



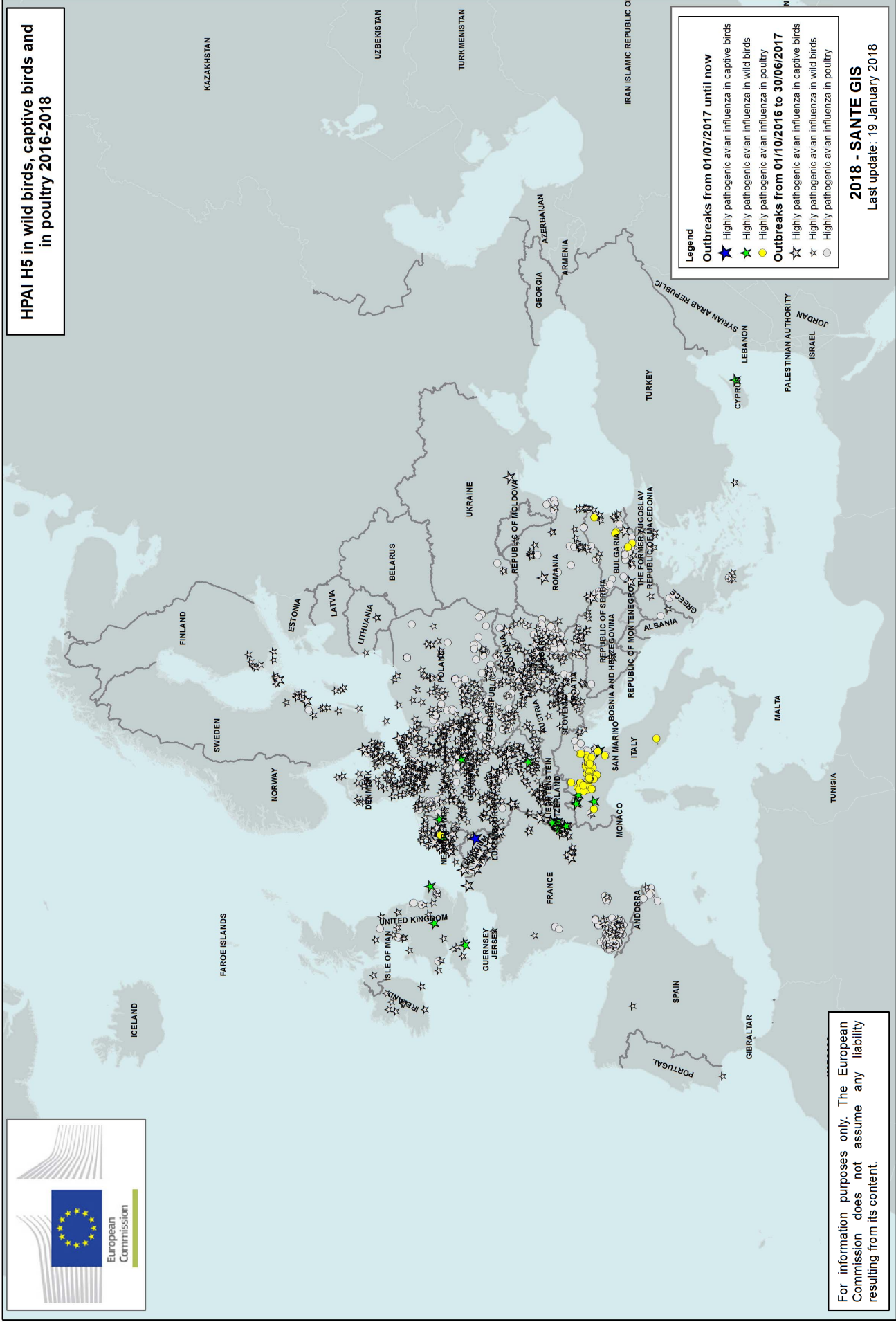
Update on avian influenza

**PAFF Meeting
17-18 January 2018**

HPAI in poultry, captive birds & wild birds 01/10/2016 -18/01/2018

MEMBER STATE	WILD BIRDS	POULTRY	CAPTIVE BIRDS
GERMANY	1261	92	15
FRANCE	72	486	3
ITALY	24	83	
NETHERLANDS	186	10	11
BELGIUM	4	2	13
LUXEMBOURG			4
UNITED KINGDOM	81	13	
IRELAND	10		
DENMARK	77	1	1
GREECE	12	6	
SPAIN	3	10	
PORTUGAL	1		
AUSTRIA	21	2	1
FINLAND	14		1
SWEDEN	38	4	2
CYPRUS	1		
CZECH REPUBLIC	49	38	1
HUNGARY	196	240	5
POLAND	303	65	
SLOVENIA	273		
BULGARIA	20	76	2
LITHUANIA	13		
ROMANIA	143	45	2
SLOVAKIA	252	9	2
CROATIA	48	11	
Total	3102	1193	63

