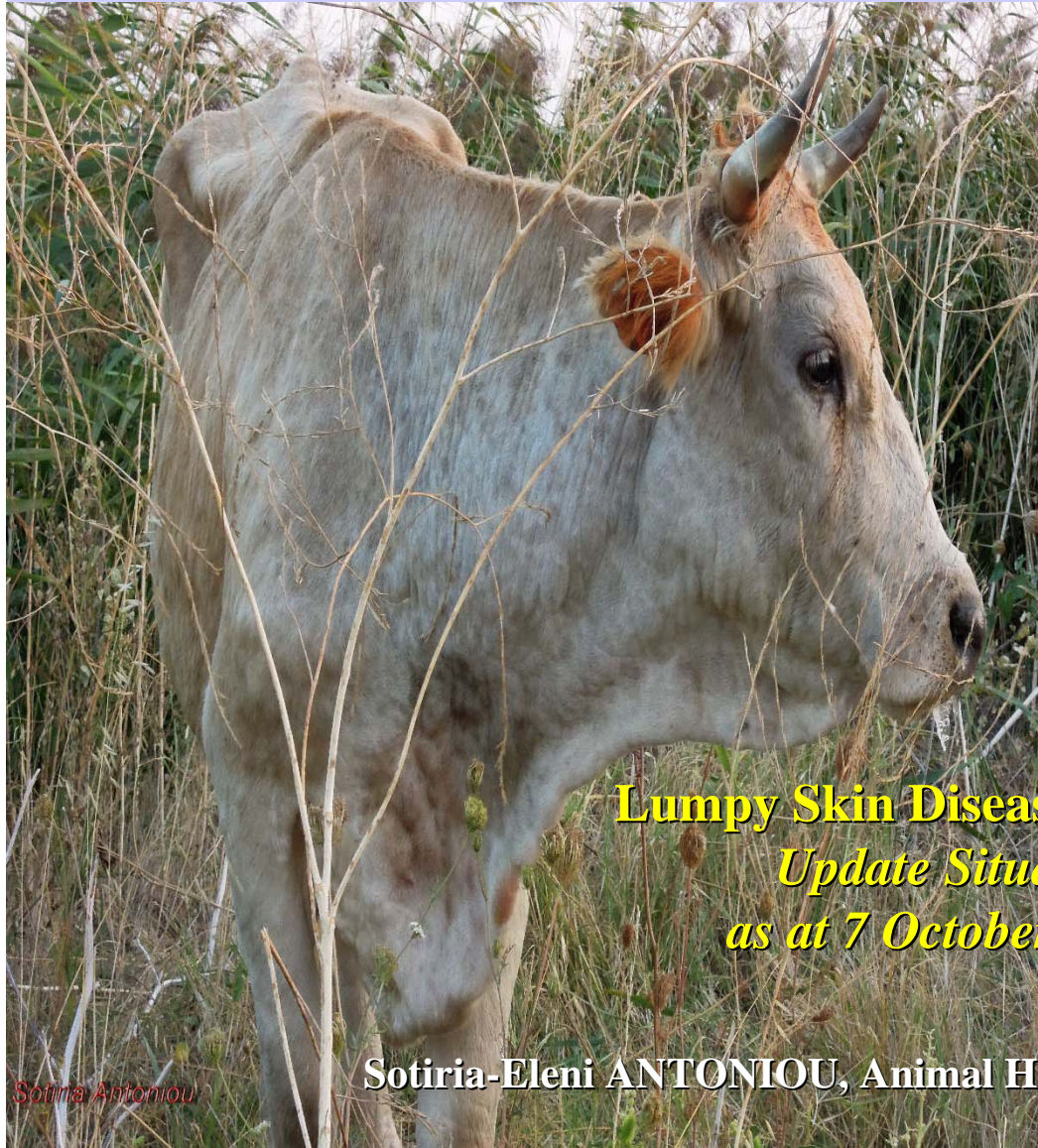




HELLENIC REPUBLIC
MINISTRY OF RURAL DEVELOPMENT AND FOOD
DIRECTORATE GENERAL OF SUSTAINABLE ANIMAL PRODUCTION & VETERINARY MEDICINE
ANIMAL HEALTH DIRECTORATE - DEPT. OF INFECTIOUS DISEASES



Lumpy Skin Disease in Greece
Update Situation
as at 7 October 2015)

