



Bluetongue in the region

Tsviatko Alexandrov
DVM, PhD, FAO International consultant

Simona Tchakarova
Head of BG NRL for BT



BTV serotype 9 circulated in 1999 (Southeast Bulgaria) and 2001 (West Bulgaria)



Season 2006 - 2007

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ANIMAL DISEASE NOTIFICATION SYSTEM - OUTBREAKS per DISEASE
 From 20060000 to 20060000
 Last refreshed: 03.09.2009 at 15:31:43

Disease	Country	Date of last outbreak	Nr of outbreaks
B.T.	BELGIUM	16.12.2006	801
	BULGARIA	06.11.2006	11
	CYPRUS	28.03.2007	11
	CZECH REPUBLIC	08.02.2007	930
	FRANCE	17.01.2007	239
	GERMANY	18.01.2007	11
	HUNGARY	02.02.2007	414
	ITALY	19.11.2006	1
	Total		2479

2479

2006: Nabs to BTV 8 were identified in 4 sentinel cattle in Southeast Bulgaria



Source: EC, Update on bluetongue and future EU policy, Meeting of the Standing Committee on Animal Health and Welfare; Brussels, 9 Sep 2009

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

Skopje, 13-14 September 2017

Season 2007 - 2008

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ANIMAL DISEASE NOTIFICATION SYSTEM - OUTBREAKS per DISEASE
 From 20070000 to 20080000
 Last refreshed: 03.09.2009 at 10:00:11

Disease	Country	Date of last outbreak	Nr of outbreaks
B.T.	BELGIUM	08.12.2007	801
	BULGARIA	16.03.2008	11
	CYPRUS	13.10.2007	11
	CZECH REPUBLIC	12.06.2008	2043
	FRANCE	17.01.2008	2011
	GERMANY	09.10.2007	930
	HUNGARY	02.10.2007	414
	ITALY	27.10.2007	1
	NETHERLANDS	11.10.2007	11
	POLAND	26.11.2007	761
	PORTUGAL	08.01.2008	11
	ROMANIA	27.10.2007	11
	Total		63182

63182



Source: EC, Update on bluetongue and future EU policy, Meeting of the Standing Committee on Animal Health and Welfare; Brussels, 9 Sep 2009

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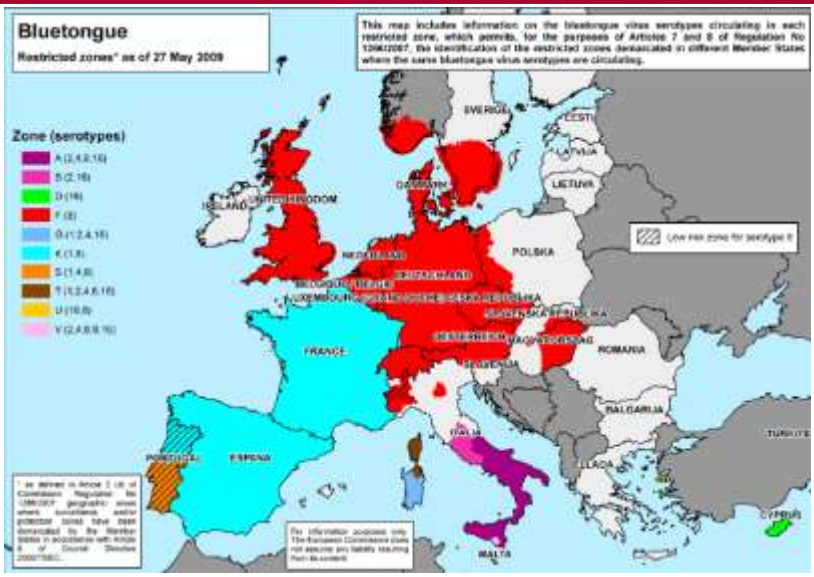


← Serotype 8

← Serotype 1

Other relevant serotypes:

