



# **THE RESULTS OF THE IMPLEMENTATION OF THE RABIES CO - FINANCED ERADICATION PROGRAMME IN THE SLOVAK REPUBLIC IN 2010**



SCoFCAH 4. – 5. October 2011

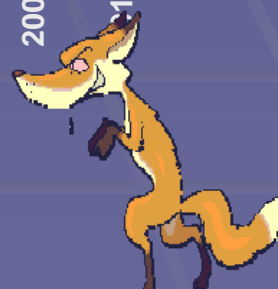
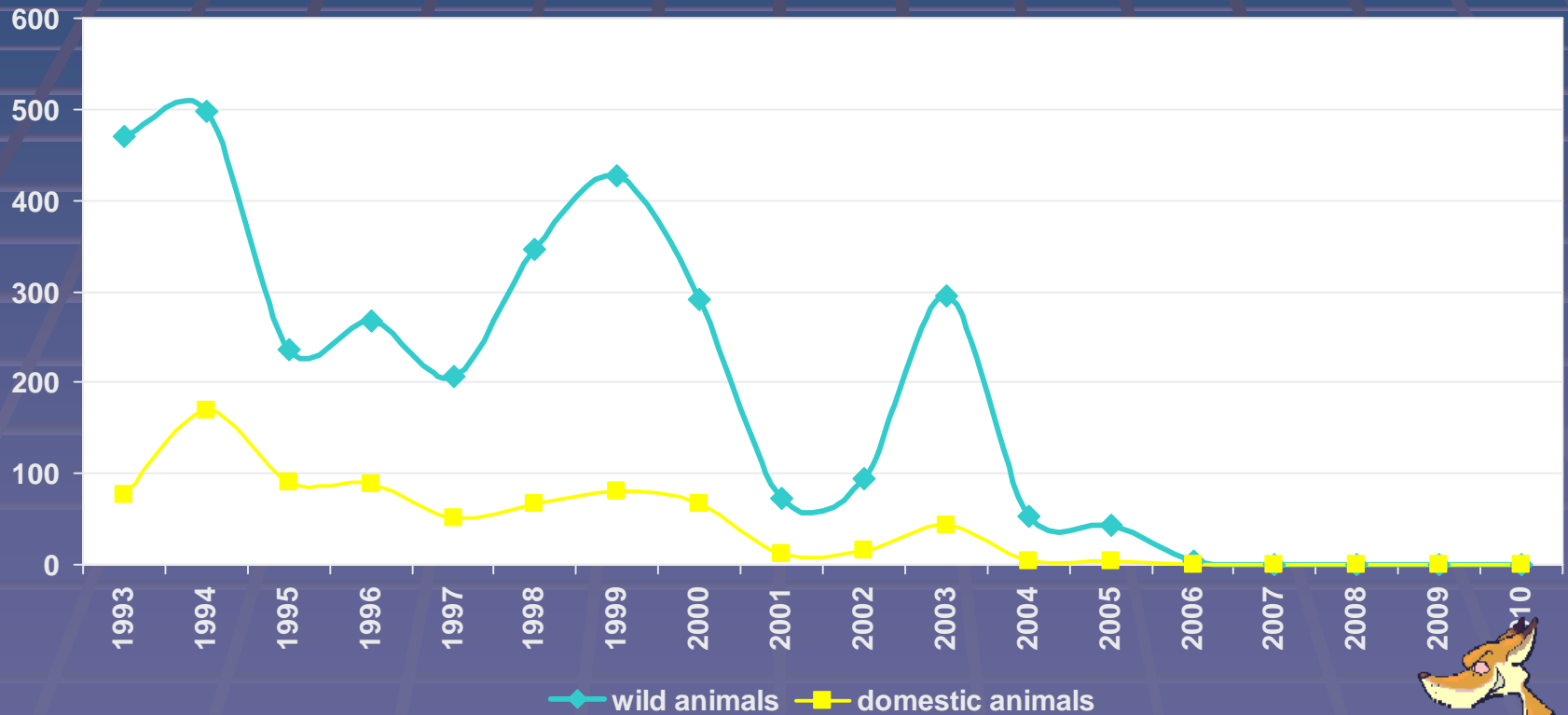


# *The last positive cases of Rabies in the Slovak Republic*

- wildlife **red fox** – August 2006
- wild animal **except fox** – December 2005
- **dog** – May 2005
- domestic animal except dog – **cat** – January 2005



