



Lumpy skin disease (LSD) & Sheep Pox

State of play in the EU

Animal Health Advisory Committee

18 December 2017 , Brussels - Belgium

*Dimitrios DILAVERIS
European Commission
Directorate-General for Health and Food Safety
G3 – Official controls and eradication of diseases in animals*



Lumpy skin disease (LSD)

- **LSD occurrence in SE Europe**
- **LSD vaccination in SE Europe**
- **LSD measures in the EU**
- **European Commission support against Lumpy Skin Disease**
- **Recent Activities - Future priorities**
- **Concluding remarks**

LSD occurrence in SE Europe

LSD epidemiological situation January – early December 2017 (ADNS + country reports)

LSD outbreaks in SE Europe (Jan – early Dec 2017)

- **Albania: 494**
(ADNS, 160 with a suspicion date in 2017)
- **Greece : 2** (ADNS)
- **FYROM : 4** (ADNS)



● LSD outbreaks
Jan – early Dec 2017(ADNS)

LSD in SE Europe: Situation as at early December 2017

LSD outbreaks in 2017 :

- Albania : outbreaks reported in Jan-Feb 2017 (with a reducing trend), no outbreaks in March, recurrence from April with increasing number of outbreaks (in total 494 outbreaks reported in ADNS from Jan-Sep 2017, 160 with a suspicion date in 2017)
- Sporadic outbreaks:
 - ✓ 4 in the former Yugoslav Republic of Macedonia (1 on January and 3 on April without further spread)
 - ✓ 2 in Greece (1 on March in the island of Corfu - not included in the areas where vaccination was implemented) and one in August in Karditsa (mainland, no secondary spread).

LSD vaccination in SE Europe

2015

- LSD vaccination in the ***North – Eastern Provinces of Greece***

2016

- All LSD affected countries (***Greece, Bulgaria, the former Yugoslav Republic of Macedonia, Serbia, Kosovo*, Albania, Montenegro***) implemented mass vaccination of all their cattle against LSD in their entire territory.
- ***Croatia***, not affected by LSD, became the 1st country to implement preventive vaccination of its entire country population against LSD (July 2016)

2017

- All countries in SE Europe that vaccinated against LSD in 2016 repeat vaccination in 2017 (annual revaccination + vaccination of newborn animals, campaigns completed or in progress).
- ***Bosnia and Herzegovina***, not affected by LSD, began implementing preventive vaccination against LSD since 2017 (2nd country to implement preventive vaccination after Croatia).

NOTE :

- In all cases the vaccines used in the above countries were **live, homologous vaccines against LSD** imported from outside the EU.
- In most cases occurrence of new LSD outbreaks in affected countries as above stopped within 1 month following proper completion of their vaccination campaign



European
Commission

LSD vaccination in SE Europe


LSD vaccination in South East Europe – Situation as at mid- October 2017

Vaccination completed since 2016 (annual revaccination in progress) or completion of primary vaccination:

- Bulgaria
- Greece (Northern part)
- Serbia
- FYROM
- Montenegro
- Kosovo
- Croatia
- Albania