Sotiria Antoniou

Sotiria Antoniou

Sotiria-Eleni ANTONIOU, Animal Health Directorate /Dept. of Infectious Diseases

Lumpy Skin Disease in Greece (Evros) – First Outbreaks

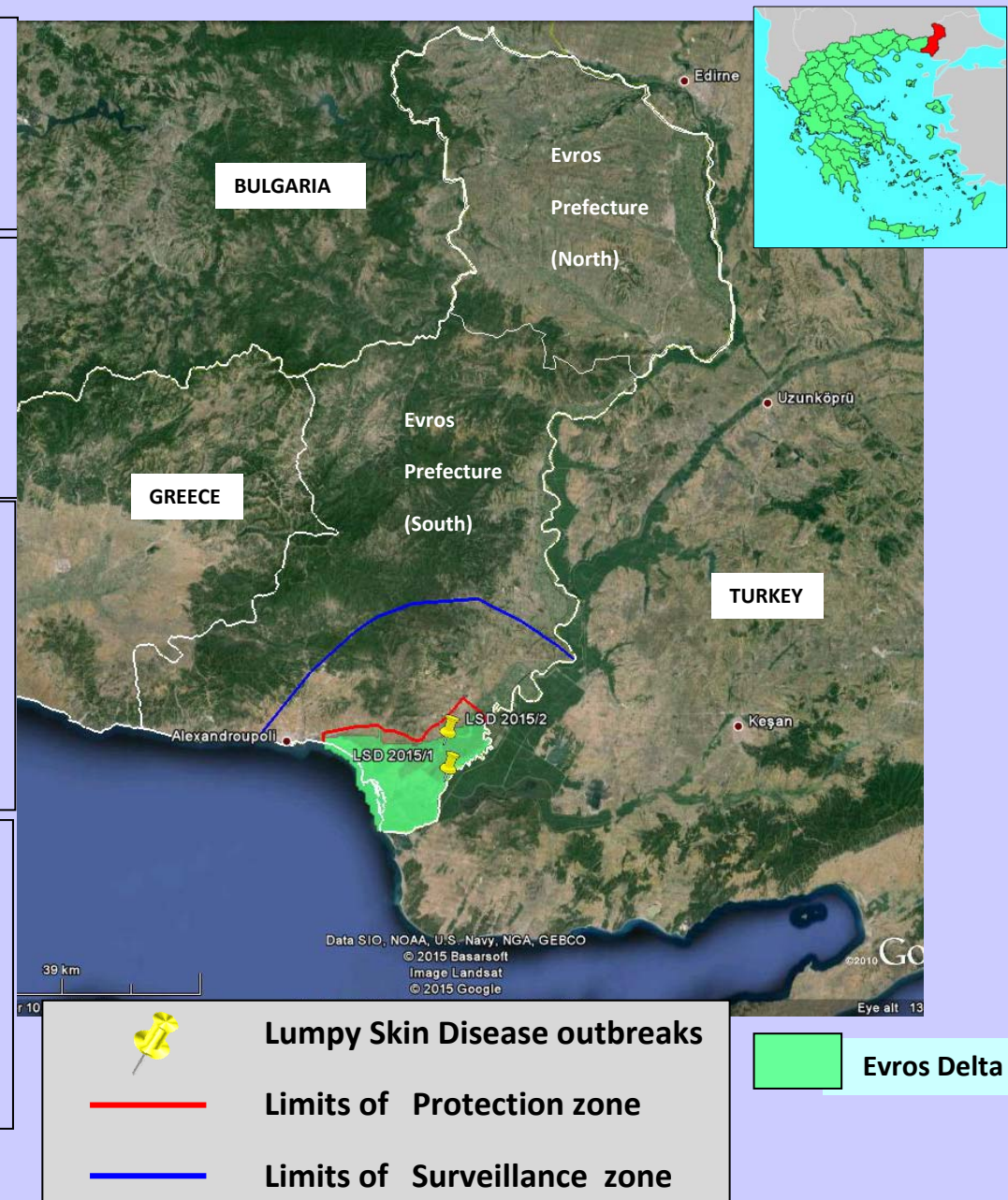
➤ Suspicion of LSD reported, in two holdings (beef cattle) of the Evros Prefecture within the Evros Delta National Park on **18 August 2015**.

➤ Clinical examination of affected cattle (nodules in the neck and elsewhere in the body + respiratory symptoms). Collection of samples and dispatch to the competent state laboratory on **18 August 2015**.