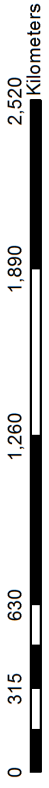
HPAI H5 in wild birds, captive birds and in poultry 2016-2018



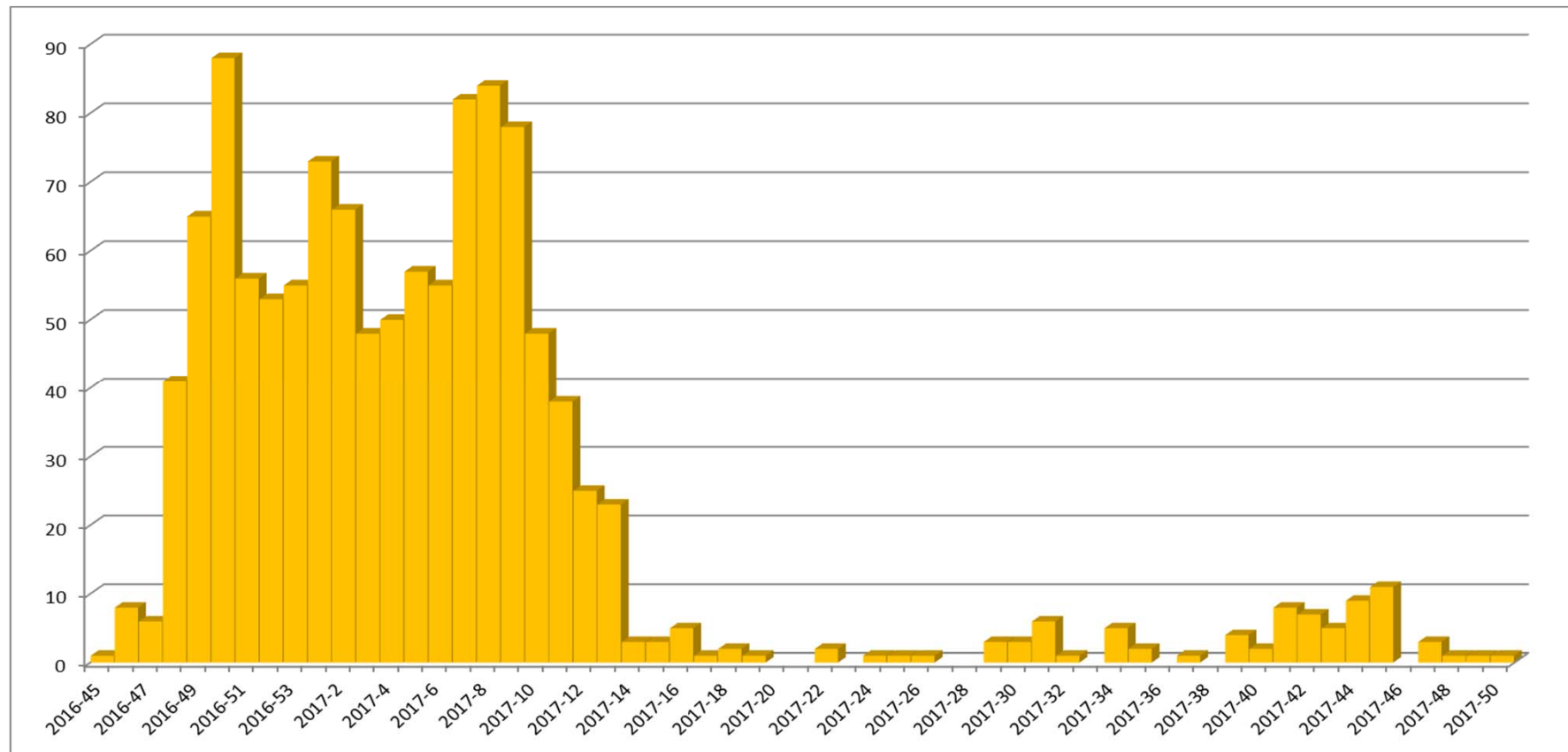
For information purposes only. The European Commission does not assume any liability resulting from its content.

