



## "IL MONITORAGGIO DEL LUPO NEL PARCO NAZIONALE DELLA MAJELLA, INDICAZIONI PER LA CONSERVAZIONE E LA GESTIONE DEI CONFLITTI"

Roma, 3 e 4 dicembre 2018



VERSO UN PIANO NAZIONALE  
DI MONITORAGGIO DEL LUPO



## ATTIVITÀ ENTE PNM (1998-2003)



74.000 ETTARI  
39 COMUNI, 3 PROVINCE  
40 % SUPERFICIE FORESTALE  
20 CIME OLTRE I 2000 METRI

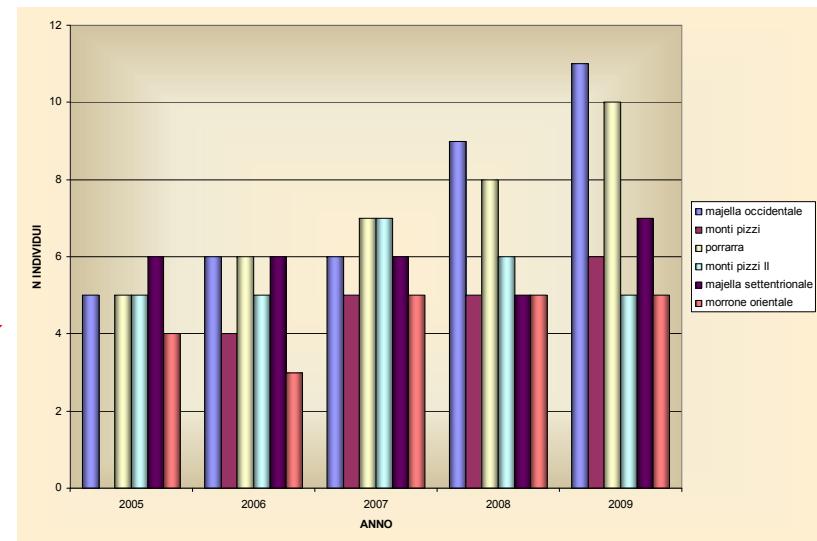
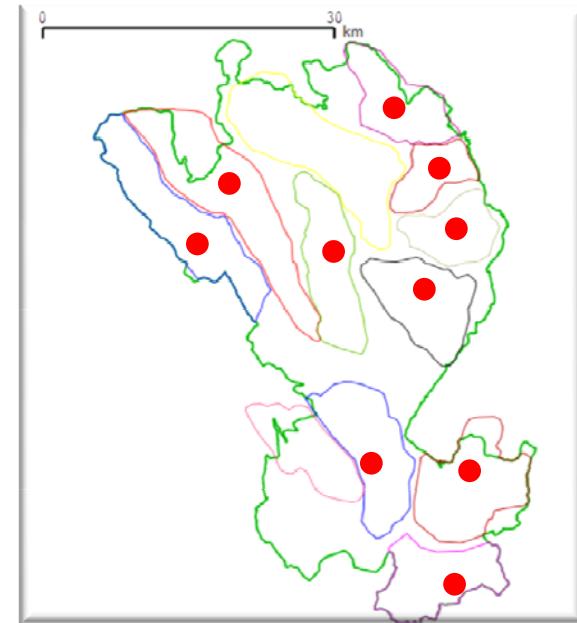
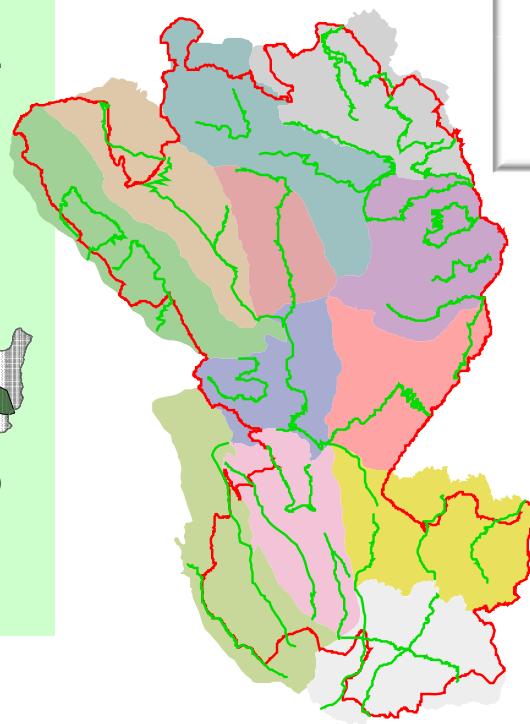
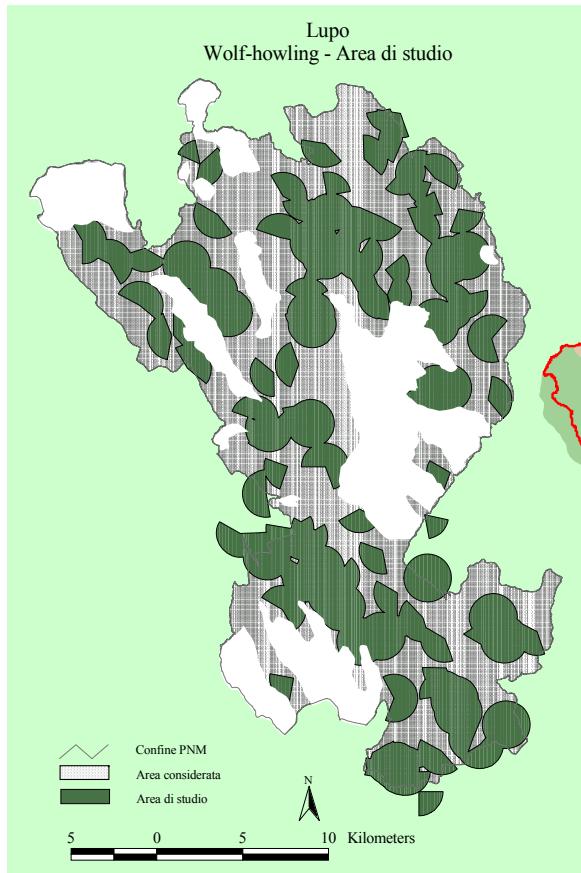
Roma, 3 e 4 dicembre 2018



PIANO NAZIONALE  
TUTORAGGIO DEL LUPO



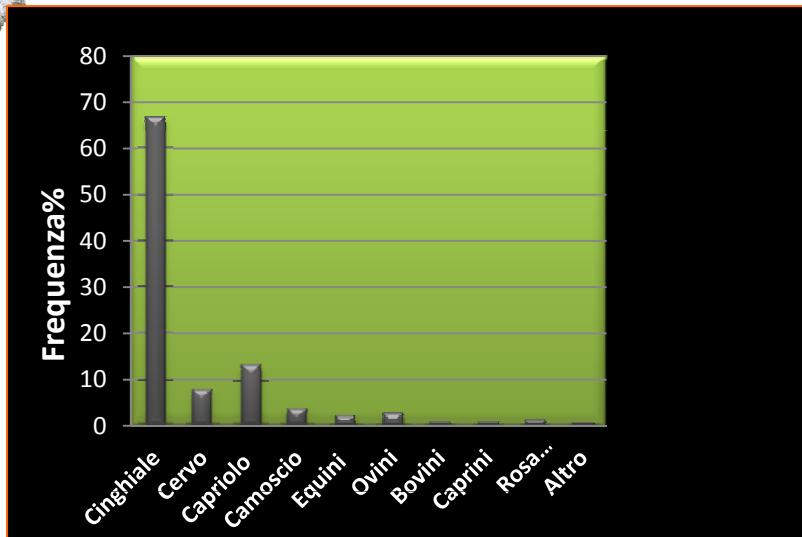
## LIFE COEX (2004-2008) "Improving Coexistence of Large Carnivores and Agriculture in Europe"



Roma, 3 e 4 dicembre 2018

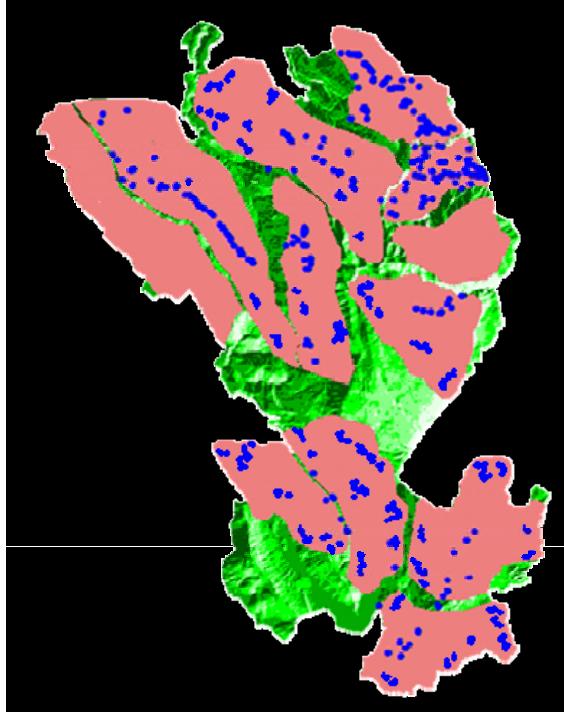
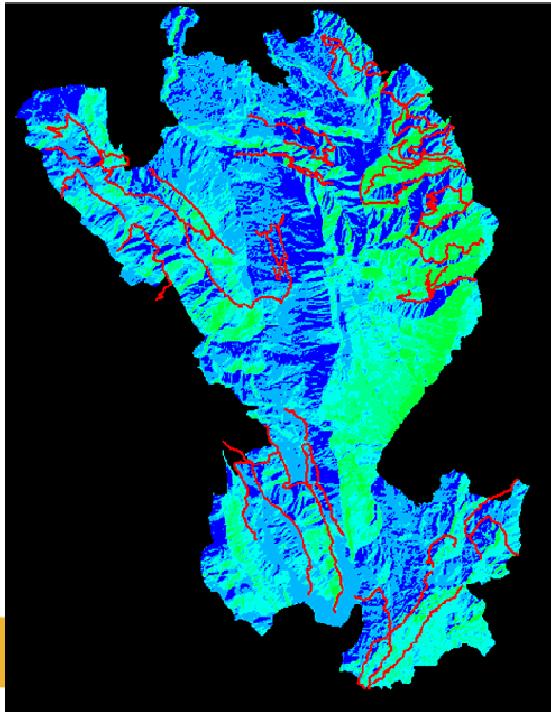


