

State Food and Veterinary Service of the Republic of Lithuania



Implementation of the rabies eradication program in Lithuania in 2014



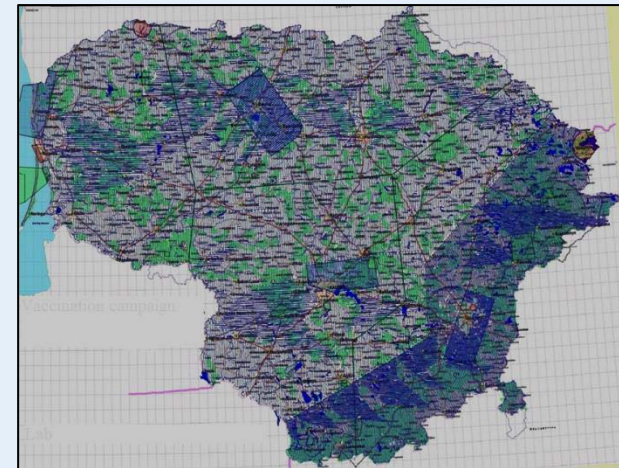
Oral rabies vaccination (ORV) of wild animals

Territory of the country is 65'000 sq.km

ORV is performed in 63'000 sq.km

Vaccine distributed in parallel lines separated by:

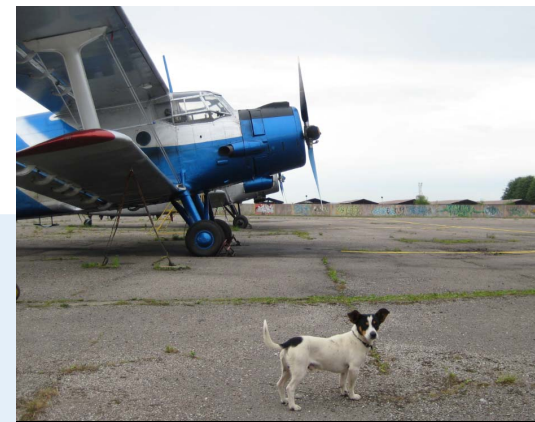
- ✓ 500 meters at the border with Byelorussia
- ✓ 1000 m in other territory





Oral rabies vaccination of wildlife

- **Oral rabies vaccination performed twice a year**
- **2.600.000 baits / year**
- **1.300.000 baits / campaign** (spring or autumn)
- **Optimal number of baits was not less than 20 units per sq. km**





Vaccine



- ❑ **LYSVULPEN vaccine** (since 2013)
- ❑ Vaccine with biomarker – tetracycline



bait uptake

- **Targeted species:** red foxes and raccoon dogs
- **Evaluation of bait-uptake** in target species is ensured by testing for the occurrence of a biomarker (tetracycline) in the teeth and bones of animals
- Not less than 4 samples of targeted species per 100 sq.km for monitoring purpose



Evaluation of the oral vaccination

- testing for the occurrence of a biomarker (tetracycline), which is incorporated into the bait
- examining sera from the target species for rabies virus neutralising antibody
- analysing the incidence of rabies in animals before, during and after the implementation of oral vaccination programme

Effectiveness of ORV in 2014

Tetracycline 2122 samples

Foxes: (1563)

young – 84,89 %

adult – 97,26 %

Raccoon dogs: (559)

young – 72,42 %

adult – 84,52 %



Serology 1336 samples

Foxes:(1010)

young – 56,86 %

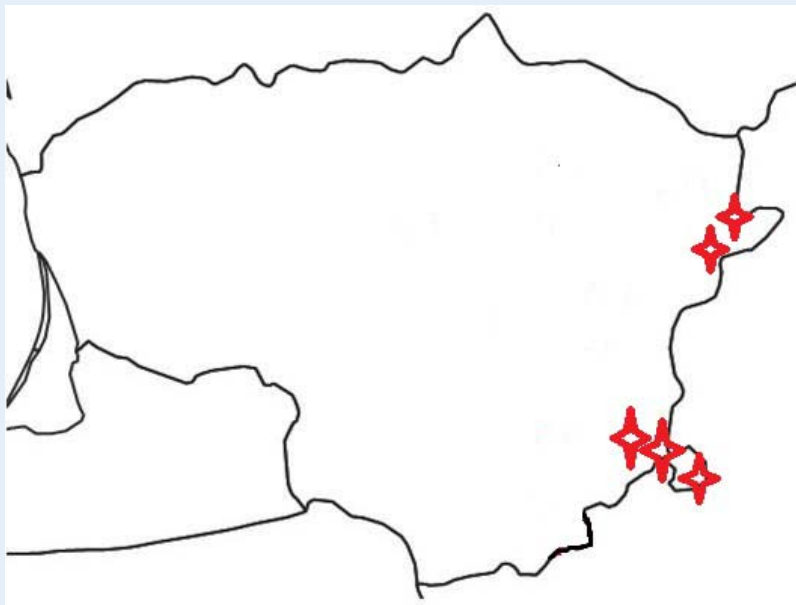
adult – 74,97 %

Raccoon dogs: (326)

