



State
Veterinary
Administration

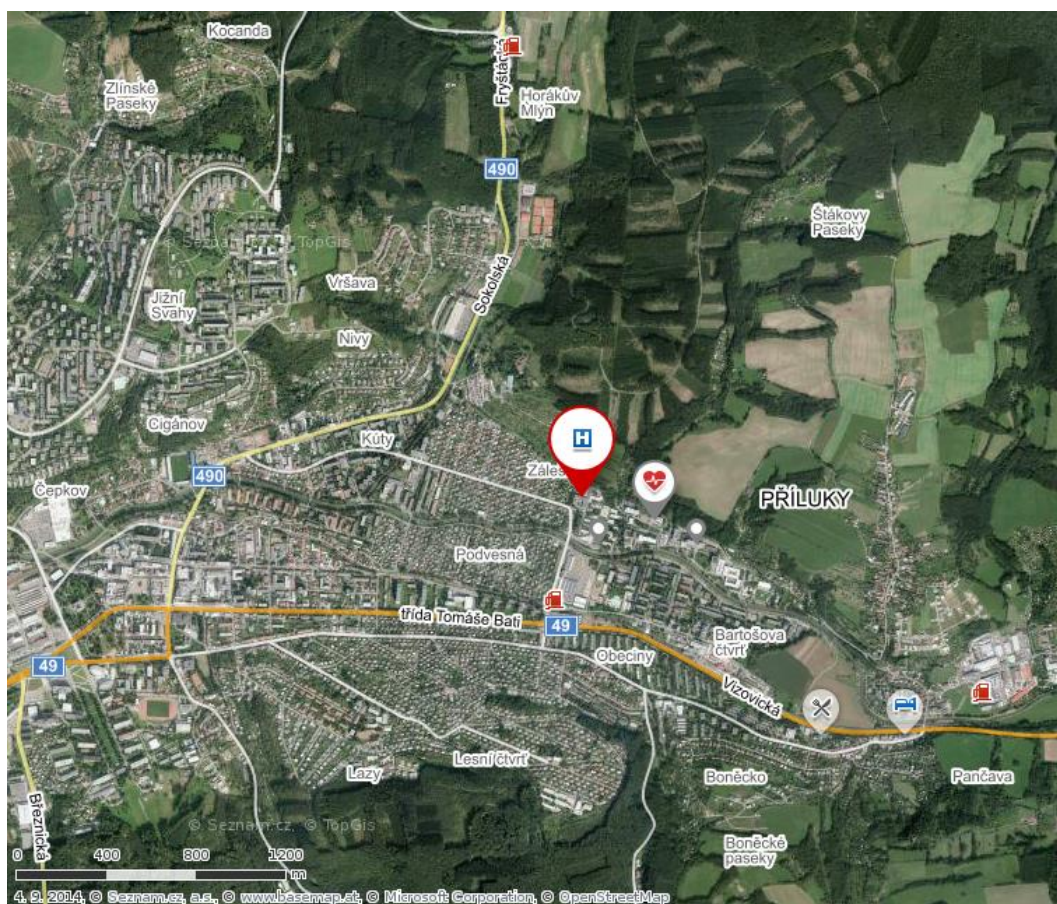
African swine fever in wild boars in the Czech Republic

Petr Šatrán, Brussels 25. 10. 2017

First occurrence of ASF virus in wild board in the Czech Republic

Date of finding: 21.6.2017, confirmation: 26.6.2017 (NRL SVI Jihlava)

Location of finding: Příluky u Zlína, GPS 49°13'44.303"N, 17°42'1.996"E



Current epidemiological situation (23. 10. 2017)

First case of ASF - date of carcass finding: 21.6.2017

In total **112** cases of African swine fever in wild boar population

No outbreak in domestic pigs

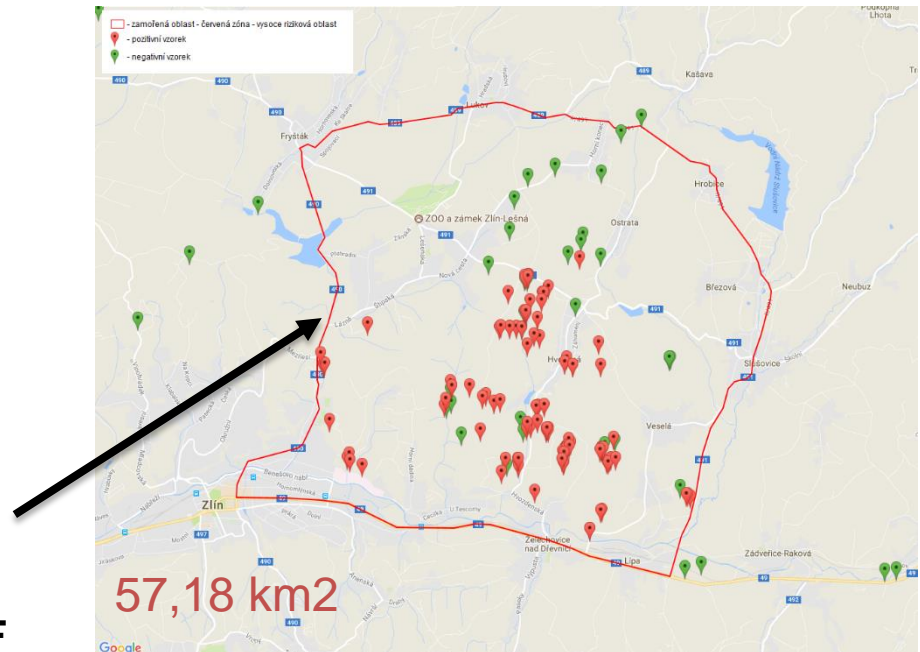
Date of the last positive case was found: 29 September 2017

All cases in high risk area in District Zlín:

Hvozdná	42
Klečůvka	11
Kostelec u Zlína	7
Lužkovice	40
Ostrata	1
Příluky u Zlína	8
Zlín	1
Želechovice nad Dřevnicí	2
Total	112

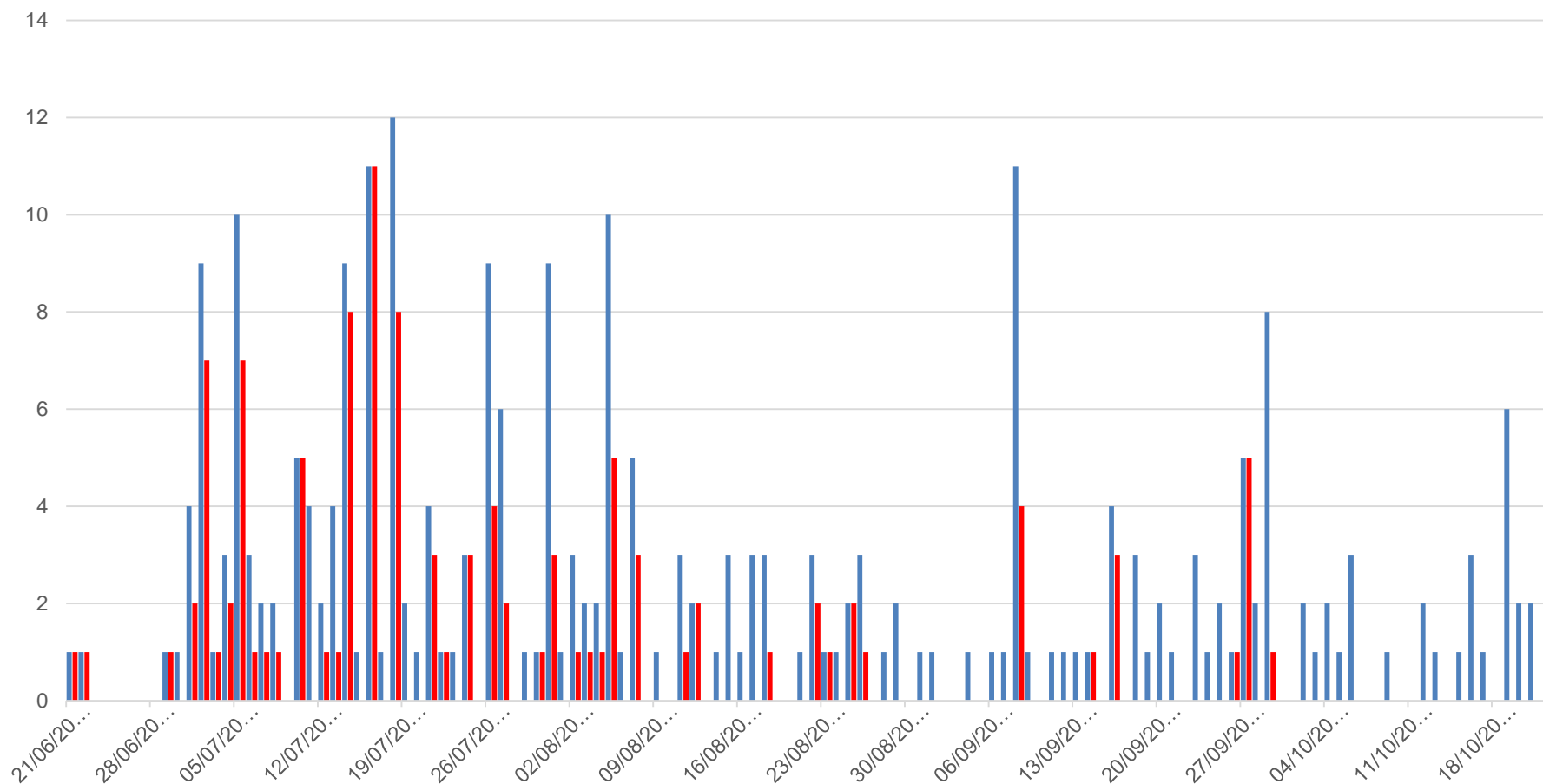
Mortality rate in the high risk zone
155 found death / 112 positive for ASF