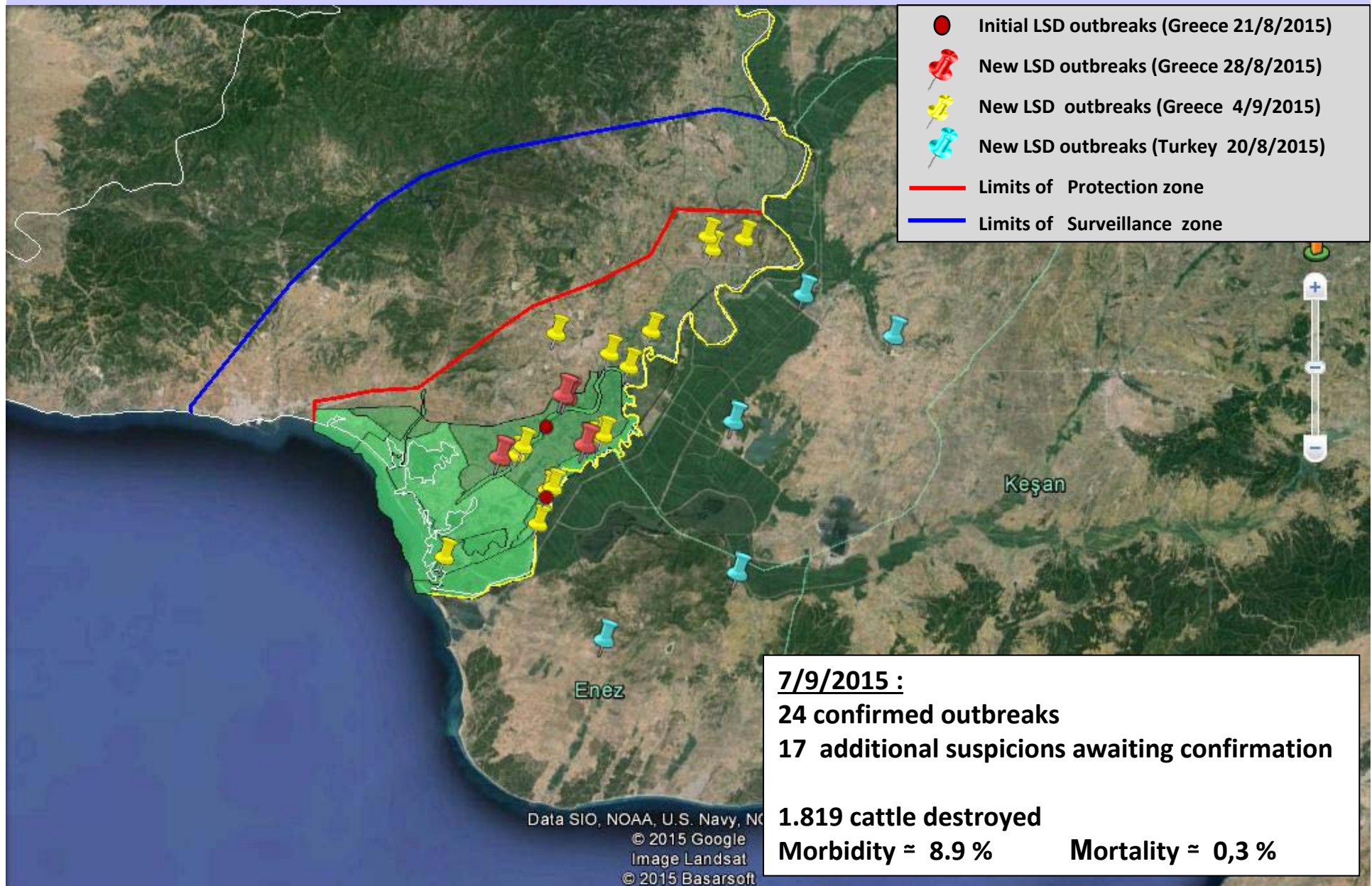
➤ Results of real-time PCR detecting capripoxviruses (among which LSD virus) came positive and further testing using a specific conventional PCR to exclude Sheep Pox confirmed the disease (final results available on **20 Aug 2015**).

➤ Both outbreaks with a small number of affected cattle, non ulcerated lesions . No history of recent animal movements e.t.c. Both within ≈ 15 km from the closest confirmed LSD outbreak in Turkey (ADNS)

➤ Both outbreaks stamped out (75 + 72 animals)



Lumpy Skin Disease in Greece (Evros) – Situation on 7/09/2015 (last PAFF)



Lumpy Skin Disease in Greece (Evros) – **Measures in place**

Control Measures in progress

Measures described in Directive 92/119/EEC

- Surveillance & Protection zones
- Stamping out
- Movement Controls
- Sanitary Burial on the spot etc

Measures described in Commission's Implementing Decision (EU) 2015/1500

&

as of 5 September 2015

- **Emergency vaccination** of all susceptible species of the Evros prefecture added also to control measures

Lumpy Skin Disease in Greece (Evros) – Measures in place

Why Vaccination ???

- area that historically suffers from animal diseases crises (e.g. Sheep Pox in 2013-2014, BT 2014 e.t.c)
- financial + social issues because of devastating effects for the local farming industry in the area
- high costs of stamping out
- unclear if the stamping out policy alone is sufficient to stop disease spread
- the spread of the disease is higher than expected (according to bibliography)