**Novembre 2007- Novembre 2008**  
• 26 circuiti, 287 Km, percorsi 2 volte al mese  
• 3100 Km percorsi a piedi



➤ 517 escrementi

- Cinghiale: 67%
- Capriolo: 13.3%
- Cervo: 7,7%
- Camoscio 4 %
- Domestici : 5,87%



**VERSO UN PIANO NAZIONALE DI MONITORAGGIO DEL LUPO**



## LIFE WOLFNET (2010-2013)

### “Development of coordinated protection measures for Wolf in Apennines”



Roma, 3 e 4 dicembre 2018

VERSO UN PIANO NAZIONALE  
DI MONITORAGGIO DEL LUPO



# LIFE WOLFNET (2010-2013)

## “Development of coordinated protection measures for Wolf in Apennines”



LIFE WOLFNET (2010-2013)

MAJELLA NATIONAL PARK  
PREDATION SHEET & RESTING SITE

ID CLUSTER  
SISTEMA DI PROTEZIONE  
e Ricerca Ambientale

INFORMATION CLUSTER SURVEY DATA

N.B.: To be completed on the computer

N.B.: To be completed in the field

Code wolf: \_\_\_\_\_ Date surveying: \_\_\_\_\_ Time begin: \_\_\_\_\_ Time end: \_\_\_\_\_ Name detector: \_\_\_\_\_

Date begin cluster: \_\_\_\_\_ Date end cluster: \_\_\_\_\_ Time end cluster: \_\_\_\_\_

Amount place: \_\_\_\_\_ Activity place: \_\_\_\_\_ (activity in ha) \_\_\_\_\_ Weather:  clear  cloudy  rain  sun  snow

Rate period:  high rate  low rate  continued

Topographic information: \_\_\_\_\_

Name of place: \_\_\_\_\_

COORDINATE CLUSTER

Coord X: \_\_\_\_\_ Coord Y: \_\_\_\_\_

Coord X: \_\_\_\_\_ Coord Y: \_\_\_\_\_

Coord X: \_\_\_\_\_ Coord Y: \_\_\_\_\_

Coordinate of start and end of the path for reaching the site (calculated when travelled):

START: Coord X: \_\_\_\_\_ Coord Y: \_\_\_\_\_ END: Coord X: \_\_\_\_\_ Coord Y: \_\_\_\_\_ Note: ALWAYS MARK THE TRACK!

TYPE OF SITE

killing site  resting site  Nothing detected

PREDATION WOLF

CERTAIN  POSSIBLE  NECESSARY  NOT DETECTED

KILLING SITE

Carcass skeleton present:  Bones prey present:  Hair prey present:  Blood prey present:  Consumed carcass present:  Traces wolf present:  Excreta wolf present:  Hair wolf present:  Signs tracking:  blood  broken vegetation  wounds/tears/breaks

INFORMATION CARCASS

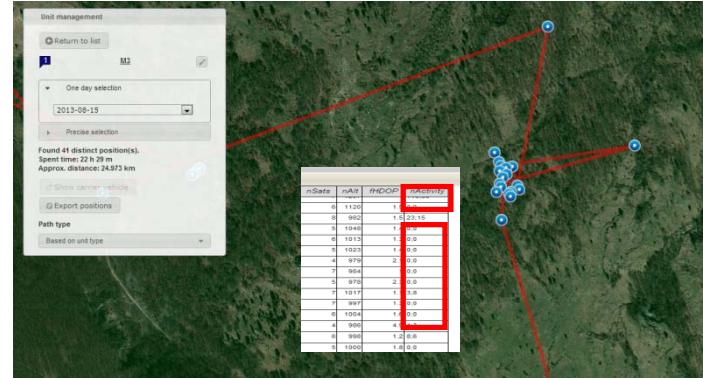
Sea of prey: \_\_\_\_\_ Consumed of carcass:  0-50%  50-70%  70-100% Estimated age of the kill: data same as cluster formation? YES NO If NO  "NO" estimate: \_\_\_\_\_

Path type: \_\_\_\_\_

Description of any wounds/tears/breaks (if visible): \_\_\_\_\_

Traces of other animals (species): \_\_\_\_\_

NOTE: \_\_\_\_\_



Roma, 3 e 4 dicembre 2018



VERSO UN PIANO NAZIONALE  
DI MONITORAGGIO DEL LUPO



LIFE WOLFNET (2010-2013)

“Development of coordinated protection  
measures for Wolf in Apennines”



## PROTOCOLLO DI MONITORAGGIO CONDIVISO



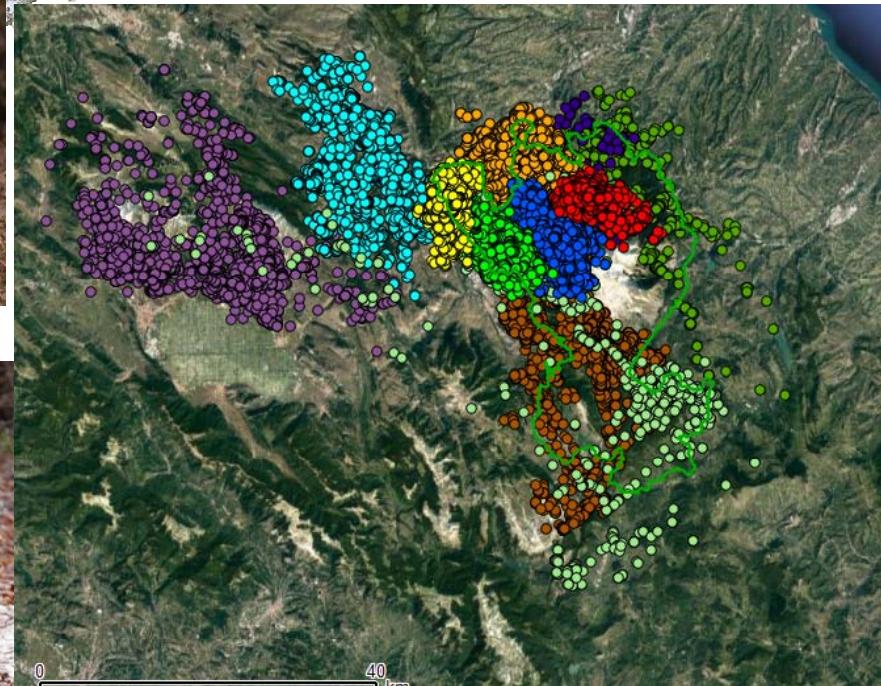
...modulabile in base :  
agli obiettivi  
alle dimensioni e tipologia  
dell'area di studio  
alla disponibilità in termini  
di risorse umane e  
finanziaria