Infected area district Zlín 262 / 112



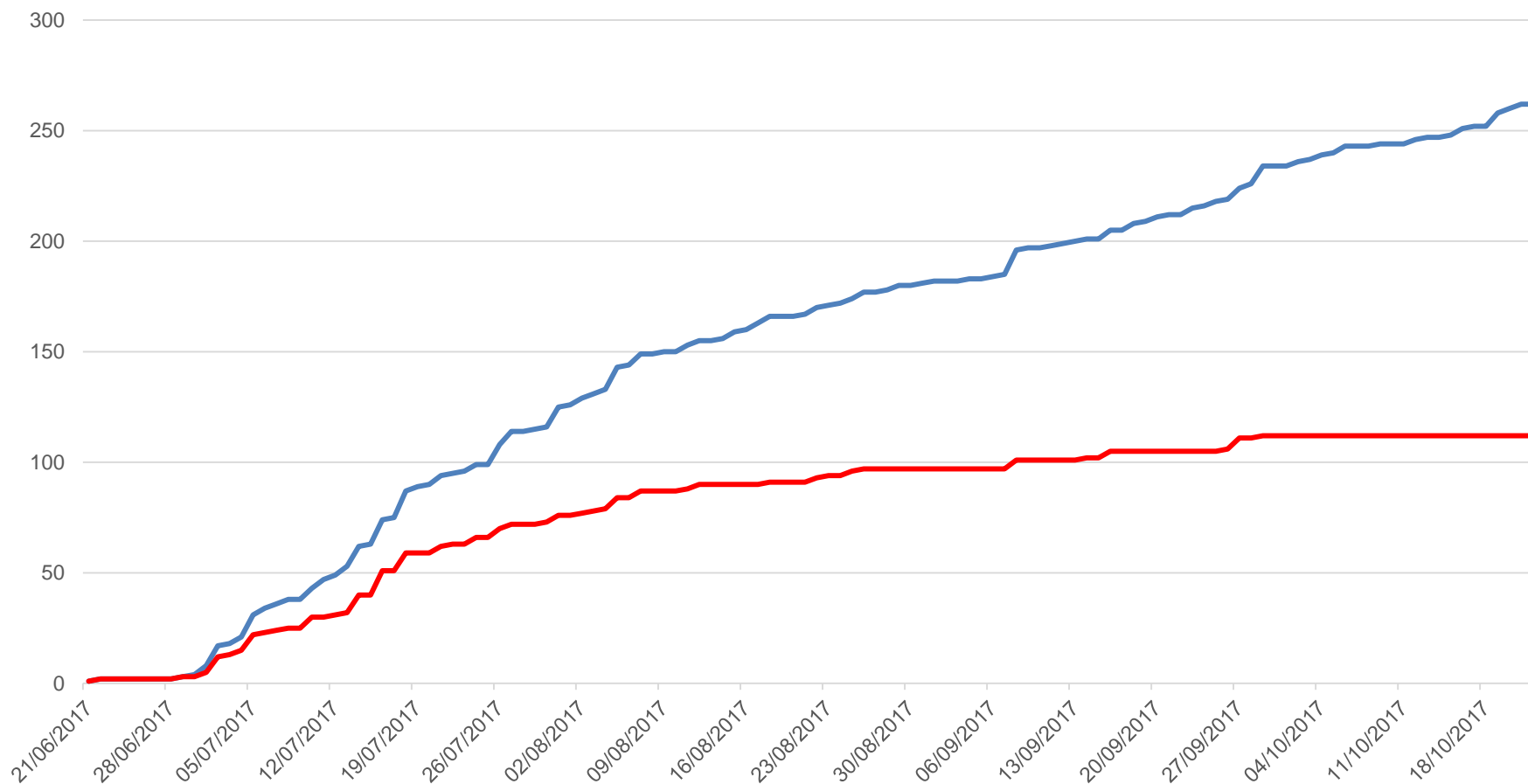
Findings of dead found wild boars – daily incidence

- numbers of dead found wild boar in the District Zlín (in total 262)
- numbers of ASF positive wild boars (in total 112)



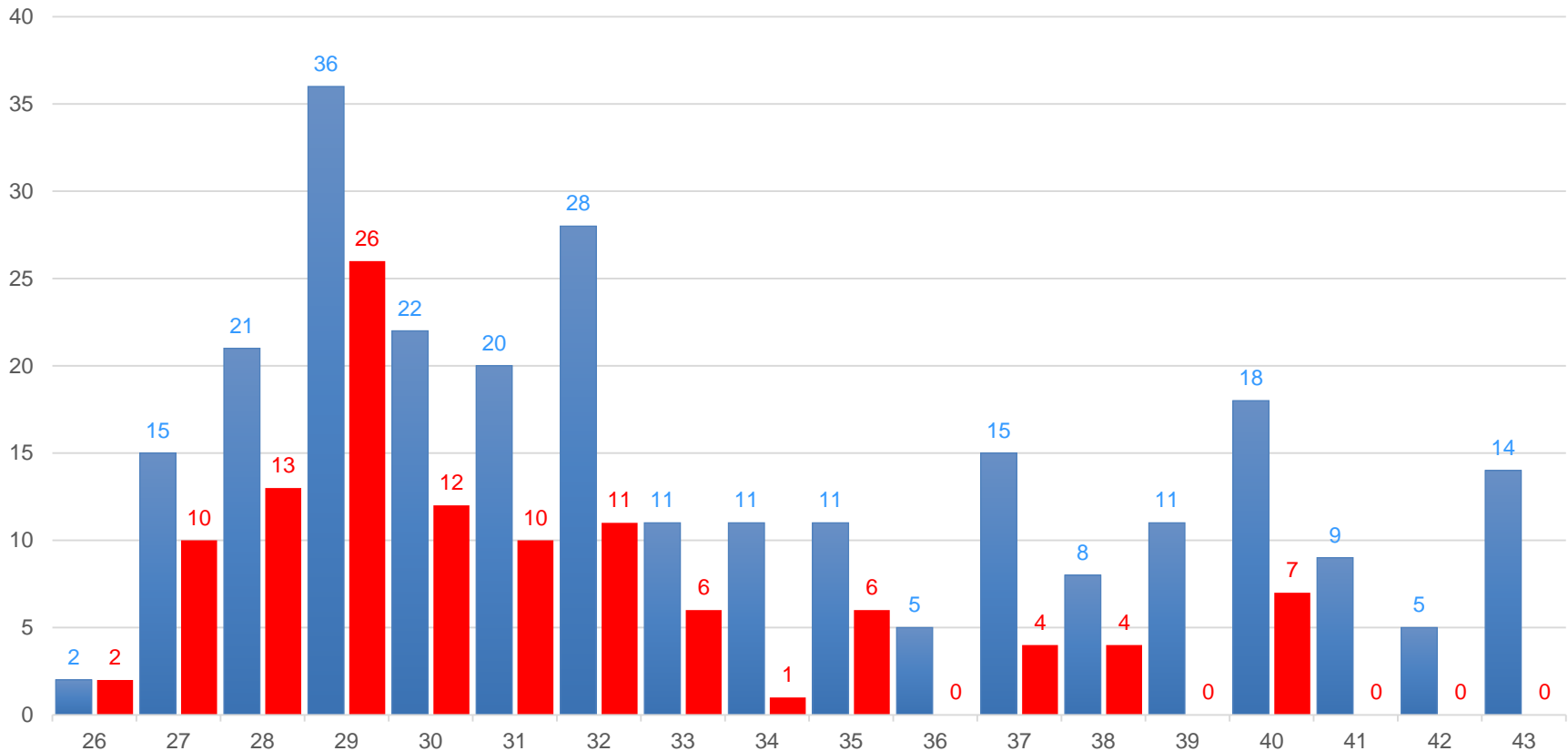
Findings of dead wild boars – cumulative incidence

- numbers of dead found wild boars in the District Zlín (in total 262)
- numbers of ASF positive wild boars (in total 112)



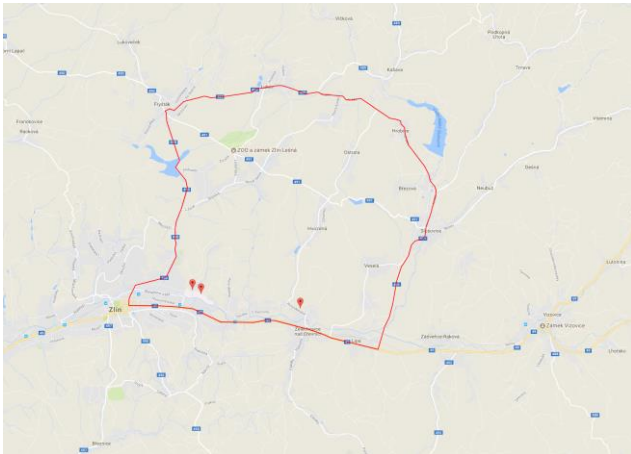
Findings of dead wild boars - weekly incidence

- numbers of dead found wild boars in the District Zlín (in total 262)
- numbers of ASF positive wild boars (in total 112)