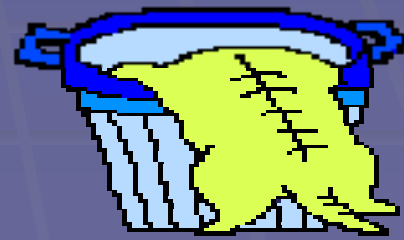
# *The Number of Positive Cases of Wild and Domestic Animals from 1993 to 2010 in Slovak Republic*





## *Main goals - 2010*

- To maintain the favourable epidemiological situation (no positive laboratory result was found)
- To continue with the protection of the territory of Slovakia for introduction of disease (especially across the border with Ukraine and Poland)



# *Legal framework*



- Act No. 39/2007 Coll. on veterinary care ( basic and most important )
- In connection with the rabies eradication programme were in place - 2009/883/EC - Commission Decision of 26 November 2009
- National Program of Eradication of Rabies in the Slovak Republic in 2010 (actualized yearly; in respect to the disease situation)
- Methodical Instructions of Oral Vaccination of Foxes in 2010 in the Slovak Republic

# ***NATIONAL PROGRAMME of rabies eradication in the Slovak Republic***



## **INCLUDES**

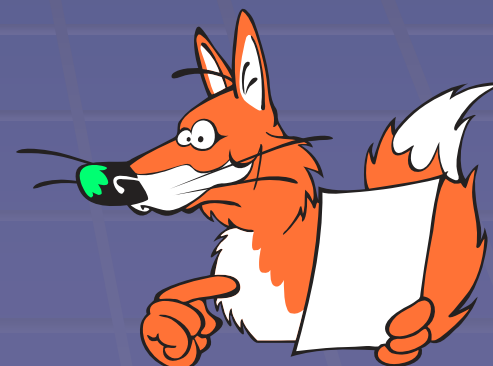
- ✓ legal basis of the programme
- ✓ definition of some terms
- ✓ instruction on the disease
- ✓ diagnostics
- ✓ system of disease notification
- ✓ control mechanisms
- ✓ movement of animals of susceptible species
- ✓ compensation at eradication
- ✓ measures at the disease occurrence
- ✓ vaccination programme



# Data on animals – year 2010

## Wildlife red fox

Region	Total number of animals	Number of animals to be tested under the programme	Number of animals tested	Number of positive animals
<b>Slovak Republic</b>	20 000 – 25 000	2 922	3 299	0





# Technical evaluation of the situation in the Slovak Republic in 2010

<b>Disease/species</b>	<b>Test</b>	<b>Type of sample</b>	<b>Type of test</b>	<b>Number of tests performed</b>
<b>Rabies/wildlife red fox</b>	<b>Virological analysis</b>	<b>brain</b>	<b>FAT</b>	<b>2 922</b>
<b>Rabies/wildlife red fox</b>	<b>Serological analysis</b>	<b>blood</b>	<b>ELISA</b>	<b>2 357</b>
<b>Rabies/wildlife red fox</b>	<b>Imunofluorescence (TTC marker detection)</b>	<b>Bone (mandibula)</b>	<b>Fluorescence test (TTC)</b>	<b>2 404</b>

## Results of examination of wild and domestic animals

	Wild animals				Domestic animals				The total number of animals		
	Red fox		Other		Dogs and cats		Other		Posit	Negat	Tested
Year	Posit	Negat	Posit	Negat	Posit	Negat	Posit	Negat	Posit	Negat	Tested
2000	292	1416	13	164	66	793	4	69	375	2442	2817
2001	72	1027	4	116	11	674	0	62	87	1879	1966
2002	94	1452	3	130	16	713	1	80	114	2375	2489
2003	295	1791	13	159	43	676	3	72	354	2698	3052
2004	54	1563	6	109	3	660	1	50	64	2382	2446
2005	44	1767	2	126	4	654	0	42	50	2589	2639
2006	1	3630	0	105	0	485	0	21	1	4241	4245
2007	0	3751	0	86	0	445	0	31	0	4313	4313
2008	0	3422	0	77	0	484	0	25	0	4008	4008
2009	0	3203	0	86	0	391	0	28	0	3708	3708
2010	0	2922	0	42	0	323	0	16	0	3301	3301
Total	852	25942	41	1200	143	6298	9	496	1045	33936	34984
Tested	26794		1241		6441		505		34981		