E  
DI MONITORAGGIO DEL LUPO



## LIFE WOLFNET /WOLFNET 2.0 (2010-2018)



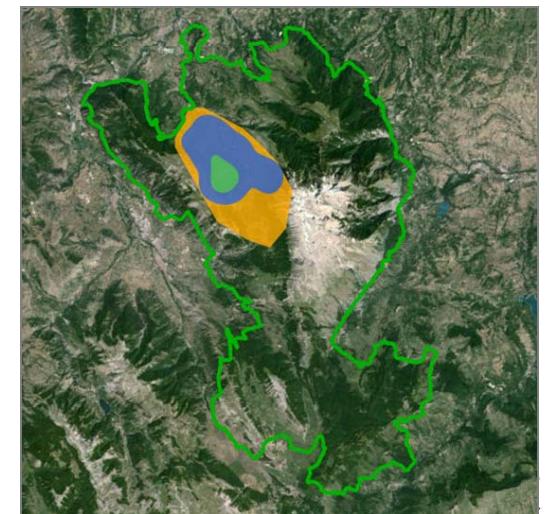
ISPRA



19 lupi (11 F e 8 M) con collare GPS

11 branchi diversi

55.000 localizzazioni GPS

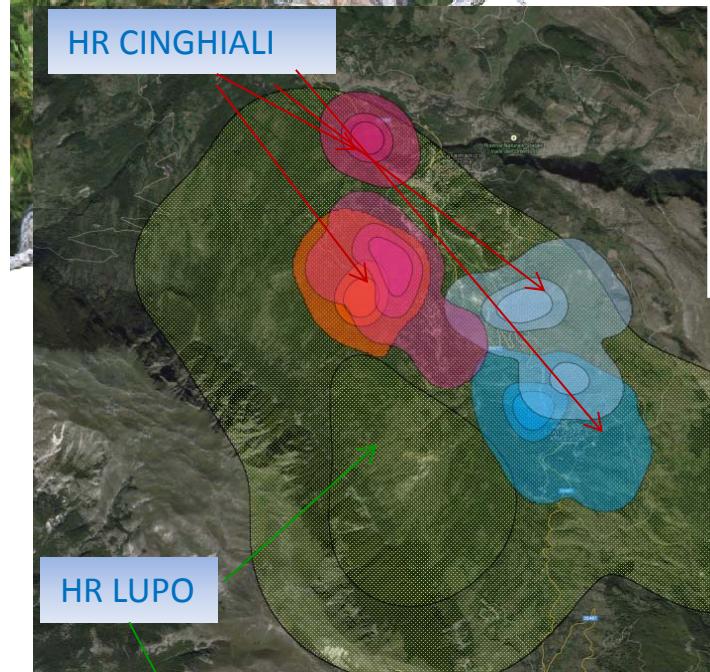


DI MONITORAGGIO DEL LUPO

Roma, 3 e 4 dicembre 2018

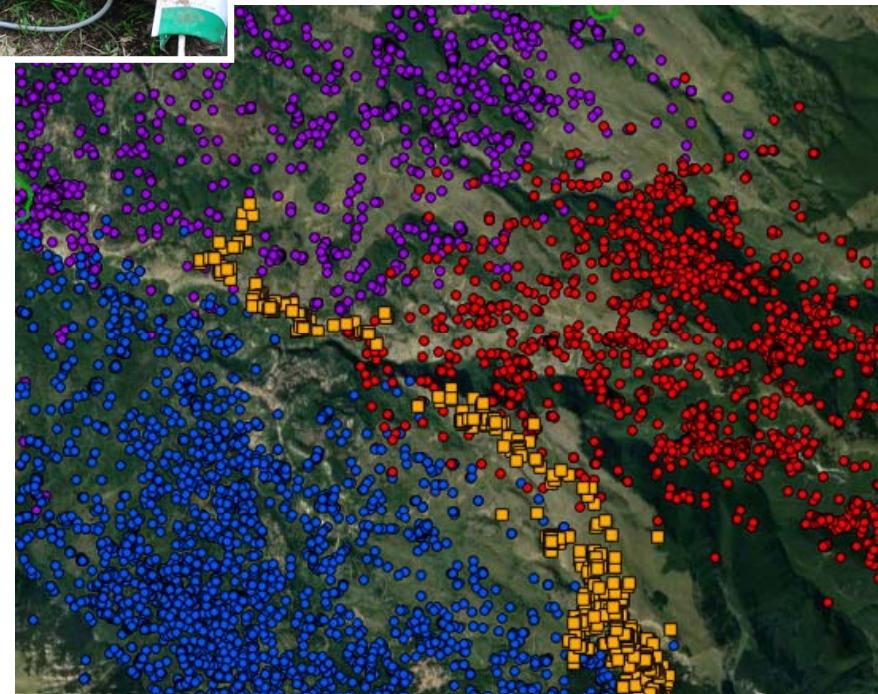
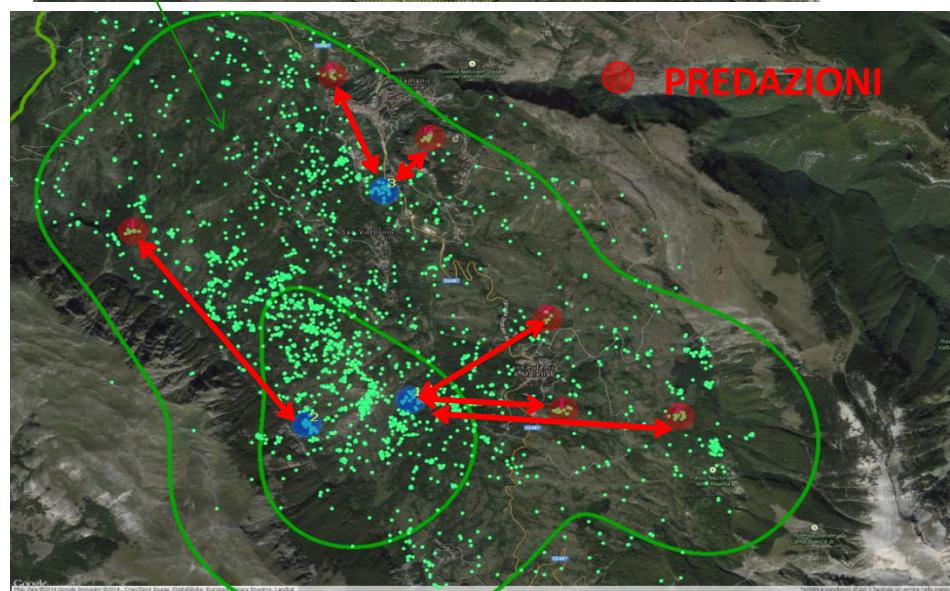


## ECOLOGIA TROFICA – INTERAZIONI PREDA/PREDATORE



PUNTI GPS CERVI (1 BRANCO)

PUNTI GPS LUPI (3 BRANCHI)

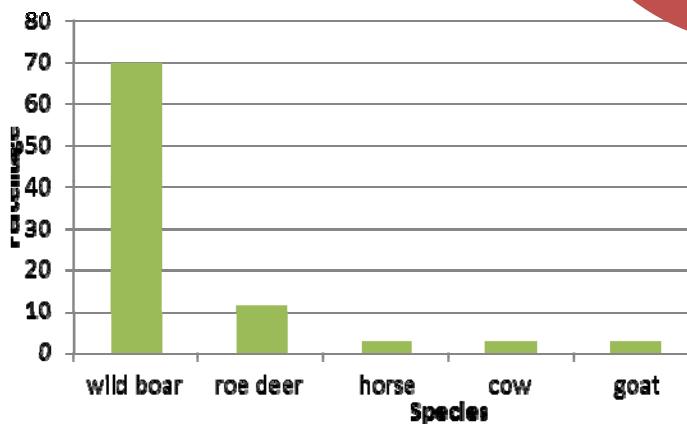
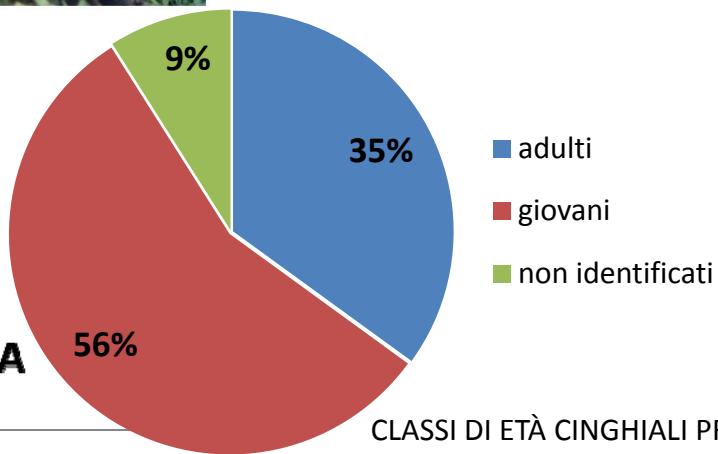




## ECOLOGIA TROFICA - SURVEY SUI CLUSTER DI POSIZIONI GPS



### NECROFAGIA



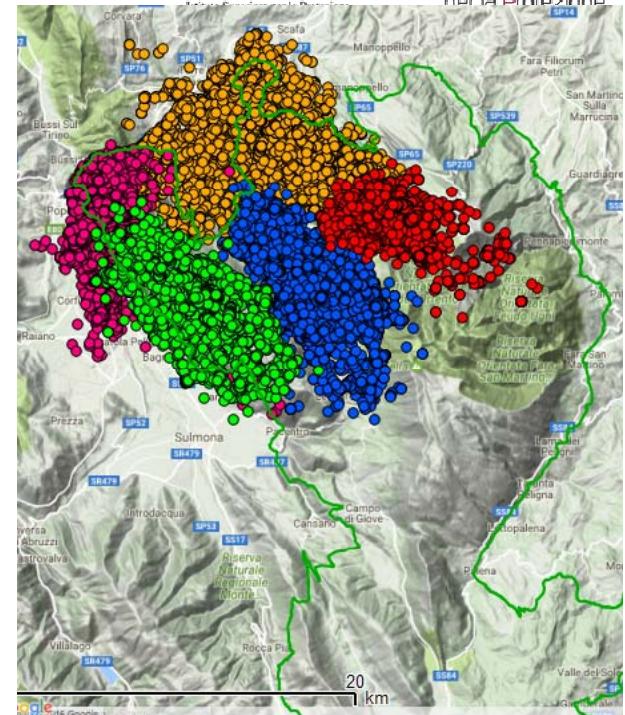
Roma, 3 e 4 dicembre 2018



ISPR



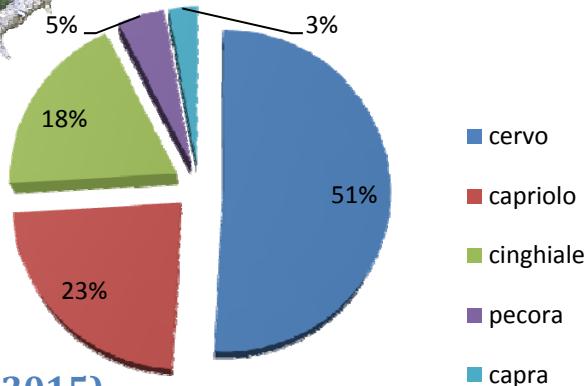
Sistema Nazionale  
per la Protezione  
SP14





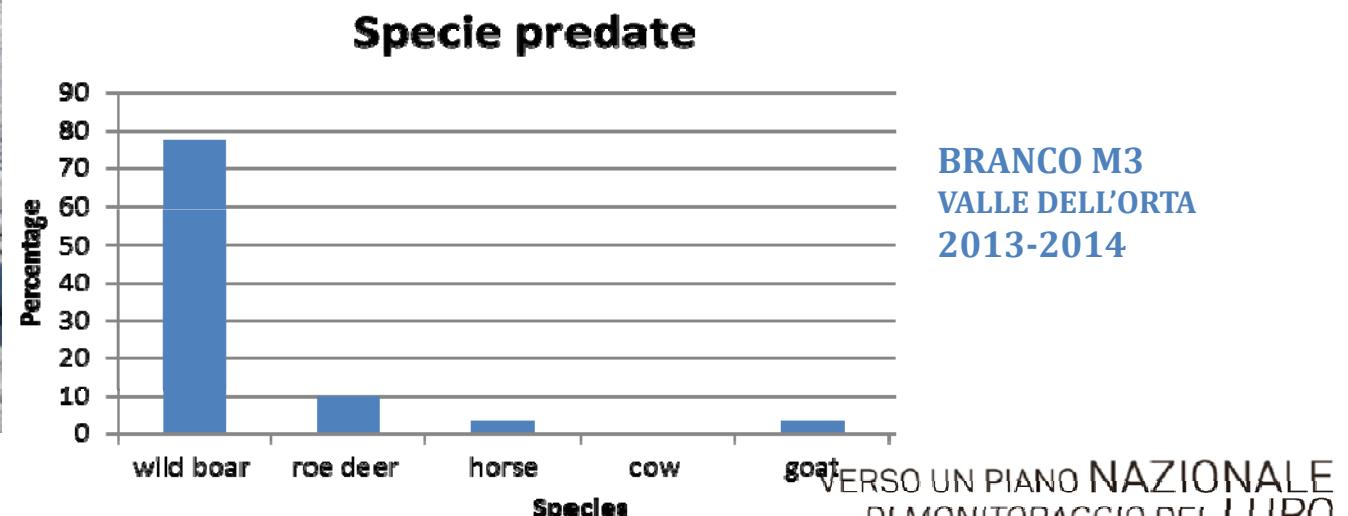
**BRANCO M5  
VALLE DELL'ORFENTO (2014-2015)**