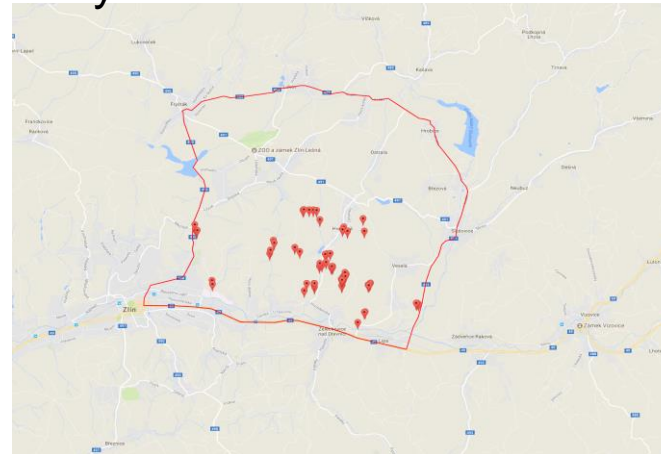


Distribution of positive findings in months

June 2017



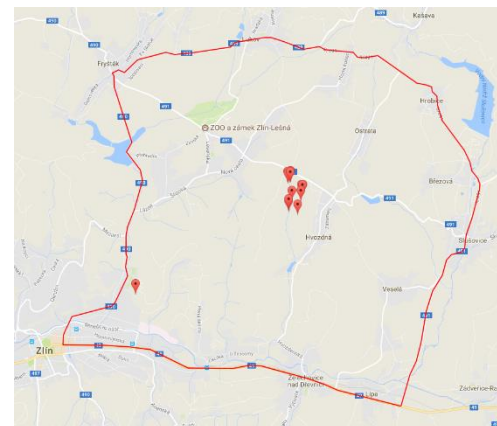
July 2017



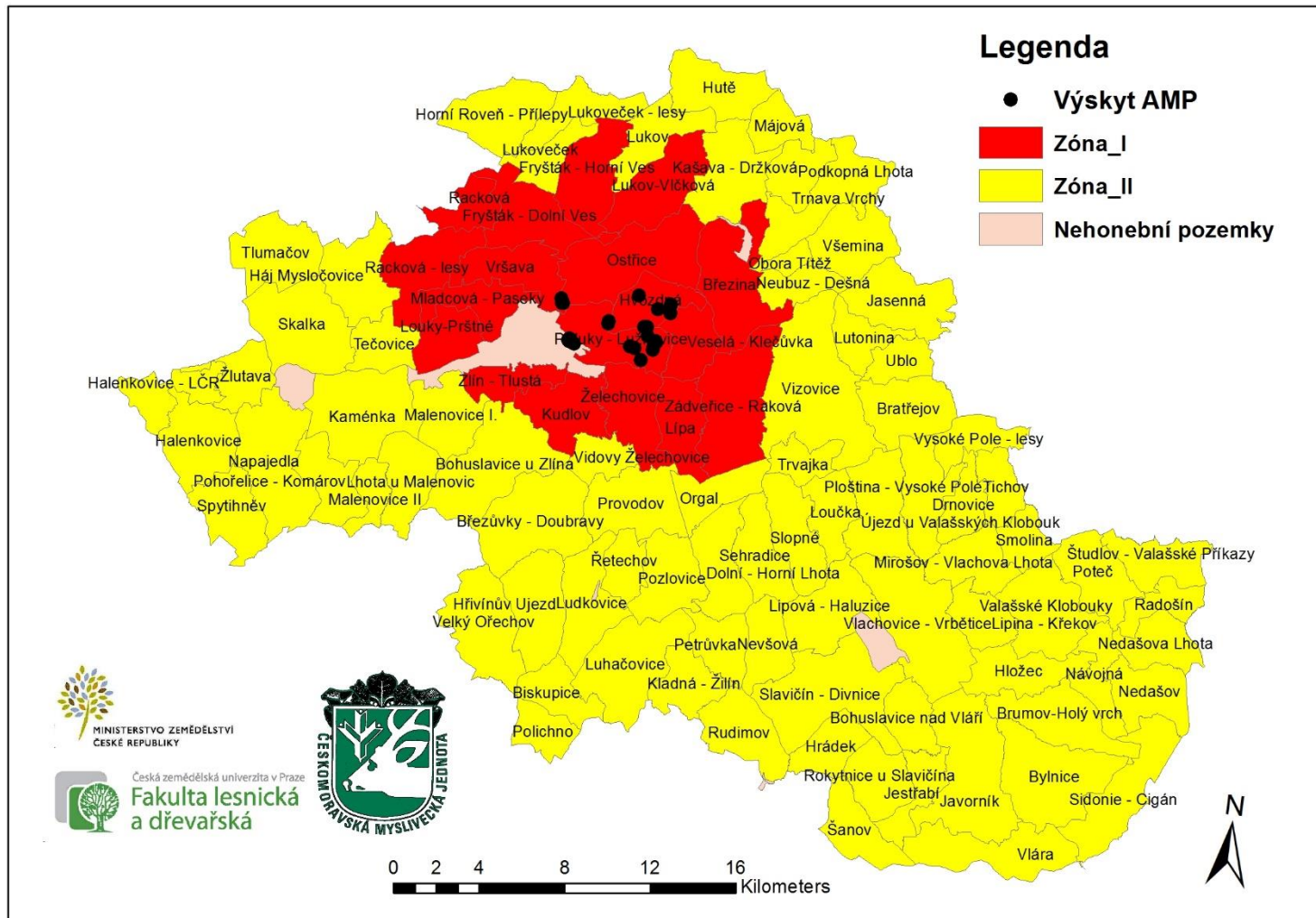
August 2017



September 2017



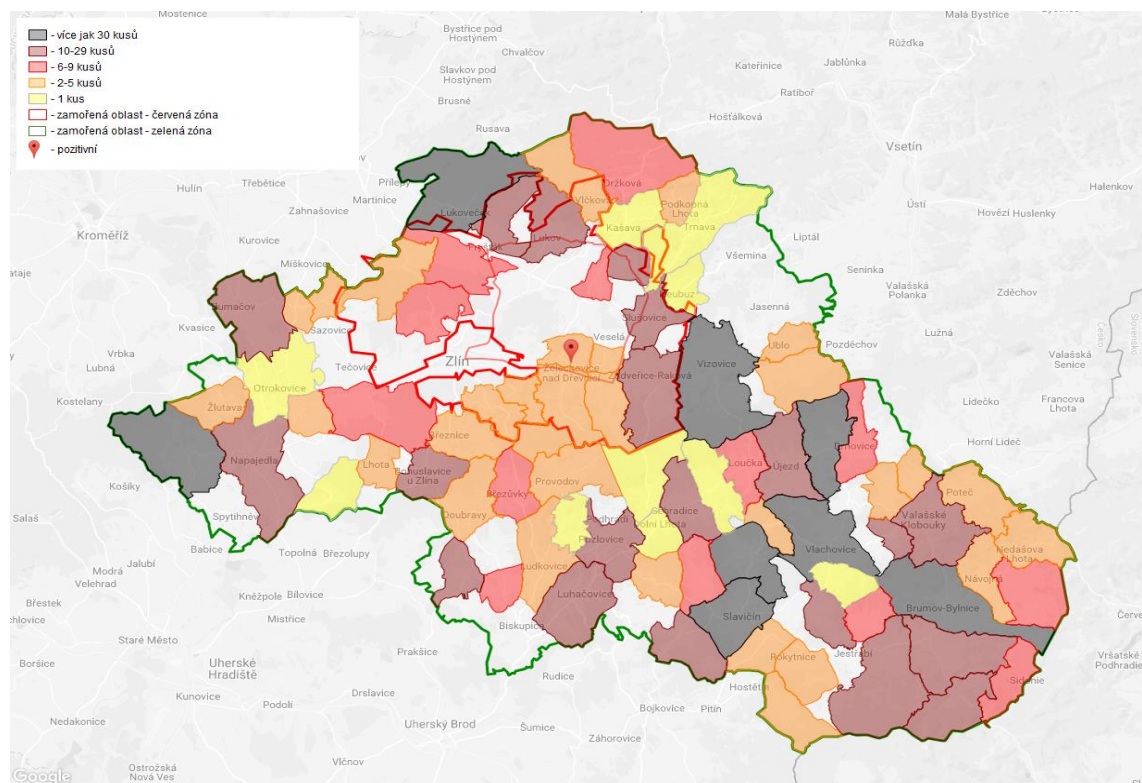
High and low risk zone for hunting rules



Hunted wild boars in infected area – 23th October

The total number **1005**

All hunted wild boars are tested for ASF (virologically and serologically) in the NRL. Only 1 case of wild boar caught in trapping facility in hunting area Lužkovice was positive.