2018 - SANTE GIS
Last update: 19 January 2018

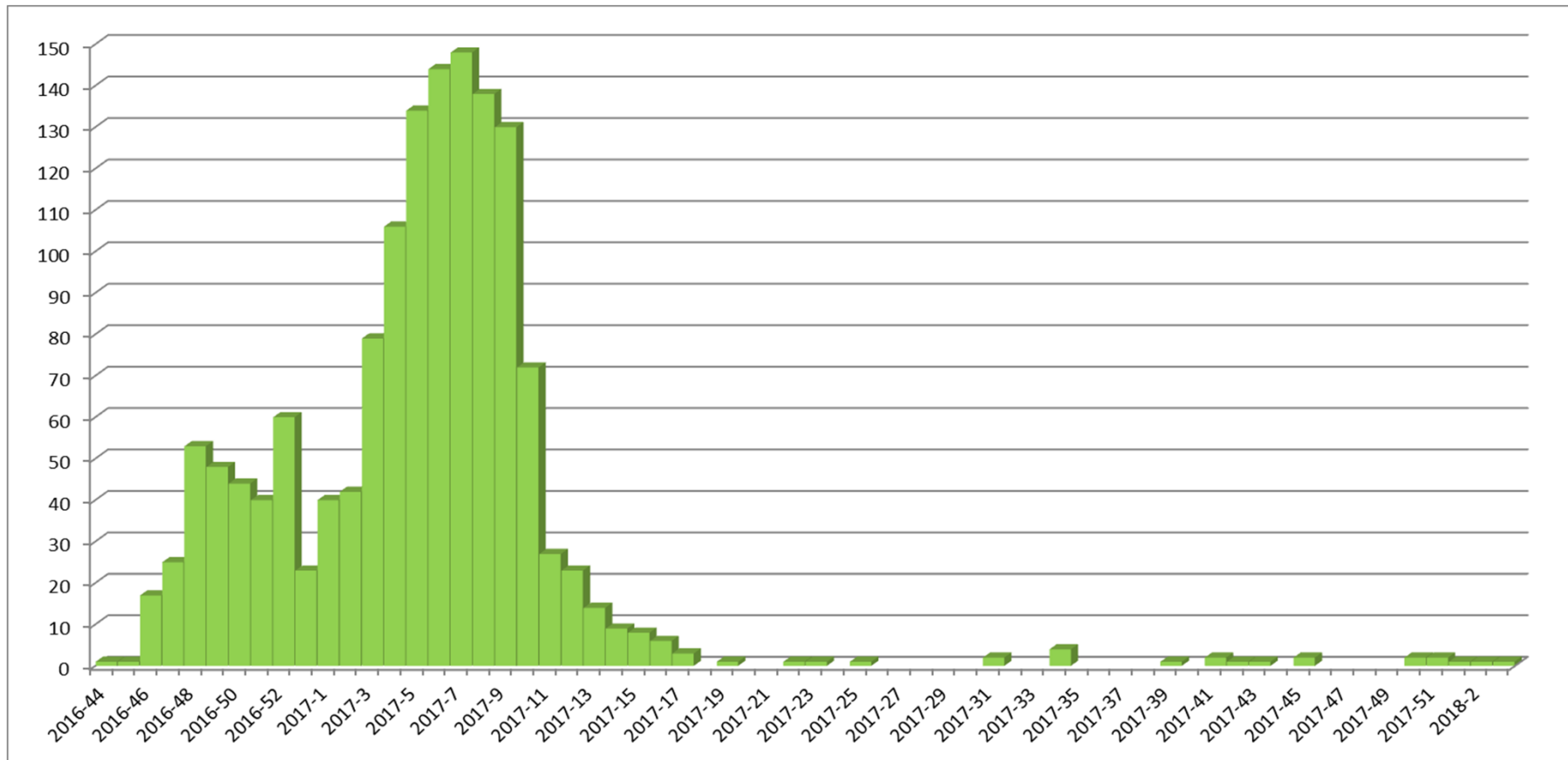
- Legend**
- Outbreaks from 01/07/2017 until now**
 - ★ Highly pathogenic avian influenza in captive birds
 - ★ Highly pathogenic avian influenza in wild birds
 - ★ Highly pathogenic avian influenza in poultry
 - Outbreaks from 01/10/2016 to 30/06/2017**
 - ★ Highly pathogenic avian influenza in captive birds
 - ★ Highly pathogenic avian influenza in wild birds
 - Highly pathogenic avian influenza in poultry



