



*Great Bustard MoU and LIFE Project Meeting
Illmitz, 10 March 2017*



Evaluation of the impact of the White-tailed Eagle and Imperial Eagle on the Great Bustard through tagging of all three species with GPS loggers in Central Europe

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Technical Office for Biology (Austria)
in co-operation with*

*Miklós LÓRÁNT, Kiskunság National Park Directorate (Hungary),
Márton HORVÁTH, MME (Hungary),
Balázs SZELÉNYI, Hermann Ottó Institute (Hungary) &
Miklós VÁCZI, Fertő-Hanság National Park Directorate (Hungary)*





Preliminary results from Central Europa





Great Bustard (*Otis tarda*)

Photo: F. Kovacs

Distribution of the Great Bustard in Central Europe

Distribution of the central European Great Bustard population in the period 1/1/2005 to 10/1/2017

Great Bustard distribution area

Data source:
Langgemach et al. (Germany)
Loránt et al. (parts of Hungary, Romania and Republic of Serbia)
Raab et al. (Austria, parts of Hungary, Slovak Republic and Czech Republic)



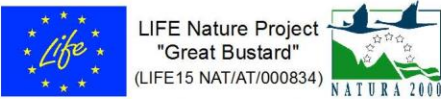
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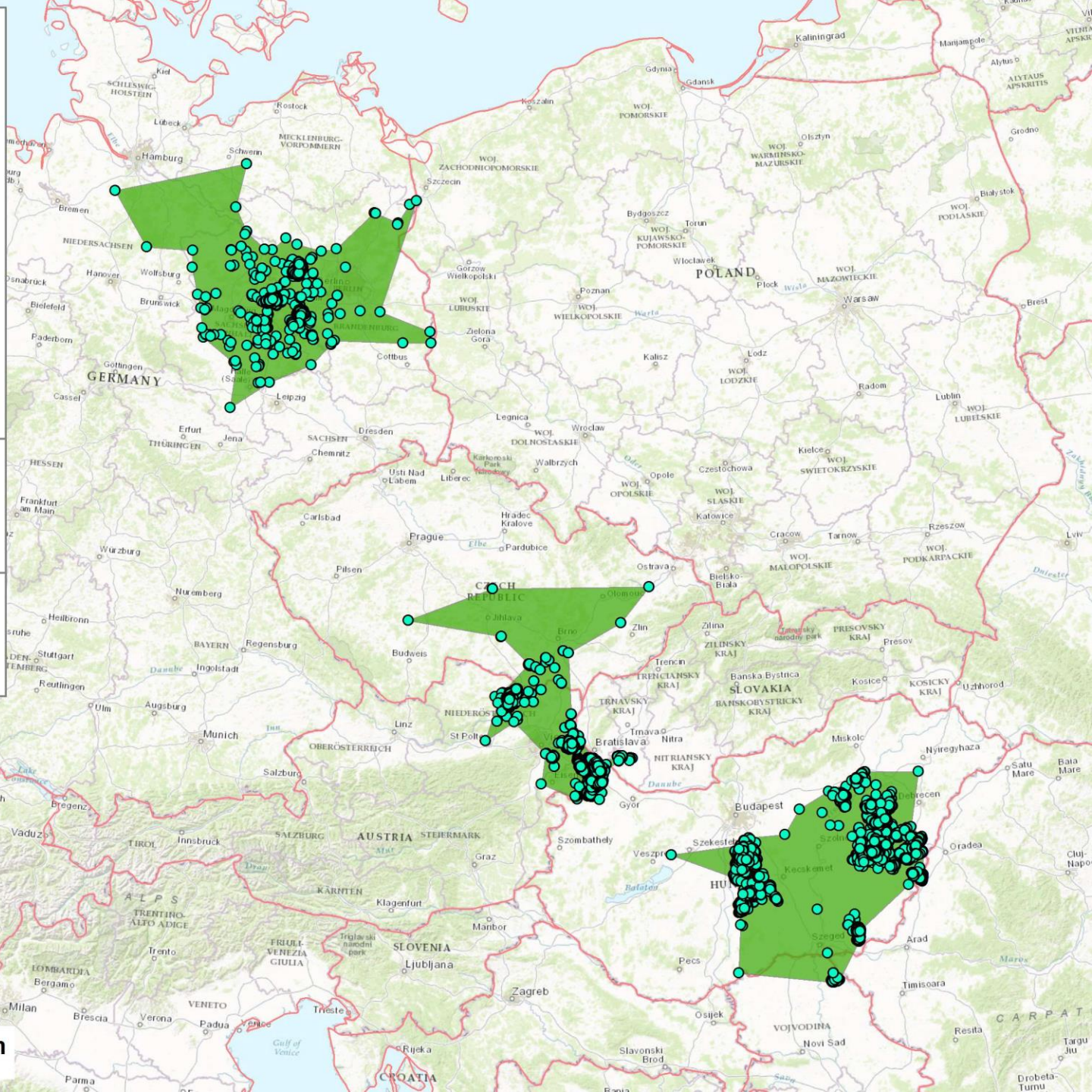


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DES FACHVERBANDES

Background data:
Basemap



The preparation of this map is co-financed by the LIFE-Nature fund of the European Union.