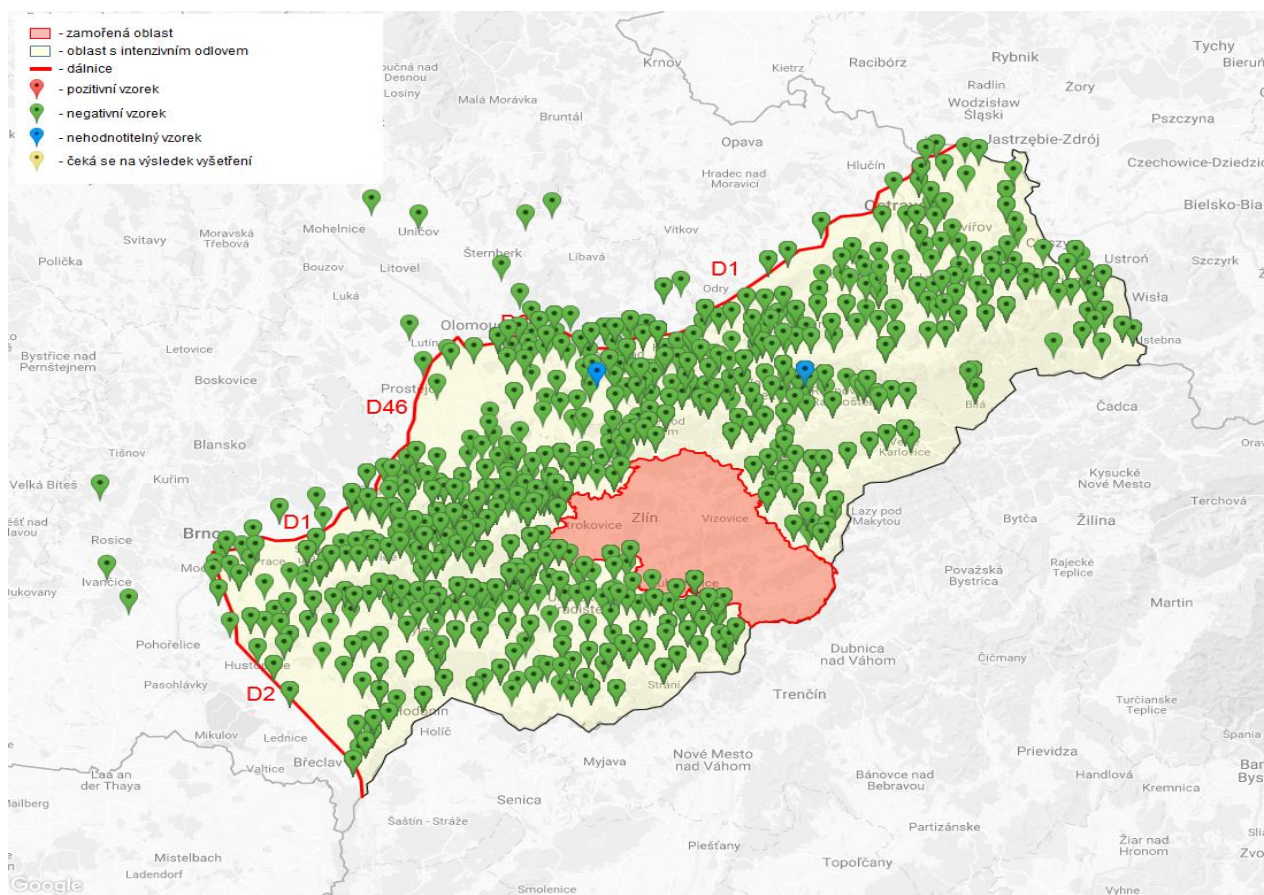
Tested 972

High risk - hunting	78 / 0
High risk - trapping	26 / 1
Low risk - hunting	868 / 0

Results of testing of hunted wild boars in area with intensive hunting to 20. 10. 2017

The total number of wild boars hunted: **5 948**

All with negative result for ASF



Overview of results of virology testing of samples taken from hunted wild boars in the area with an intensive hunting (23 October 2017)

Region	District	No of tested hunted wild boars	No of positive result	Testing is not possible
Region Vysocina	Pelhřimov	1	0	
South Moravian Region	Brno-město	4	0	
South Moravian Region	Brno-venkov	42	0	
South Moravian Region	Břeclav	221	0	
South Moravian Region	Hodonín	818	0	
South Moravian Region	Vyškov	392	0	
South Moravian Region	Znojmo	2	0	
Region Olomouc	Olomouc	63	0	
Region Olomouc	Prostějov	10	0	
Region Olomouc	Přerov	355	0	1
Region Olomouc	Šumperk	5	0	
Region Olomouc	Kroměříž	1126	0	
Region Zlín	Uherské Hradiště	1196	0	
Region Zlín	Vsetín	847	0	1
Moravian-Silesian Region	Frýdek-Místek	537	0	
Moravian-Silesian Region	Karviná	30	0	
Moravian-Silesian Region	Nový Jičín	218	0	
Moravian-Silesian Region	Ostrava-město	44	0	
Not specified		1		
In total		5948	0	2

CZ Results of the monitoring of dead wild boars from 1 January to 23 October 2017

Region	Number of tested animals	Number of positive animals
Prague, the Capital	7	0
Central Bohemian Region	81	0
South Bohemian Region	77	0
Region Pilsen	91	0
Region Karlovy Vary	54	0
Region Ústí nad Labem	135	0
Region Liberec	38	0
Region Hradec Králové	20	0
Region Pardubice	44	0
Region Vysočina	75	0
South Moravian Region	122	0
Region Olomouc	68	0
Region Zlín	258	112
Moravian-Silesian Region	36	0
In total	1106	112



17. – 19. 10. 2017

**The situation has been
evaluated on the spot
by GF TAD mission with
experts from**

IT, EE, LV, RF, DE



State
Veterinary
Administration

PLAN OF THE ERADICATION OF AFRICAN SWINE FEVER IN THE POPULATION OF WILD BOARS

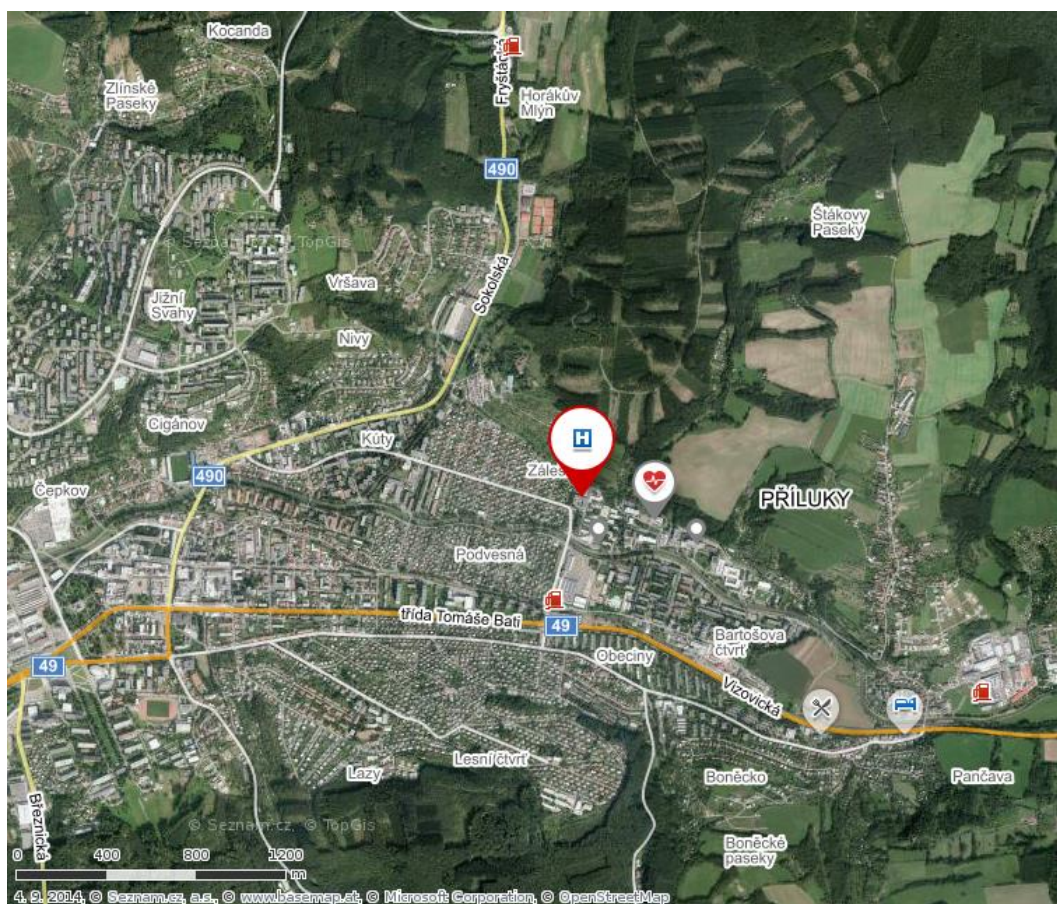
Aims of the eradication plan according CD 2002/60/EC

- To prevent spreading of disease in wild boars population;
- To prevent introduction of disease to domestic pigs holding;
- To reduce the wild boars population;
- Eradication of African swine fever (ASF) in wild boars population in the infected area

ASF virus in wild board in the Czech Republic

Date of finding: 21.6.2017, confirmation: 26.6.2017 (NRL SVI Jihlava)

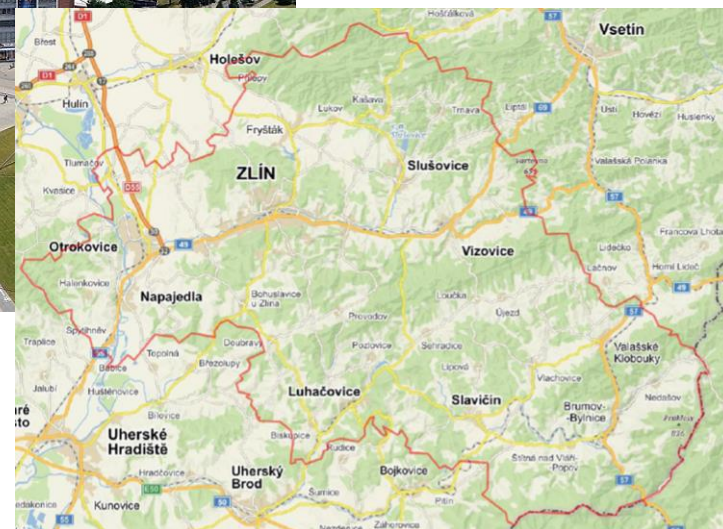
Location of finding: Příluky u Zlína, GPS 49°13'44.303"N, 17°42'1.996"E



Demarcation of the infected area



In accordance with the Council Directive 2002/60/EC the whole District Zlín has been declared as an infected area (1 034 km²), 37 municipalities, 89 hunting grounds