Weekly epidemic curve for HPAI H5 outbreaks in poultry reported via ADNS (01/10/2016 - 18/01/2018)

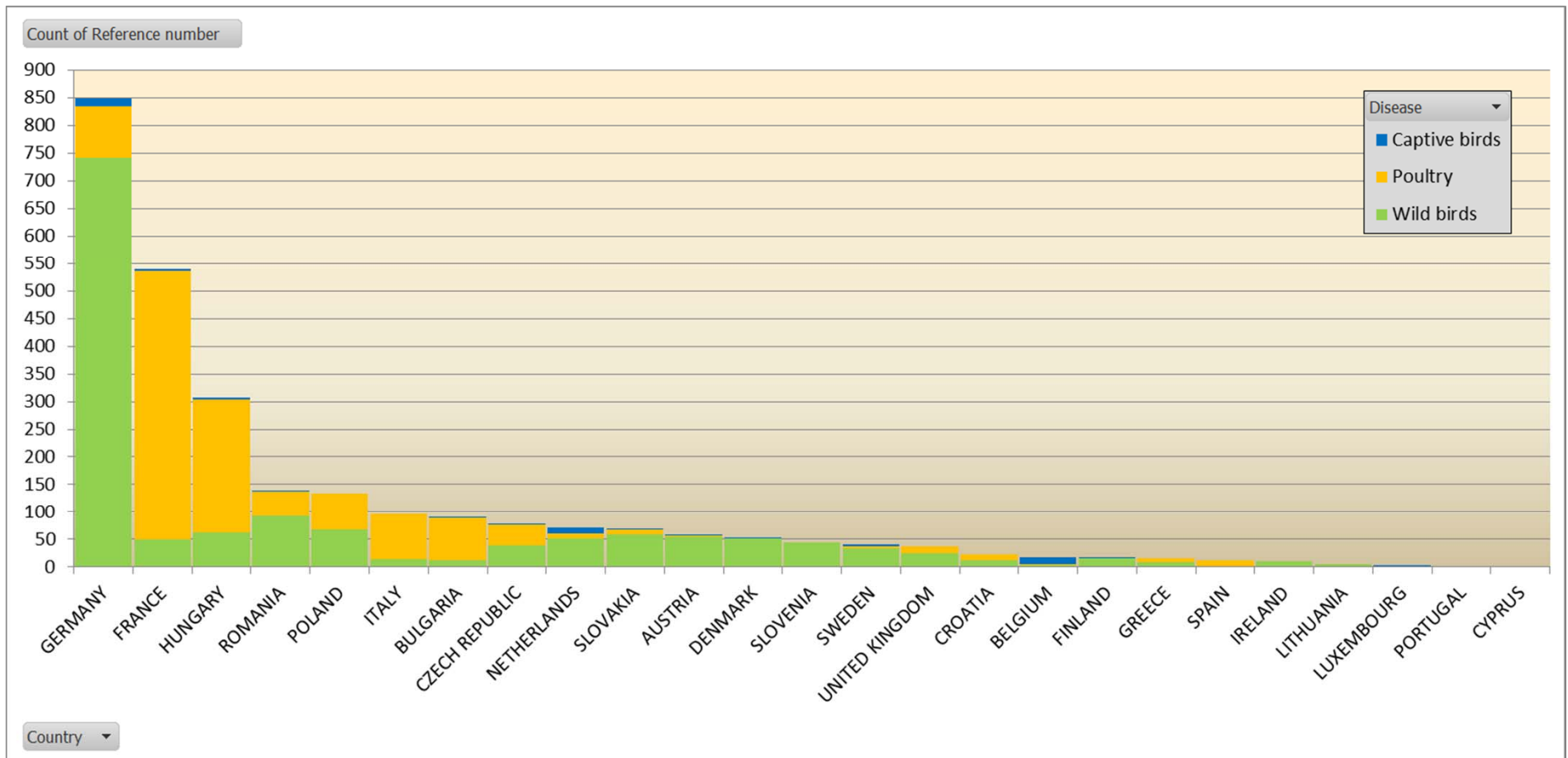


Weekly epidemic curve for HPAI H5 findings in wild birds reported via ADNS (01/10/2016-18/01/2018)





