

# GF-TADs

GLOBAL FRAMEWORK FOR THE  
PROGRESSIVE CONTROL OF  
TRANSBOUNDARY ANIMAL DISEASES



Food and Agriculture  
Organization of the  
United Nations

*Oie*  
WORLD ORGANISATION  
FOR ANIMAL HEALTH

## Session on rabies surveillance SGE LSD9, Athens, 17 October 2019

# **Report by BULGARIA**

# Map of the vaccination area



- Manual distribution
- High-altitude areas not covered by vaccination



# Vaccination

🦊 Beginning of the programme – 2009  
=> currently part of the Multiannual National Programme for Animal Diseases and Zoonoses

🦊 2 campaigns per year – spring and autumn

🦊 Aerial and manual distribution

🦊 Vaccine used – Lysvulpen, Bioveta

🦊 Bait density – 25 baits/sq. km

🦊 Quality control of the batches

Year	Vaccination campaigns	Regions	Size of territory (km <sup>2</sup> )
2009	2 – spring and summer	18	55 037 km <sup>2</sup>
2010	1 spring	19	55 995 km <sup>2</sup>
2011	1 spring	19	55 995 km <sup>2</sup>
2012	2 – spring and summer	20	59 500 km <sup>2</sup>
2013	2 – spring and summer	20	59 500 km <sup>2</sup>
2014	2 – spring and summer	22	79 119 km <sup>2</sup>
2015	2 – spring and summer	16	54 716 km <sup>2</sup>
2016	2 – spring and summer	16	54 716 km <sup>2</sup>
2017	2 – spring and summer	16	54 716 km <sup>2</sup>
2018 onwards	2 – spring and summer	23	57 019 km <sup>2</sup>



# Surveillance

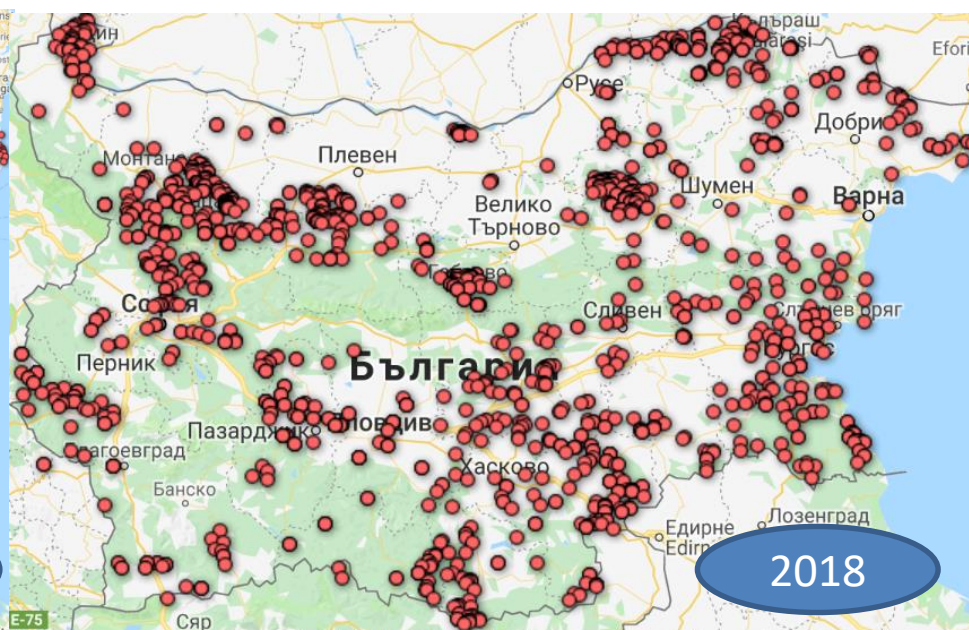
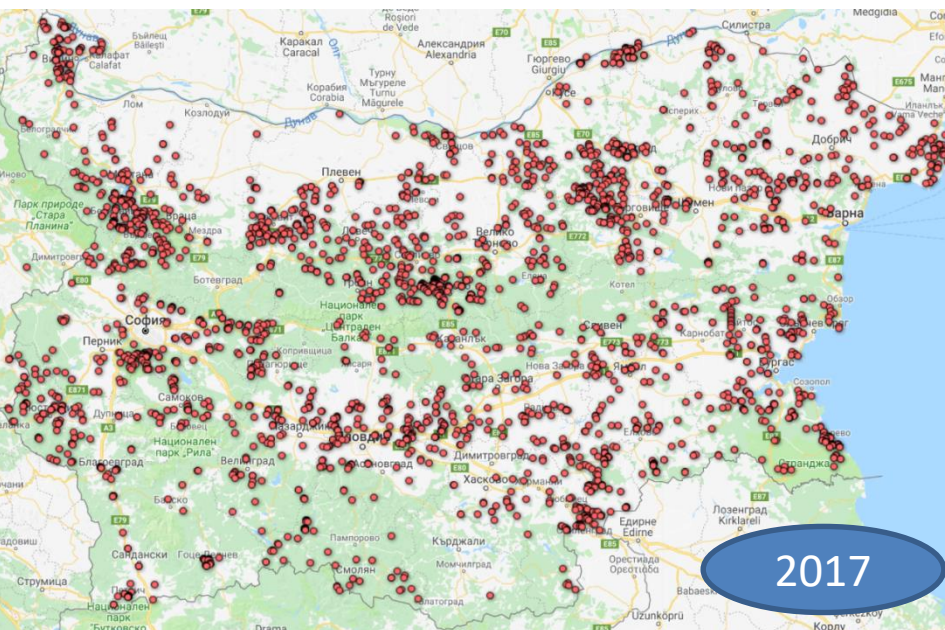
## Surveillance