Distribution of the Great Bustard in Central Europe Germany

● Distribution of the central European Great Bustard population in the period 1/1/2005 to 29/9/2014

■ Great Bustard distribution area

Data source:
Langgemach et al. (Germany)
Lóránt et al. (parts of Hungary, Romania and Republic of Serbia)
Raab et al. (Austria, parts of Hungary, Slovak Republic and Czech Republic)



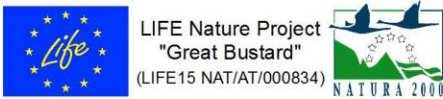
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Map preparation:
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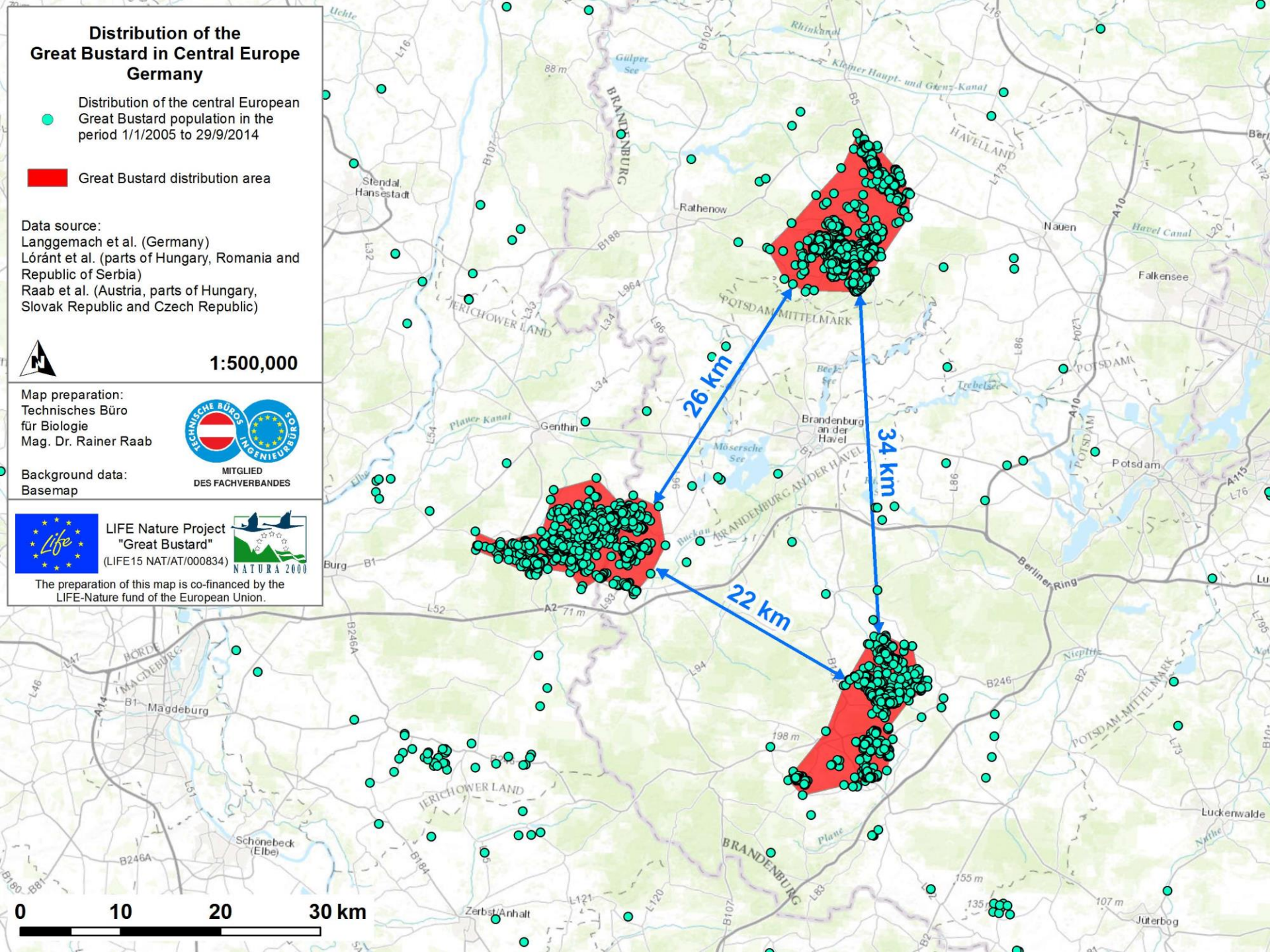


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Background data:
Basemap



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Distribution of the Great Bustard in Central Europe Austria, Hungary, Czech Republic, Slovakia

● Distribution of the central European Great Bustard population in the period 1/1/2005 to 10/1/2017

■ Great Bustard distribution area

Data source:
Langgemach et al. (Germany)
Lóránt et al. (parts of Hungary, Romania and Republic of Serbia)
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1:900,000