Number of outbreaks in poultry, captive birds and detections in wild birds per Member State reported via ADNS (01/10/2016 - 18/01/2018)





Different HPAI virus strains

- **HPAI H5N8:** predominant strain in 2016/17
- **Virus persistence over the summer period** in wild bird(poultry) reservoir, the environment?
- **HPAI H5N5:**
 - 18 detections reported in 10 MS
 - 5x in poultry (DE, HR), 14x in wild birds (AT, DE, EL, IT, NL, PL, SI) and 1x captive birds in CZ
 - Montenegro 2x wild birds
- **HPAI H5N6:** Greece 1x in poultry March 2017
- **HPAI H5N1:** France 1x in poultry, most likely residual from previous outbreaks



HPAI H5N6 detections in wild birds since 01/12/2017 – all found dead

Member State	Date of confirmation	Location	Bird species
Netherlands	09-18/12/2017	Flevoland	12 mute swans (Cygnus olor)
Germany	04/01/2018	Bavaria	Wild duck found dead
United Kingdom	09/01/2018	Dorset county	23 mute swans (Cygnus olor) 1 Canada goose (Branta canadensis) 1 pochard (Aythya ferina)
	17/01/2018	Warwickshire county	13 positive birds in die-off of 68: 6 great black-backed gulls (Larus marinus) 1 herring gull (Larus argentus) 1 great crested grebe (Podiceps cristatus) 5 tufted ducks (Aythya fuligula)
Switzerland	28/12/2017	Bern	1 mute swan (Cygnus olor)



HPAI **H5N6** strain in the EU since 12/2017

- Poultry & captive birds (NL)
- Wild birds (NL, DE, UK, CH)
- Does this virus cause less wild bird mortality?
Less virus present? Fewer dead wild birds found?
- Did wild birds acquire immunity to HPAI H5N8? Is there cross protection to the new strain?
- Do Member States carry out wild bird surveillance at same level as last winter?