+ = number of rabies positive cases

I = number of tests in indicator animals

NI = number of tests in non-indicator animals

	2016			2017			2018			2019		
	+	I	NI	+	I	NI	+	I	NI	+	I	NI
<b>Bulgaria</b>	0	71	1842	0	159	3225	0	132	2296	0	65	1074



Standing Group of Experts under the GF-TADs umbrella

# Surveillance - 2

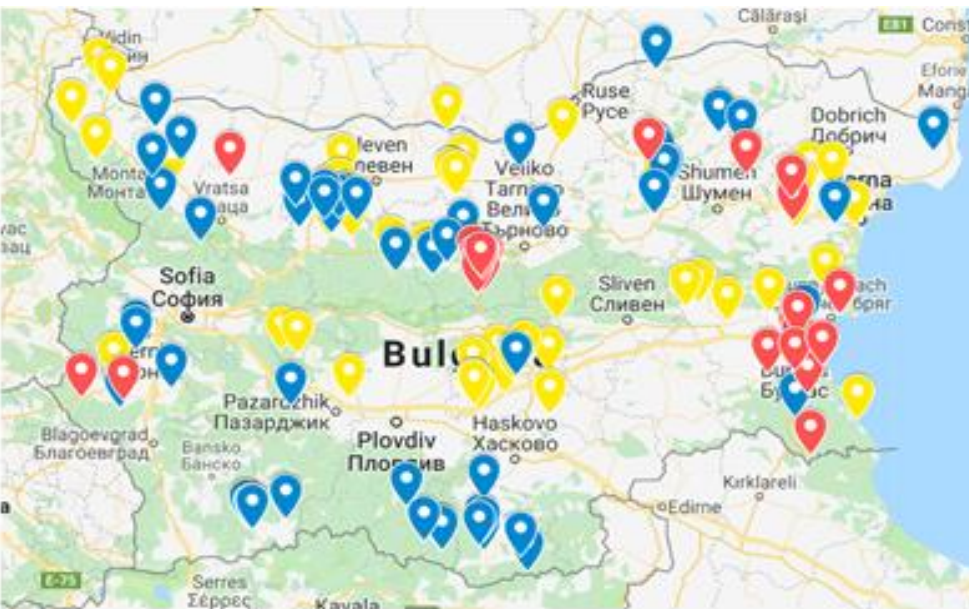
## Surveillance

+ = number of rabies positive cases

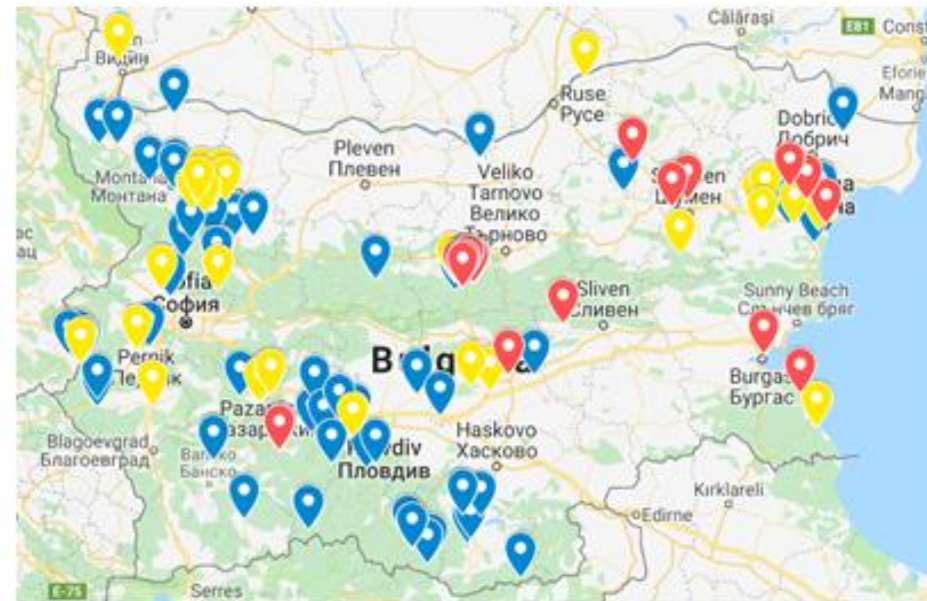
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	2016			2017			2018			2019		
	+	I	NI	+	I	NI	+	I	NI	+	I	NI
<b>Bulgaria</b>	0	71	1842	0	159	3225	0	132	2296	0	65	1074