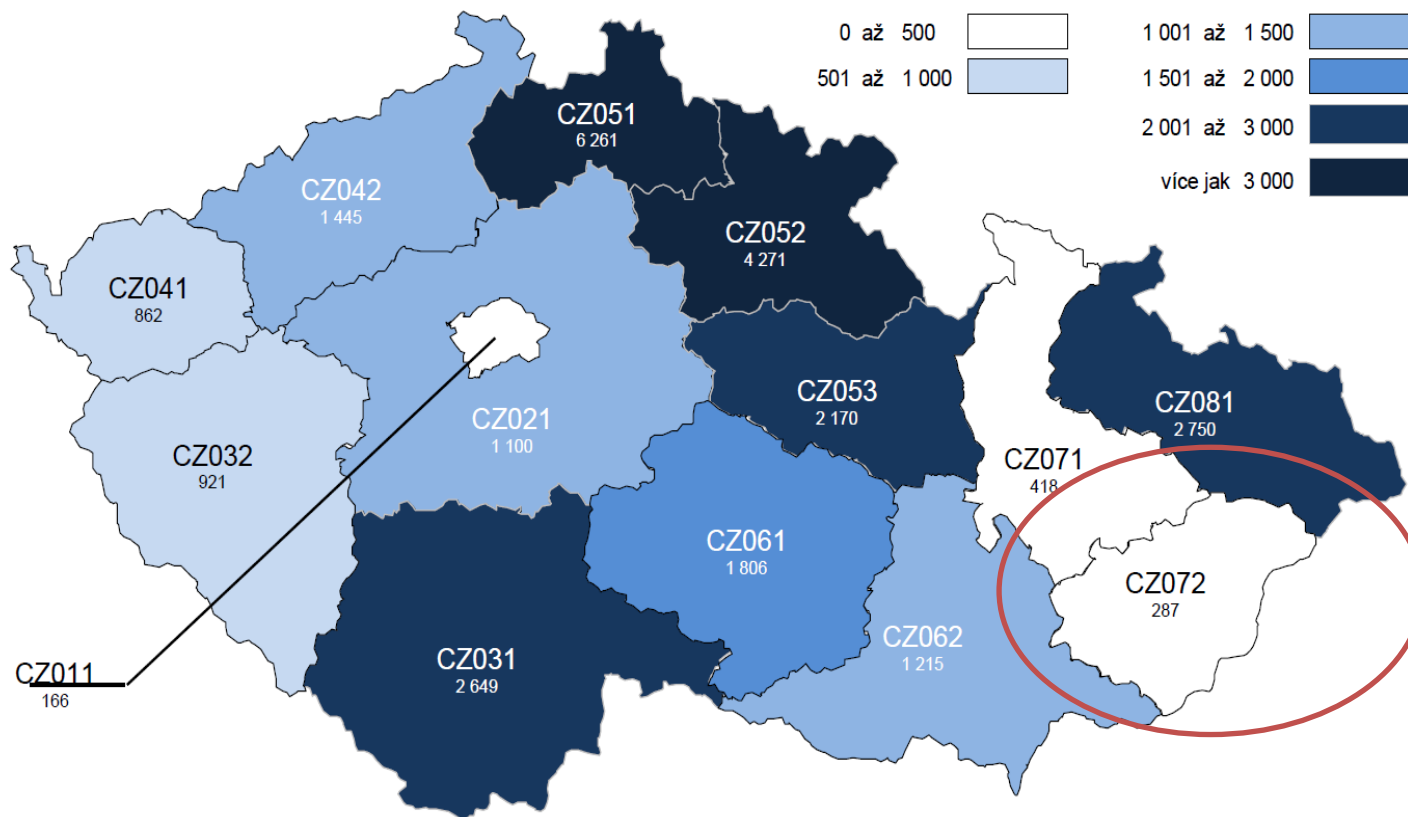


Density of domestic pigs in the Czech Republic (per 100 km²)

CZ 2 160 farms, 1 353 935 pigs

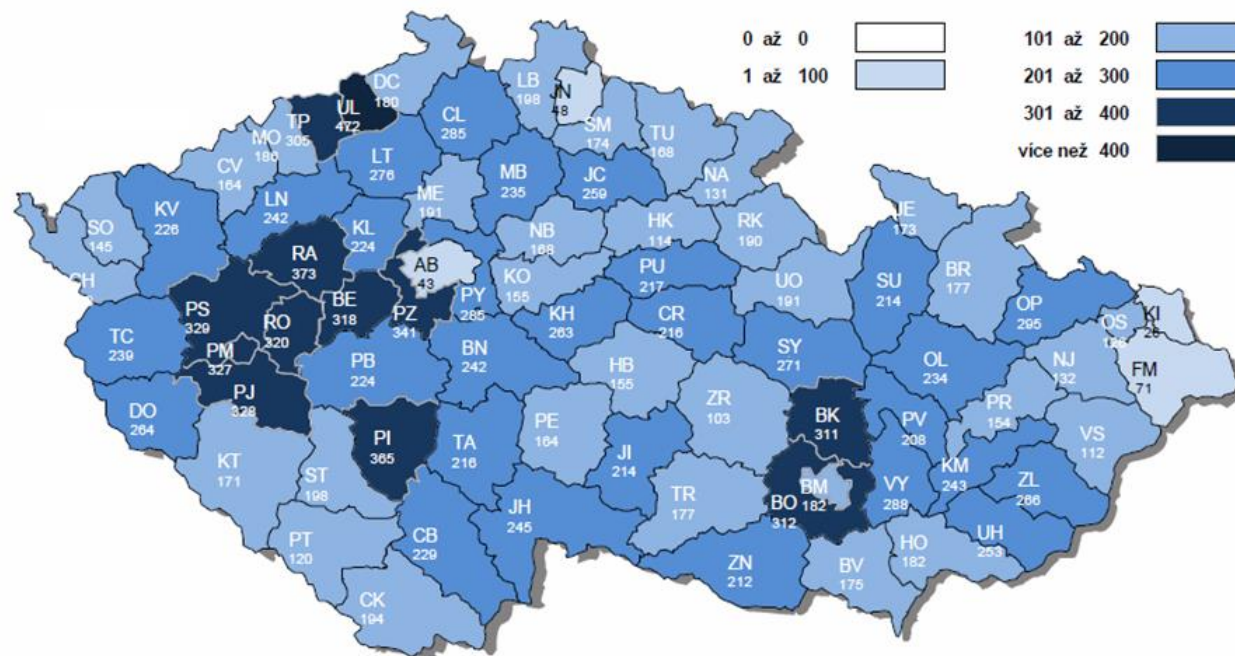
Region of Zlín 83 farms, 74 088 pigs

Infected area (District Zlín) 23 farms, 16 301 pigs



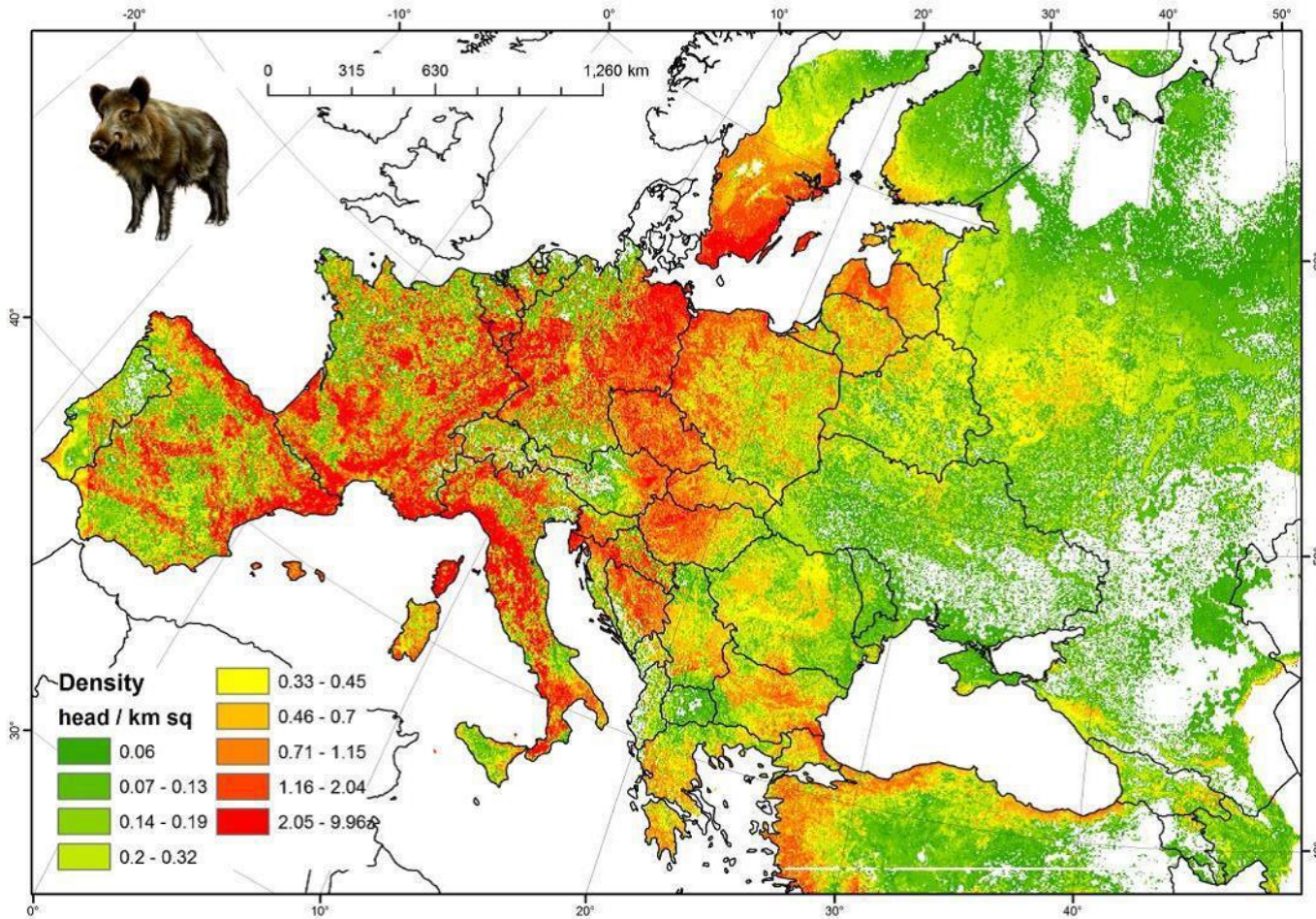
Hunting density of wild boars in the hunting year 2015 (per 100 km²)