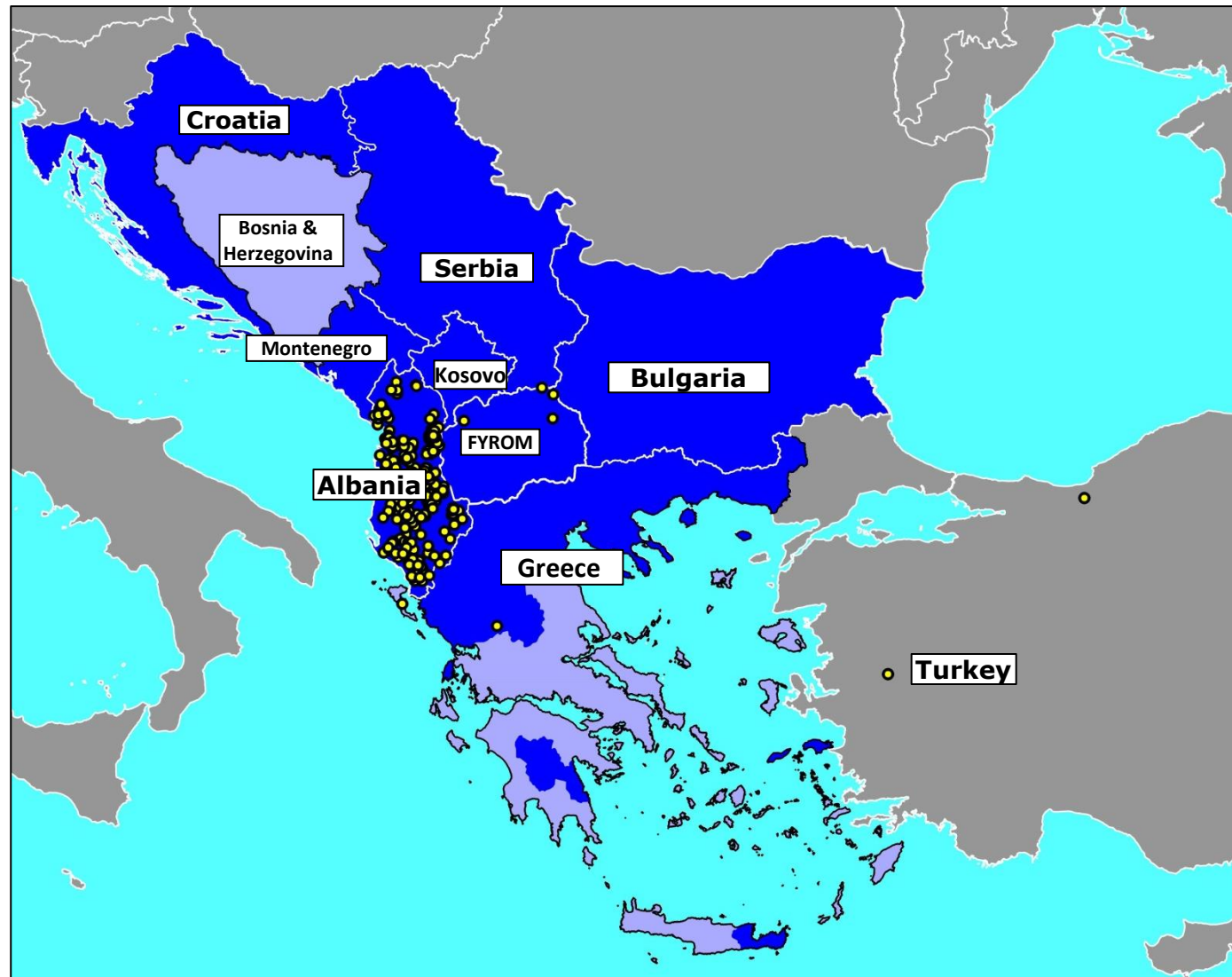
Vaccination in progress in

- Southern part of continental Greece & islands
- Bosnia & Herzegovina

 Annual revaccination in progress or completion of primary vaccination

 Primary vaccination in progress

 LSD outbreaks as at 1 Jan-15 Oct 2017 (ADNS)



LSD in SE Europe: Observations in 2017

- Vaccination, as implemented so far in SE Europe (mass vaccination with live homologous vaccines according to manufacturer's directions) seems to have worked well since there is :
 - No further spread of LSD in 2017 , beyond the previously affected countries in 2016 , throughout the LSD high risk season (April – todate)
 - No new LSD outbreaks reported in those affected countries where full vaccination coverage has been achieved

However

- The virus is still present (Albania, the former Yugoslav Republic of Macedonia, Greece)
- Non immune animals remain at risk of infection, even in areas with relatively high vaccine coverage
- On special occasions the disease can move within the same country with outbreaks occuring in areas where it was not present before (e.g. Karditsa – Greece)
- Areas with partial vaccine coverage are at high risk of LSD recurrence, even if surrounded by fully vaccinated areas
- LSD in South East Europe demonstrates constant seasonality so far (high risk of recurrence from April onwards)

LSD measures at EU level

- **Dir. 92/119/EEC** ⇒ **LSD control measures**
(COUNCIL DIRECTIVE 92/119/EEC of 17 December 1992 introducing general Community measures for the control of certain animal diseases and specific measures relating to swine vesicular disease)

- COMMISSION IMPLEMENTING DECISION **EU (2016)/2008**, of 15 November 2016 **concerning animal health control measures relating to lumpy skin disease in certain Member States** (notified under document C(2016) 7023)
(amended by Commission Implementing Decisions (EU) **2017/1178** & **2017/1460**)

Amendments related to zoning, and refinement of measures for germinal products and holdings subject to revaccination.