# Animals tested in year 2011

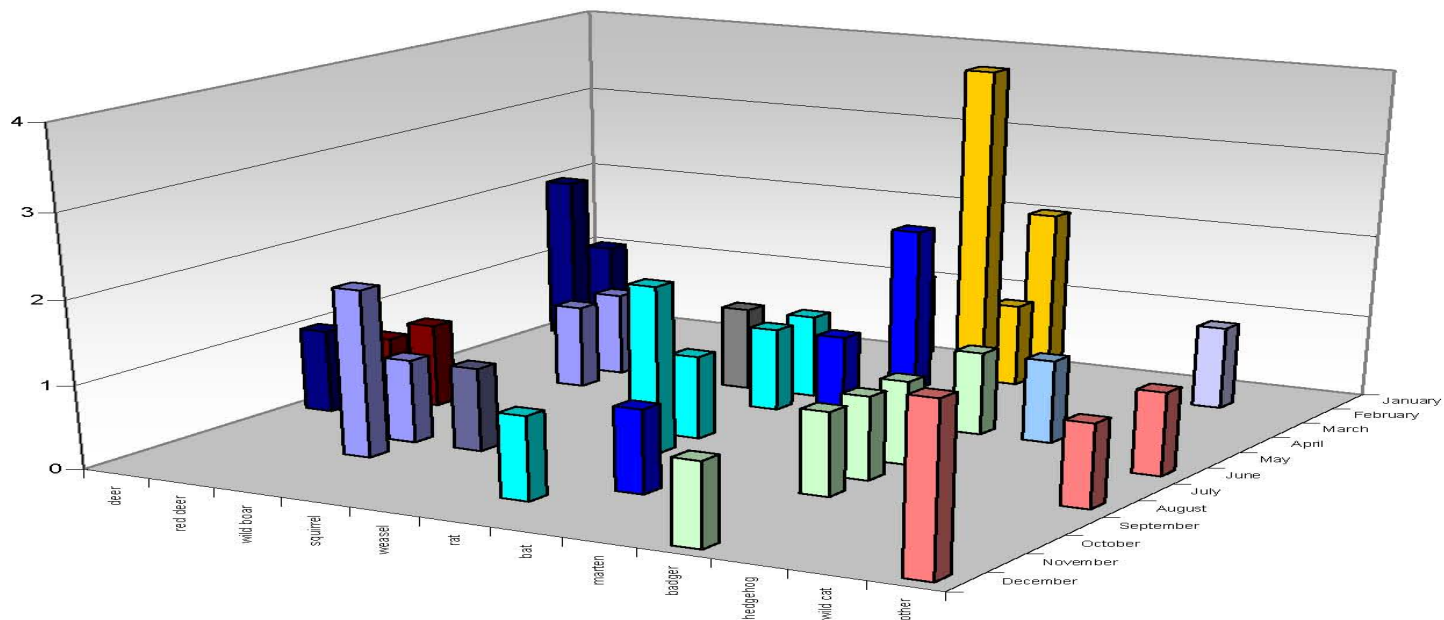


## Results of examination of wild and domestic animals

	Wild animals				Domestic animals				The total number of animals		
	Red fox		Other		Dogs and cats		Other				
Year	Posit	Negat	Posit	Negat	Posit	Negat	Posit	Negat	Posit	Negat	Tested
1Q 2011	0	2294	0	12	0	53	0	3	0	2362	2362
2Q 2011	0	473	0	20	0	83	0	10	0	586	586
<b>Tested</b>	<b>2767</b>		<b>32</b>		<b>136</b>		<b>13</b>		<b>2948</b>		<b>2948</b>



## Wildlife animals (without foxes) submitted for Rabies investigation in Slovakia during 2010



animal	January	February	March	April	May	June	July	August	September	October	November	December	Total
deer	1	2						1					4
red deer							1	1					2
wild boar				1	1				1	2			5
squirrel									1				1
weasel				1									1
rat	1			1	1		1	2			1		7
bat			2		1					1			4
marten	2	1	4										7
badger					1		1	1	1			1	5
hedgehog					1								1
wild cat		1											1
other						1		1				2	4
total	4	4	6	3	5	1	3	6	3	3	1	3	42



# Oral vaccination of foxes in 2010 in the Slovak Republic

- **Lyssvulpen por a.u.v.**, Bioveta a.s., CZ, - modified, attenuated rabies virus SAD Bern (+ TTC as indicator) given to bait
- in two seasonal campaigns i.e.  
07/04/10 – 05/05/10 – spring  
04/10/10 – 12/11/10 – autumn
- **spread by plain** - in area approx. 23 615km<sup>2</sup>, total 614 600 baits, 26 baits/1km<sup>2</sup>
- **spread by hand** – in area approx. 430km<sup>2</sup>, near the towns, total 7 740 baits, 18 baits/1km<sup>2</sup>
- **spread by plain** (autumn)- in area approx. 23 615km<sup>2</sup>, total 614 600 baits, 26 baits/1km<sup>2</sup>
- **spread by hand** ( autumn) – in area approx. 430km<sup>2</sup>, near the towns, total 7 740 baits, 18 baits/1km<sup>2</sup>