- ❖ Serotype 2: (southern) Italy, Corsica, Sardinia, Sicily
- ❖ Serotype 4: Portugal, (southern) Italy, Corsica, Sardinia, Sicily
- ❖ Serotype 9: (southern-) Italy
- ❖ Serotype 16: Greece (Chios, Lesbos), Cyprus



2010

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Italy – BTV 1, 2, 4, 8, 9; Switzerland - BTV 8; Greece – BTV 2, 16; Cyprus – BTV 16; France – BTV 1; Spain – BTV - 1, 4;

2011

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Italy – BTV 1, 2; Greece – BTV 4, 16; Cyprus – BTV 4; Spain – BTV - 1, 4; Portugal - BTV 1;

2012



Italy – BTV 1, 2, 9; Greece – BTV 4, 16; Spain – BTV - 1, 4; Portugal - BTV 1;

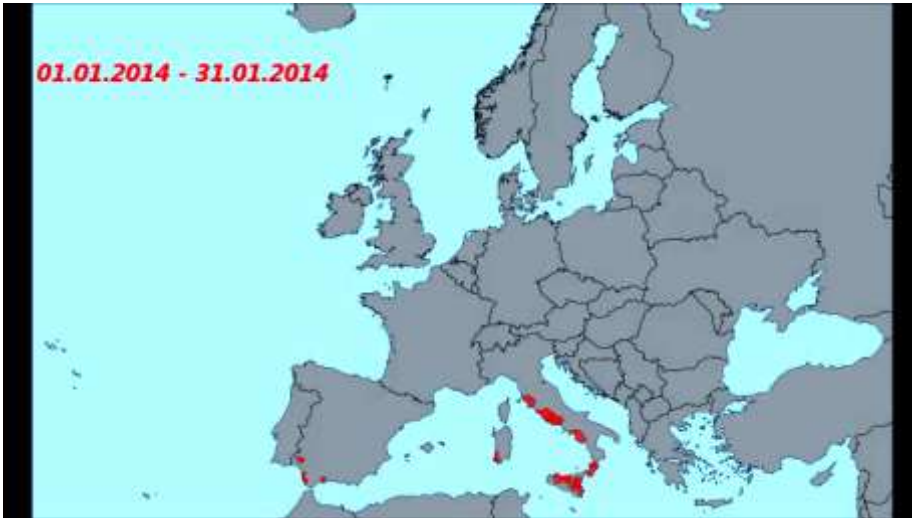
2013



Italy – BTV 1; Spain – BTV - 1, 4; Portugal - BTV 4;

BT epidemics 2014 - Aug 2015 (Movie)

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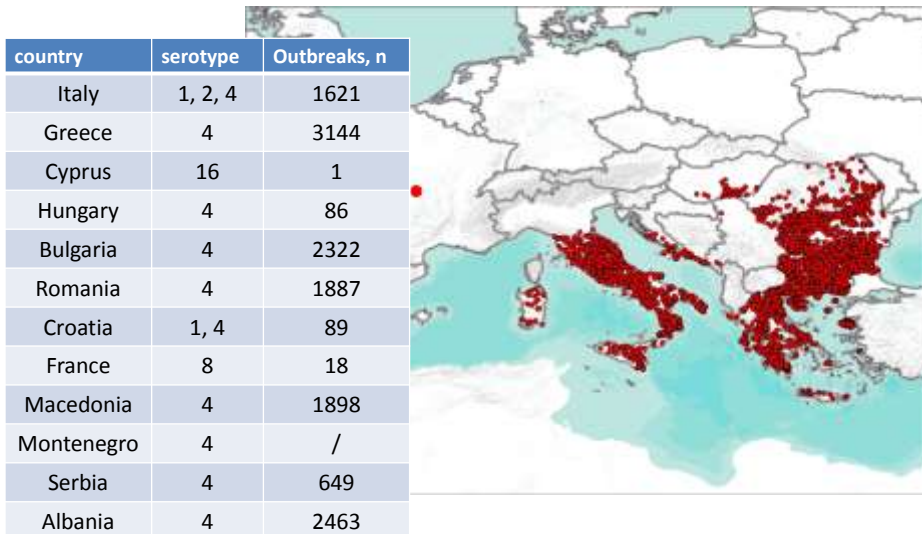


