
, surveillance across Europe is scanty and fragmented.
s is low in some European countries, diagnostic protocols
d, most countries lack standardised procedures and
s inconsistent. An interdisciplinary expert network is
a comprehensive view of the disease and its impacts to
ine influenza in Europe. ESFLU will:

a sharing and analysis for swIAV surveillance with national
onal agencies Establish the network as the European
terpart and support global surveillance and pandemic
s
apability in Europe to detect, identify and characterize

delines for swIAV management and control in pig herds
og between stakeholders and inform policymakers and
ublic on swine flu disease burden and the risks to public

ESFLU gathers 76 experts in an interdisciplinary One Health approach. The Action will advance scientific knowledge concerning swIAV, improve disease surveillance and management capabilities, benefit pork production and reduce risks to both animal and human health.

ESFLU First year's achievements

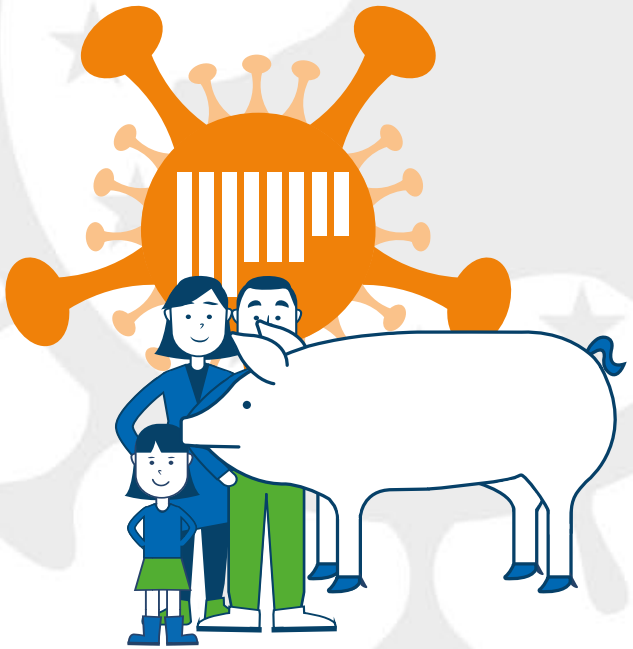
1. Vaccine efficacy literature review

2. Farmers' disease and vaccination perceptions

ESFLU First year's achievements

3. Survey on surveillance programs in Europe

4. First ESFLU report on swIAV diversity in Europe



ESFLU First year's achievements

- https://nextstrain.org/groups/ESFLU

European Swine Influenza Network Report on Swine Influenza A Viruses Evolution and Diversity in Europe from October 2022 to September 2023