## ECOLOGIA TROFICA - SURVEY SUI CLUSTER DI POSIZIONI GPS



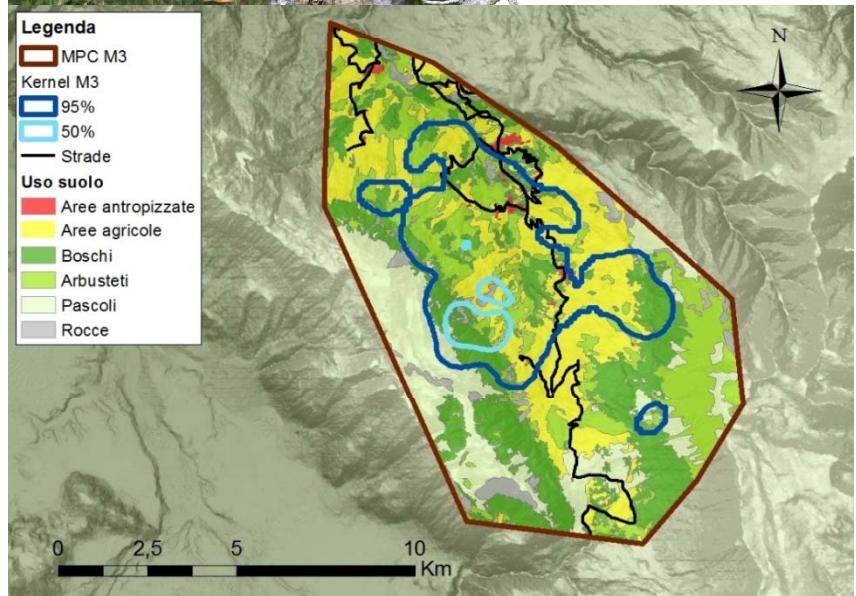
Roma, 3 e 4 dicembre 2018

| Wolf    | Monitoring period | N locations GPS | N kill sites | N kill intervals | Kill rate (hr)  |
|---------|-------------------|-----------------|--------------|------------------|-----------------|
| M3 Pack | 12 months         | 5577            | 85           | 37               | $32,6 \pm 20,7$ |

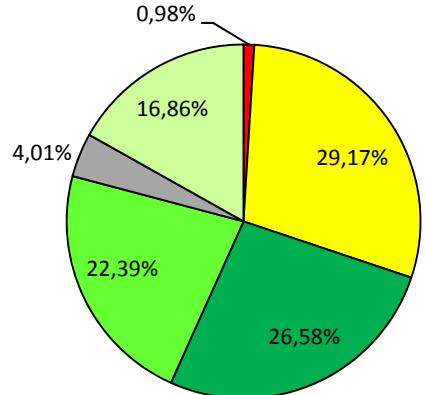




## ECOLOGIA TROFICA - SURVEY SUI CLUSTER DI POSIZIONI GPS



### BRANCO AVO – M3



■ Aree antropizzate \*

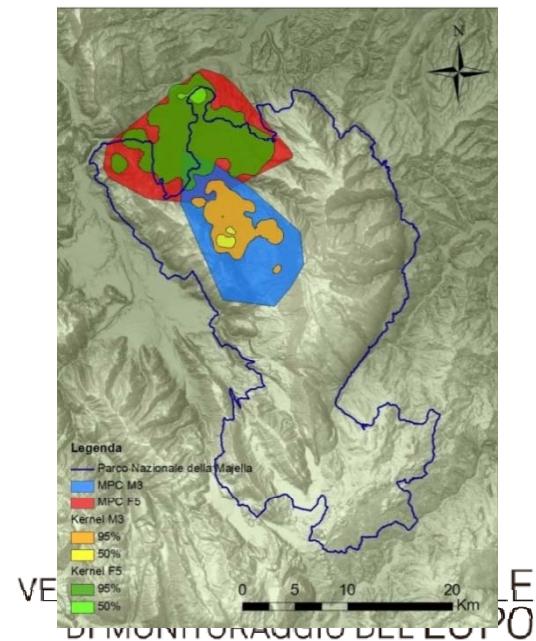
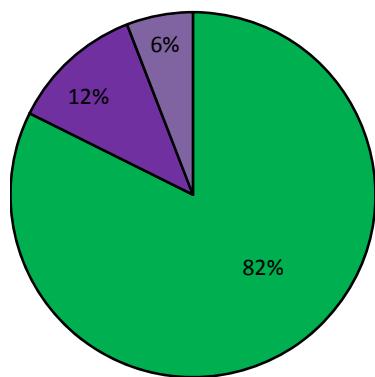
■ Aree agricole

■ Boschi

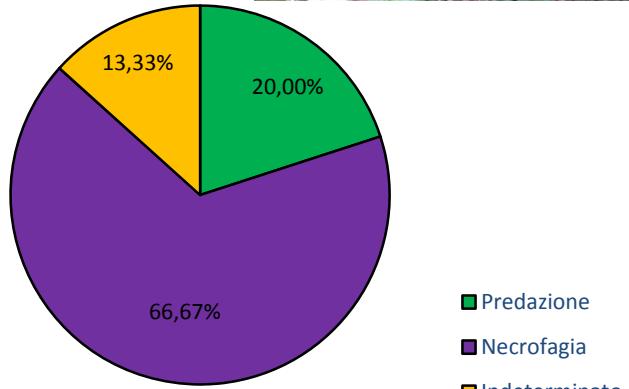
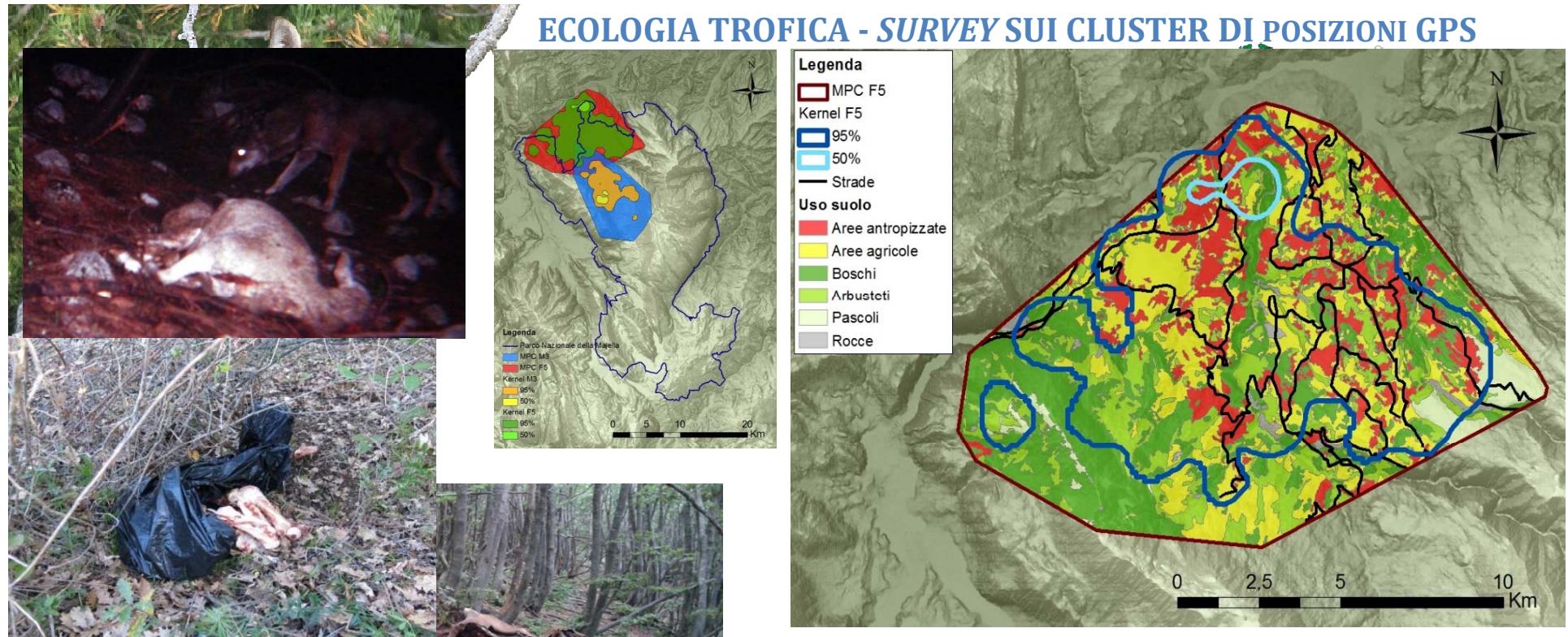
■ Arbusteti