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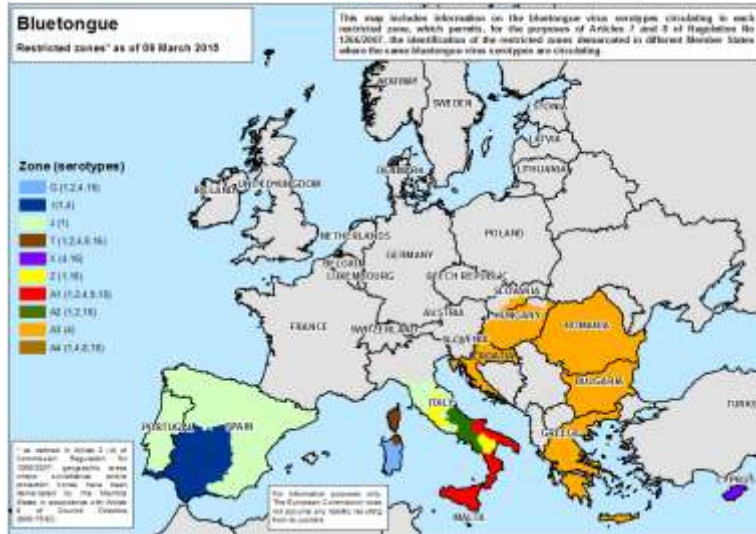
BT epidemiological situation in 2014 –2015

