

# Purchase, short term storage and delivery of vaccines in the face of an outbreak Case study

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# Legal basis for vaccination against LSD

- 1. Standards of Terrestrial Animal Health Code of the OIE
- 2. EU legislation
- 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;
- DIRECTIVE 2001/82/EC of the European Parliament and of the Council of 6
   November 2001 on the Community code relating to veterinary medicinal product
- 3. National legislation

# Legal basis for vaccination against LSD

Within the EU, the vaccination against LSD only:

- in the event of serious epizootic diseases;
- as a supplement to control measures taken;
- subject of prior authorization by the Commission (the decision by EC, in cooperation with MCs).

All rules not specified in the EU legislative acts are arranged according to the Standards of Terrestrial Animal Health Code of the OIE

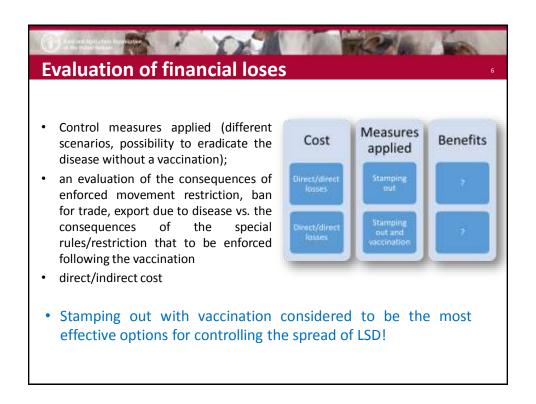
## Vaccination approach and strategy

#### The example of Bulgaria

#### Main steps:

- 1. Decision to implement a vaccination strategy
- 2. Vaccine type to be used
- 3. Drafting a vaccination plan
- 4. Submission of the vaccination plan for approval by European Commission

# 1. Decision to implement a vaccination strategy Factors regarding the affected zone: - Evolution of the disease in the country; and neighbors: fast spreading; incursion in northern regions; - growing number of regions affected; farms/ outbreaks - The meteorological conditions(the presence, distribution and type of vectors) – period of season vector activity | Density of LSD confirmed outbreaks by the date of confirmed to the period: 15/04/2016-1/6/2016) | Density of LSD confirmed outbreaks by the date of confirmed to the period: 15/04/2016-1/6/2016) | Density of LSD confirmed outbreaks by the date of confirmed to the period: 15/04/2016-1/6/2016) | Density of LSD confirmed outbreaks by the date of confirmed to the period: 15/04/2016-1/6/2016) | Density of LSD confirmed outbreaks by the date of confirmed to the period: 15/04/2016-1/6/2016) | Density of LSD confirmed outbreaks by the date of confirmed to the period: 15/04/2016-1/6/2016) | Density of LSD confirmed outbreaks by the date of confirmed to the period: 15/04/2016-1/6/2016) | Density of LSD confirmed outbreaks by the date of confirmed to the period: 15/04/2016-1/6/2016) | Density of LSD confirmed outbreaks by the date of confirmed to the period: 15/04/2016-1/6/2016) | Density of LSD confirmed outbreaks by the date of confirmed to the period: 15/04/2016-1/6/2016) | Density of LSD confirmed outbreaks by the date of confirmed to the period: 15/04/2016-1/6/2016) | Density of LSD confirmed outbreaks by the date of confirmed to the period: 15/04/2016-1/6/2016) | Density of LSD confirmed outbreaks by the date of confirmed to the period: 15/04/2016-1/6/2016) | Density of LSD confirmed outbreaks by the date of confirmed to the period: 15/04/2016-1/6/2016) | Density of LSD confirmed to the period: 15/04/2016-1/6/2016) | Density of LSD confirmed to the period: 15/04/2016-1/6/2016) | Density of LSD confirmed to the period: 15/04/2016-1/6/2016) | Density of LSD confirmed to the period: 15/04/2016-1/6/2016) | Density of LSD confirmed to the period: 15/04/2016-1/6



# 2. Vaccine type to be used

Factors to be examined – regarding the vaccination strategy

- available vaccine on the market
- authorization for EU market
- the characteristics of each vaccine used which vaccines ensure a successful prevention?
- safety and efficacy of the vaccines?
- shelf life?

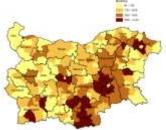
- Which vaccines?
- Experience and lessons learned by other affected countries.
- homology vaccines provide better immunity (EFSA 'assessment)
- Purchasing procedures, price, doses available?

subject of prior authorization by European Commission;

### 3. Drafting a vaccination plan

Pre-factors considered regarding the vaccination strategy

- Density of bovine population -
- Animal husbandry (outdoor, commercial farms, pasture), biosecurity of farms
- Movement inside the country (slaughtering, pastures, seasonal movement, etc.), trade, export
- 80 % of farms are backyards, without biosecurity measures applied
- Seasonal cattle migration only short distance pasture movements in springautumn
- Movement mainly for direct slaughter



Type of farming	Dairy	Beef	Total
Cattle population	364 319	414 545	778 864
Small holdings	35 288	19001	111295
Farms	46754	31169	77923



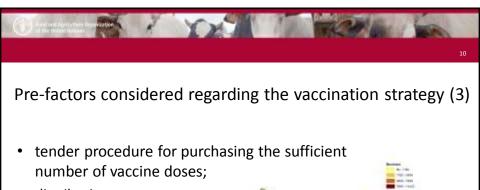
Pre-factors considered regarding the vaccination strategy (2)

- the areas in which vaccination may or must be carried out (ring vaccination , blanket, only regions, etc)
- the duration of the vaccination campaign

main goal – to achieve sufficient herd immunity (at 80 % coverage) as soon as possible

#### consideration on:

- the personal capability staff needed to be involved (only official vets; private vets employed
- financial recourses needed
- slaughter sites to be established in the vaccinated areas due to the special rules and movement restriction that will be imposed



- · distribution;
- storage facilities.

# Logistics



Map – two main facilities (storage vaccine in specified conditions)