Richard, Gautier[1]; Byrne, Alexander[2]; European Swine Influenza Network

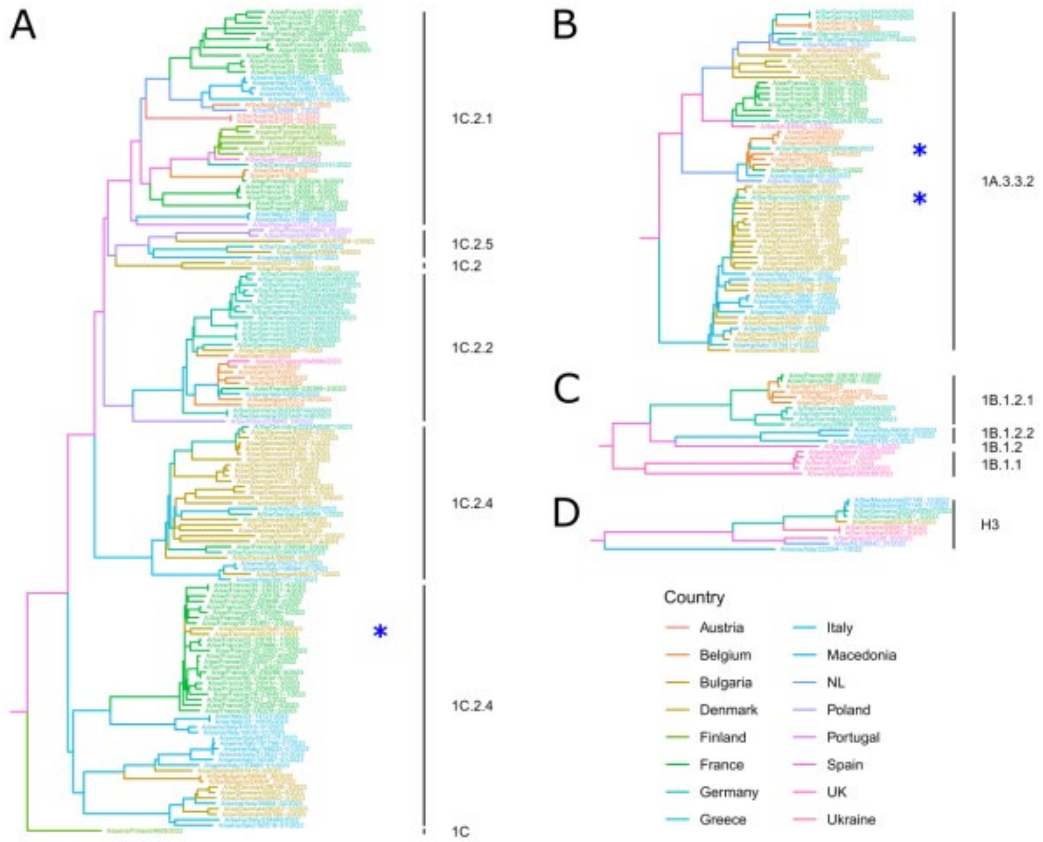
Hide affiliations

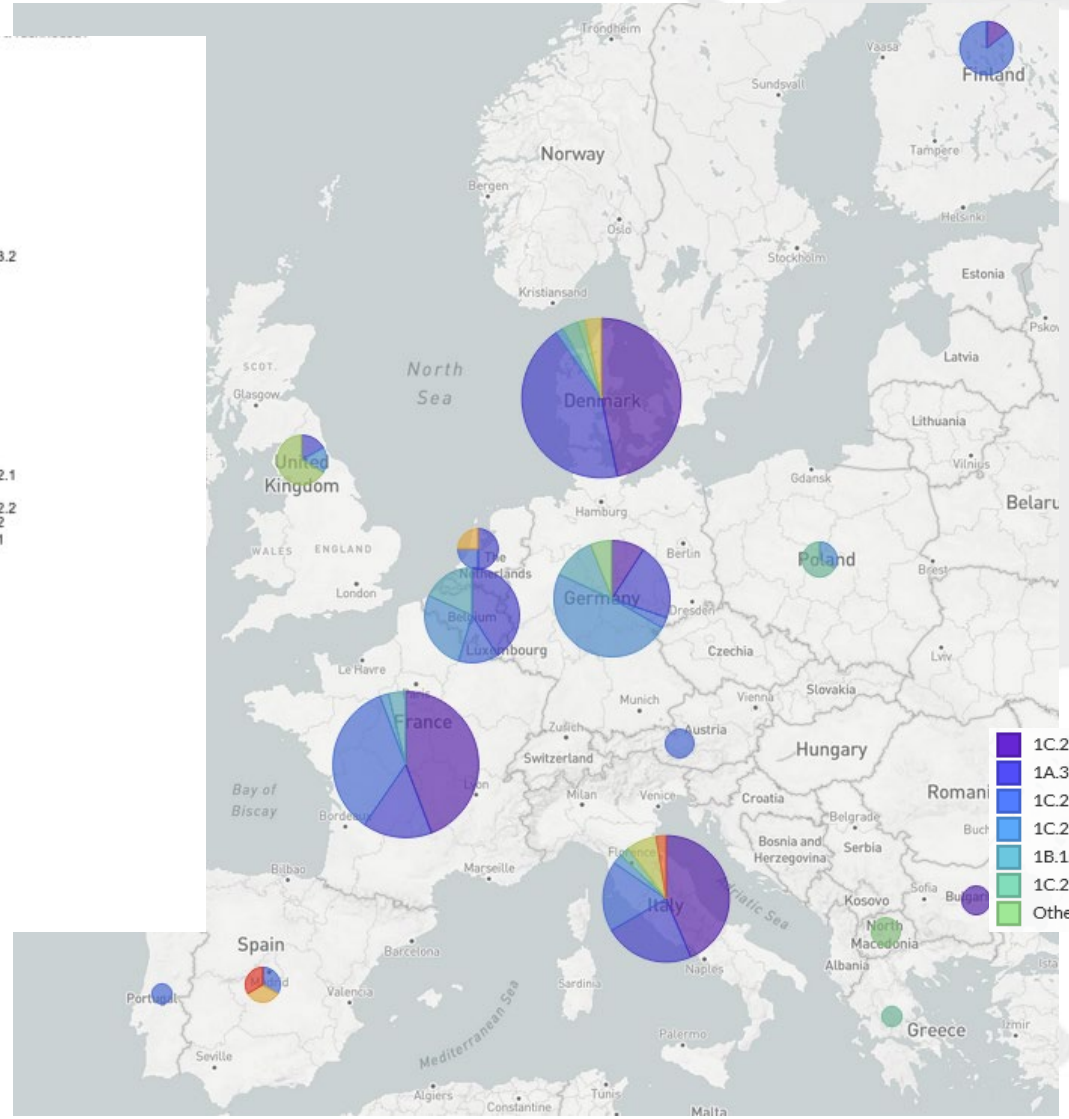
1. French Agency for Food, Environmental and Occupational Health & Safety
2. Animal and Plant Health Agency

Data collectors:

Animal and Plant Health Agency; Ceva Phylaxia; Finnish Food Authority;
French Agency for Food, Environmental and Occupational Health & Safety; Friedrich-Loeffler-Institut; Ghent University;
Istituto Zooprofilattico Sperimentale della Lombardia e dell'Emilia Romagna "Bruno Ubertini";
Istituto Zooprofilattico Sperimentale delle Venezie; Statens Serum Institut; University of Copenhagen

ESFLU First year’s achievements





Final goal

Guidelines on the prevention and control of swine Influenza

Acknowledgments

Especially to the CORE GROUP members (and to all active members)

WG1

- Sasan Fereidouni, university of Vienna, Austria
- Annika Graaf, Helmholtz Centre for Infection Research, Germany

WG2

- Alex Byrne, Francis Crick Institute, UK
- Gautier Richard, Agency for Food, Environmental and Occupational Health Safety, France

WG3

- Lars Erik Larsen, The University of Copenhagen, Faculty of Health and Medical Sciences, Denmark
- Lorena Franco, univ. Murcia, Spain
- Marie Sjölund, National Veterinary Institute, Sweden

WG4

- TijsTobias, Royal GD and University of Utrecht, the NL
- Dinko Novosel, National Veterinary Institute, Croatia

GRANT AWARDS

- Dimitris Papadopoulos, univ. Of Thessaloniki, Greece

CHAIR/VICE-CHAIR

- Katarzyna Podgórska, National Veterinary Institute, Poland
- Gwenaëlle Dauphin, Ceva Animal Health, France

Thank you for your attention !