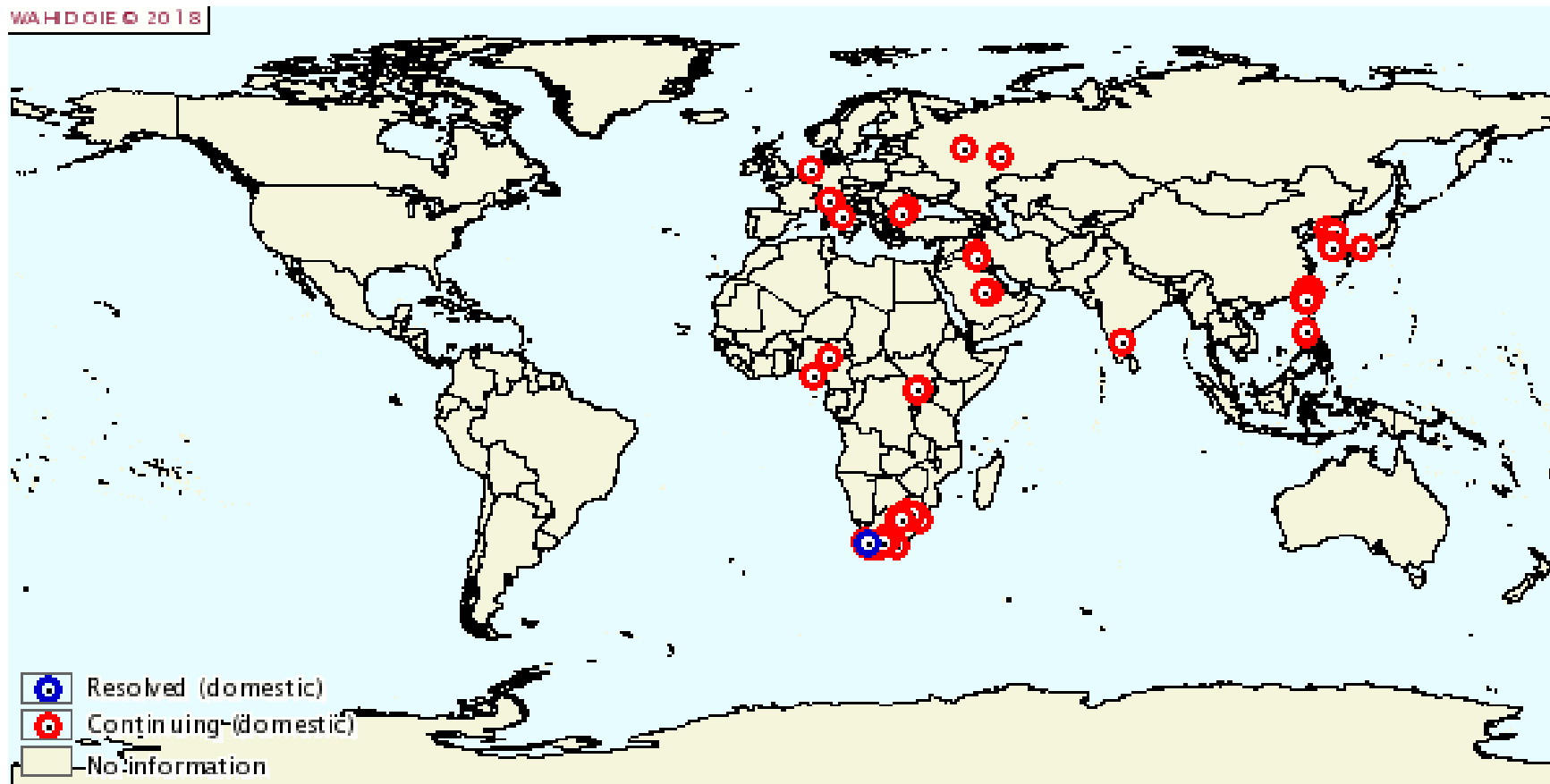


EU: H5N6 HPAI virus characteristics

The EU Reference Laboratory for avian influenza performed a detailed genetic analysis of a small number of viruses recently detected in Europe and Asia, which shows that:

- European strains **can be differentiated from strains associated with zoonotic infection in Asia**
- They **do not carry any virulence markers** strongly associated with human infection risk
- To date, there are **no reported human infections** with this particular genetic sub-lineage of H5N6 HPAI

HPAI worldwide 01-15/01/2018



H5N8: including in Irak, Afghanistan, Saudi Arabia, DRC, West Africa, South Africa, Zimbabwe, India, Iran and Egypt (+H5N1)