■ Rocce

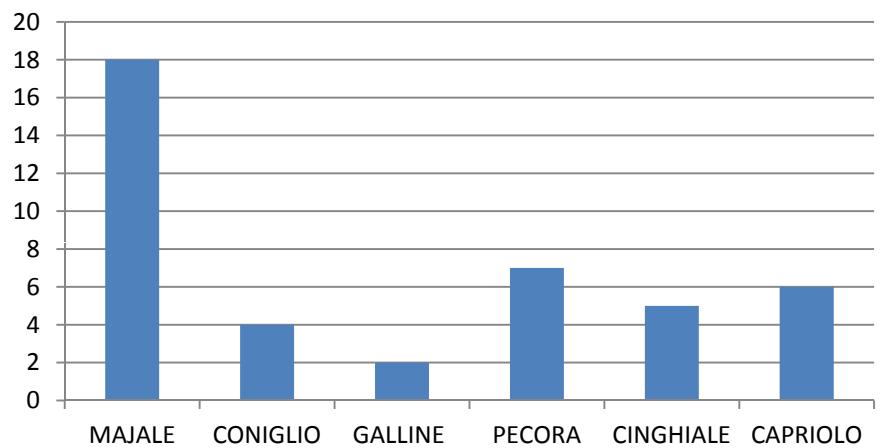
■ Pascoli \*



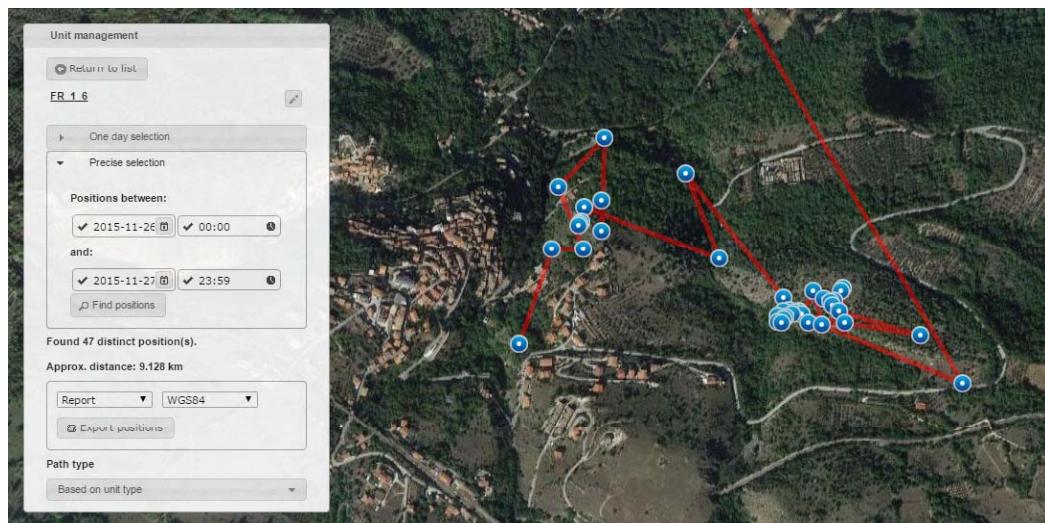
Roma, 3 e 4 dicembre 2018



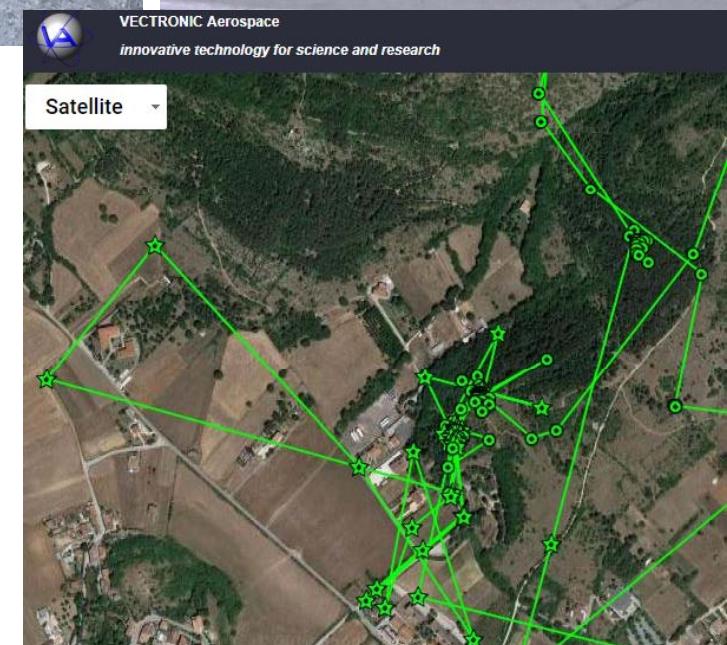
Roma, 3 e 4 dicembre 2018



VERSO UN PIANO NAZIONALE  
DI MONITORAGGIO DEL LUPO



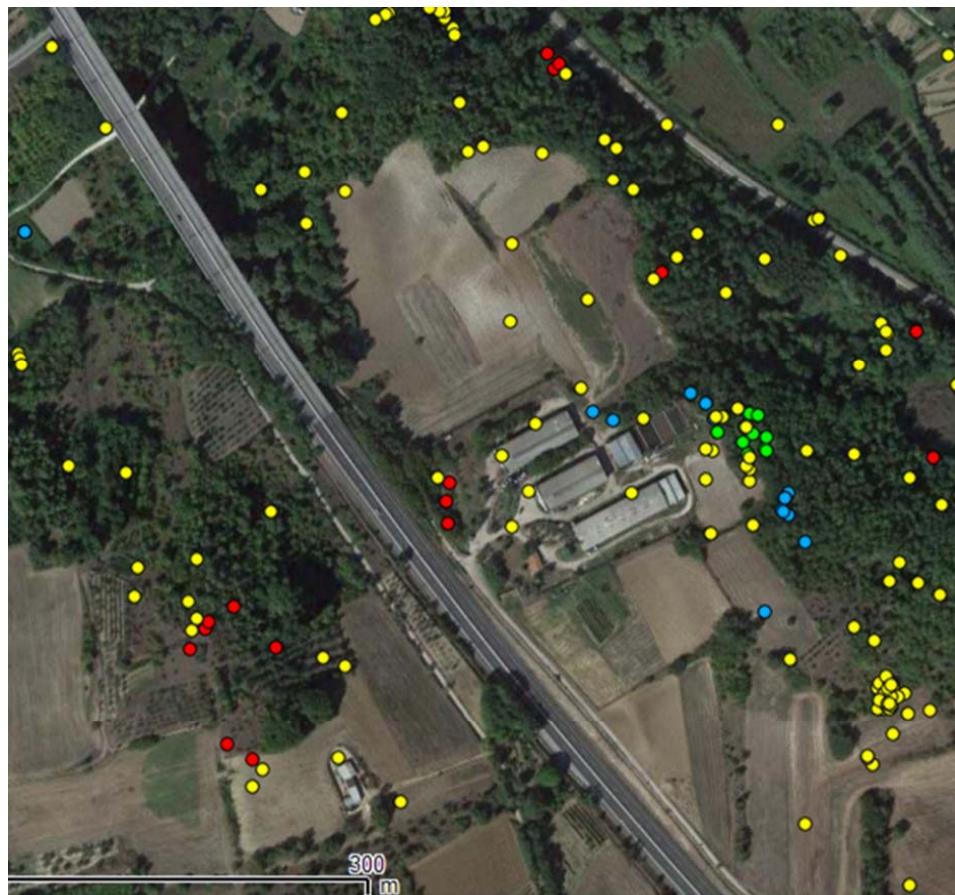
ROMA, 3 e 4 dicembre 2018



DI MONITORAGGIO DEL LUPO



## LUPI PROBLEMATICI.....





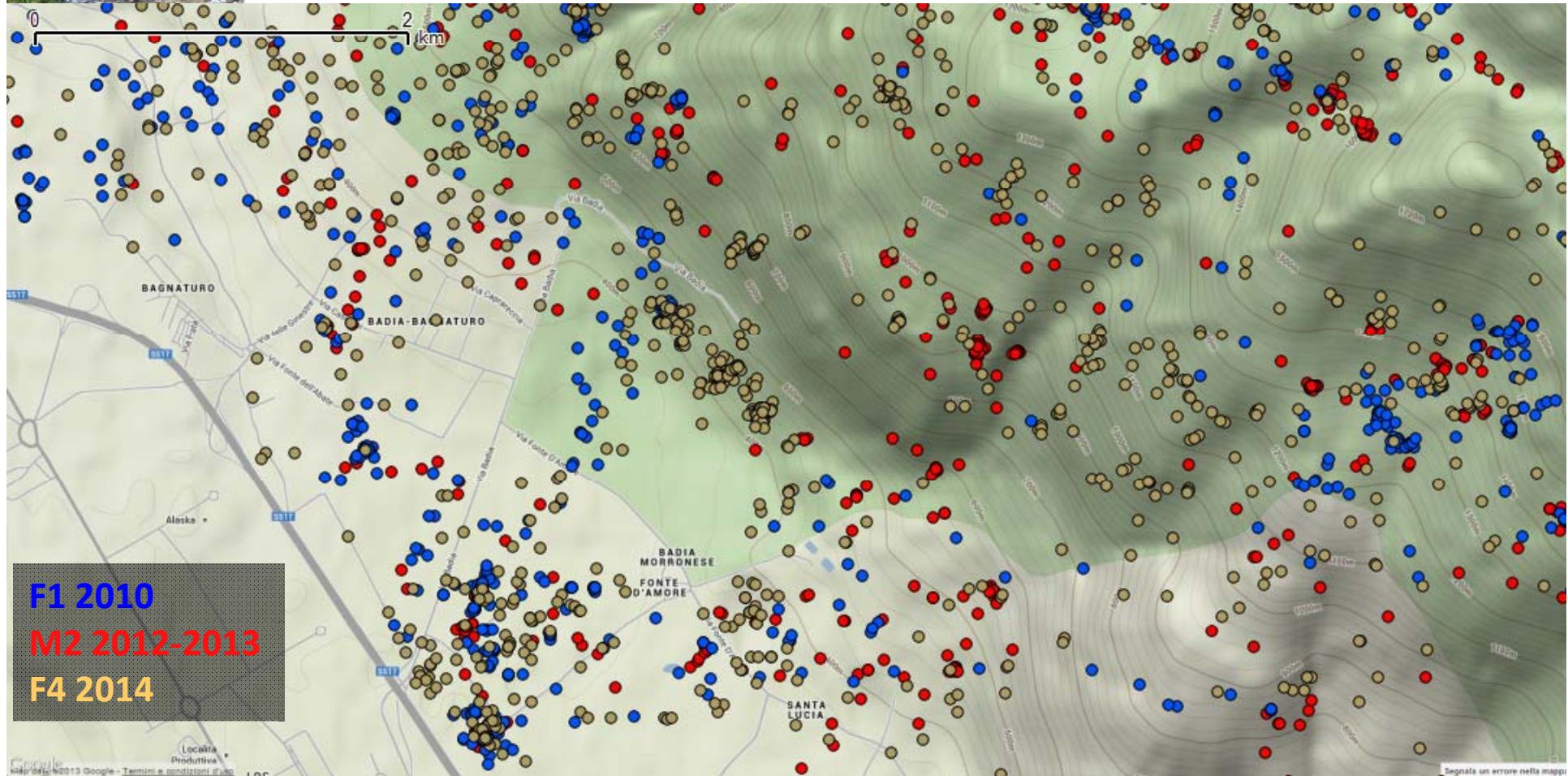
## LUPI PROBLEMATICI.....