Map preparation:
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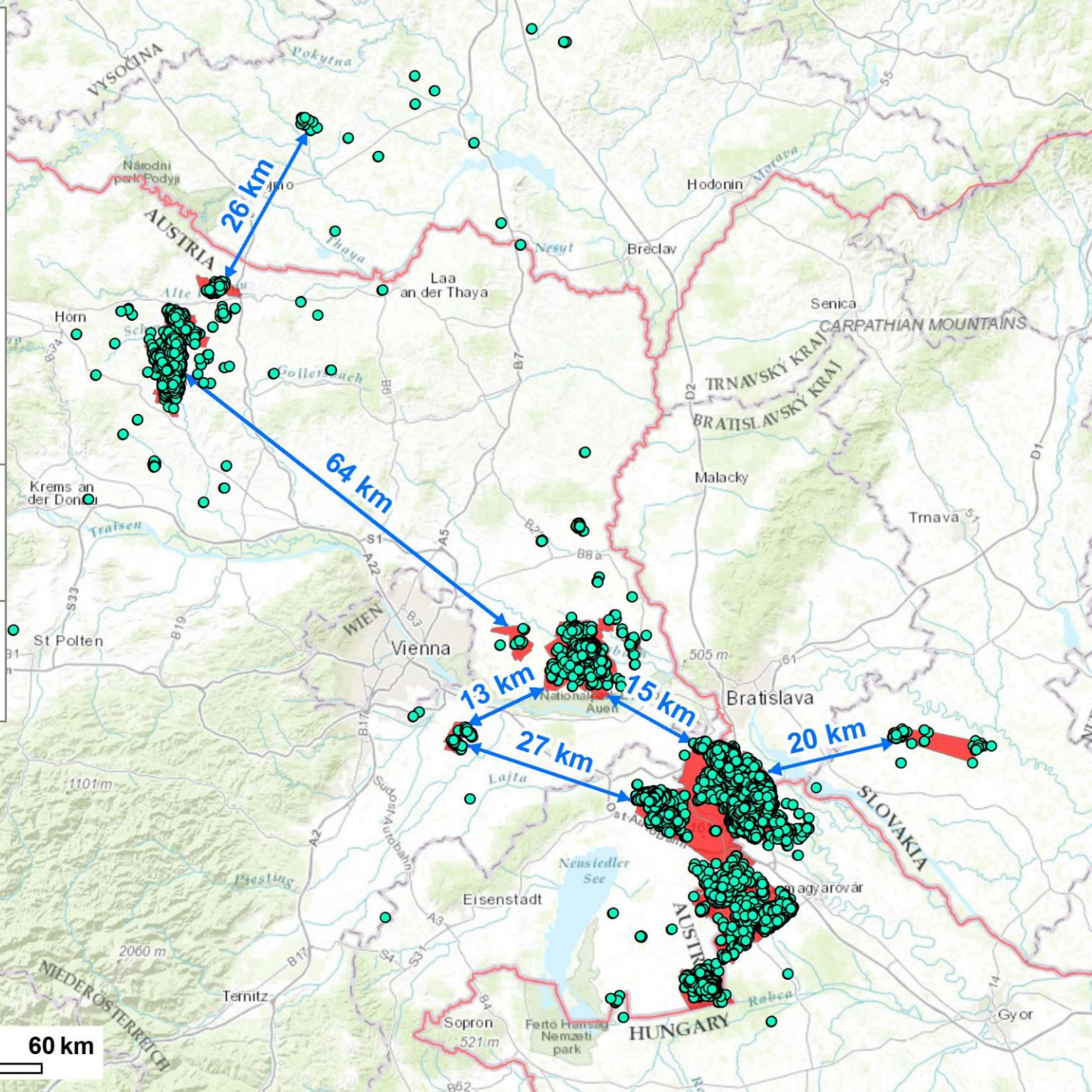
Background data:
Basemap



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Distribution of the Great Bustard in Central Europe Hungary, Romania, Serbia

● Distribution of the central European Great Bustard population in the period 1/1/2005 to 11/9/2015

■ Great Bustard distribution area

Data source:
Langgemach et al. (Germany)
Lóránt et al. (parts of Hungary, Romania and Republic of Serbia)
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1:1,300,000

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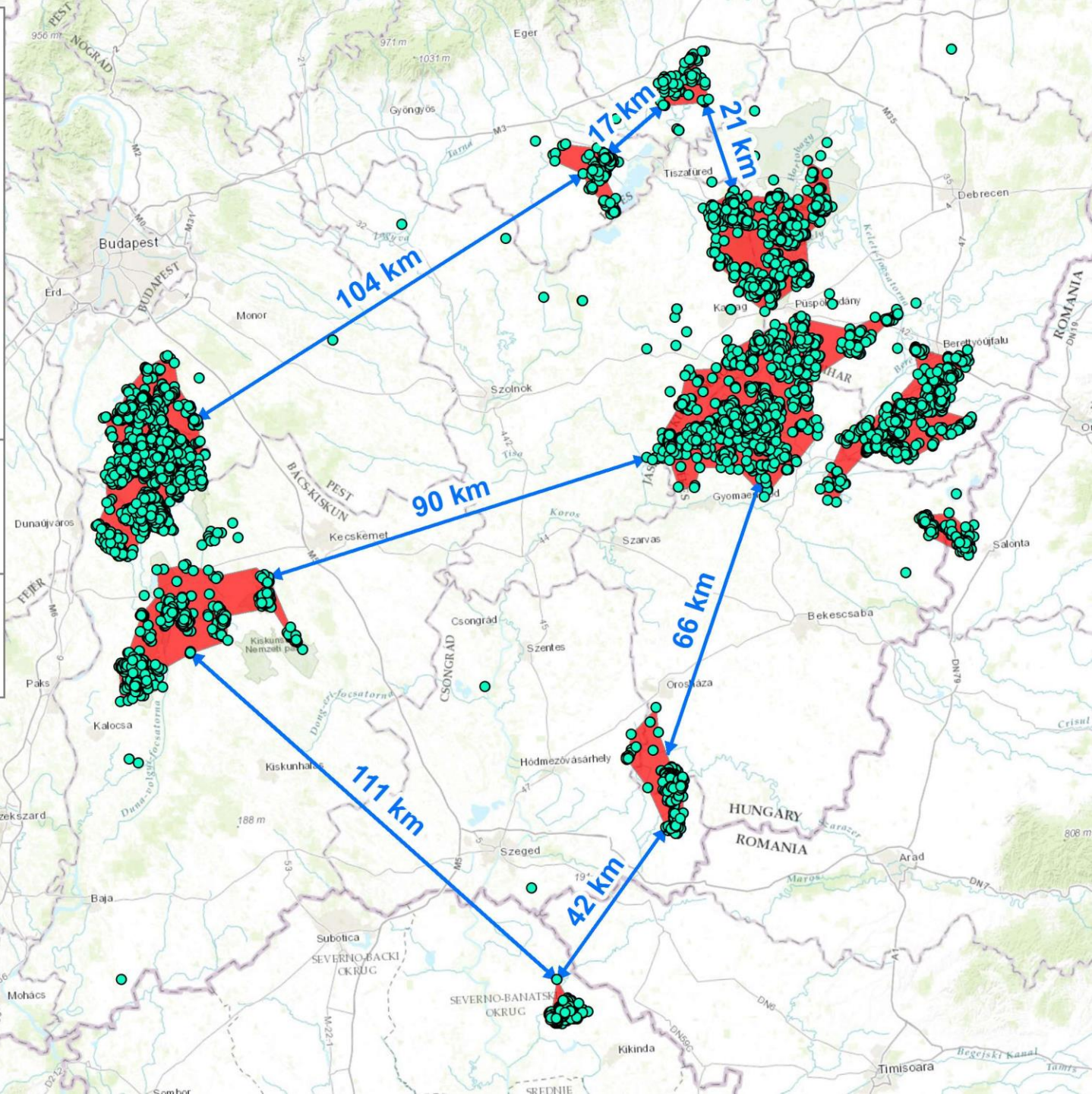
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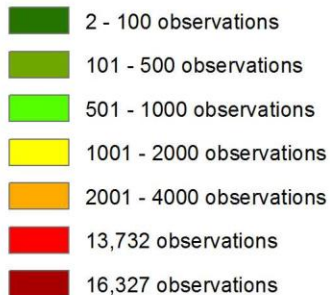