- COMMISSION IMPLEMENTING DECISION **(EU) 2016/2009** of 15 November 2016 **approving the vaccination programmes against lumpy skin disease submitted by the Member States** (notified under document C(2016) 7219)

Commission Implementing Decisions on LSD

Zoning

Part I : free zones with vaccination (areas where no LSD outbreak has occurred , subject to no LSD restrictions where an LSD vaccination programme is implemented)

- **Croatia** (LSD never occurred, preventive vaccination in progress)
- **Certain areas of Bulgaria** , East and North (areas where no LSD outbreaks occurred , 100% vaccination of cattle has already been completed and no outbreaks occurred at 20 km distance)
- **Certain areas of Greece** (**islands except Limnos and Kerkyra**)

Part II: infected zones (areas where LSD outbreaks were confirmed , subject to the implementation of an LSD vaccination programme)

- **the rest of Bulgaria** (excluding the areas in Part I)
- **part of Greece** (continental Greece and Limnos & **Kerkyra** islands).

LSD measures at EU level


LSD zoning - Commission Implementing Dec. (EU) 2016/2008 (as amended)

Free zones with Vaccination (Part I):

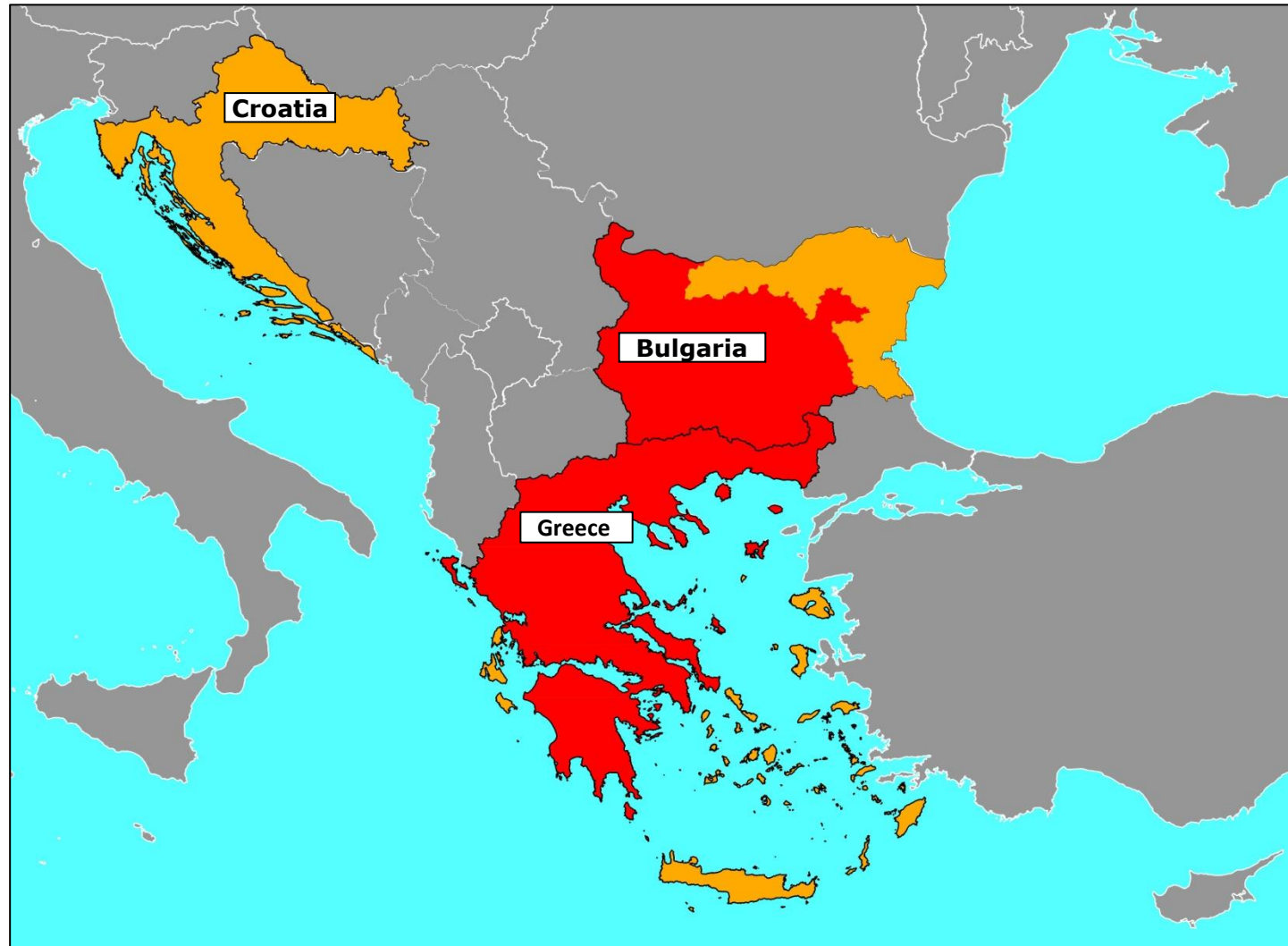
- Croatia
- Bulgaria (certain areas in the North and East part)
- Greece (islands except Kerkyra and Limnos)