**ISPRRA**  
Istituto Superiore per la Protezione  
e la Ricerca Ambientale



Systemo Nazionale  
per la Protezione  
dell'Ambiente



Roma, 3 e 4 dicembre 2018

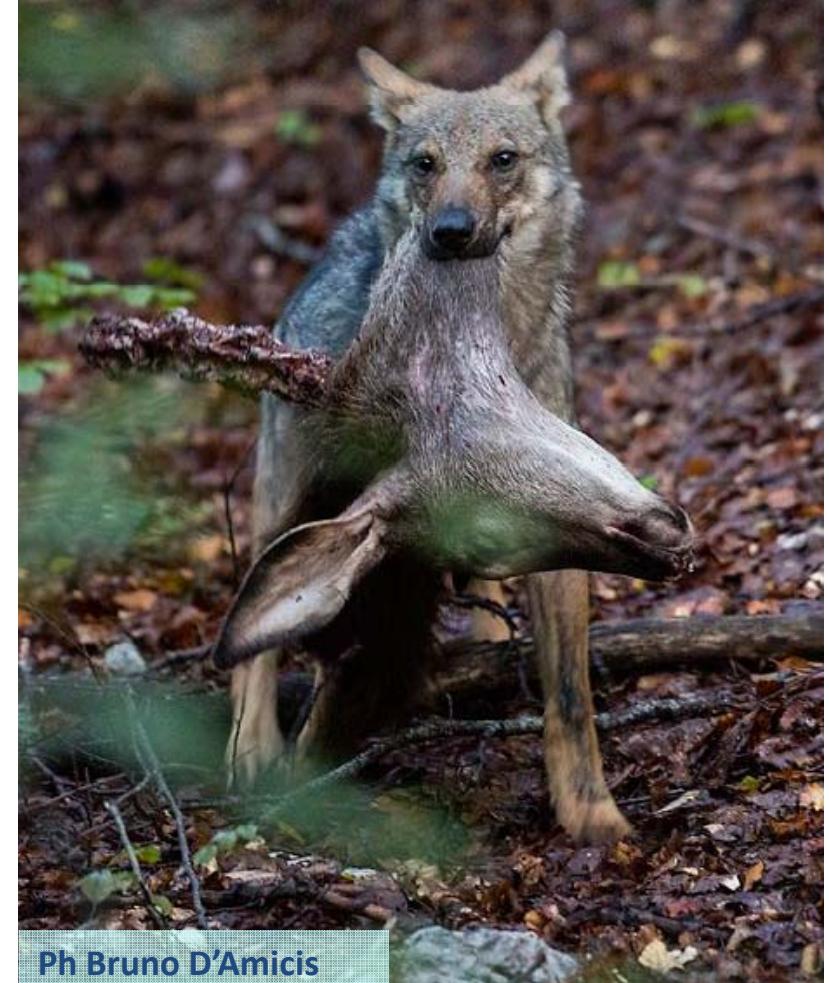
VERSO UN PIANO NAZIONALE  
DI MONITORAGGIO DEL LUPO



## LUPI PROBLEMATICI.....

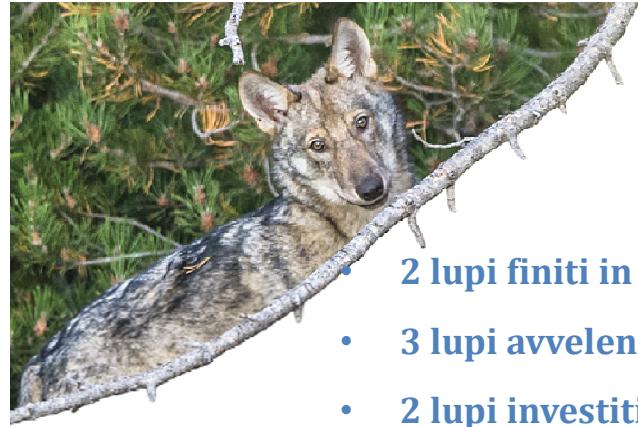


Roma, 3 e 4 dicembre 2018



Ph Bruno D'Amicis

VERSO UN PIANO NAZIONALE  
DI MONITORAGGIO DEL LUPO



## MORTALITÀ DI ORIGINE ANTROPICA



onale  
ne  
ente

- 2 lupi finiti in lacci d'acciaio
- 3 lupi avvelenati
- 2 lupi investiti
- 2 scomparsi per sospetti atti di bracconaggio
- 1 morto per altre cause antropiche

In media a distanza di 7 mesi dalla cattura



Altri 30 lupi rinvenuti morti dal 2010 al 2018, 25 dei quali per cause antropiche



