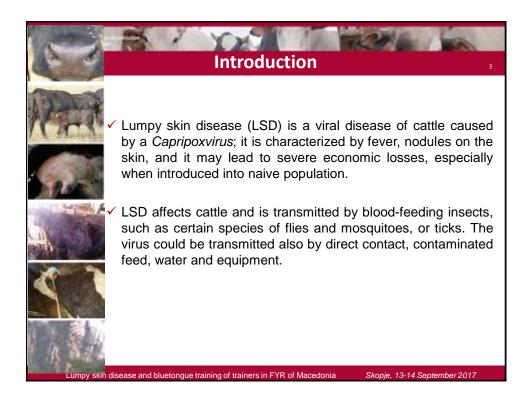


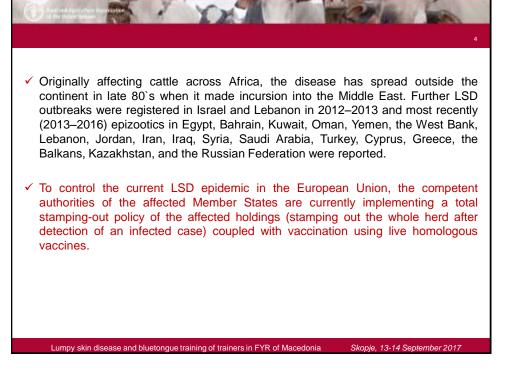
Tsviatko AlexandrovDVM, PhD, FAO International consultant

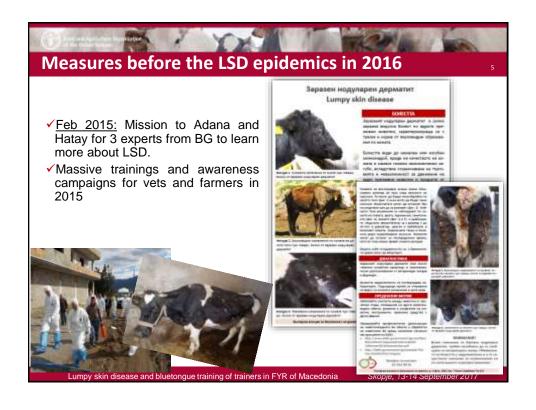
Simona Tchakarova head of BG NRL for BT

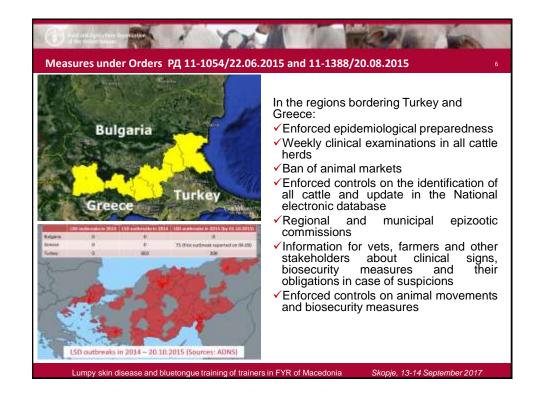
Lumpy skin disease and bluetongue training of trainers in FYR of Macedonia