Infected zones (Part II):

- Continental Greece (including the islands of Limnos and Kerkyra)
- Bulgaria (excluding the "free with vaccination" zones)

 Free with
Vaccination zone

 Infected zone



EU support against LSD

European Commission support against Lumpy Skin Disease

- **EU LSD vaccine bank** (*vaccine donations to various countries in 2016-2017*)
- **EU financial support**
 - *For EU Member countries* : reimbursement for the cost of control measures (e.g. stamping out e.t.c) + cost of LSD homologous vaccines purchased and used through national procedures up to 1,1 EURO per dose
 - *For non EU Member countries* : reimbursement for the cost of LSD homologous vaccines purchased and used through national procedures up to 1,1 EURO per dose
- **LSD training activities**
 - ❑ **LSD Workshop (12-14 Dec 2017, Kiev, Ukraine)**
 - ❑ **LSD Sustained Technical Missions (STMs) in Ukraine , Georgia, Turkey (planned for 2018)**
- **Scientific support: EFSA Opinions on LSD** (2 opinions & 1 report published so far, **1 more report due for early 2018**) <https://www.efsa.europa.eu/en/topics/topic/lumpy-skin-disease>
- **Appointment of EU Reference Laboratory (EURL) for Diseases caused by Capripox viruses** (including LSD) **CODA – CERVA, Belgium** (COM Reg (EU) 2017/140 of 26 January 2017)

Support for NRLs of MS & non EU-MS in the region of or close to SE Europe: **Proficiency test 2017 , Trainings in 2017** (LSD clinical signs + lab techniques), **2017 Annual Meeting of Capripox NRLS** (5-6 Oct 2017 ,combined with the meeting of the PPR EURL) e.t.c.

European Union Lumpy Skin Disease Vaccine Bank 2017 grants

Country	Number of doses granted	Delivery date
Bosnia & Herzegovina	100.000	April 2017
Montenegro	45.000	April 2017
Greece	70.000	June 2017
Albania	55.000	June 2017
Kosovo*	55.000	June 2017

**325.000 doses of LSD vaccine (*live-homologous*)
granted in 2017 to various countries**



Regional Coordination on LSD

Standing Group of Experts on Lumpy Skin Disease in the South East Europe region under the GF-TADs umbrella

(Albania, Bosnia and Herzegovina, Bulgaria, Croatia, Cyprus, the former Yugoslav Republic of Macedonia, Greece, Hungary, Israel, Kosovo, Montenegro, Romania, Russia, Serbia, Slovenia, Turkey)*

- 1st Meeting in Brussels on 4-5 July 2016
- 2nd meeting in Lisbon (Portugal) on 21 September 2016
- 3rd meeting in Istanbul, (Turkey) on 12-13 December 2016
- **Teleconference on LSD vaccine procurement , 23 February 2017**
- **4th meeting in Paris , 24 May 2017**
- **5th meeting in Budva (Montenegro), 19-20 October 2017**

http://web.oie.int/RR-Europe/eng/Regprog/en_GF_TADS%20-%20Standing%20Group%20LSD.htm

Current state of play

➤ **Coordinated vaccination control policy against LSD**

Mass vaccination, with live homologous vaccines, uniformly adopted across South East Europe (EU + non EU countries) with support from the EU (vaccines from the EU vaccine bank + financial assistance for vaccine purchase)

➤ **Disease notification**

All affected countries in SE Europe, including non EU-Members, report LSD outbreaks on the Animal Disease Notification System of the EU (ADNS)

➤ **Sharing of information- planning coordination**

Regular regional meetings of the GF-TADs LSD group (presentations, discussions , exchange of info)

➤ **Creation / renewal of emergency (National) stocks of LSD vaccines**

In progress/completed in at least 2 EU Member States (*Austria & Hungary*), *cooperation between neighbouring countries (e.g. vaccine transfer from Hungary to Bulgaria)*