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Distribution of the Great Bustard in Central Europe Germany

10 x 10 km Raster - observations of at least 2 years within one raster:



Data source:
 Langgemach et al. (Germany)
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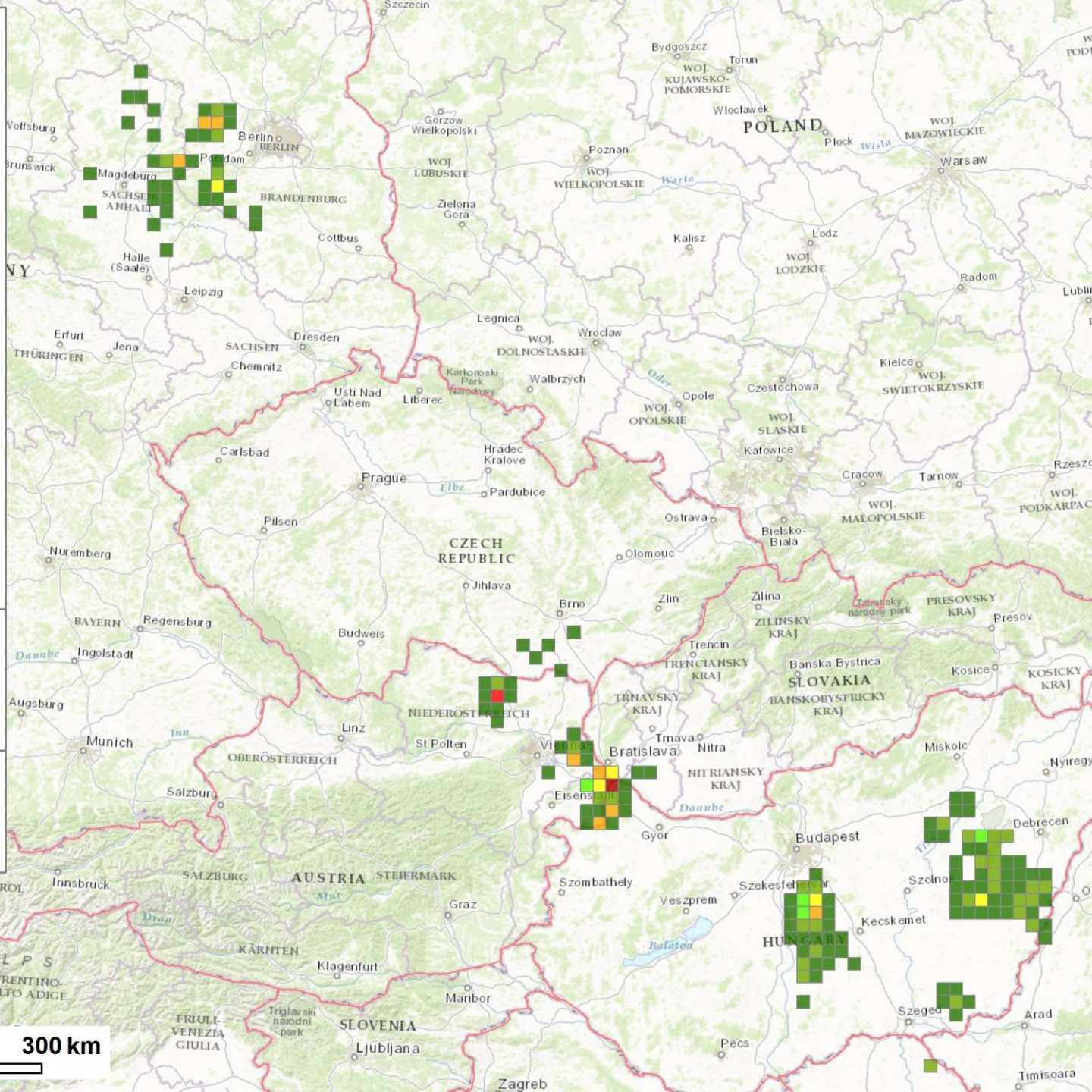
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 Basemap