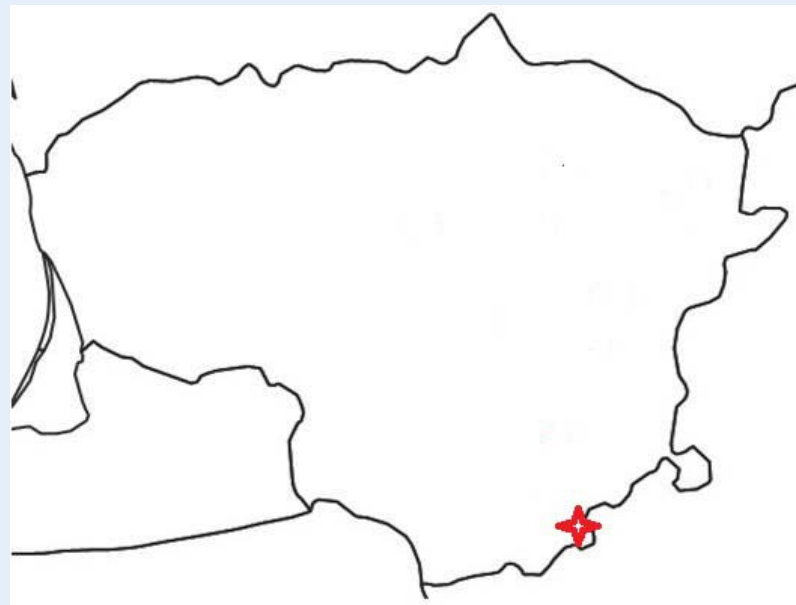
young – 64 %

adult – 76,41 %

Rabies incidences in 2012 and 2013



(2012- POSITIVE-5)



(2013 -POSITIVE-1)



Data of 2014

No cases of rabies have been detected so far!



Oral rabies vaccination in Byelorussia

➤ Since 2011 oral vaccination of rabies was performed in 50 km buffer zone in Belarus

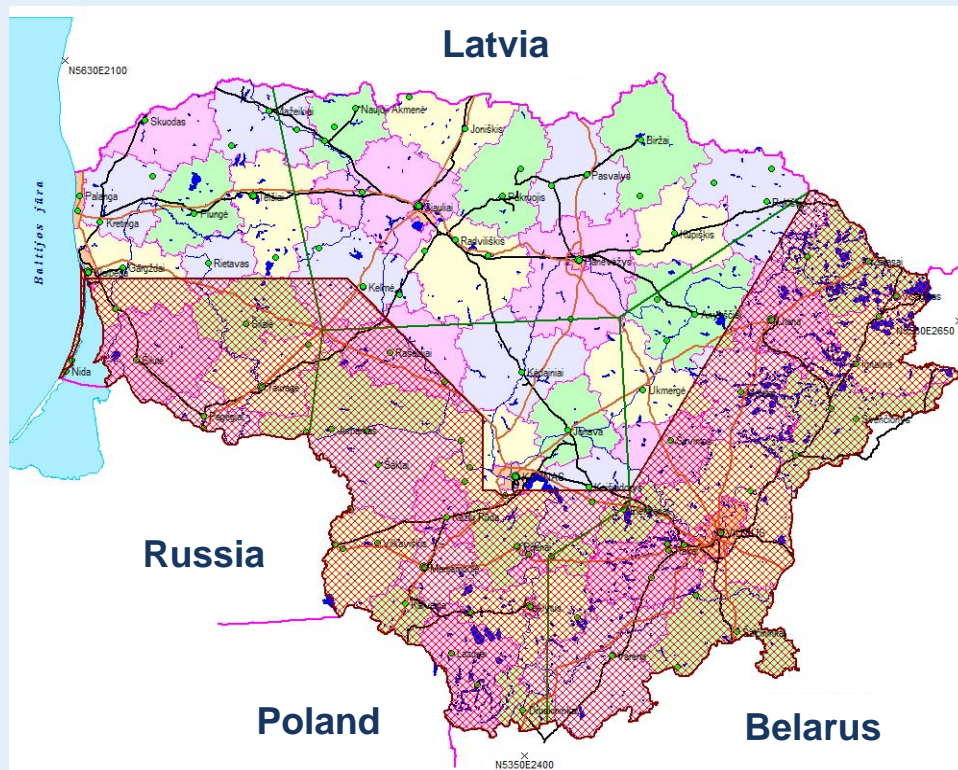
➤ 1.452.500 baits per year

➤ ~22 baits per sq.km

➤ spring and autumn campaigns



Further ORV strategy for 2015-2017



- Buffer zone of 50 km (34'300 sq.km)
- Not less than 25 baits per sq.km
- Parallel lines separated by 500 m
- 857' 500 baits per campaign



Thank you for your attention!