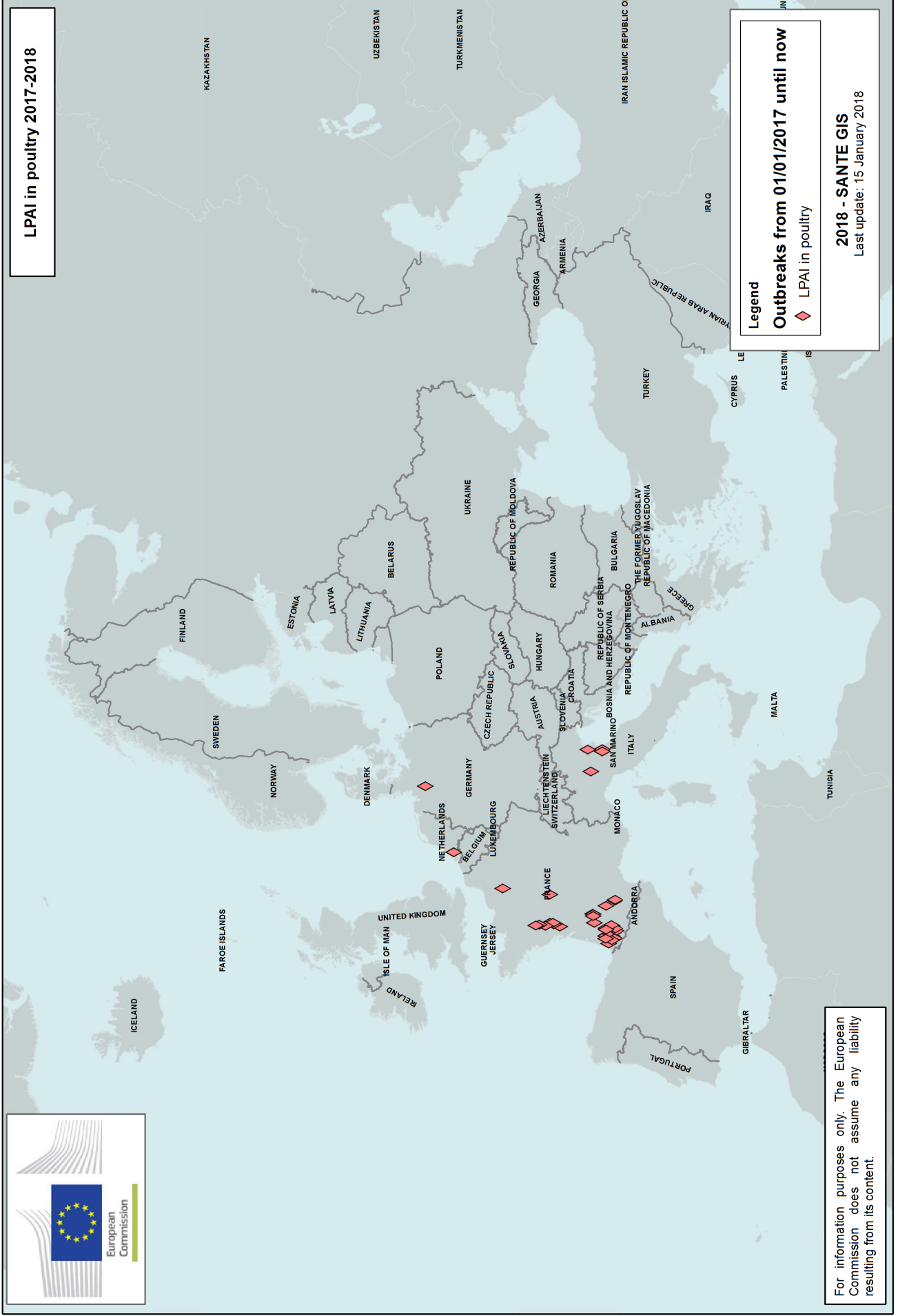
H5N6: Japan, Philippines (first HPAI outbreak) Korea: recent appearance of a 'European' strain in the Far East.

H5N2: Russia (MoU on virus exchange)

LPAI H5/H7 in poultry 2017-18

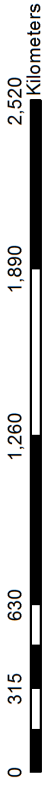
Member State	Poultry	Subtypes
GERMANY	1	H5N2
FRANCE	34	H5N1 H5N9 H5N3 H5N2 H5N8 1x H7N
ITALY	6	H5N1 H5N2
NETHERLANDS	1	H5N2
Total	42	6 subtypes