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 (LIFE15 NAT/AT/000834)



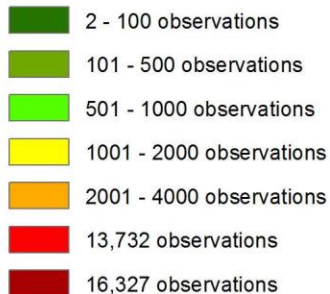
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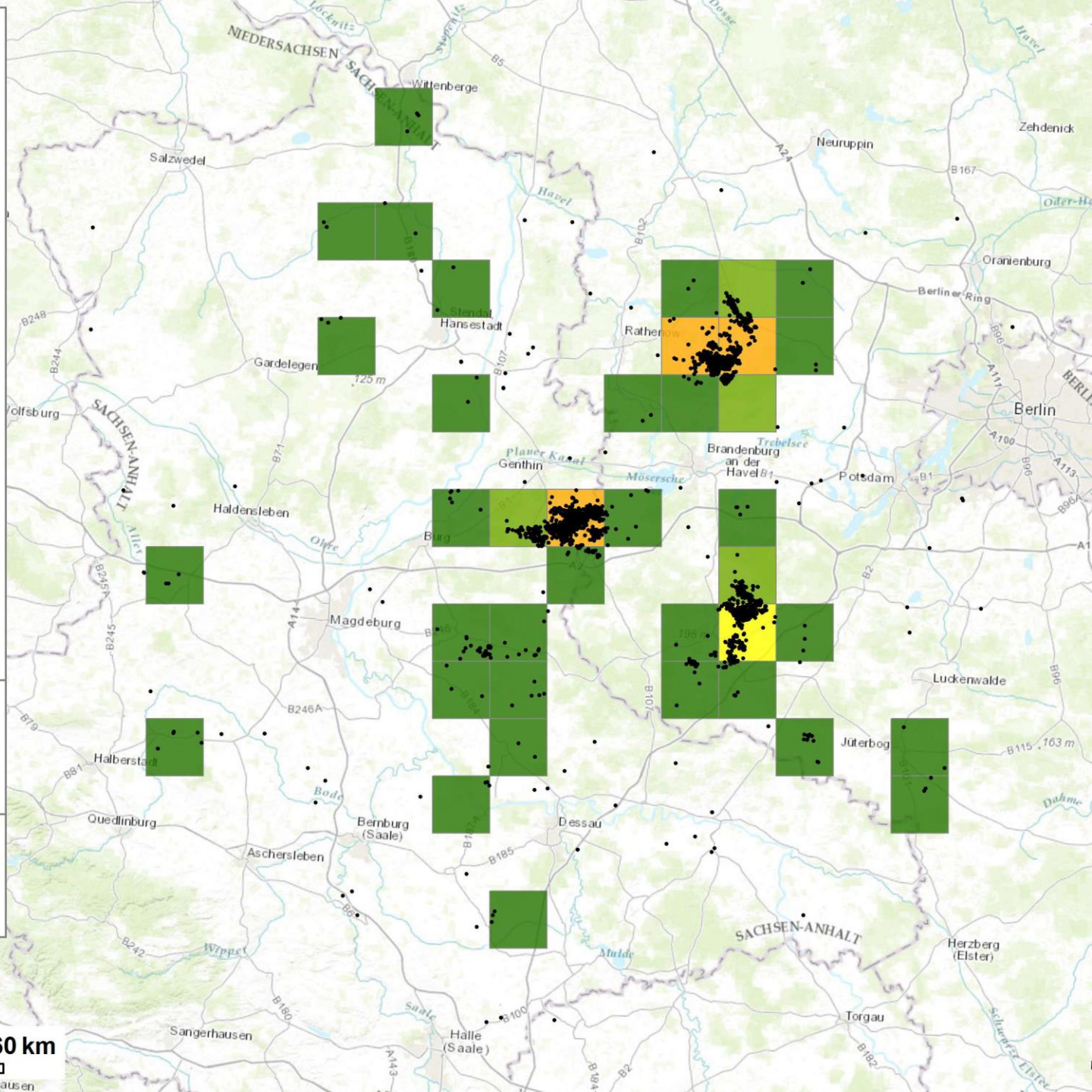
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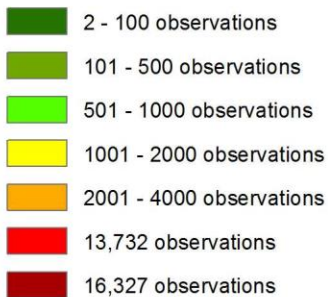


0 20 40 60 km

Distribution of the Great Bustard in Central Europe Austria, Hungary, Czech Republic, Slovakia

Distribution of the central European Great Bustard population in the period 1/1/2005 to 10/1/2017

10 x 10 km Raster - observations of at least 2 years within one raster:



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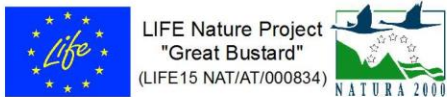


