GF-TADs
GLOBAL FRAMEWORK FOR THE PROGRESSIVE CONTROL OF TRANSBOUNDARY ANIMAL DISEASES

Food and Agriculture Organization of the United Nations

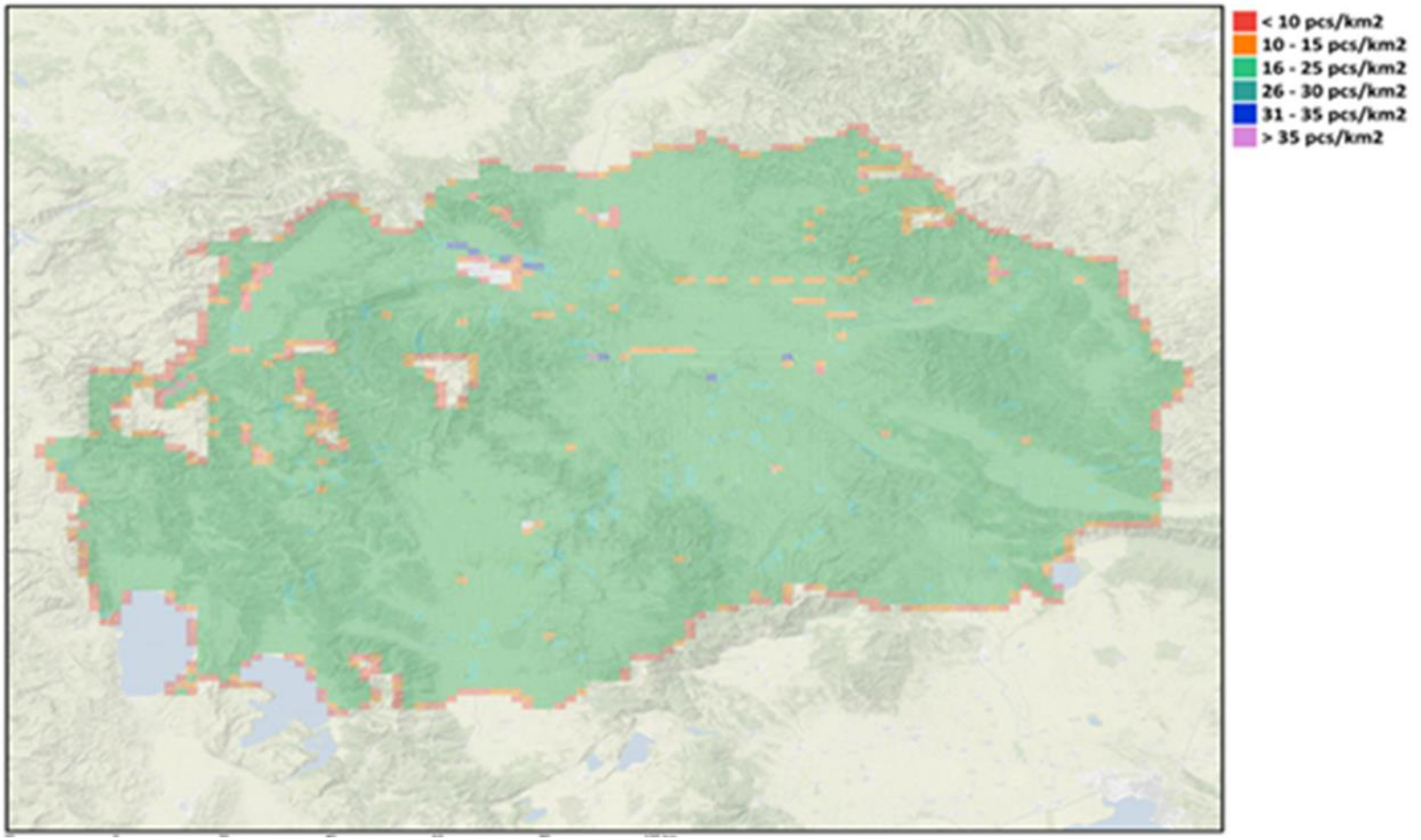
WORLD ORGANISATION FOR ANIMAL HEALTH

Session on rabies surveillance

SGE LSD9, Athens, 17 October 2019

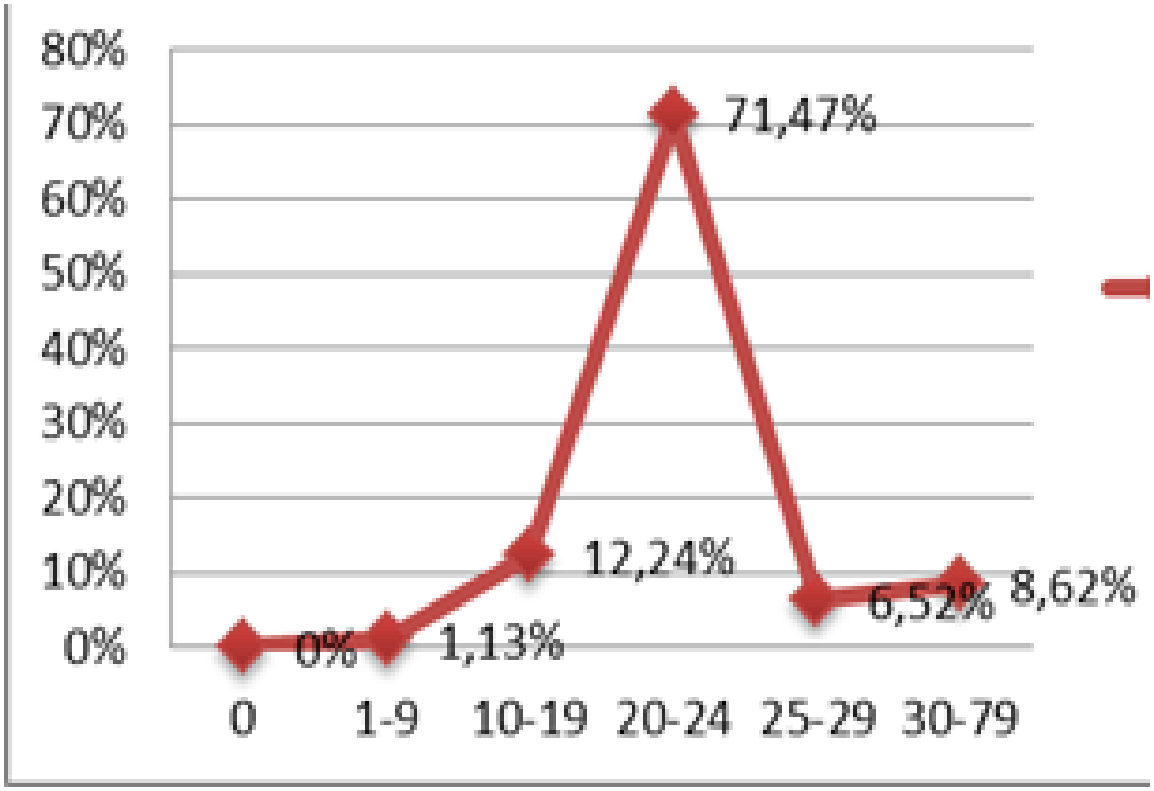
Report by Republic of North Macedonia

Map of the vaccination area



- 23,085 km², 21-22 baits per km²

Targeted sample distribution



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
Vardar	0	5	26	0	5	27	0	2	19	0	2	19
East	0		27	0		12	0		54	0		38
Southeast	0		39	0		55	0		44	0		36
Southwest	0		32	0		33	0		54	0		10
Pelagonia	0		29	0		36	0		32	0		18
Polog	0		3	0		6	0		0	0		7
Northeast	0		50	0		18	0		61	0		3
Skopje	0		10	0		9	0		15	0		2
Total	**0**	**5**	**216**	**0**	**5**	**196**	**0**	**2**	**279**	**0**	**2**	**133**

Monitoring of the effectiveness of the vaccination

Monitoring pressure Number of foxes hunted/100 km² of the vaccination zone (target=4 foxes/100 km2)				
	2016	2017	2018	2019
Vardar	20	23	19	19
East	19	12	39	30
Southeast	7	55	32	17
Southwest	28	33	29	22
Pelagonia	15	36	20	9
Polog	2	6	0	7
Northeast	43	18	59	3
Skopje	0	3	8	2
Total	**134**	**186**	**206**	**109**