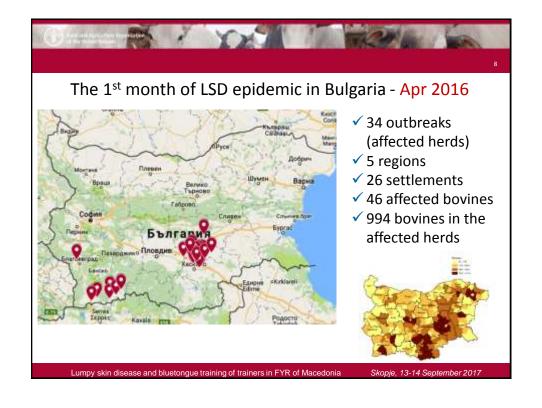


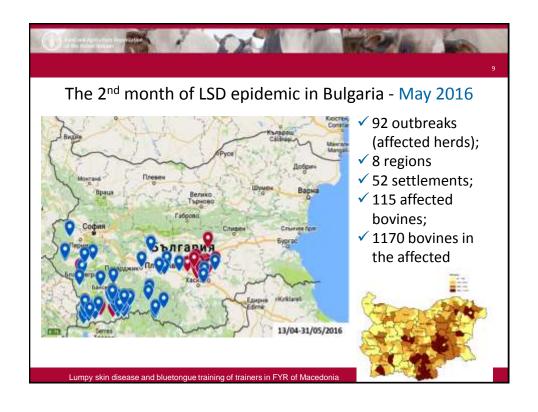


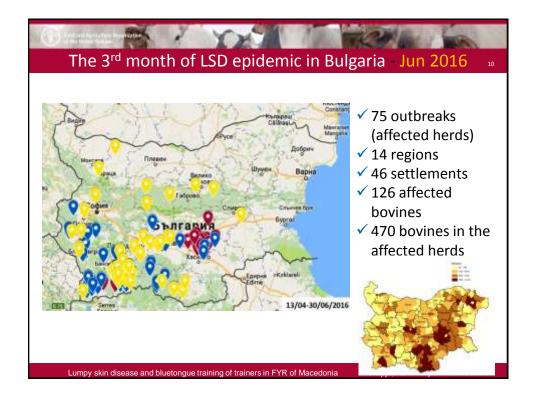


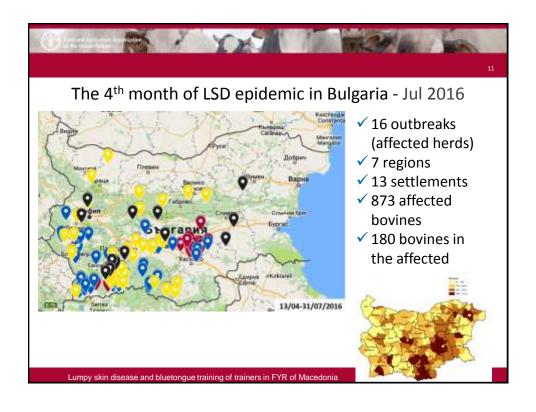


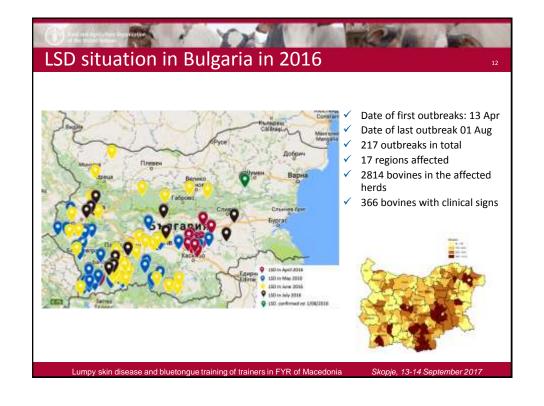


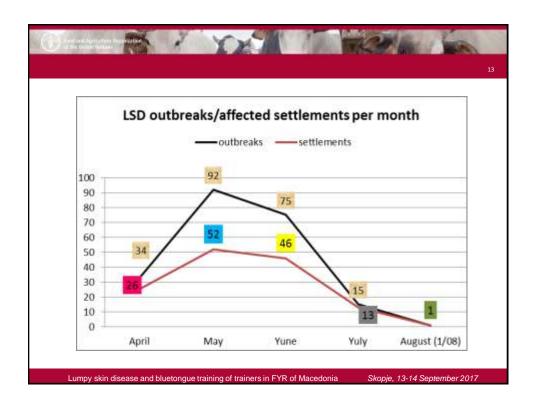


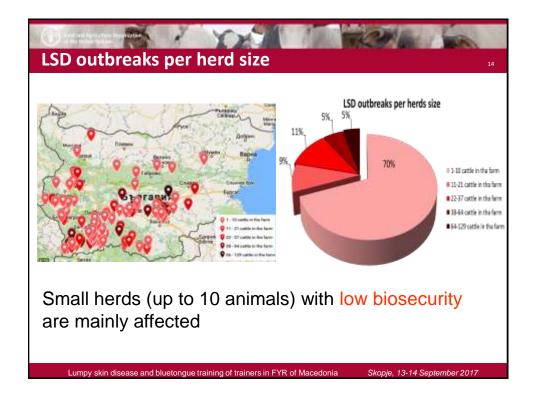


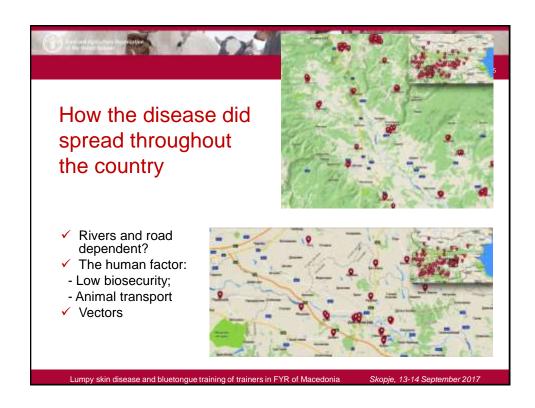














Surveillance in vectors

LSD virus found in:

✓ Flies:

Tabanus spodopterus - females

✓ Ticks:

Hyalomma marginatum females Rhipicephalus bursa - males + females





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Control measures based on

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- ✓ 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) 2016/645 of 22 April 2016 concerning certain protective measures against Lumpy skin disease in Bulgaria;
- ✓ Commission Implementing Decision (EU) 2016/1183 of 14 July 2016 approving the emergency vaccination programme against lumpy skin disease of bovine animals in Bulgaria and amending the Annex to Implementing Decision (EU) 2016/645;
- ✓ National legislation

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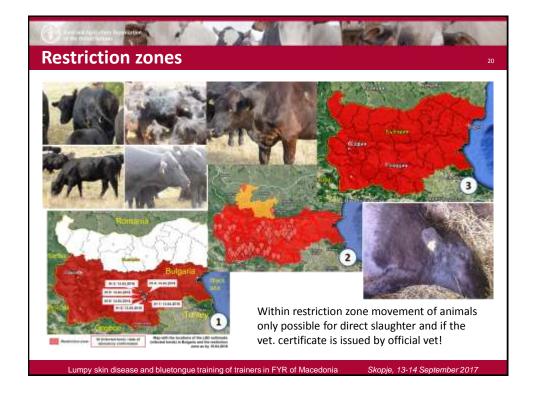
Control measures applied

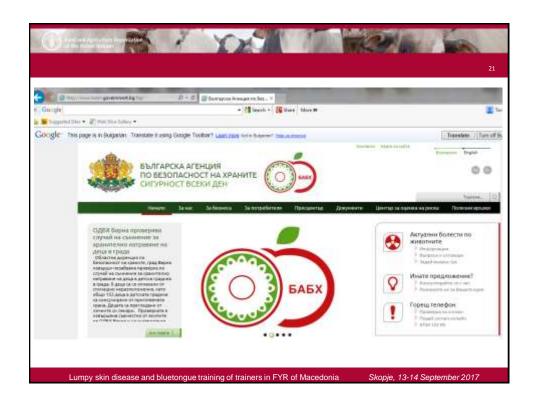
- ✓ Total stamping out
- Compensation schemes and immediate payments to the farmers
- Restriction zone established at the beginning South part of Bulgaria, then the whole territory of the country
- ✓ Intensified clinical surveillance
- ✓ Reinforced biosecurity measures
- ✓ Movement control as per the provisions of Decision (EU) 2016/645 and Decision 2016/1183 and before that