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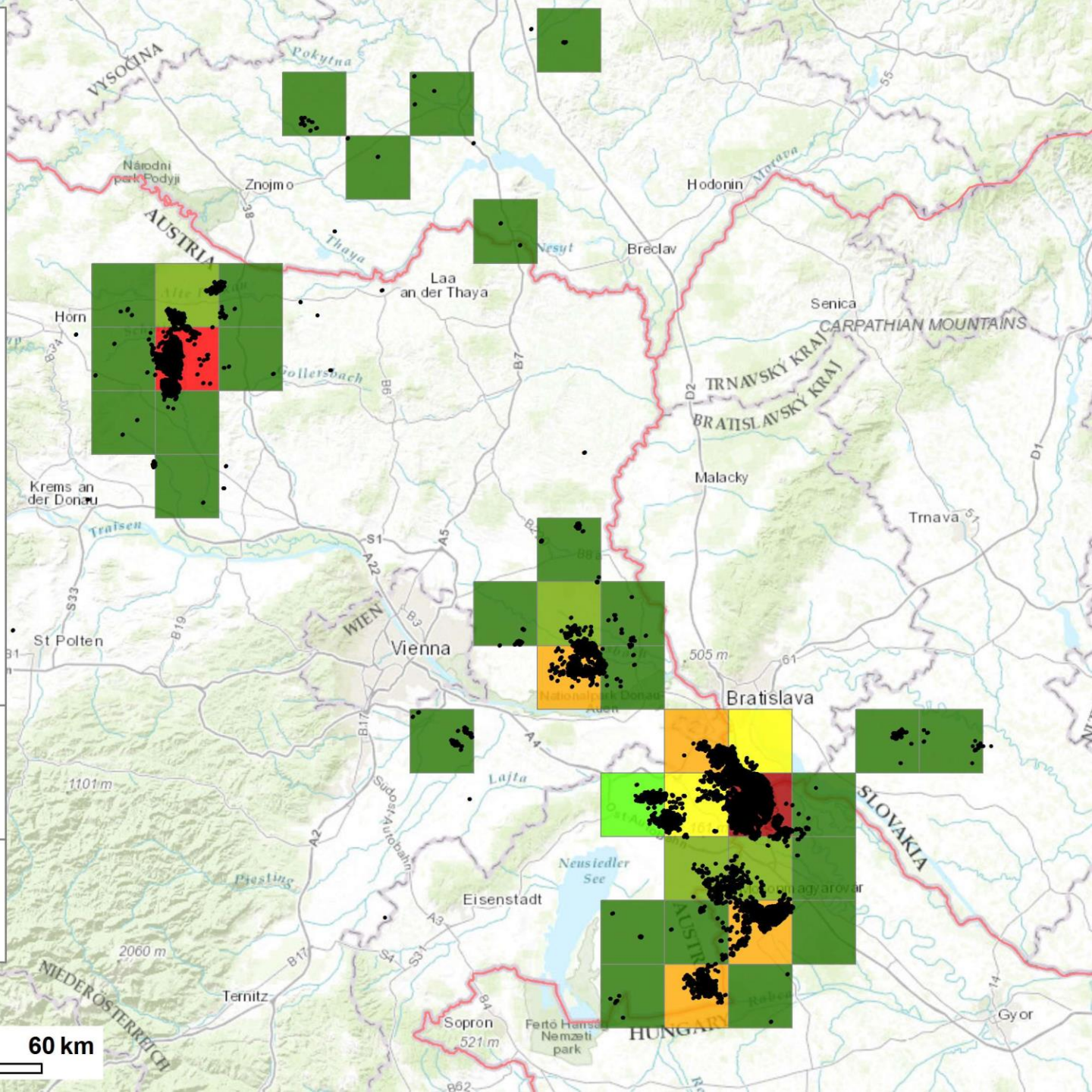
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Background data:
Basemap



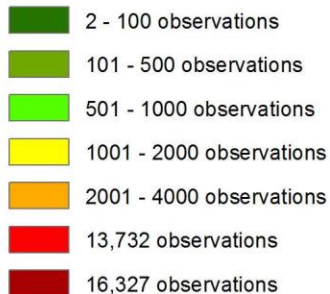
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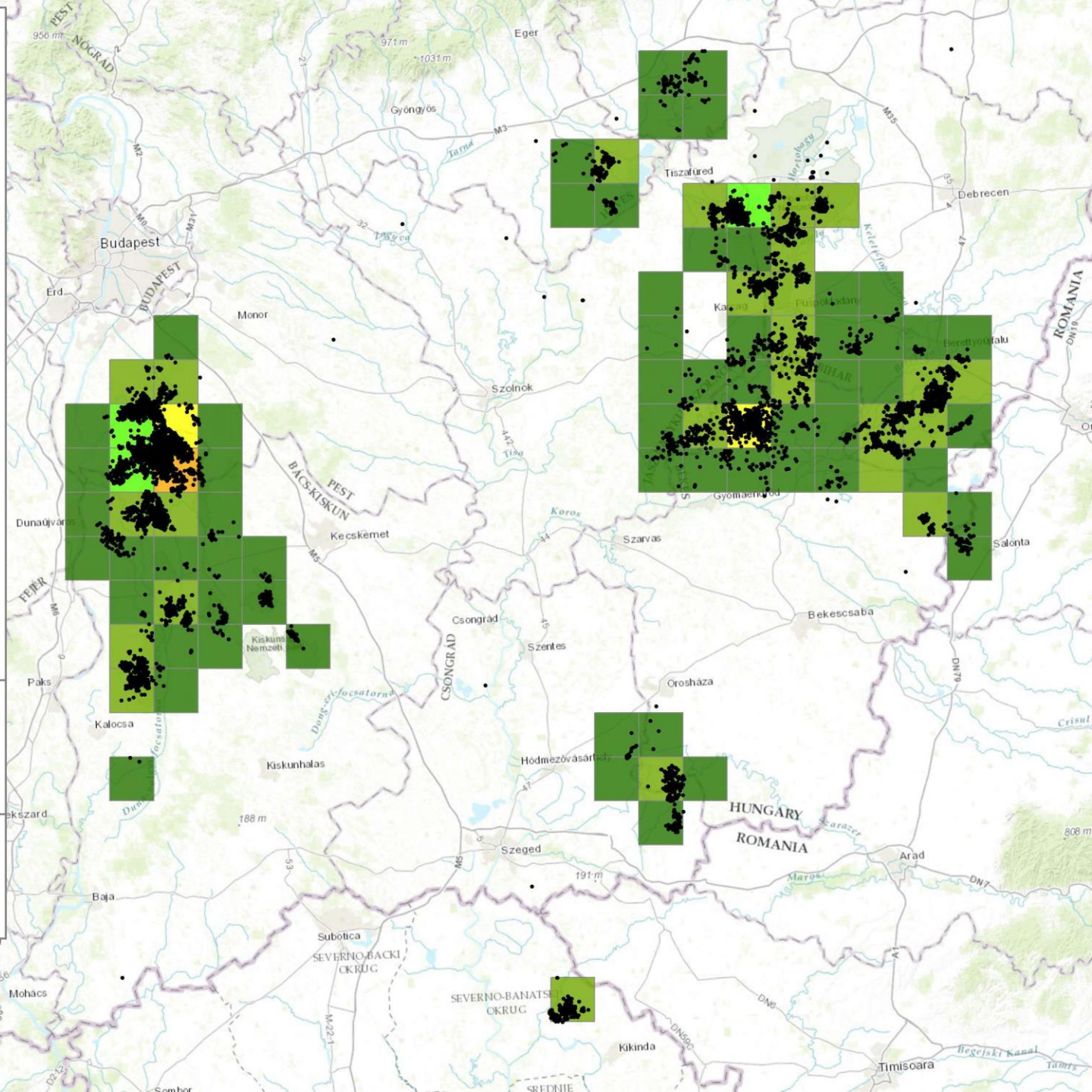
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Background data:
Basemap