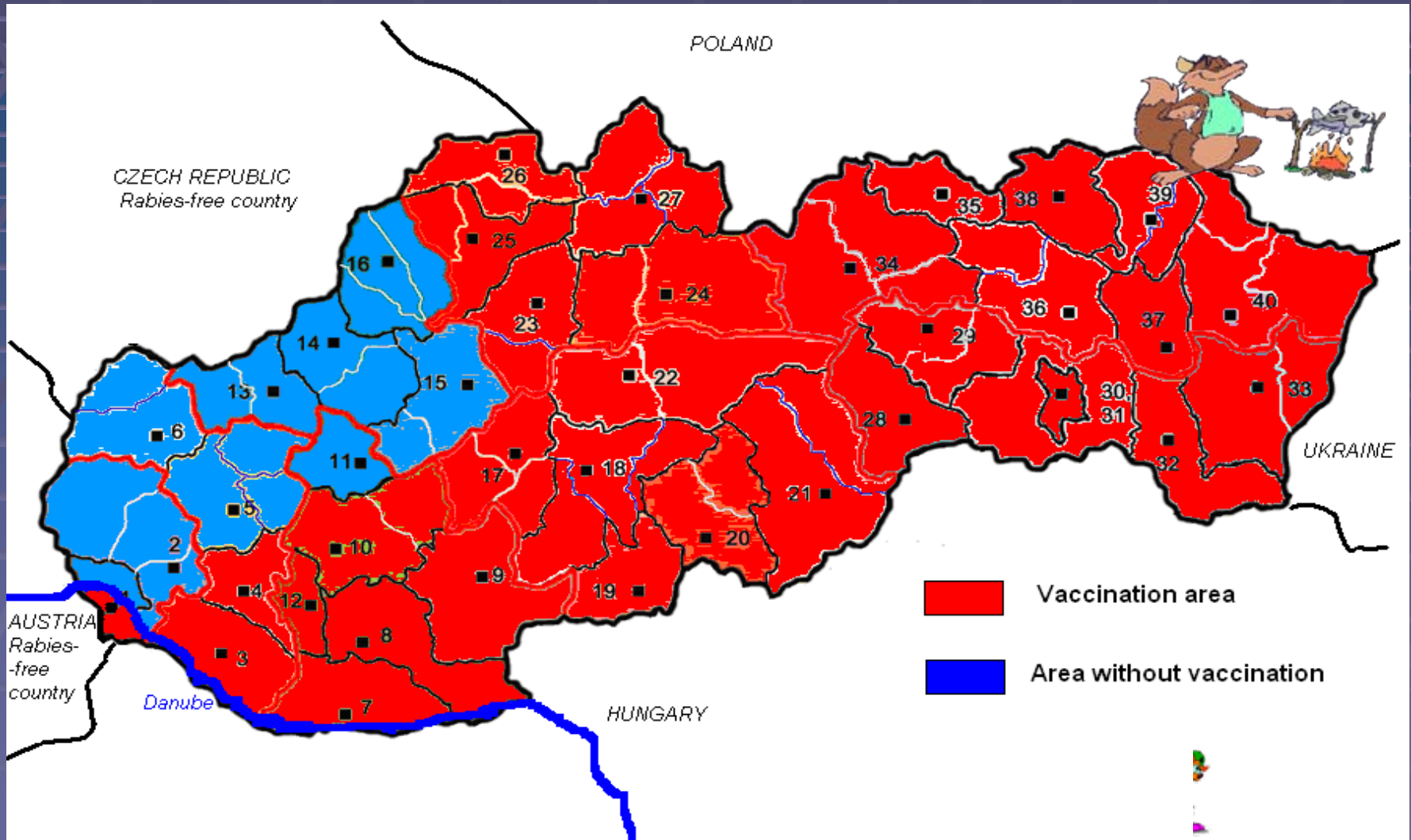
# Data on Mass Vaccination Program in 2010