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

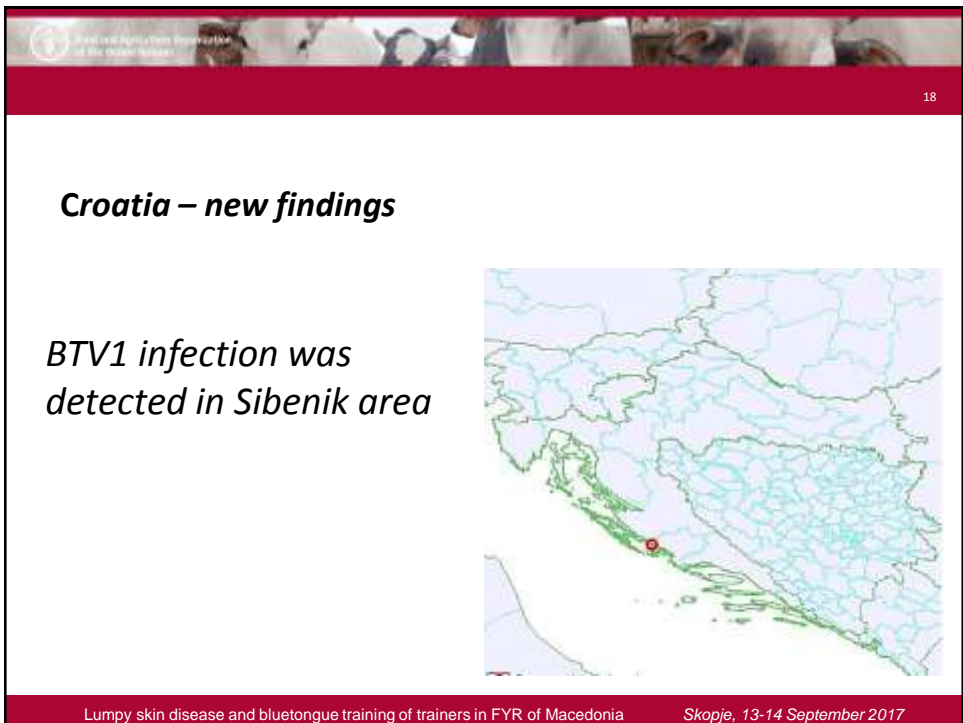
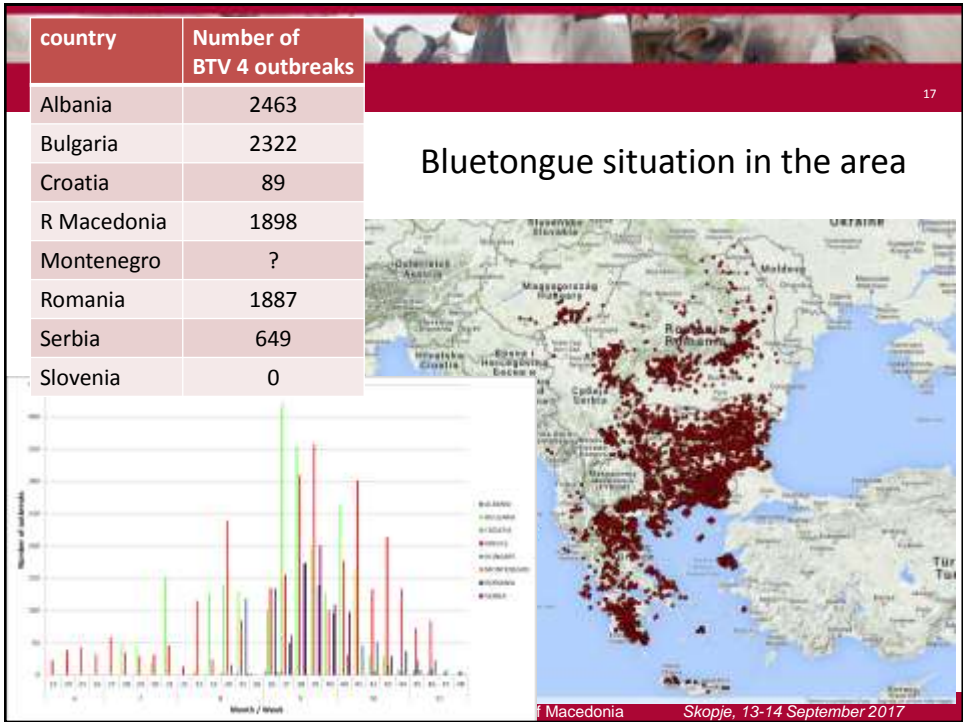
Skopje, 13-14 September 2017



Missions of the Community Veterinary Emergency Team
to ROMANIA (RO) – BULGARIA (BG) SLOVENIA (SI) – CROATIA (HR) SERBIA (RS) – ALBANIA
(AL) – FYRO Macedonia – Montenegro (MN)

Assessment of Bluetongue situation

- RO-BG: 6-10 October 2014 [CVET: P. Calistri and L. Romero]
- SI-HR-RS: 16-21 November 2014 [CVET: P. Calistri and A. Pina Fonseca]
- AL: 3-4 December 2014 [CVET: P. Calistri and A. Pina Fonseca]
- FYROM: 24 – 25 June 2015 [CVET: A. Pina Fonseca and L. Romero]
- MN: 26 – 27 March 2015 [CVET: L. Romero and A. Pina Fonseca]



Consequences of BTV spread

Mortality rates

Country	Mortality rates %		
	cattle	Sheep	goats
Albania	3.0%	2.9%	0.8%
Bulgaria	1.3%	4.5%	1.5%
Croatia	0.0%	0.2%	0.0%
Macedonia	0.53%	7.65%	1.53%
Montenegro	1.56%	1.78%	NA
Romania	0.3%	1%	0.1%
Serbia	0.9%	4.6%	1.1%