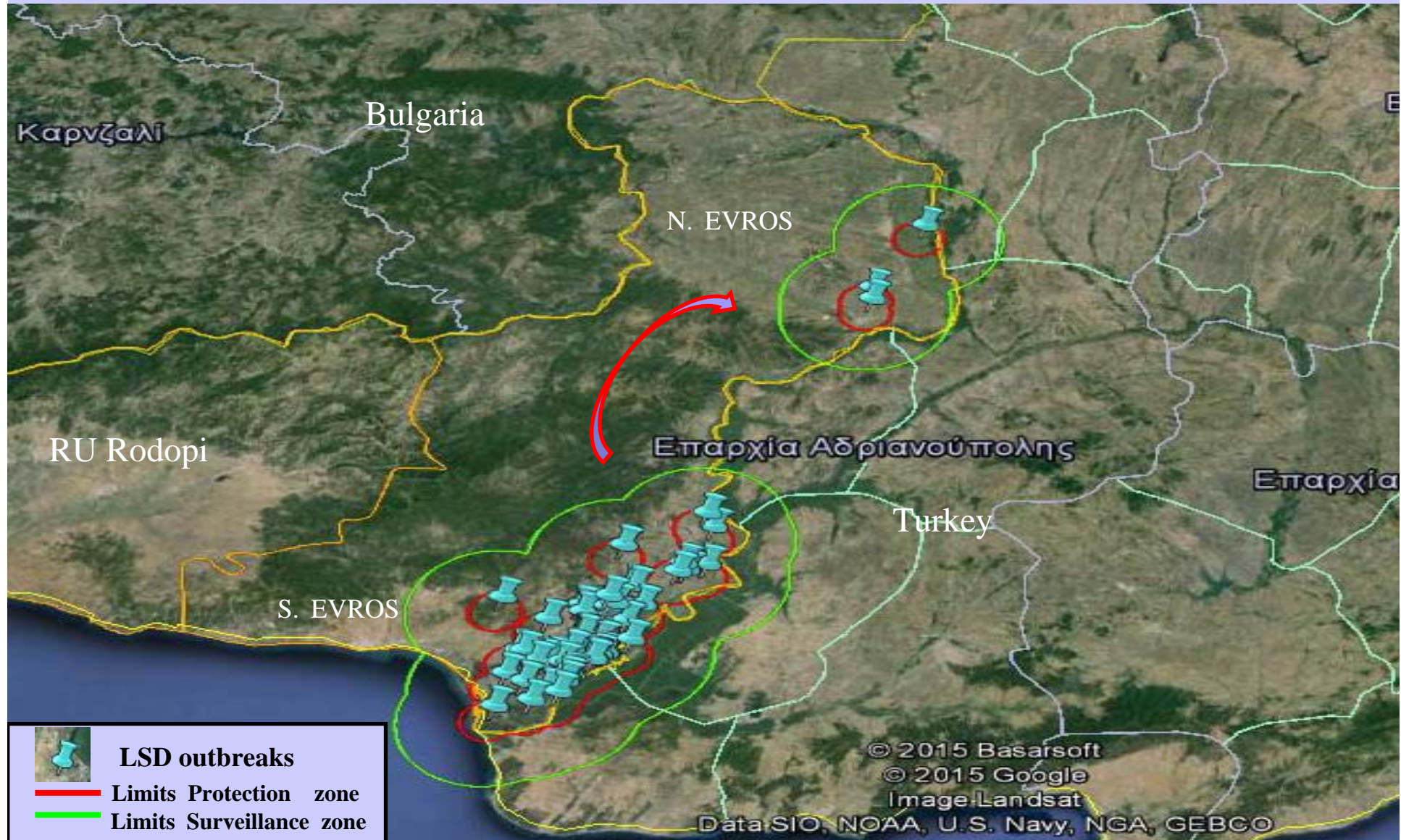
Lumpy Skin Disease in Greece (Evros) – Vaccination

Vaccination Programme

- Homologous live attenuated virus vaccine (Neethling strain): “*Lumpy Skin Disease Vaccine for Cattle*”, Onderstepoort Biological Products
- Compulsory vaccination of all susceptible species (cattle, buffaloes) within the Evros prefecture
- 28 days standstill of vaccinated animals (3 weeks to full disease protection +1 week to cover the maximum disease incubation period)
- Vaccination from age 0 according to the instructions (animals from unvaccinated cattle)
- Annual booster vaccination
- The whole procedure of vaccination is under the control of the official veterinary authorities (delivery at the airport, storage, distribution, vaccination, destroy of residual quantities)
- Electronic application (online database) has been developed for registration of vaccinated animals and farms (connected with central data base of Reg. 1760/2000)
- Official Veterinarians (about 24) including staff from other regional units mobilized in order to help with vaccination

Lumpy Skin Disease in Greece (Evros): Outbreaks in N. Evros on 16 /9/ 2015

Emergency Vaccination launched since 5/9/2015 for the entire Prefecture
16, 18 September Confirmed Outbreaks in N. Evros