Year	number of hunted WB
2010	144 305
2011	109 563
2012	185 381
2013	152 468
2014	169 483
2015	186 148
2016	160 164



Modelled wild boar population density in Europe

(source: FAO/ASFORCE, May 2015)

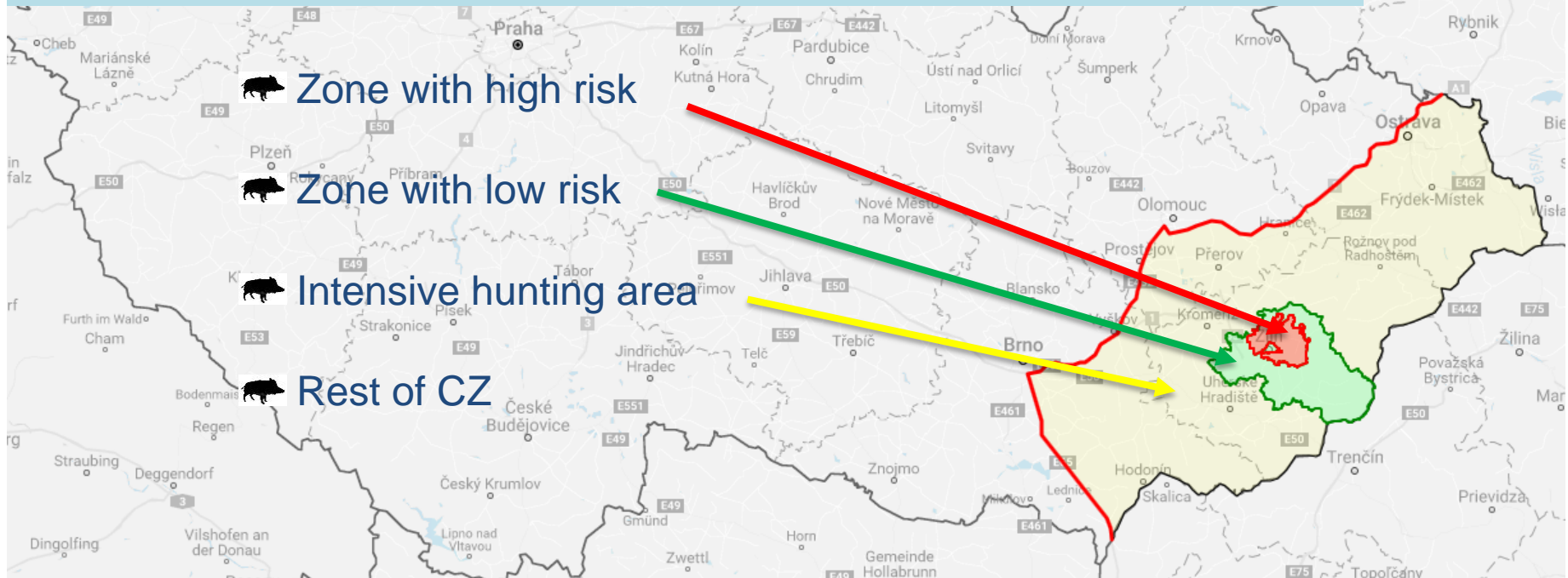


Veterinary measures have been taken in accordance with the Council Directive 2002/60/EC:

- **Infected area has been defined**
- Veterinary measures have been established, including **ban of hunting and a ban on feeding** wild boars
- Investigation of the epidemiological situation is carried out in the whole defined infected area
- The official list of all categories of domestic pigs in all holdings was ordered
- The area with **intensive hunting** has been determined around the infected area

Measures in Wild boar population in 4 levels

- ✓ Czech Republic= 78 886 km²
- ✓ Intensive hunting area - 8500 km² (No district Zlín)
- ✓ District Zlín – 1033 km²
 - ✓ Infected area with low risk - $1033 - 159 = 874$ km²
 - ✓ Infected area with high risk : 158,96 km²
 - ✓ Infected area with the highest risk (behind fences): 57,18 km²



Measures taken

1. Measures in the infected area in domestic pigs
2. Measures in the infected area in wild boars
 - in the high-risk zone
 - in the low-risk zone
3. Measures in the area with intensive hunting
4. Measures on the whole territory of the Czech Republic

Measures in the infected area in domestic pigs

1. **Official checks in domestic pig farms**
2. Monitoring of all sick or dead pigs
3. A list of pig farms in the infected area including backyards farms
4. **Movement control**
5. **Ban of feeding with fresh grass**
6. **Ban of straw using**
7. **Measures of biosecurity in backyard farm (pigs for home slaughter)**

Measures taken in the infected area after ASF confirmation

1. **Passive surveillance in dead wild boars**
2. **Payment is 1000 CZK (40 EUR) for one dead found wild boar**
3. **Ban of hunting**
4. **Ban of feeding**
5. **Ban on feeding of wild boars**, only baiting can be performed with not more feeding than 10 kg / month / 1 km², it is not applicable for hunting using trapping facilities;
6. **Smell and electric fences** around the high-risk zone
7. **The ban on public entering to the high-risk zone**
8. **Unharvested crop as a shelter** for wild boar in selected areas (maize, rape, corn)