CVET Conclusions

- The infection demonstrated a high capacity to quickly spread across the area
- Considering the characteristics of BTV infection and the expected low levels of animal population immunity, it is very likely that in the lack of any vaccination strategy a major BTV4 epidemic will occur in 2015
- Given the seasonality of vector species possibly involved (*Obsoletus* complex) it is likely to have a re-start of BTV4 transmission early in the season (May-June) with a northward spread
- It is of paramount importance to immunize all domestic ruminants against BTV4 before the beginning of 2015 epidemic season to have the chance of reducing the virus circulation

CVET Recommendations

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- A multiannual vaccination strategy is needed to achieve the BTV eradication and re-gain the free status.
- Given the high risk posed by the close outbreaks it is recommended to Slovenia to perform also a vaccination.
- Technical and financial support from European Commission is of paramount importance for the success of this vaccination strategy.
- An international approach involving all Balkan countries is strongly recommended. In this regard the establishment of a BT network for the Balkan countries (similar to the former "BTNet"), could facilitate the harmonization of surveillance actions and control measures all over the area.

BT situation in 2015

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Italy – BTV 1,4; Croatia – BTV 1,4; France; BTV – 8; Portugal – BTV 1; Spain – BTV 4;
Hungary, Slovakia, Slovenia, Austria, Romania, Greece – BTV 4.

BT situation in 2016

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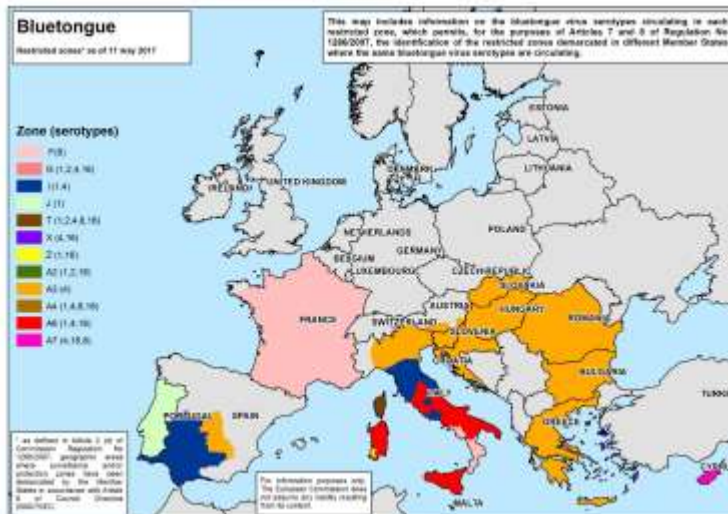
Italy – BTV 1,4; France; BTV – 8,1; Portugal, Spain – BTV 1; Cyprus – BTV 8;
Slovenia, Austria, Croatia, Serbia – BTV 4.

BT situation in 2017

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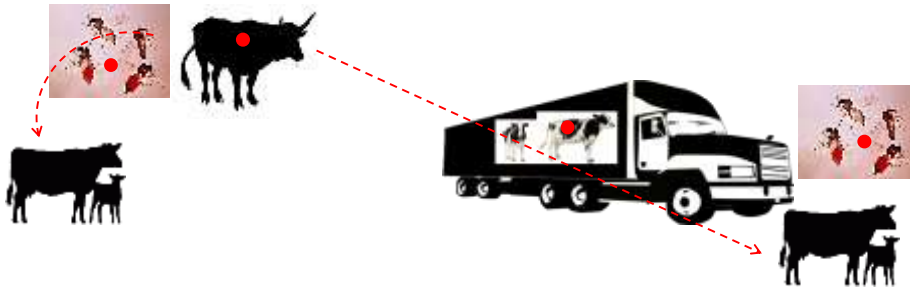


Italy – BTV 1,4; France; BTV – 8; Portugal – BTV 4, Spain – BTV 1; Croatia – BTV 4.



How BTV did spread out through Europe?

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- vector activity
- animal movements can play essential role

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Thanks for your attention