Monitoring of the effectiveness of the vaccination

Monitoring: bait consumption

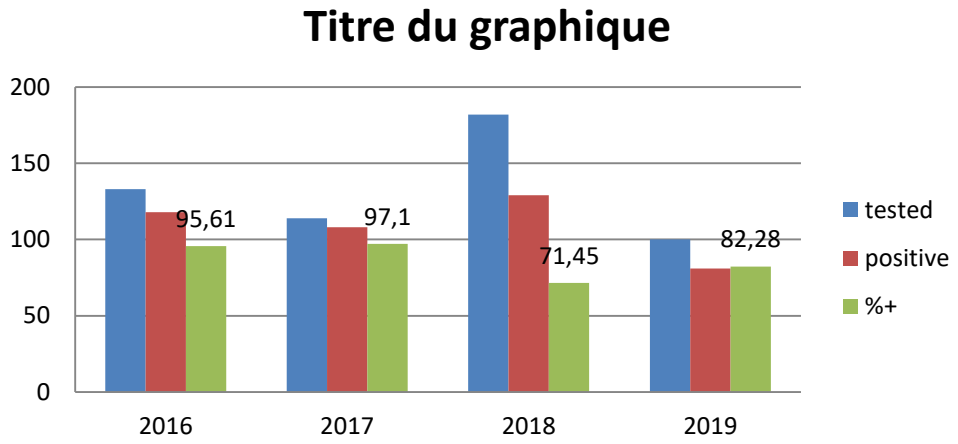
T = number of tested foxes (biomarker)
%+ = percentage of positive test results (biomarker)

	2016		2017		2018		2019	
	T	%+	T	%+	T	%+	T	%+
Vardar	20	95,00	26	96,15	19	89,47	16	93,75
East	19	100,00	3	100,00	40	65,00	30	83,33
Southeast	7	100,00	43	90,70	24	58,33	17	76,47
Southwest	28	92,86	16	100,00	24	58,33	18	77,78
Pelagonia	15	93,33	6	100,00	16	62,50	8	87,50
Polog	2	100,00	6	100,00	0	0,00	7	57,14
Northeast	42	88,10	14	92,86	52	80,77	3	100,00
Skopje	0	0,00	0	0,00	7	85,71	1	0,00
Total	**133**	**95,61%**	**114**	**97,10%**	**182**	**71,45%**	**100**	**82,28%**

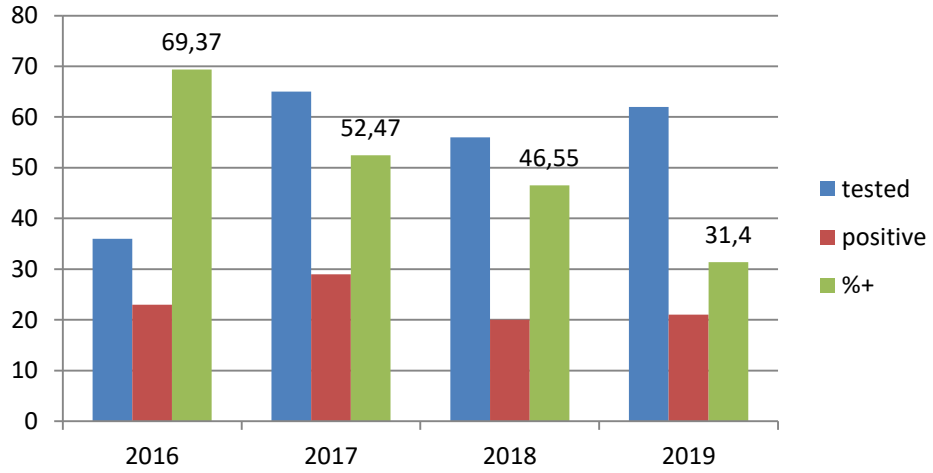
Monitoring of the effectiveness of the vaccination

Monitoring: serology T = number of tested foxes (serology) %+ = percentage of positive test results (serology)								
	2016		2017		2018		2019	
	T	%+	T	%+	T	%+	T	%+
Vardar	8	62,50	15	40,00	13	61,54	15	53,33
East	1	100,00	2	50,00	4	25,00	10	70,00
Southeast	7	71,43	22	31,82	7	28,57	9	22,22
Southwest	10	60,00	11	45,45	6	16,67	17	11,76
Pelagonia	3	66,67	5	60,00	4	75,00	8	12,50
Polog	4	25,00	5	40,00	0	0,00	2	50,00
Northeast	3	100,00	5	100,00	21	19,05	1	0,00
Skopje	0	0	0	0	1	100,00	0	0,00
Total	**36**	**69,37%**	**65**	**52,47%**	**56**	**46,55%**	**62**	**31,40%**

OVR monitoring since 2016 - 2018



Biomarker



Serology