Future activities

Recent Events – Activities in the pipeline

- **EU LSD vaccine bank:**
 - ✓ **Expansion – replenishment in progress (contract signed on June 2017 for 2,34 million doses).**
 - ✓ **New tender for LSD vaccines planned for launch in the direct future (<https://etendering.ted.europa.eu/general/page.html?name=home>)**

- **EFSA : request submitted by DG SANTE for updated epidemiological analysis of the LSD data (EU MS affected ± at risk & non EU Member countries)**
 - 1st report published April 2017.
 - **2nd report due for early 2018**

- **NEW OIE CODE CHAPTER ON LSD (adopted May 2017 – 85th Gen Session)**
Important new elements
 - Safe commodities : skeletal muscle meat e.t.c.**
 - Recovery of free status - separate rules for:**
 - **Affected countries** implementing stamping out
 - **Affected countries** not implementing stamping out
 - **Non affected countries**, implementing **preventive vaccination**

EC Priorities for LSD in SE Europe

The European Commission will continue to :

- Provide **technical assistance** (for EU and non EU Member Countries) will continue to be provided through CVET expert missions
- Provide **training opportunities** (for EU and non EU Member Countries) e.g. through the BTSF initiative.
- Support the **regional vaccination policy** against LSD
- Promote **regional coordination and cooperation** for the control of LSD
- Follow closely :
 - ✓ the LSD epidemiological situation (South East Europe + West Eurasia) in order to take prompt action, as and when needed, to prevent entry / spread into the EU.
 - ✓ the scientific knowledge on LSD (EURL-EFSA) and use it to further refine / optimise the LSD control measures
 - ✓ the discussions on the LSD measures at international level with a view to minimise the impact of trade restrictions).

Concluding remarks

- **LSD situation has greatly improved in 2017** compared to 2016
- **Regional approach** figures as the key to successful LSD control
- LSD, so far demonstrates **persistence** and **constant seasonality**.
- **Mass vaccination** uniformly implemented, using efficient vaccines, remains the most important control policy against LSD. **Preventive vaccination** is still the most effective method to control LSD spread.
- **Availability of sufficient vaccine doses** is the key for the successful implementation of vaccination programmes.
- **There are still many gaps in our knowledge for LSD** (transmission, spread, overwintering, duration of vaccine immunity e.t.c)



Sheep and Goat Pox (SGP)

**Recurrence of Sheep Pox
in the island of Lesbos (Greece)**

- **Background**
- **Sheep Pox in Lesvos island (Greece)**
- **Control Measures**
- **Current Situation**

Background - Previous occurrence of Sheep Pox in the EU

➤ **Greece**

Mainland : Last outbreak in February 2015

Lesvos Island : Last outbreak in October 2013

Recurrence in Lesvos :

December 2016 – Jan 2017

September – December 2017

➤ **Bulgaria**

Last outbreak in October 2013

➤ **Turkey**

Disease endemic – ongoing vaccination

Sheep Pox Recurrence

SGP epidemiological situation Dec 2016 – Dec 2017 (ADNS)

SGP outbreaks reported
in the ADNS system
(Dec 2016 – Dec 2017)



● SGP outbreaks
Dec 2016 – Dec 2017 (ADNS)

Sheep Pox Recurrence

Sheep Pox recurrence in Lesvos Dec 2016 - Dec 2017 (ADNS)