Passive surveillance samples in 2017



Passive surveillance samples in 2018

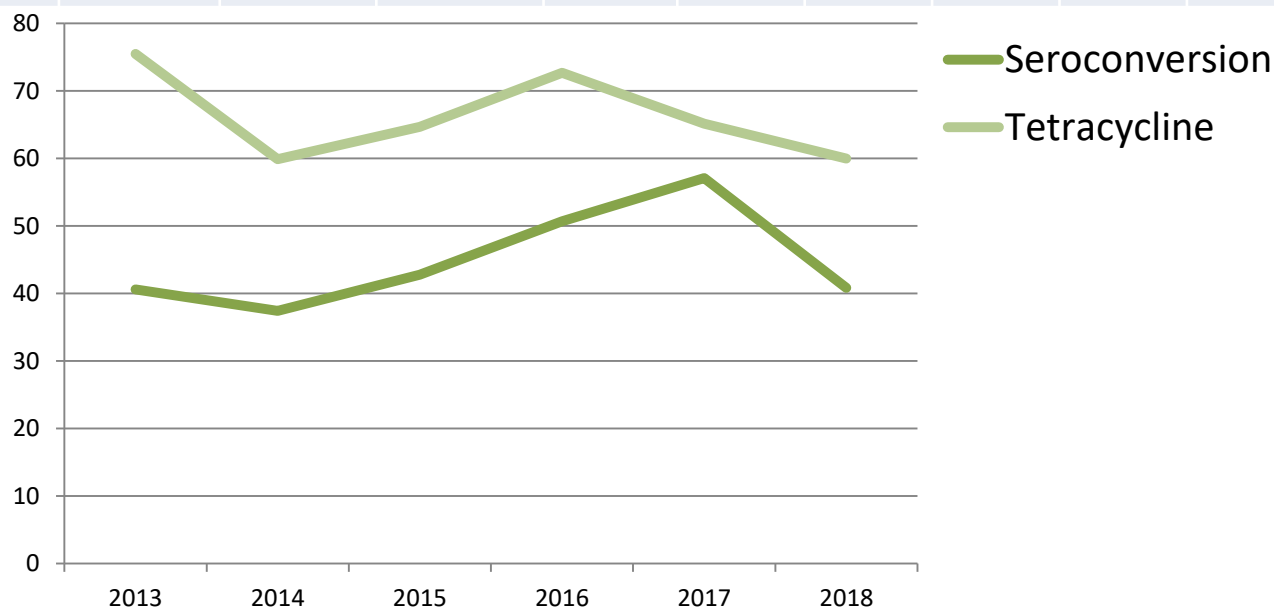
- Fox
- Jackals
- Other species

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- Other species

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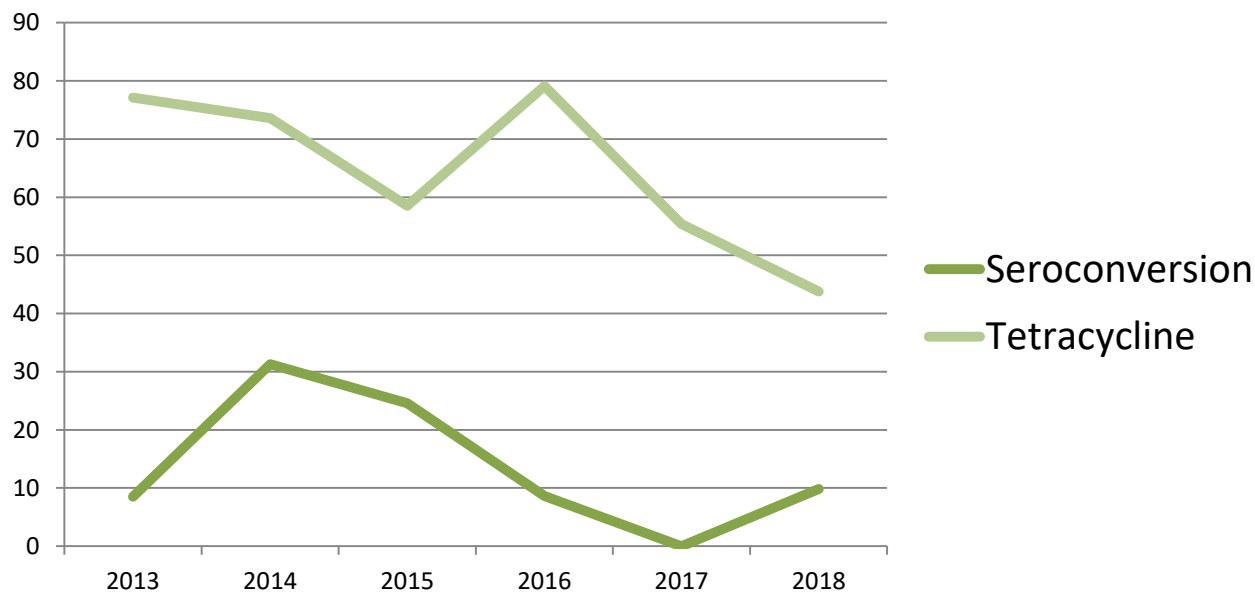
# Monitoring of the effectiveness of the vaccination, foxes

Bulgaria	Species	Serological tests				Tests for the presence of biomarker –Tetracycline (T)				IFT		
		Type of test	Number of tests	Seropositive	%	Type of test	Number of tests	Biomarker	%	Type of test	Number of tests	Positive
					seropositive			present	presence			
2016	foxes	ELISA	668	339	50,75	T	835	607	72,69	IFT	837	0
2017	foxes	ELISA	226	129	57,08	T	999	651	65,17	IFT	997	0
2018	foxes	ELISA	485	198	40,82	T	903	507	59,97	IFT	903	0
2019 (first semester)	foxes	ELISA	54	9	16,67	T	158	94	59,49	IFT	405	0



# Monitoring of the effectiveness of the vaccination, jackals

Bulgaria	Species	Serological tests				Tests for the presence of biomarker –Tetracycline (T)				IFT		
		Type of test	Number of tests	Seropositive	%	Type of test	Number of tests	Biomarker present	%	Type of test	Number of tests	Positive
					seropositive				marker presence			
2016	jackals	ELISA	93	8	8,6	T	296	234	79,05	IFT	296	0
2017	jackals	ELISA	91	0	0	T	787	436	55,40	IFT	786	0
2018	jackals	ELISA	305	30	9,83	T	1065	466	43,75	IFT	1065	0
2019 (first semester)	jackals	ELISA	46	10	21,74	T	213	117	54,93	IFT	481	0





# Thank you!

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