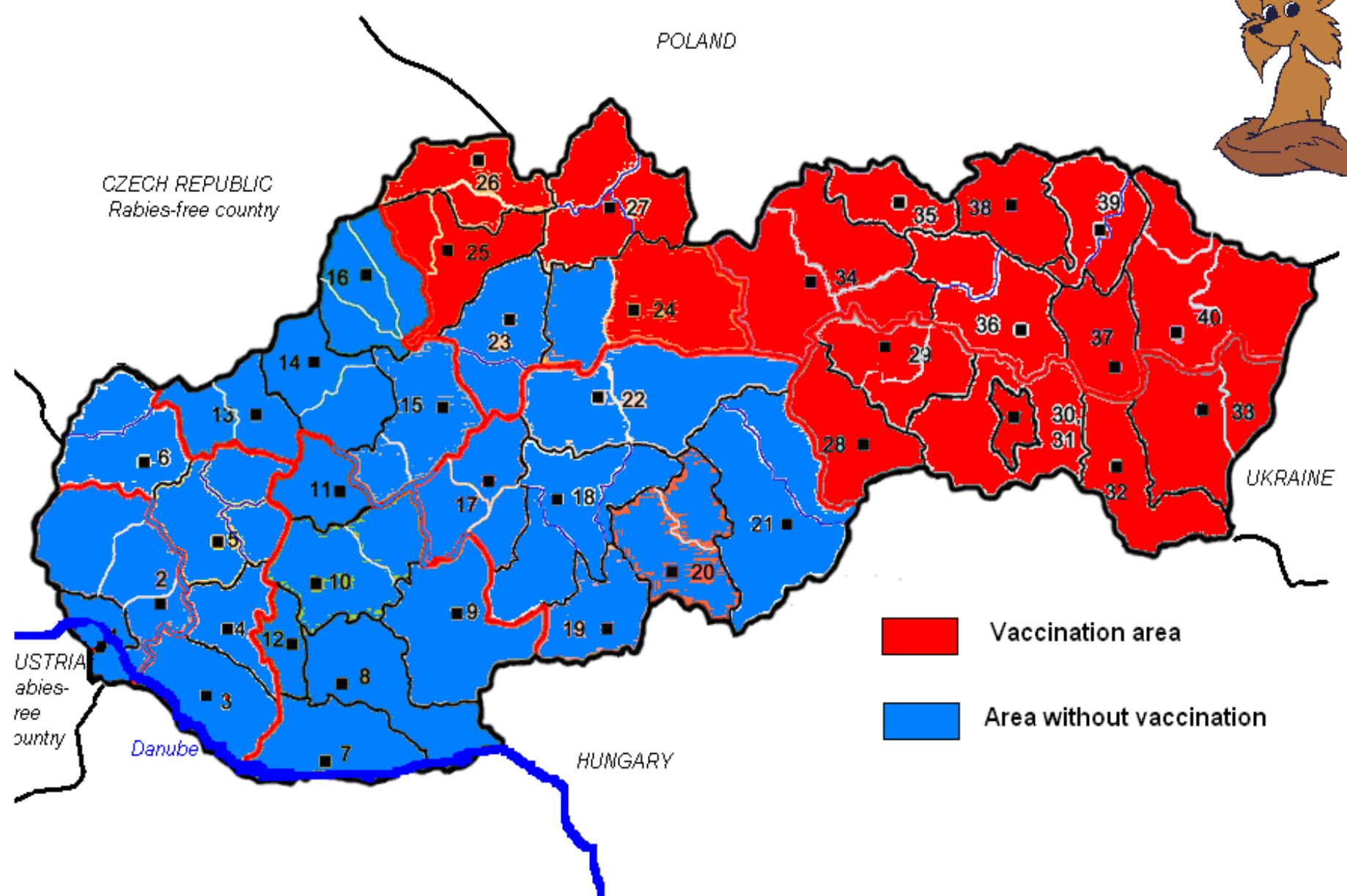
Region	Total number of animals	Number of adults vaccinated	Number of young animals vaccinated	Number of doses of vaccine administered
<b>Slovak Republic</b>	20 000 - 25 000	estimation 10 000 – 12 000	estimation 10 000 – 13 000	1 243 480