Smell fence installed around the high-risk zone



Electric fence installed around the high-risk zone



CT 24

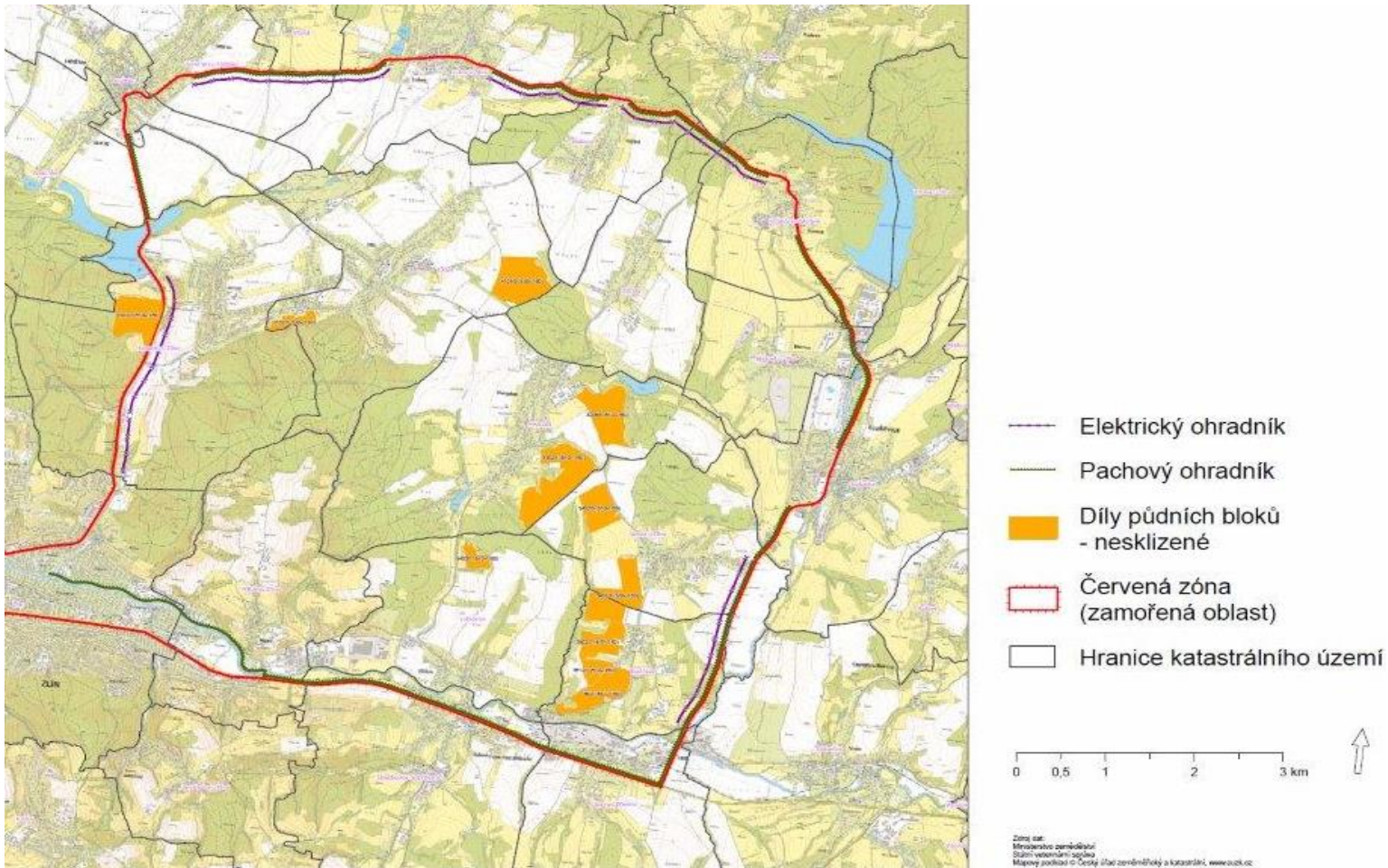
<http://www.africkymorprasat.cz>



Electric fence installed around the high-risk zone



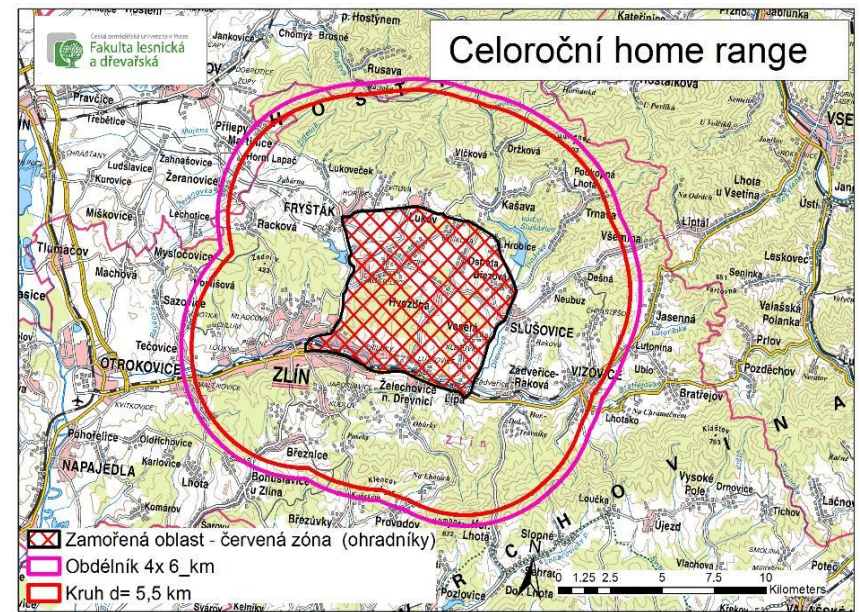
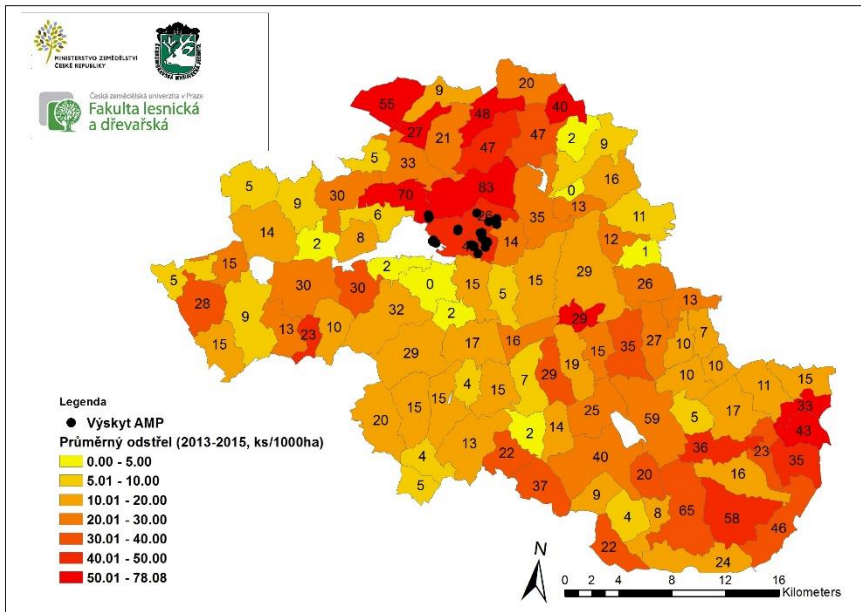
Map of the high-risk zone with the location of the smell fences and electric fences



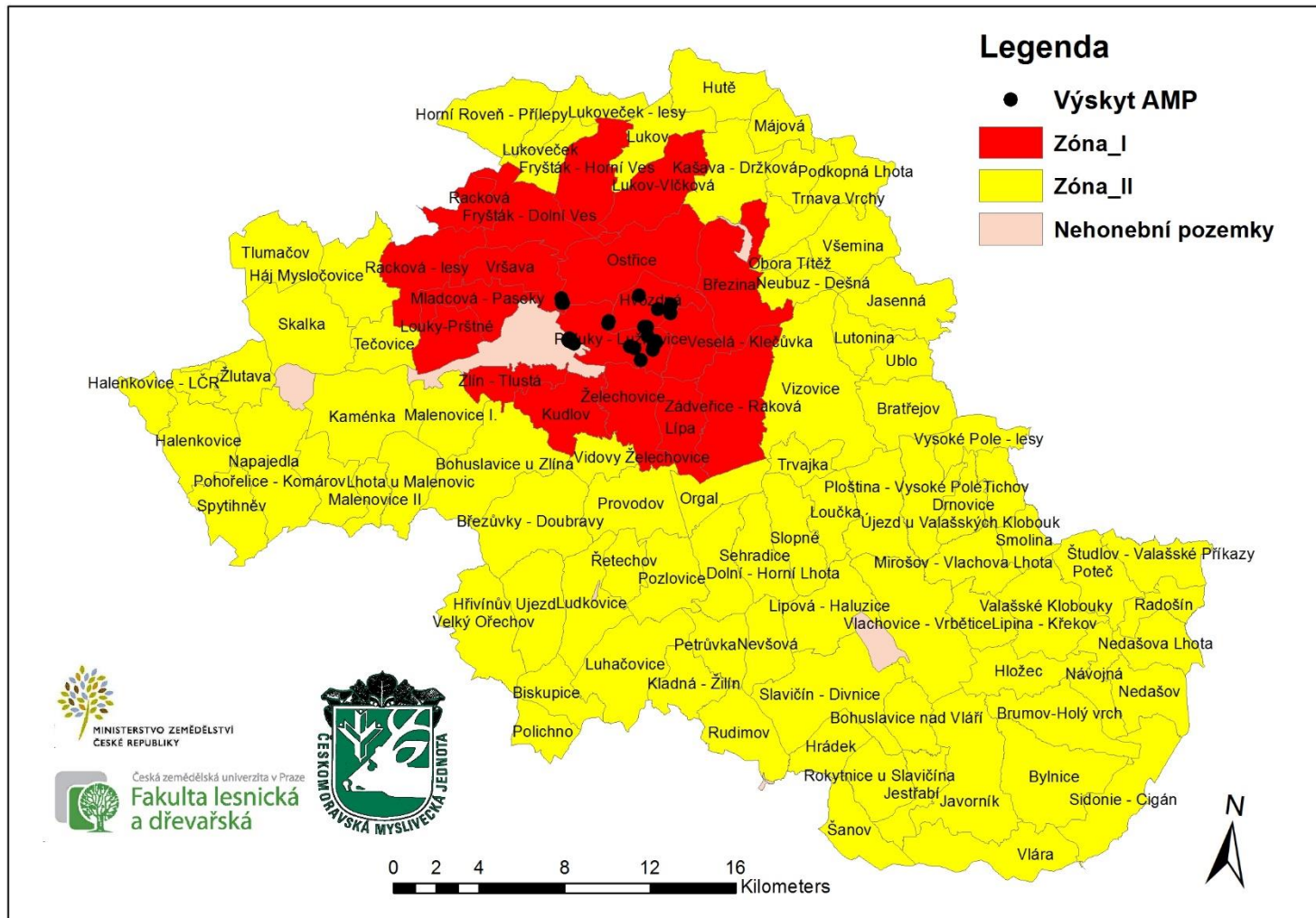
Setting up high and low risk zone in the framework of infected zone in relation to wild boar hunting

Hunting

Home range – 100% one year



High and low risk zone for hunting rules



Measures in the infected area in the high-risk zone in wild boars

- RED zone - area around the outbreak has been set as “off-limit area”. (18 hunting areas – 16 000 hectares). **Wild boar individual hunting activities have been banned till 11. 9. 2017.**
- **Trapping of wild boars has been allowed since 24. 8. 2017.**
- **Public is not allowed to enter this area** apart from farmers, hunters and police.
- All collective hunts (even for other hoofed game) have been banned.
- Motivation for **finding dead wild boar is 4 000 CZK / 160 €.**

Measures in the infected area in the high-risk zone in wild boars

- hunting of wild boar is allowed **only for selected and trained hunters**, motivated by financial compensation (4 000 CZK/ 160 € each hunted wild boar) . The same compensation is for trapping.
- all hunted and found death wild boar **must be disposed in the rendering plant.**
- **Hunters association is compensated for the loss of venison** (piglet 37 EUR, one-year old 74 EUR, adult saw 120 EUR).

Trapping of wild boar

Trapping (plan to use 29 in high risk zone)



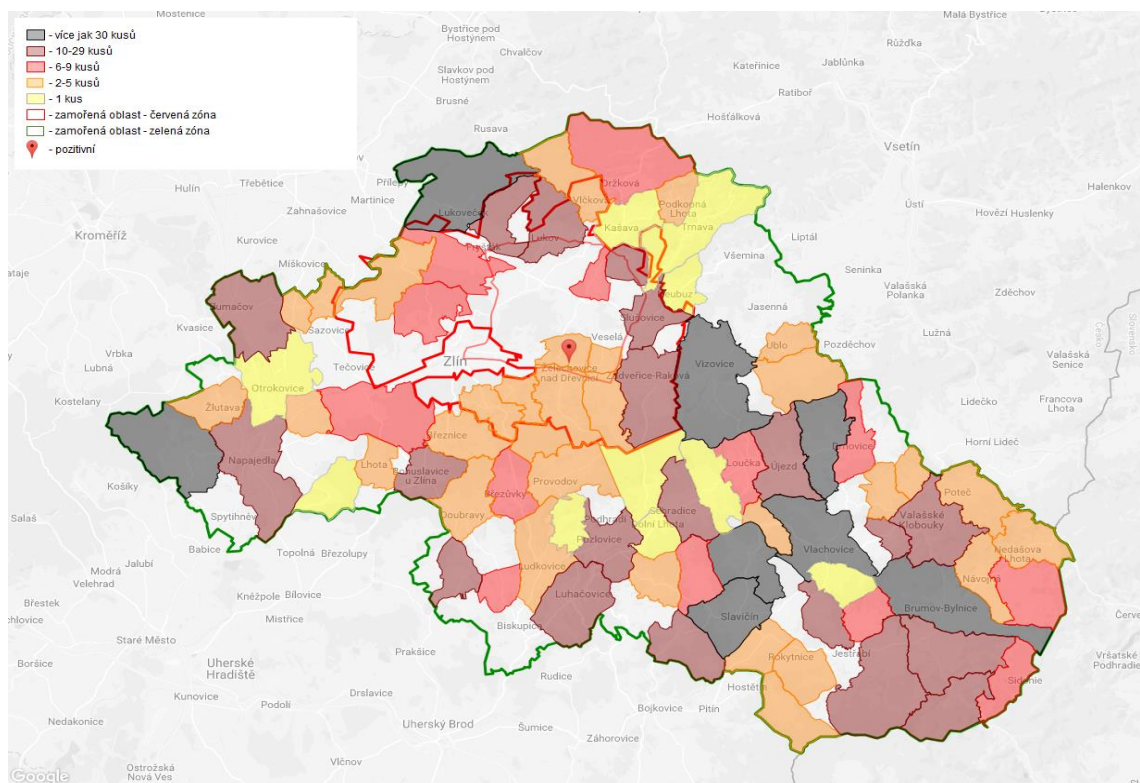
Measures in the infected area in the low-risk zone in wild boars (green zone)