Roma, 3 e 4 dicembre 2018



LE  
PO

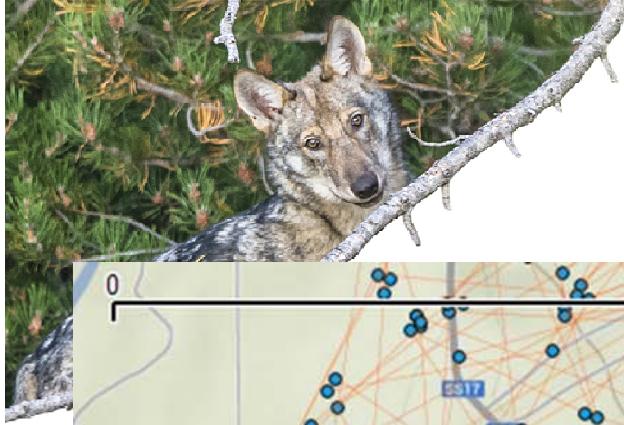


## MORTALITÀ DI ORIGINE ANTROPICA



Roma, 3 e 4 dicembre 2018

VERSO UN PIANO NAZIONALE  
DI MONITORAGGIO DEL LUPO



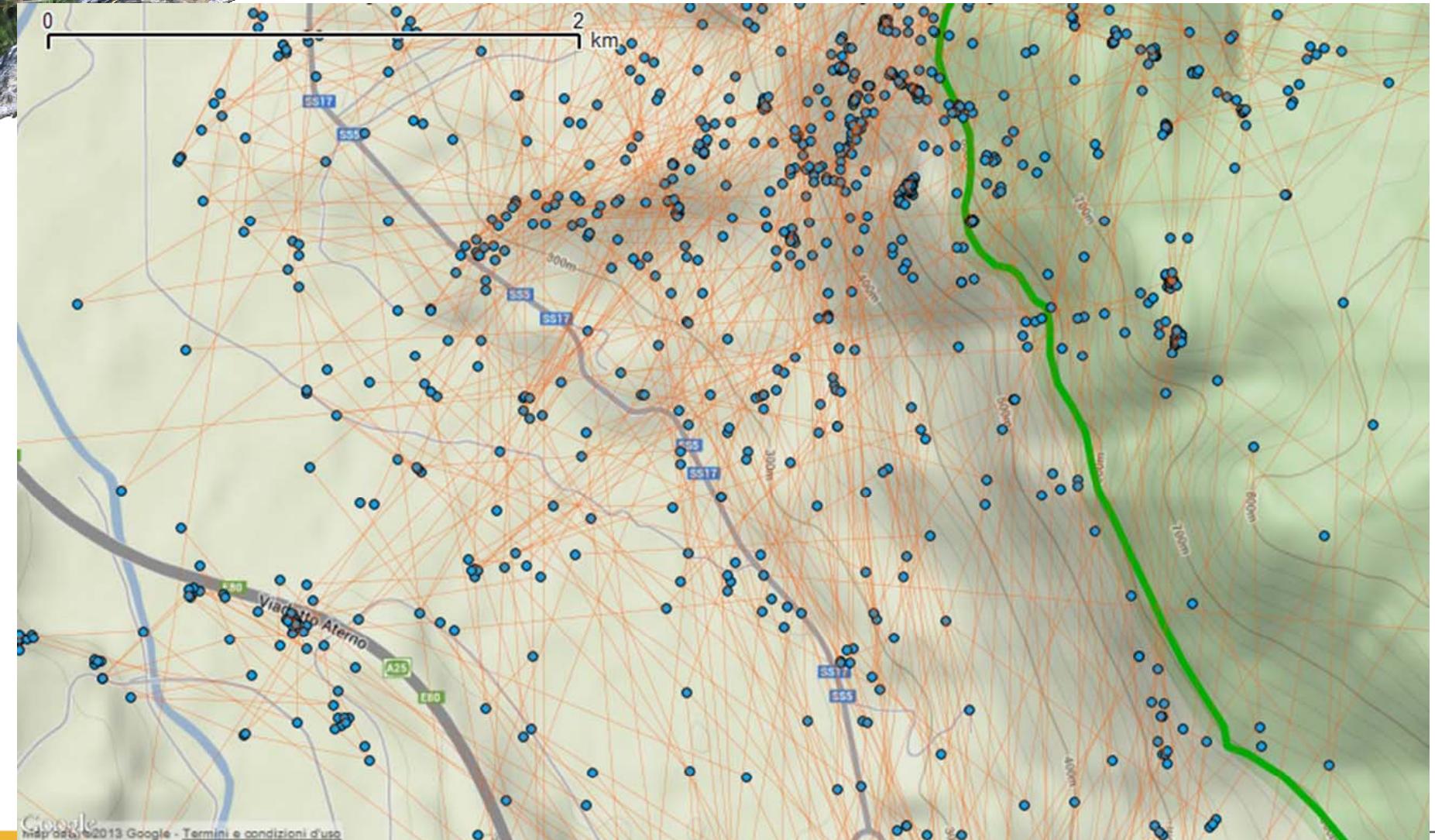
# MORTALITÀ DI ORIGINE ANTROPICA



**ISPRRA**  
Istituto Superiore per la Protezione  
e la Ricerca Ambientale



istema Nazionale  
per la Protezione  
dell'Ambiente

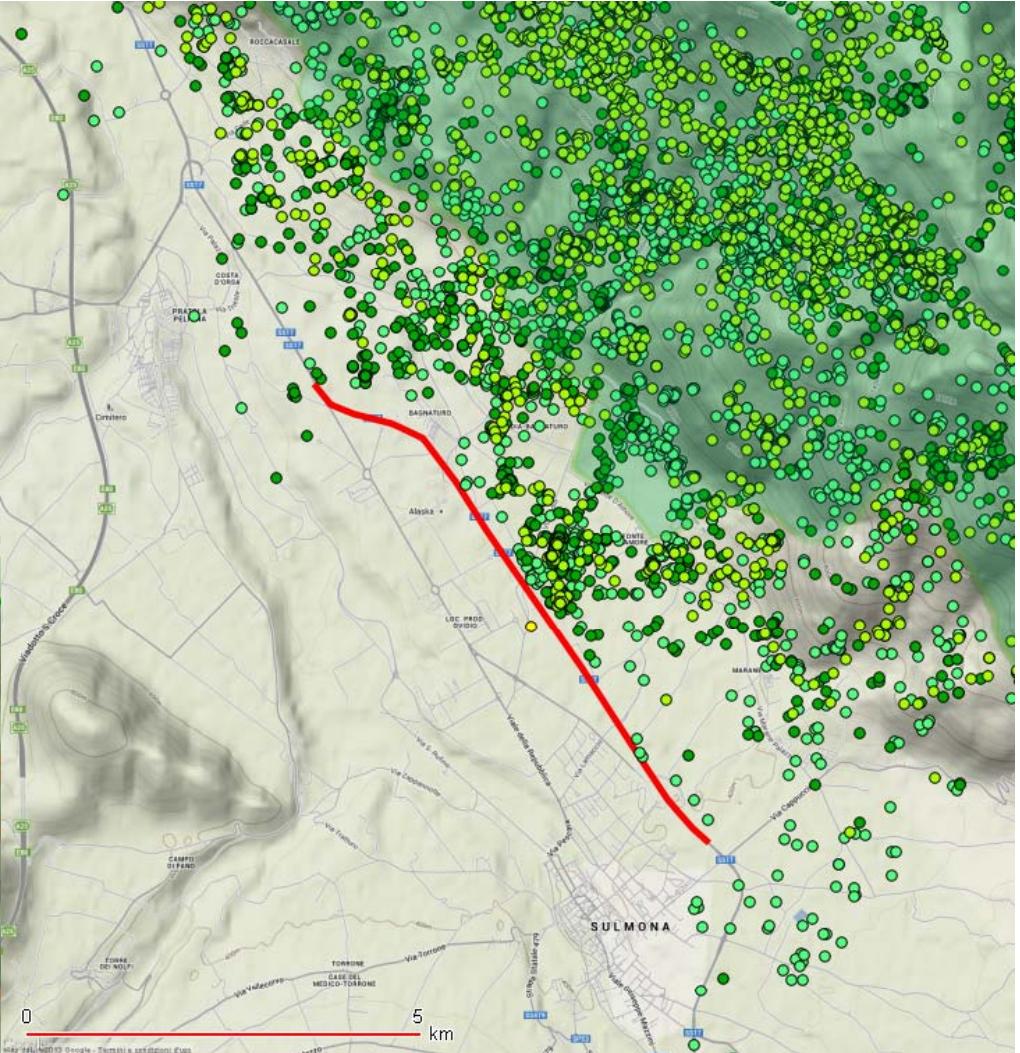
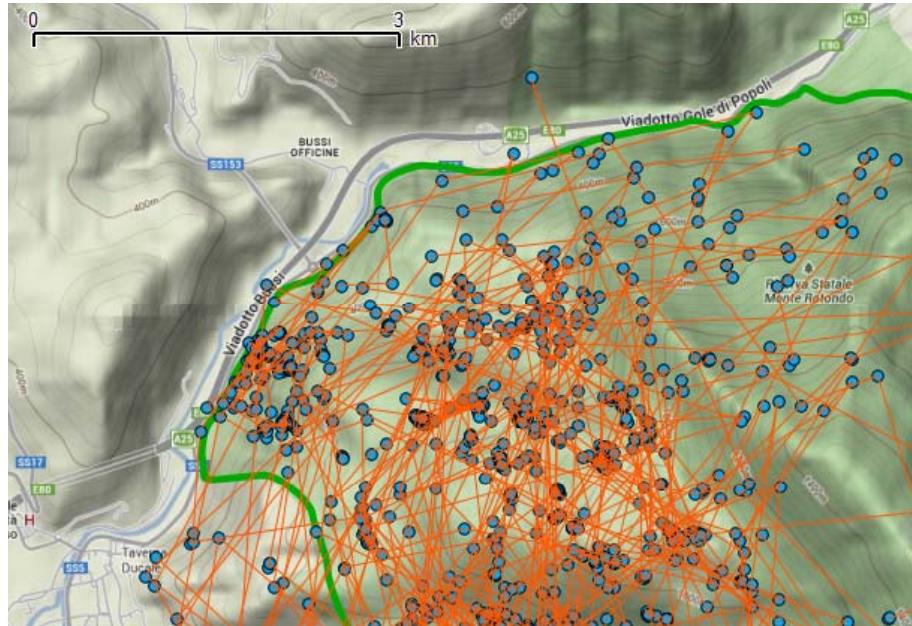


Roma, 3 e 4 dicembre 2018

VERSO UN PIANO NAZIONALE  
DI MONITORAGGIO DEL LUPO



# MORTALITÀ DI ORIGINE ANTROPICA

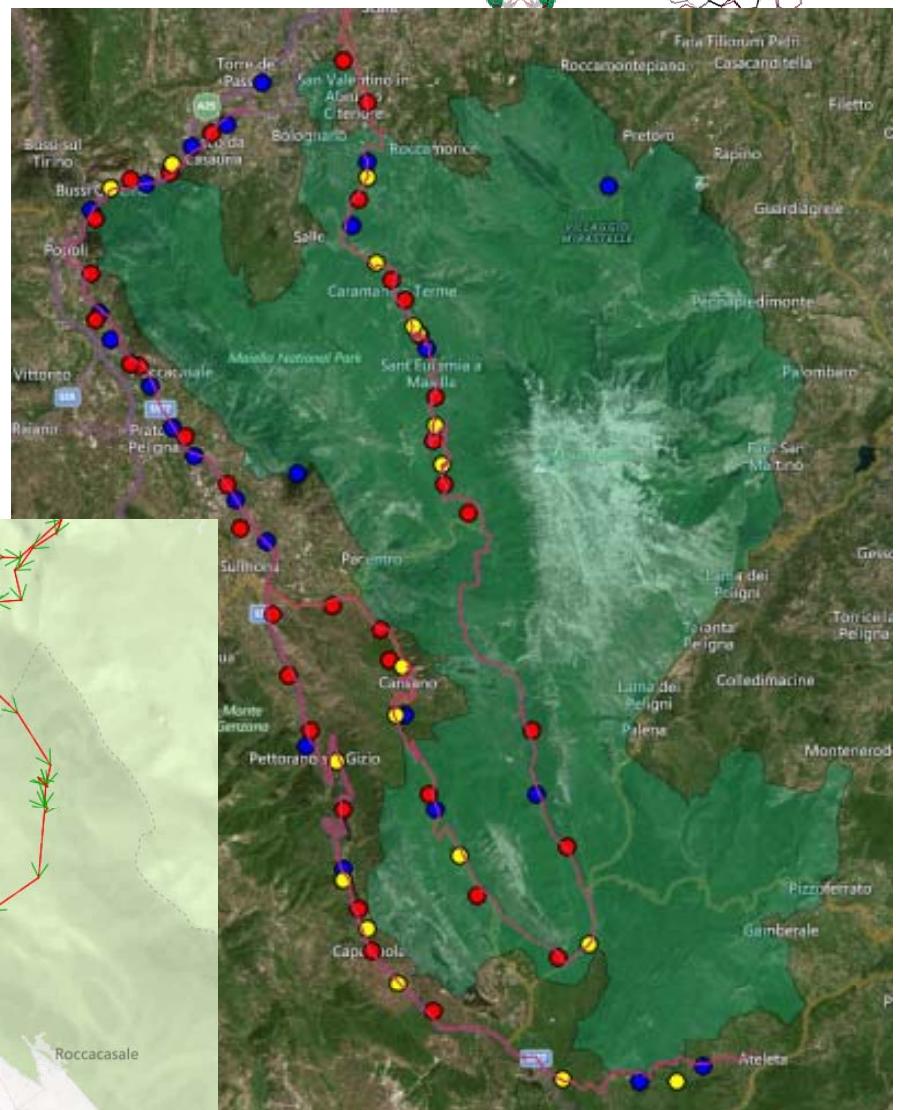
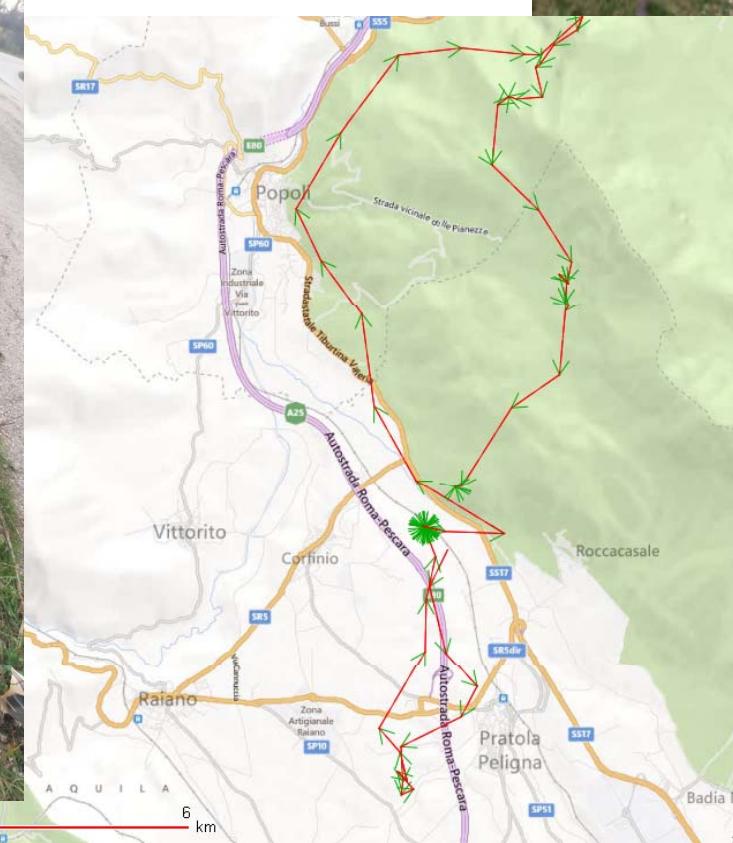


**VERSO UN PIANO NAZIONALE  
DI MONITORAGGIO DEL LUPO**



## MORTALITÀ DI ORIGINE ANTROPICA

| SPECIE (2005-2018) | N.  |
|--------------------|-----|
| Cervo              | 16  |
| Capriolo           | 22  |
| Cinghiale          | 35  |
| Lupo               | 23  |
| Gatto selvatico    | 13  |
|                    | 109 |