SGP outbreaks in Lesvos *(Dec 2016– Dec 2017)*

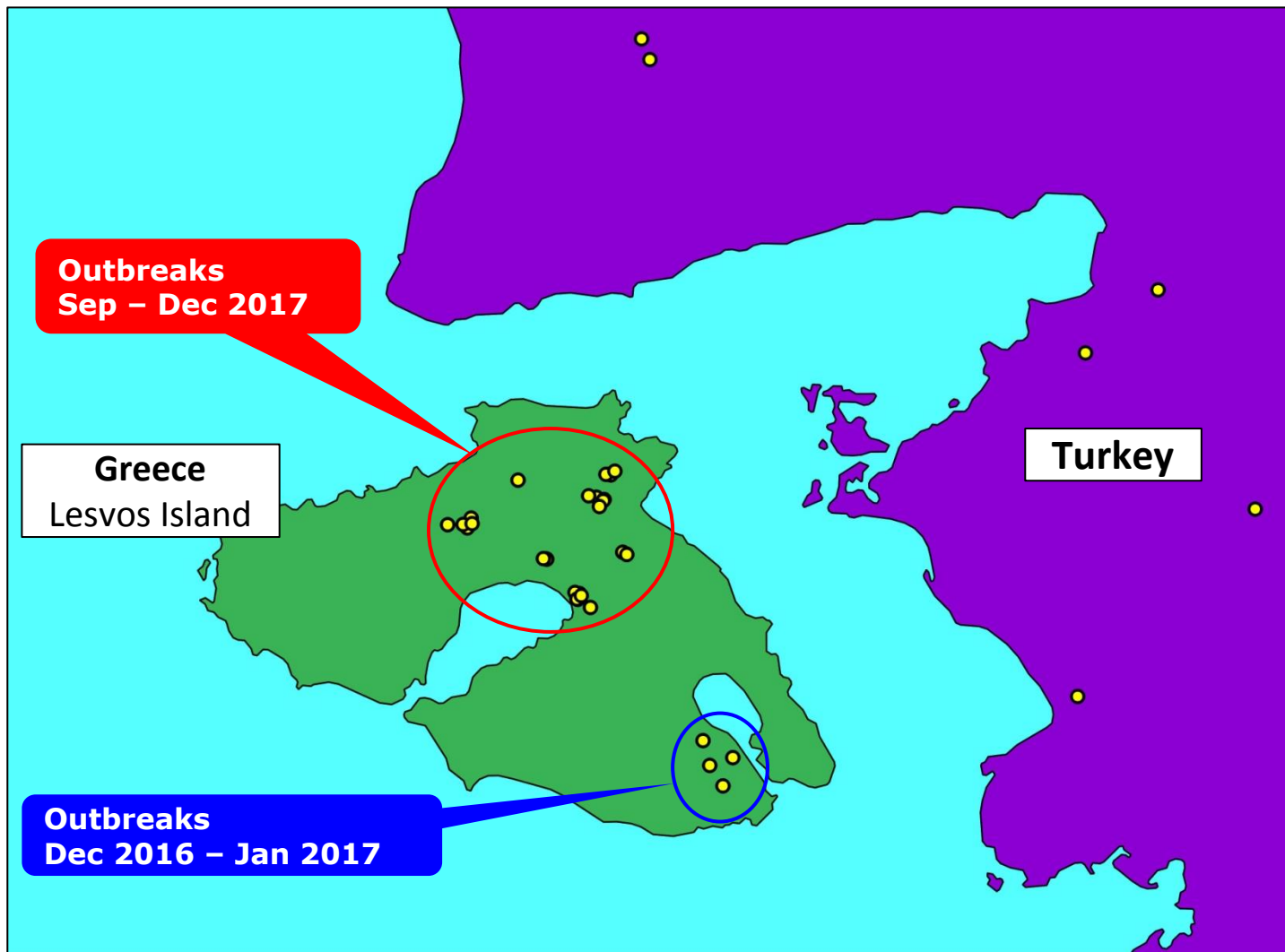
➤ Dec 2016 - Jan 2017:

4 outbreaks
801 animals

➤ Sep – Dec 2017 :

28 outbreaks
4991 animals

 SGP outbreaks
Dec 2016 – Dec 2017 (ADNS)



Control Measures

- **Dir. 92/119/EEC** ⇒ **SGP control measures**
(COUNCIL DIRECTIVE 92/119/EEC of 17 December 1992 introducing general Community measures for the control of certain animal diseases and specific measures relating to swine vesicular disease)
 - *Stamping out (killing and disposal) of all susceptible animals in the holding*
 - *Cleaning-disinfection*
 - *Establishment of protection (min 3 km) and surveillance (min 10 km) zones around outbreaks*
 - *Vaccination prohibited*

- **Additional measures taken by the Greek Authorities**
 - Prohibition of dispatch of small ruminants from the entire island of Lesbos
 - Standstill (prohibition of all movements) in the entire island of Lesbos
 - Declaration of Lesbos in state of emergency (mobilisation of additional personnel and resources)

- **Community Veterinary Emergency Team**
Mission for Sheep Pox in Lesbos : 22-24 November 2017 (technical assistance)

Current situation

- **Sheep Pox in Lesvos seems to be in decline since late November 2017**

Last outbreak: **10 Dec 2017** (*Suspicion 7 Dec 2017*)

- **Most additional measures + vigilance remain in place until disease clearance is ensured**



European
Commission

THANK YOU !!!!