- **hunting of wild boar is allowed since 21. 7. and motivated by financial reward (3 000 CZK/ 120 € each hunted wild boar)** - all shot and found wild boar must be disposed in the rendering plant.
- **compensation for the loss of venison** (piglet 37 EUR, one-year old 74 EUR, adult saw 120 EUR) is paid to hunters association.
- All collective hunts (even for other hoofed game) are banned.
- **Motivation fee for finding of dead wild boar is 3 000 CZK / 120 €.**
- **Some prohibited methods of hunting have been allowed** - hunting all age classes, and both sexes, hunting from cars and other vehicles, hunting at night using night vision and other artificial lights, hunting during crop harvest, hunting near the hunting area borders, using firearms (short and long with energy more than 300 J) for shooting wild boar in traps.

Hunted wild boars in infected area – 23th October

The total number **1005**

All hunted wild boars are tested for ASF (virologically and serologically) in the NRL. Only 1 case of wild boar caught in trapping facility in hunting area Lužkovice was positive.



Tested 972

High risk - hunting	78 / 0
High risk - trapping	26 / 1
Low risk - hunting	868 / 0

Disposal of hunted wild boars from infected area in rendering plant



I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII
<p>LISTEK O PŮVODU ZVĚŘE § 49 odst. 1 a § 51 odst. 2 Zákona č. 449/2001 Sb. o myslivosti</p> <p>šísno číslo plovby 17 4. 05 679839 18 5. název honitby (pap/ raštko) 20 6. 21 7. 22 8. MYSLIVECKÝ SPOLEK 23 LOUČKA 24 9. 763 25 p. Újezd u Val. Klobouk 25 IČO: 484 73 860 DIČ: CZ48473260 26 10. 27 11. uživatel honitby (pap/ raštko) 28 12. 29 13. AMP 30 14. 31 15. 16.</p> <p>živoč. darůk muřon teriac ška <input checked="" type="checkbox"/> srnec divoká rok 2017 podřina lož uloveni zvĚře</p>											
<p>HLÁŠENÍ šísno číslo plovby O LOUV ZVĚŘE 05 679839 Stouh pro potřoby uložnate číslo povolenky honitby k lovu</p> <p>Uživatel honitby H. Le Loučm Název honitby Loučm Lovce BEHOUSKA JOMIL Den 14.3.2017 Hodina 10³⁰h Podpis lovce [Signature]</p>											



Measures in the area with intensive hunting

1. Buffer zone – area of intensive hunting surrounding the infected area, hunters are motivated **by 1 000 CZK (40 €) for each shot wild boar.**
2. The shot wild boar can be used for consumption.
3. **Some prohibited methods of hunting have been allowed** - hunting all age classes, and both sexes, hunting from cars and other vehicles, hunting at night using night vision and other artificial lights, hunting during crop harvest, hunting near the hunting area borders, using firearms (short and long with energy more than 300 J) for shooting wild boar in traps.
4. Motivation **for finding of dead wild boar is 1 000 CZK / 40 €**

Measures on the whole territory of the Czech Republic

1. **Information for public, pig farmers, hunters, veterinarians etc.**
 - Official letters
 - Daily SVA web site updates
 - Biosecurity guide for farmers
 - List of disinfectants
 - Guide for dead WB finding
2. **Established an expert group (NDCC)** including veterinarians, hunters, wild life biologists and epidemiologists with expert from the CVET participation
 - Clarifying of the situation
 - Request for data for the preparation of the eradication plan
 - Studying the epidemiological situation and implementation of the measures
3. Ban of feeding of domestic pigs with kitchen and catering waste was emphasized
4. **A surveillance programme and preventive measures have been applied at holdings with domestic pigs.** Sick or dead pigs, for which ASF cannot be excluded on clinical grounds, have been tested for ASF in accordance with the provisions set up in the Diagnostic Manual
5. **The passive surveillance of dead found wild boars continues**

Hunting in the rest areas of the Czech Republic

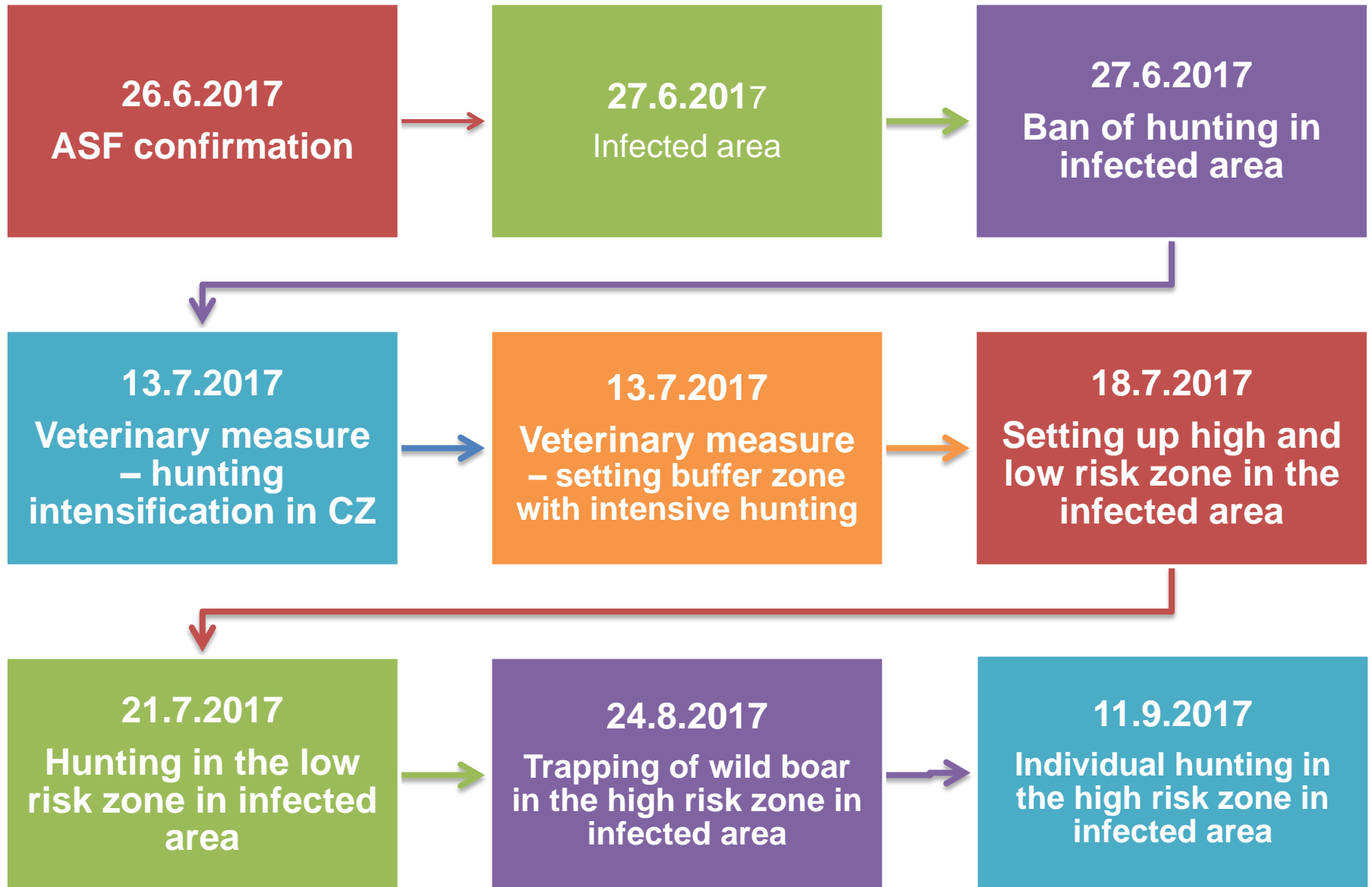
- Hunting is also intensified.
- Some prohibited methods of hunting have been allowed - hunting all age classes, and both sexes, hunting at night using night vision and other artificial lights, hunting during crop harvest, hunting near the hunting area borders, using firearms (short and long with energy more than 300 J) for shooting wild boar in traps.
- Motivation for **finding dead wild boar is 1 000 CZK (40 €)**.

Collection of death wild boar – paid to hunters

CZ	1 000,00 CZK / 40 €
Infected zone – low risk (green)	3 000 CZK / 120 €
Infected zone – high risk (red)	4 000 CZK / 160 €



Timeline of hunting regulation



Thank you