Lumpy Skin Disease in Greece – Vaccination in Regional Unit of Evros

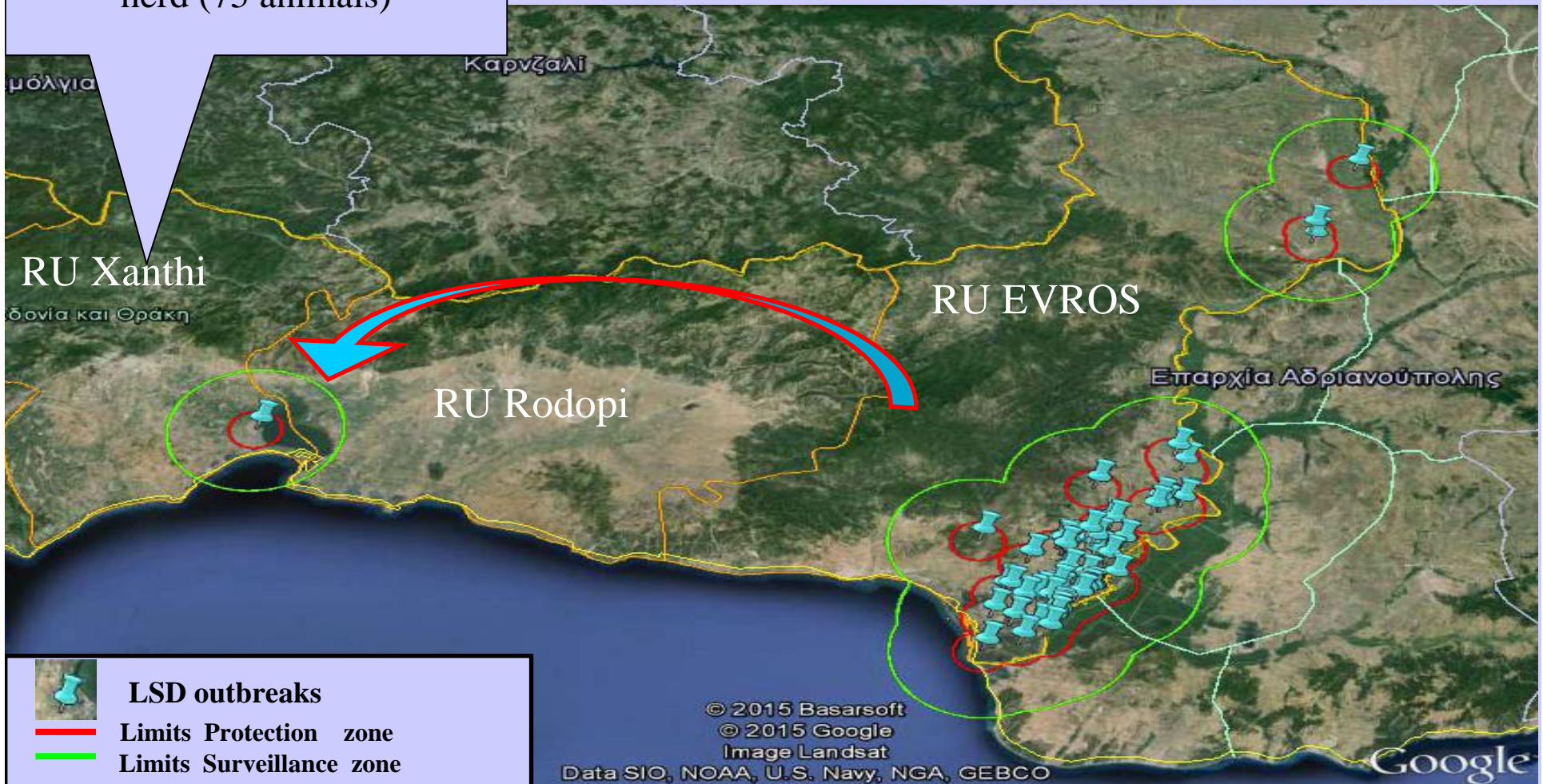
Vaccination Campaign in RU of EVROS: Completed on 2/10/ 2015			
	Date of started Vaccination	Date of finishing Vaccination	% Vaccinated Animals
Protection Zone S. Evros	5/09/2015	7/09/2015	100%
Surveillance Zone S. Evros	5/09/2015	7/09/2015	100%
Protection Zone N. Evros	8/09/2015	29/09/2015	100%
Surveillance Zone N. Evros	8/09/2015	29/09/2015	100%
Rest Area of Evros	8/09/2015	2/10/2015	100%

Total vaccinated animals \approx 14.000

Lumpy Skin Disease in Greece : Outbreak in Regional Unit of Xanthi 25/9/2015

Regional Unit of **Xanthi**
24/09/2015 Suspicion
25/09/2015 Confirmation
N. Kessani 1 dairy herd (75 animals)

Distance \approx 90 Km



Lumpy Skin Disease in Greece – 25/09/2015 Outbreak in Xanthi

Control Measures Implemented in the entire Prefectures of Xanthi and Rodopi

➤ Xanthi

Same measures as Evros (Dir 92/119 & Dec (EU) 2015/1.500)

➤ Rodopi

Measures described in Commission's Implementing Decision (EU) 2015/1500

▪ Why Rodopi too ??

The surveillance Zone of Xanthi extended also to Rodopi.