# Distribution of vaccine baits for oral vaccination of fox population in the Slovak republic 2010



# Distribution of vaccine baits for oral vaccination of fox population in the slovak republic in the year 2011

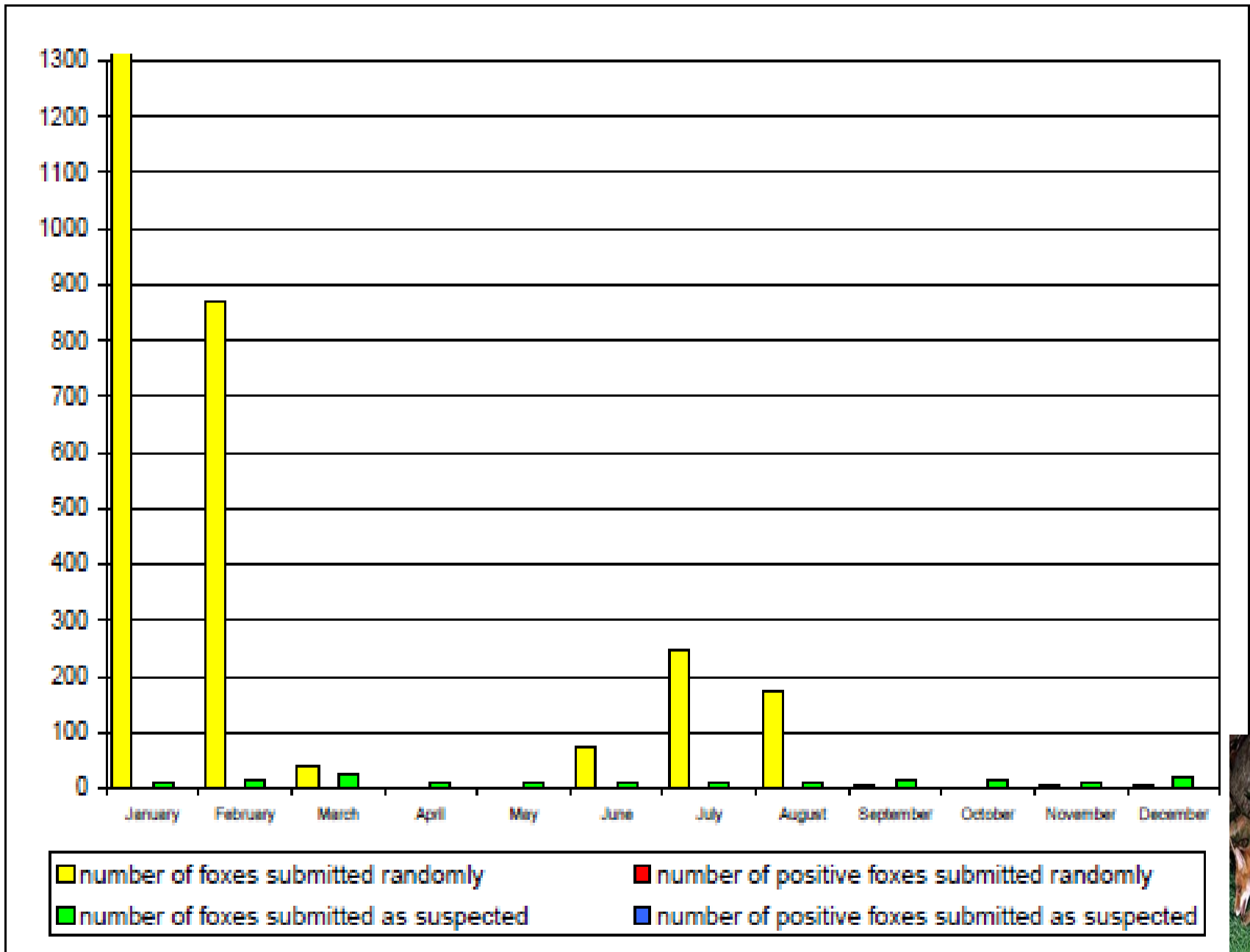


# The number of vaccine baits used within realization of the National Rabies Eradication Programme

YEAR	Oral vaccination of foxes spring campaign	Oral vaccination of foxes autumn campaign
2000	688.180 baits SAD Bern	335.000 baits SAD Bern 353.480 baits SAD Vnukovo 32/107
2001	280.000 baits SAD Bern 487.180 baits SAD Vnukovo 32/107	298.120 baits SAD Bern 503.268 baits SAD Vnukovo 32/107
2002	298.120 baits SAD Bern 503.268 baits SAD Vnukovo 32/107	798.600 baits SAD VA-1
2003	300.000 baits SAD Bern 399.950 baits SAD VA-1	727.400 baits SAD Bern
2004	876.000 baits SAD Bern	868.500 baits SAD Bern
2005	856.900 baits SAD Bern	856.900 baits SAD Bern
2006	856.900 baits SAD Bern	856.900 baits SAD Bern
2007	856.900 baits SAD Bern	856.900 baits SAD Bern
2008	856.900 baits SAD Bern	856.900 baits SAD Bern
2009	856.900 baits SAD Bern	622.340 baits SAD Bern
2010	622.340 baits SAD Bern	622.340 baits SAD Bern