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White-tailed Eagle (*Haliaeetus albicilla*)

Photo: G. Rotheneder



White-tailed Eagle (*Haliaeetus albicilla*)

Photo: G. Rotheneder



Photo: R. Katzinger

White-tailed Eagle
(*Haliaeetus albicilla*)



White-tailed Eagle (*Haliaeetus albicilla*)

Photo: R. Katzinger

White-tailed Eagle Telemetry Overview Tagging Central Europe

○ Tagging areas White-tailed
Eagle 2015 and 2016

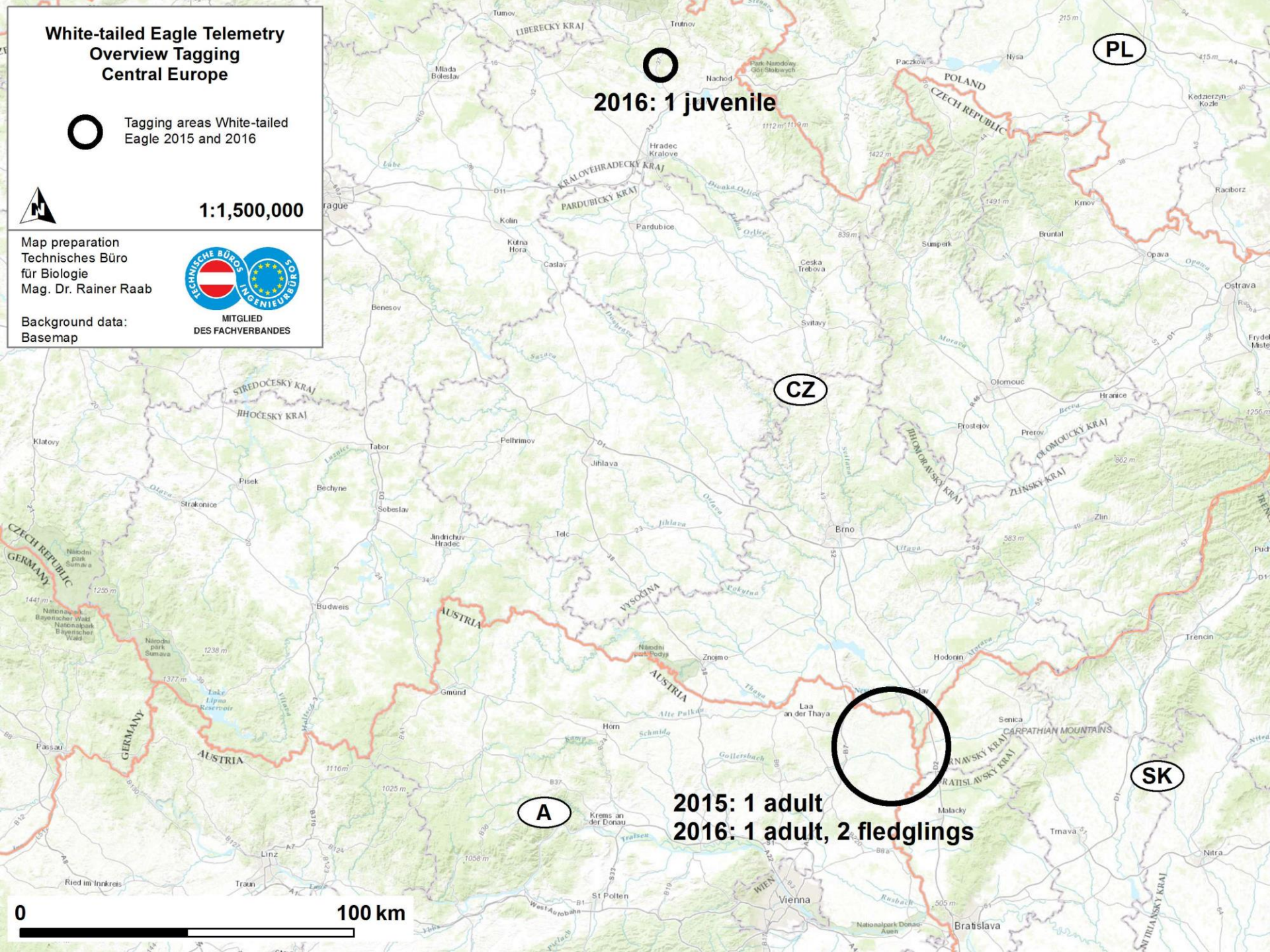


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Background data:
Basemap



2016: 1 juvenile

2015: 1 adult
2016: 1 adult, 2 fledglings



Telemetry Data White-tailed Eagle 2015 - 2017

5 individuals in the period
10/10/2015 to 14/2/2017 (71,302 DS)
1 individual 2015, 5 individuals 2016,