Rodopi lies between 2 affected prefectures

- **Emergency vaccination** of cattle of the entire prefectures of Xanthi and Rodopi, as a supplement to control measures

Lumpy Skin Disease in Greece – Vaccination in Regional Unit of **Xanthi**

Vaccination in Xanthi : in progress			
	Date of started Vaccination	Date of finishing Vaccination	% Vaccinated Animals
Protection Zone	26/9/2015	28/09/2015	100 %
Surveillance Zone	26/9/2015	28/09/2015	100 %
Rest Area of Prefecture	26/09/2015	in progress	40 %

Estimated time to be completed: 2nd half of October 2015 or
1st half of November 2015

Lumpy Skin Disease in Greece – Vaccination in Regional Unit of Rodopi

Vaccination in Rodopi : In progress			
	Date of started Vaccination	Date of finishing Vaccination	% Vaccinate d Animals
Surveillance Zone (outbreak of Xanthi)	26/09/2015	26/09/2015	100 %
Rest Area of Prefecture	26/09/2015	in progress	12 %

Estimated time to be completed: 2nd half of October 2015 or
1st half of November 2015

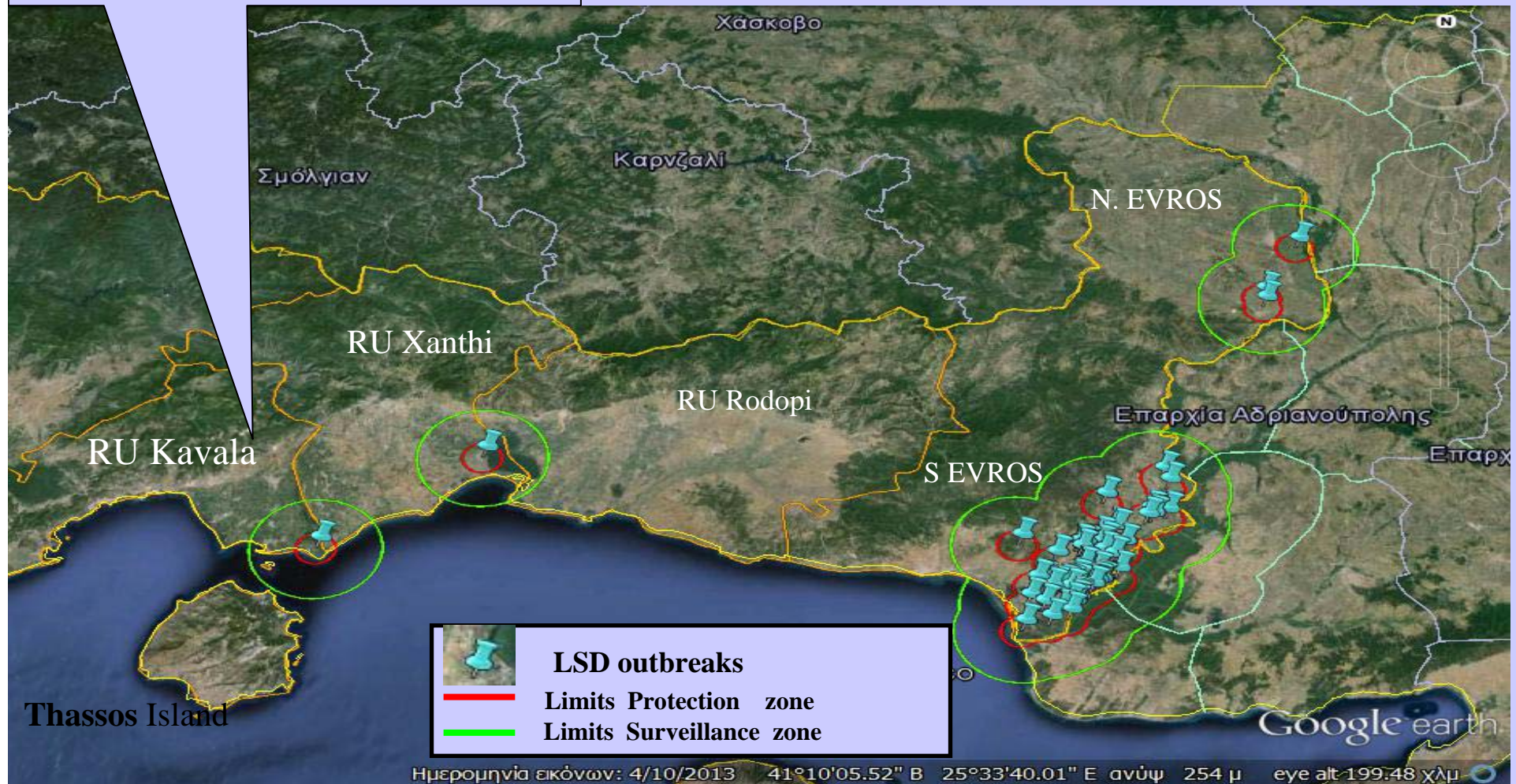
Lumpy Skin Disease in Greece – 1/10/2015 Outbreak in Regional unit of Kavala

Regional Unit Kavala

28/09/2015 Suspicion

1/10/2015 Confirmation

Xaideuto 1 dairy herd (75 animals)



Lumpy Skin Disease in Greece – 1/10/2015 Outbreak in **Kavala**

Control Measures Implemented in the entire Prefectures of Kavala (Same as Xanthi & Evros)

- **Same measures as Evros (Dir 92/119 & Dec (EU) 2015/1.500)**
- **Emergency vaccination** of cattle of the entire prefecture of Kavala, as a supplement to control measures