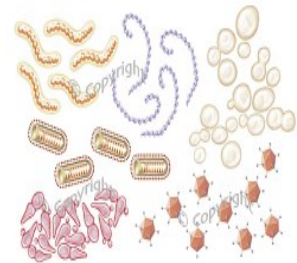
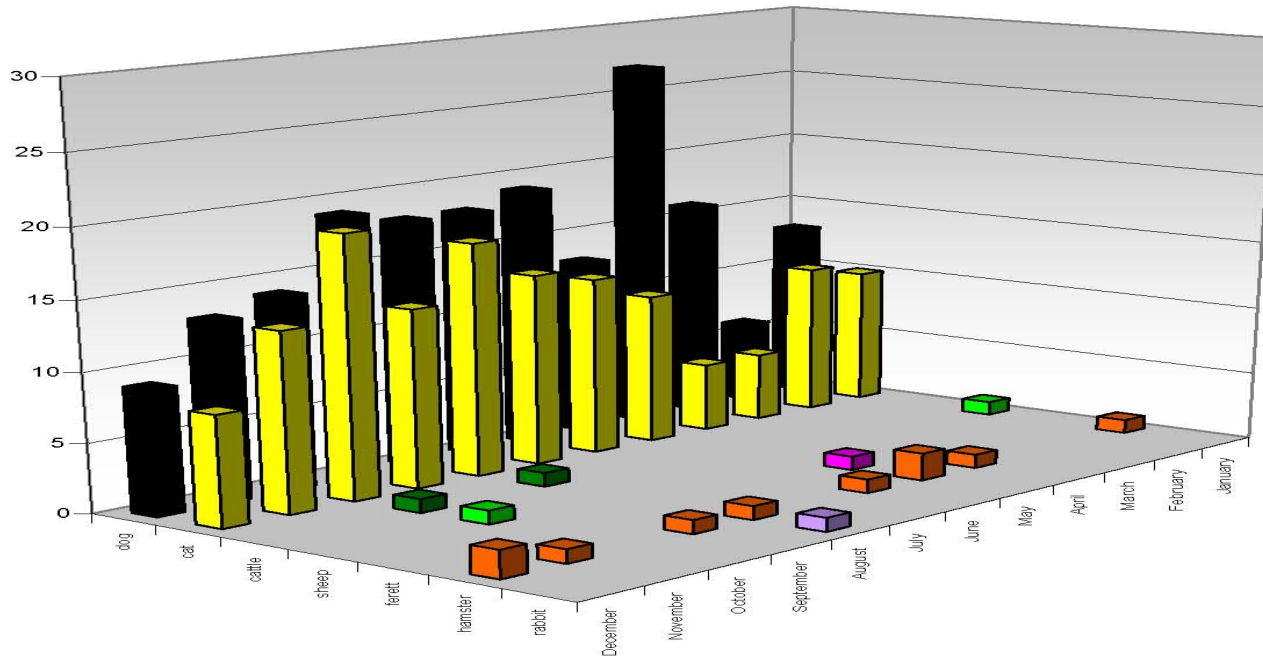
# Foxes submitted for Rabies investigation in Slovakia during 2010



month	number of foxes submitted randomly	number of positive foxes submitted randomly	% of positive	number of foxes submitted as suspected	number of positive foxes submitted as suspected	% of positive	number of foxes submitted total	number of positive foxes total
January	1345		0,0%	9		0,0%	1354	0
February	868		0,0%	16		0,0%	884	0
March	40		0,0%	25		0,0%	65	0
April				12		0,0%	12	0
May				8		0,0%	8	0
June	76		0,0%	8		0,0%	84	0
July	245		0,0%	12		0,0%	257	0
August	174		0,0%	9		0,0%	183	0
September	5		0,0%	15		0,0%	20	0
October				16		0,0%	16	0
November	4		0,0%	10		0,0%	14	0
December	6		0,0%	19		0,0%	25	0
total	2763	0	0,0%	159	0	0,0%	2922	0



## Domestic animals submitted for Rabies investigation in Slovakia during 2010



animal	January	February	March	April	May	June	July	August	September	October	November	December	total
dog	13	6	16	27	13	19	18	18	19	14	13	9	185
cat	10	11	5	5	11	13	14	17	13	19	13	8	139
cattle								1		1			2
sheep	1									1			2
ferret					1								1
hamster	1			1	2	1		1	1		1	2	10
rabbit								1					1
total	25	17	21	33	27	33	32	38	33	35	27	19	340

# Financial provision of plan part with financial contribution from the EC

- financial contribution from the Community for the eradication, control and monitoring representing 75% of costs intended for
  - cost of vaccine doses and baits (per dose)
  - cost of vaccine distribution (per dose)
  - laboratory diagnostics – ELISA test, test to detect tetracycline in bone, FAT test



# Final Financial Report in Slovak Republic in 2010 – measures eligible for Rabies co-financed eradication program



Region	Vaccines and distribution (EUR)	Laboratory analysis (EUR)	Totally Costs (EUR)	Cofinanced (EUR)
Slovak Republic	569 921,2	123 780,7	693 701,9	520 276,43