LPAI in poultry 2017-2018



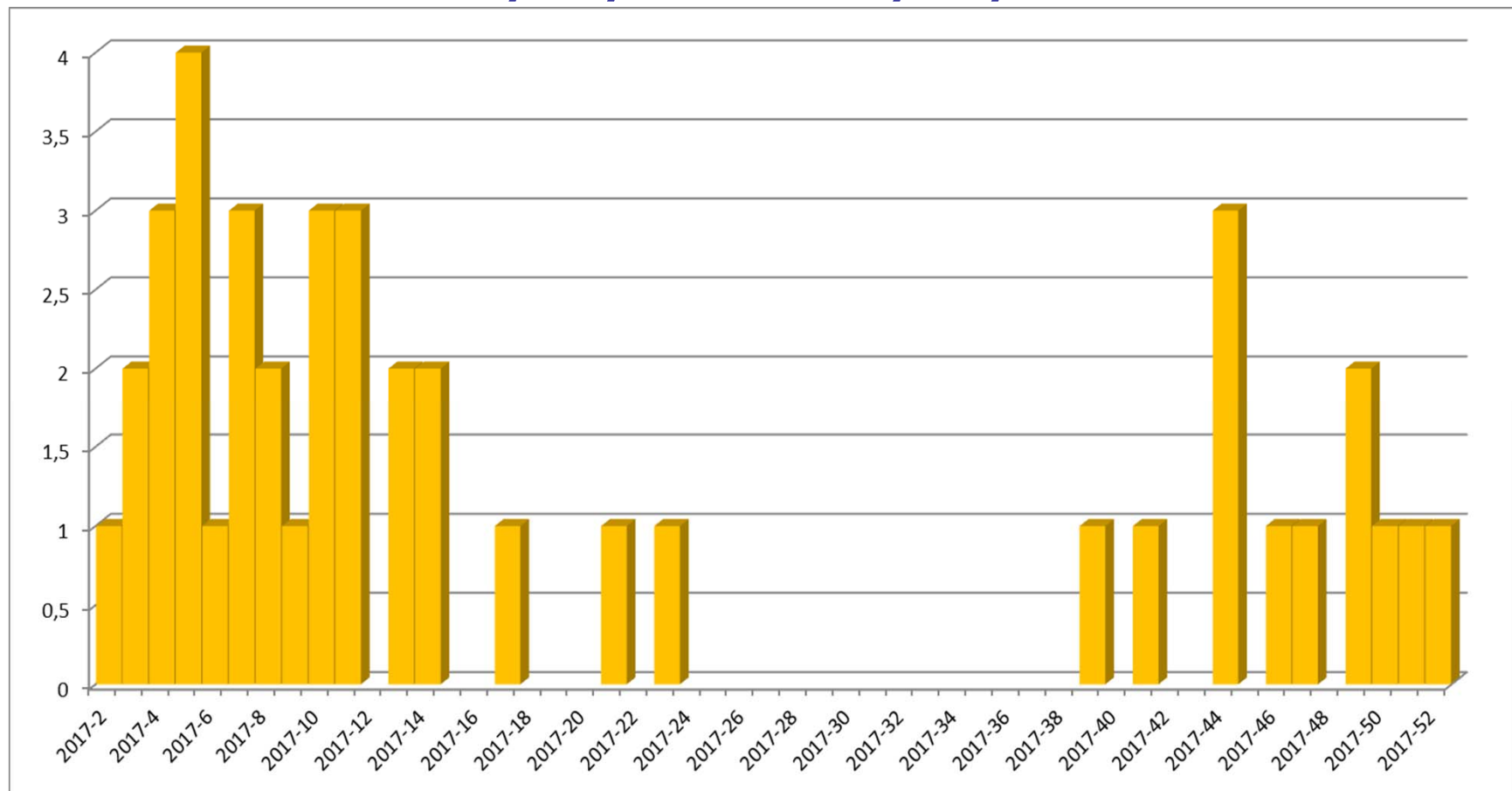
Legend
Outbreaks from 01/01/2017 until now
◆ LPAI in poultry

2018 - SANTE GIS
Last update: 15 January 2018



For information purposes only. The European Commission does not assume any liability resulting from its content.

Weekly epidemic curve for LPAI H5 outbreaks in poultry 01/01/2017 - 18/01/2018





Scientific advice on avian influenza

Animal health:

European Food Safety Authority (EFSA)

10/2017: Publication of scientific opinion on AI and two quarterly scientific reports (10/2016-11/2017) on the situation in the EU and world-wide:

<https://www.efsa.europa.eu/en/press/news/171016>

Human health:

European Center for disease prevention and control (ECDC)

<https://ecdc.europa.eu/en/avian-influenza-humans/threats-and-outbreaks/risk-assessments>



Influenza : the human/animal interface – One health approach

Second G7 CVOs Forum, Rome, Italy, 5/10/2017 - CVOs document on avian influenza:

- http://www.salute.gov.it/imgs/C_17_notizie_3118_listaFile_itemName_1_file.pdf
- <http://www.izsvenezie.com/avian-influenza-institutions-and-authorities-work-together/> (presentations)

Flu preparedness CVO/CMO meeting 23-24 October 2017

EFSA, ECDC, OIE, WHO, FAO on intersectoral collaboration for enhanced :

- https://ec.europa.eu/food/animals/animal-diseases/control-measures/avian-influenza_en

Simulation exercises at EU/Member State level, COM, agencies, international observers



Thank you for your attention

DG Health and Food Safety

https://ec.europa.eu/food/animals_en

EFSA:

<http://www.efsa.europa.eu/en/press/news/171016>

ECDC:

<https://ecdc.europa.eu/en/avian-influenza-humans>