Lumpy Skin Disease in Greece – 1/10/2015 Outbreak in Kavala

Vaccination in Kavala: in progress			
	Date of started Vaccination	Date of finishing Vaccination	% Vaccinated Animals
Protection Zone	-	-	0 *
Surveillance Zone	1/10/2015	4/10/2015	100 %
Rest of the Prefecture	1/10/2015	In progress	5%

Estimated time 2nd half of October 2015 or 1st half of November 2015

*the animals had been killed

Lumpy Skin Disease in Greece – An overview

➤ **61 Confirmed Outbreaks** :

55 South Evros	1 Xanthi
3 North Evros	1 Kavala
1 Limnos Island	(confirmed 7/10/2015)

➤ **Suspitions:**

3 awaiting confirmation in S. Evros

3 suspicions in Xanthi within the surveillance zone of Kavala

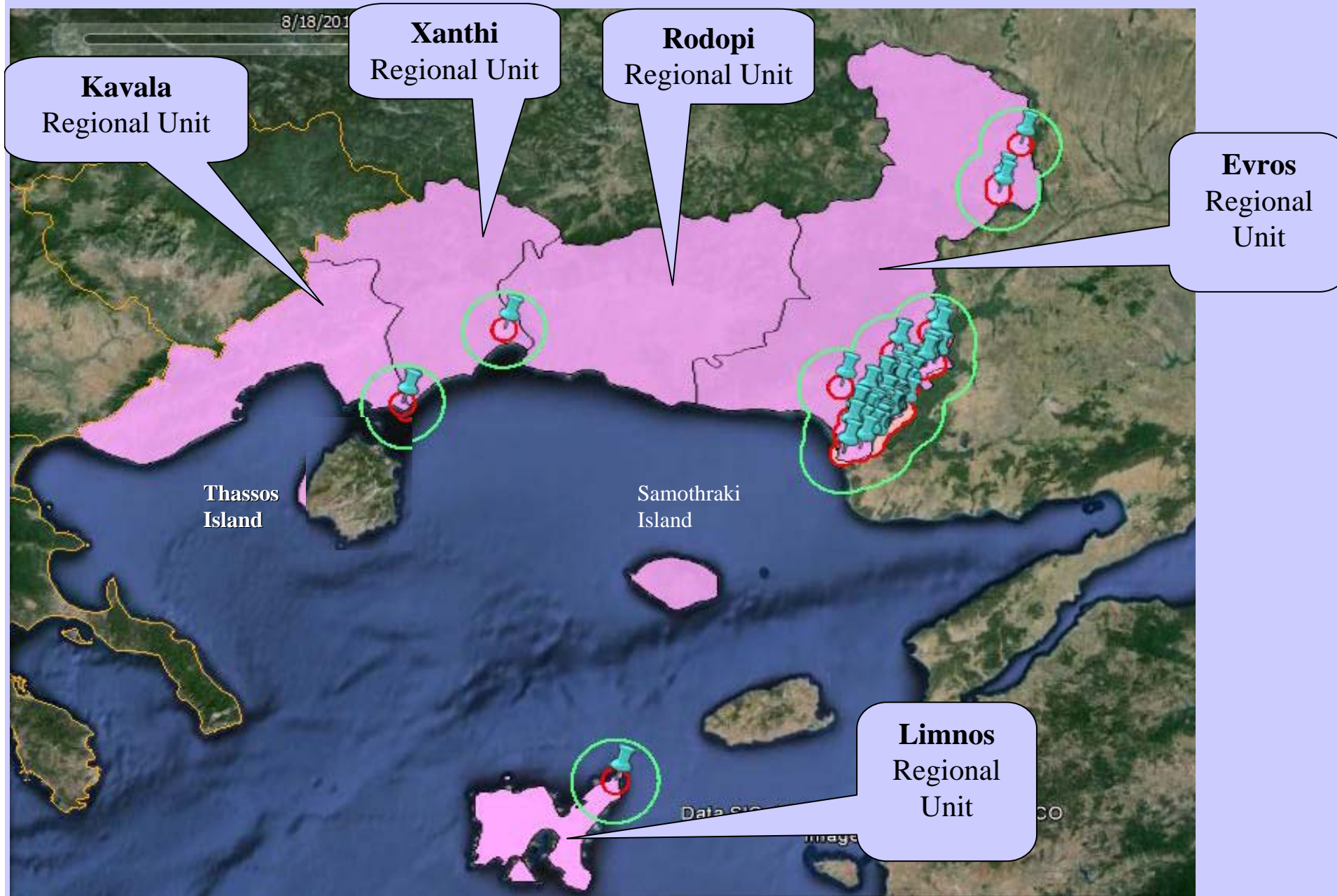
➤ **Total number of culled/destroyed animals: 4.060**