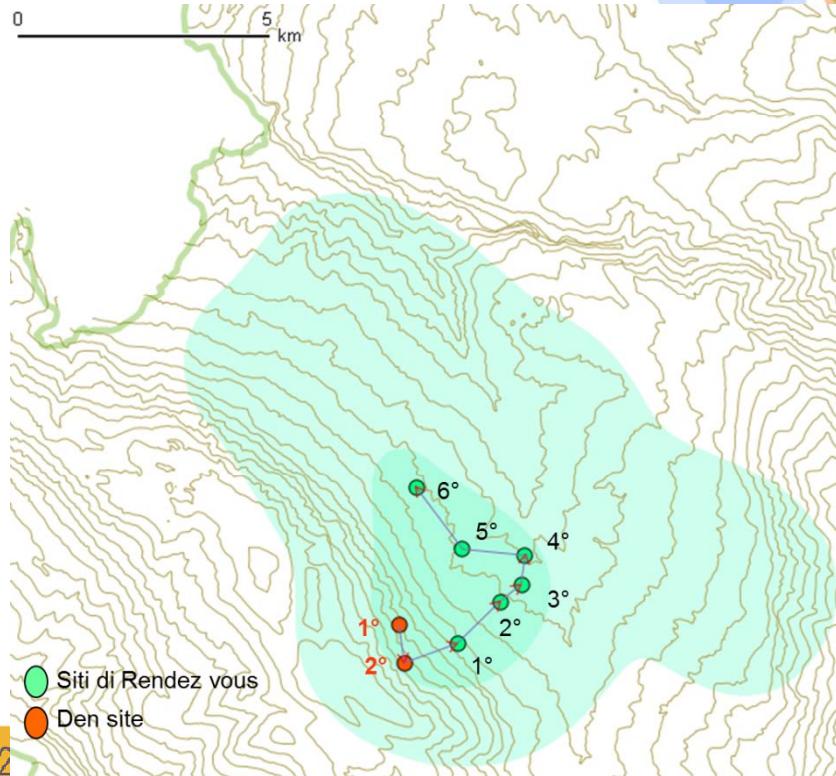
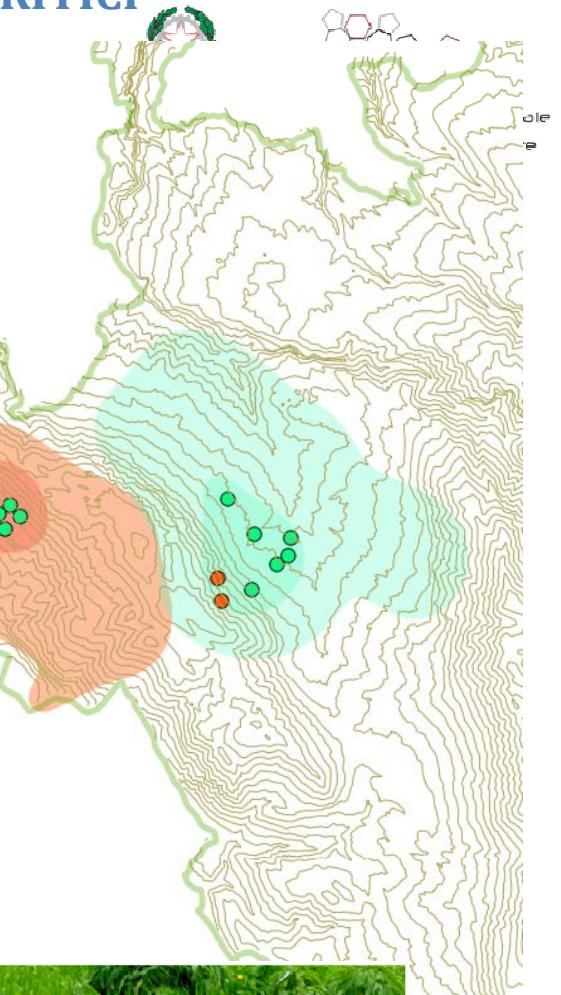
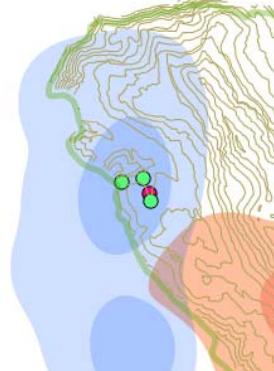


VERSO UN PIANO NAZIONALE  
DI MONITORAGGIO DEL LUPO



## DISTURBO IN AREE E PERIODI CRITICI

0 8 km



ONALE  
DI MONITORAGGIO DEL LUPO

Roma, 3 e 4 dicembre 2014



**ISPRRA**

Istituto Superiore per la Protezione  
e la Ricerca Ambientale

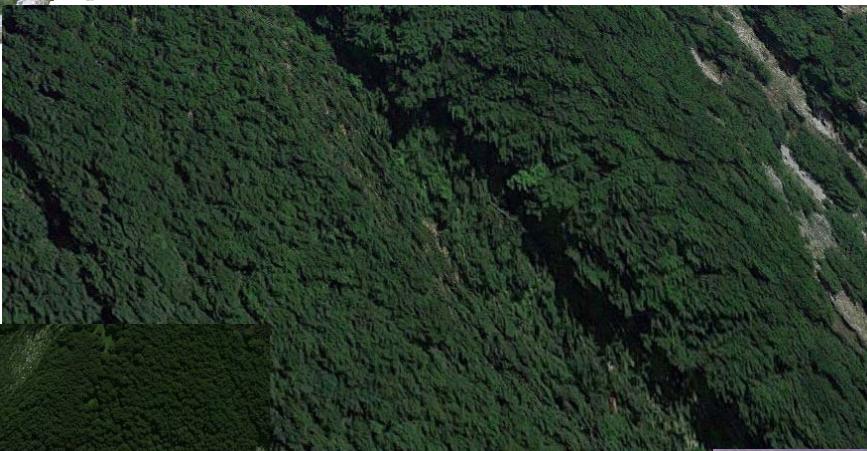


Sistema Nazionale  
per la Protezione  
dell'Ambiente

Roma, 3 e 4 dicembre 2018

**VERSO UN PIANO NAZIONALE  
DI MONITORAGGIO DEL LUPO**

## DISTURBO IN AREE E PERIODI CRITICI



Roma, 3 e 4 dicembre 2018

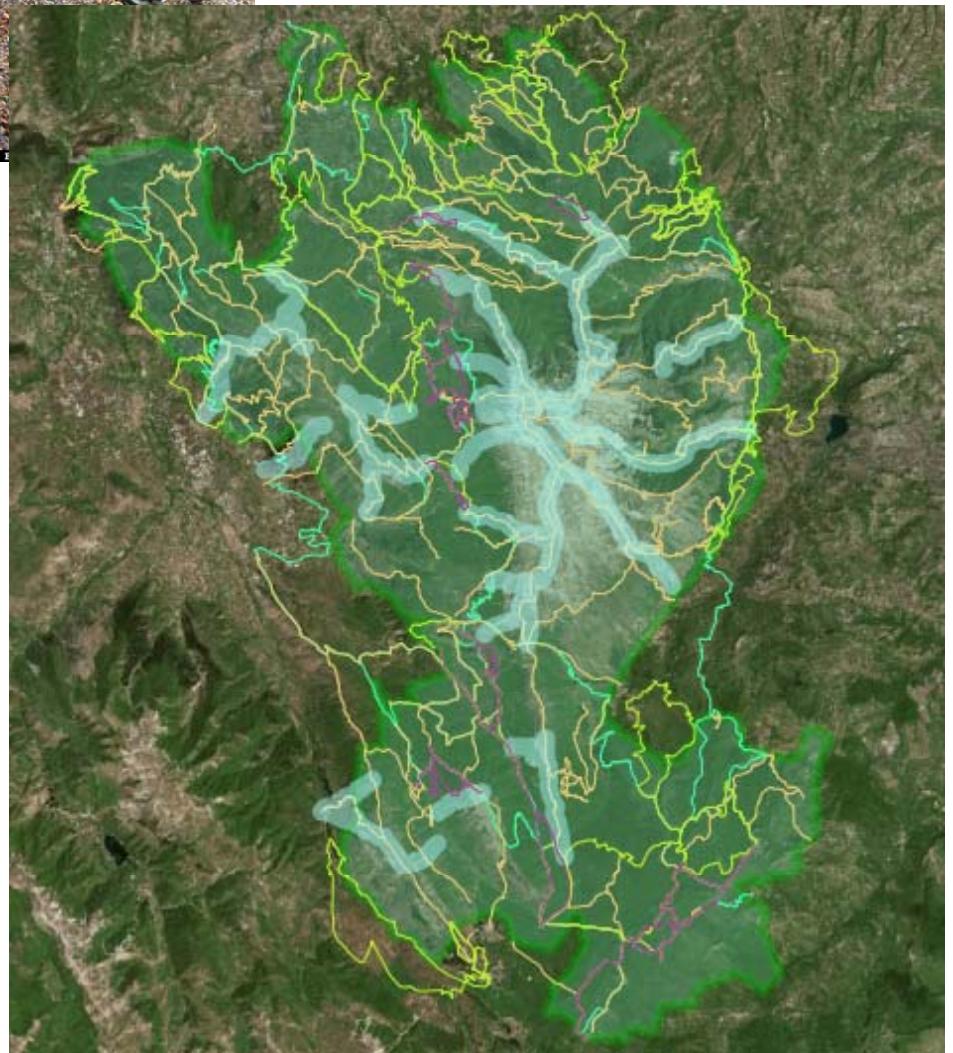
NALE  
LUPO



## DISTURBO IN AREE E PERIODI CRITICI



Roma, 3 e 4 dicembre 2018





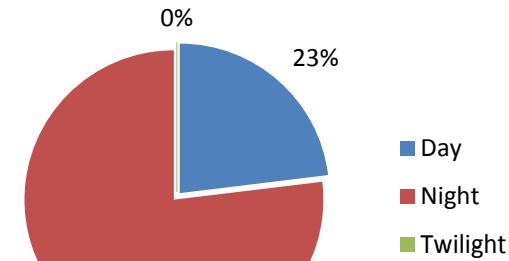
## DISTURBO IN AREE E PERIODI CRITICI



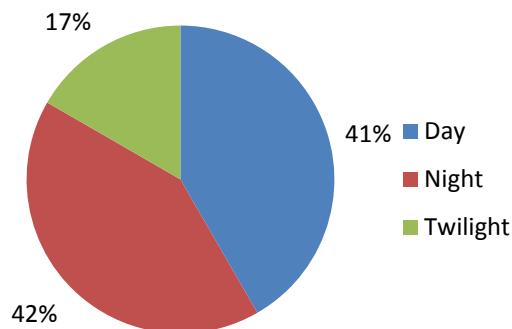
ISPRRA  
Istituto Superiore per la Protezione  
e la Ricerca sull'Ambiente



### Predation clusters October - April



### Predation clusters in May - September



VERSO UN PIANO NAZIONALE  
DI MONITORAGGIO DEL LUPO

Roma, 3 e 4 dicembre 2018



GRAZIE PER L'ATTENZIONE



Roma, 3 e 4 dicembre 2018

VERSO UN PIANO NAZIONALE  
DI MONITORAGGIO DEL LUPO



**ISPRRA**  
Istituto Superiore per la Protezione  
e la Ricerca Ambientale



Sistema Nazionale  
per la Protezione  
dell'Ambiente