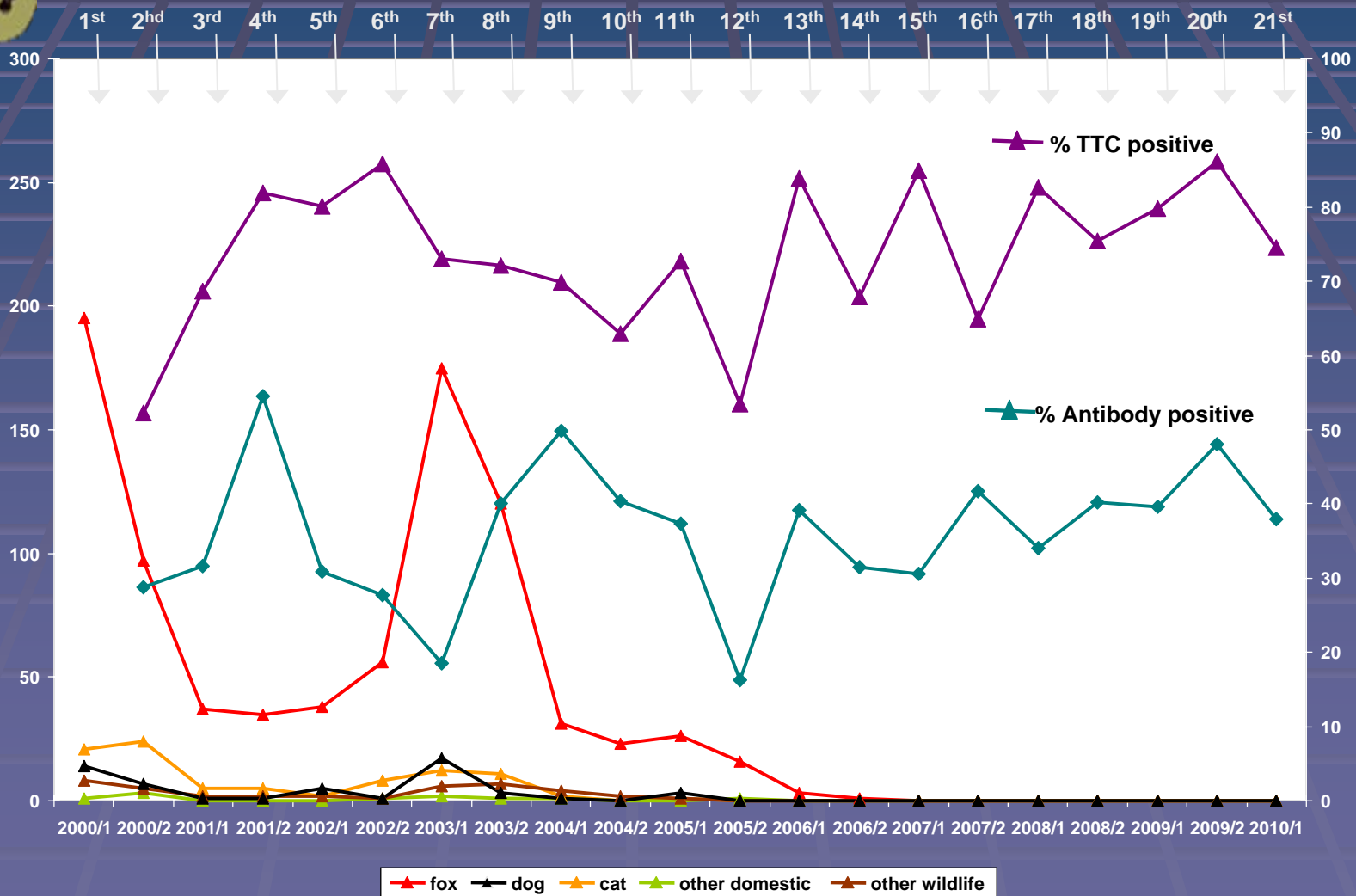


# Conclusions

- The Slovak Republic is a **free from rabies** since 2009 (declared on the SCoFCAH meeting in June 2009) – it fulfils the requirements of Article 8.10.2. in all five points of Terrestrial Animal Health Code
- In next years the Slovak Republic will continue with
  - oral vaccination of foxes
  - vaccination of domestic carnivoras
  - monitoring of rabies in wild and domestic animals in the whole territory of the Slovak Republic



# Occurrence of Rabies in Slovakia during 2000 – 2010



Thank you for your attention