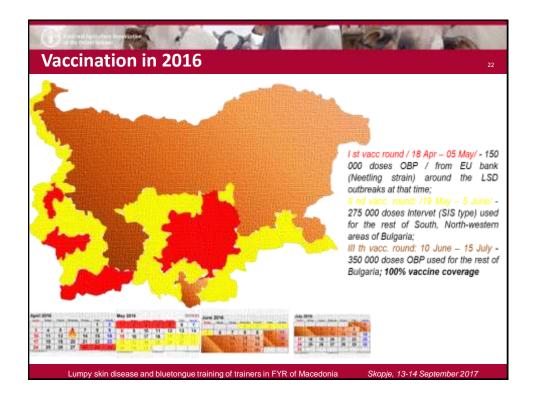


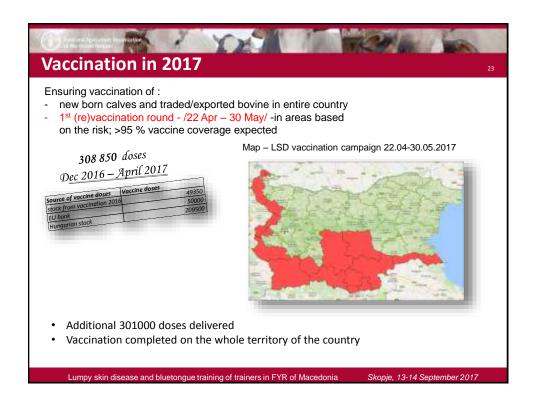


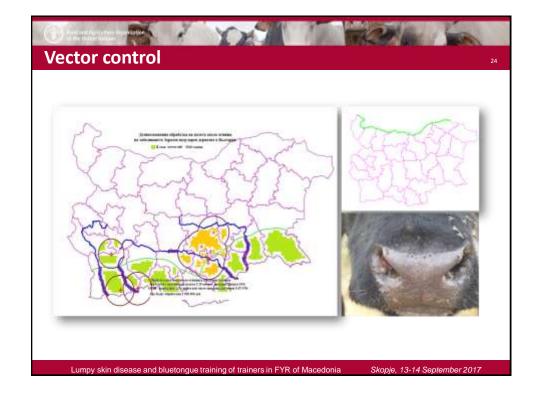
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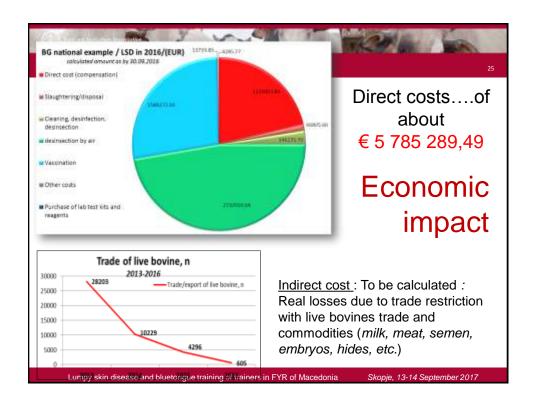


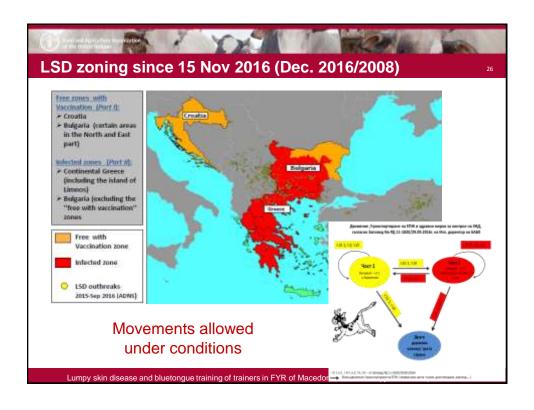












Key challenges and problems faced

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- ✓ New disease and lack of experience
- ✓ Quick response to many outbreaks at the same time
- √ Vaccine delivery tender procedures; EC vaccine bank
- ✓ Outbreaks after vaccination
- ✓ Laboratory capacity
- ✓ Trade restrictions
- ✓ The social factor

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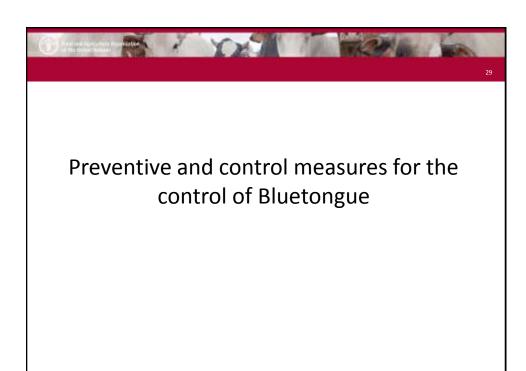
Skopje, 13-14 September 2017

Lessons learnt

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- ✓ LSD is clearly a regional problem that requires high level of awareness at technical and
 political level, involving many countries and can only be dealt with through coordinated
 international efforts
- The main risks of LSD transmission are associated with transfer of virus by blood-feeding vectors and possibly direct contact between infected and naive animals as well as noncontrolled animal movements.
- Priority actions to prevent transmission are immediate culling and safe destruction of infected animals, safe mass vaccination to reduce disease spread, and movement controls to avoid long distance spread via direct contact with affected animals.
- ✓ Vaccination of cattle is the most effective option for controlling the spread of LSD especially
 if applied before the virus enters a region or a country.
- ✓ A lot of uncertainties and questions
- Researches needed

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Skopje, 13-14 September 2017

Control measures established by the Member States

- Council Directive 2000/75/EC lays down specific provisions for the control and eradication of Bluetongue. The measures to control and eradicate the disease include
- ✓ vectors control, (use of insecticides in the animal premises and in the areas where these insects live, insect repellents onto animals, mosquitoes nets, etc.),
- ✓ restriction to movements of live ruminants from affected areas to non-infected regions where the vector is present and the use of vaccines.
- Implementation measures of Directive 2000/75/EC are established on Commission Regulation (EC) No 1266/2007. This Commission Regulation provides for a more sustainable strategy for the control and eradication of Bluetongue, including the conditions for exemptions for the exit ban applicable to movements of susceptible animals and their semen, ova and embryos.
- Vaccination

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