➤ **Number of Vaccinated Animals: 31.060**

Lumpy Skin Disease in Greece – An overview

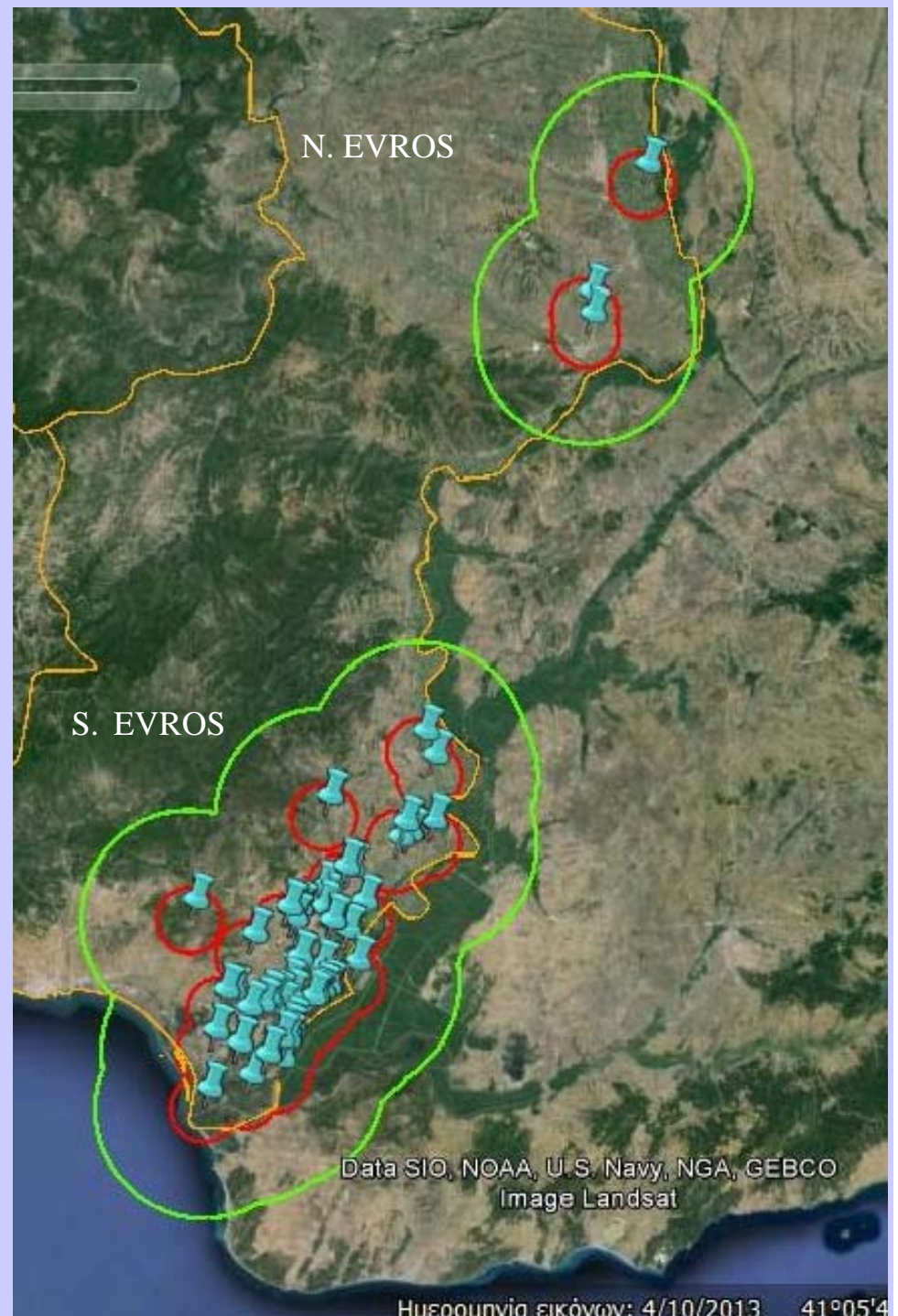
- **Mortality: 0,19%**
- **Morbidity: 9,2 %**
- **Only recent nodules have been found, no ulcerated LSD lesions so far**
- **Rapid LSD spread**
 - within the animals of the same holding
 - within the holdings of the same area (high density)
- **Already delivered 34.500 Vaccines**
 - Ordered : 56.000 (delivery within the following days)**

5 Restricted Areas (Dec 2015/1500) & Emergency Vaccination Areas



Lumpy Skin Disease in Greece – An overview

- No animal movements (legal or illegal) have been identified so far between Regional Units
- Free or semi free grazing cattle, mostly beef cattle
- Similar environmental conditions: close or within wetlands
 - N. Evros: close to Evros river
 - S. Evros: within wetland of Evros Delta river meets the sea
 - Xanthi: close to Lake Visthonida (lake and lagoon)
 - Kavala: within Delta of river Nestos
- High temperatures and Humidity
- High population of a variety of vectors (mosquitoes, flies, ticks)
- Hosting a variety of populations of wild birds



Acknowledgements

**Many thanks to all colleagues of
East Macedonia & Thrace Region**

Special thanks to :

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Dr Achilleas Sachpatzidis (Director, Directorate of Veterinary Medicine of the East Thrace and Macedonia Region)

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Dr Chyssoula Dile (Director, Animal Health Directorate, central service)

Last but not least the **colleagues at DG SANTE** for the cooperation.

Thanks for your attention !!!