4 individuals 2017 (Status: 7/3/2017)

- Telemetry point
- National border



1:12,000,000

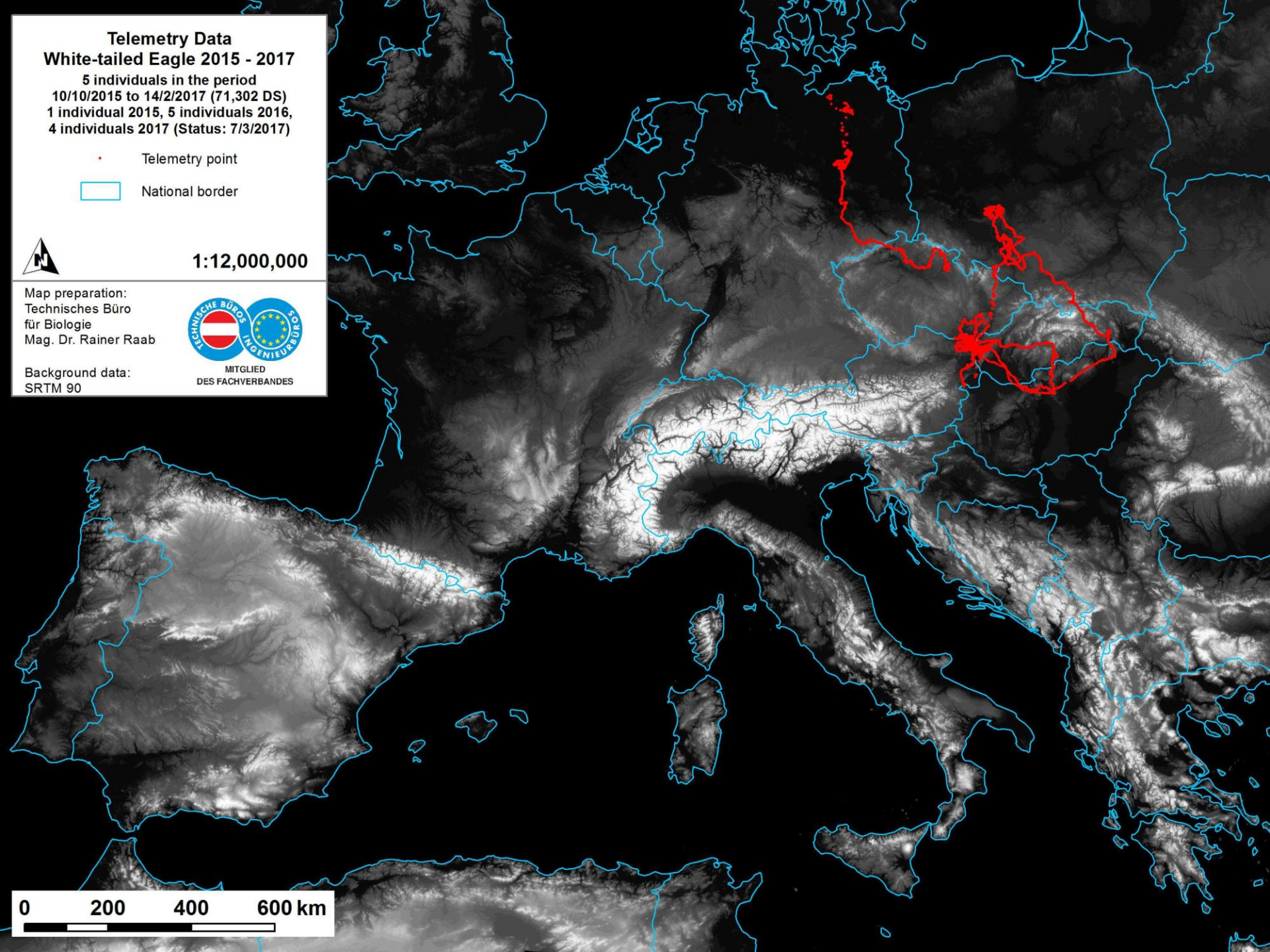
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Background data:
SRTM 90

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0 200 400 600 km



Telemetry Data White-tailed Eagle 2015 - 2017

5 individuals in the period
10/10/2015 to 14/2/2017 (71,302 DS)
1 individual 2015, 5 individuals 2016,
4 individuals 2017 (Status: 7/3/2017)

- Telemetry point
- National border



1:3,000,000

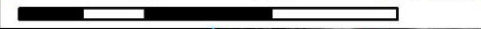
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Background data:
SRTM 90

0 50 100 150 km



Telemetry Data White-tailed Eagle 2015 - 2017

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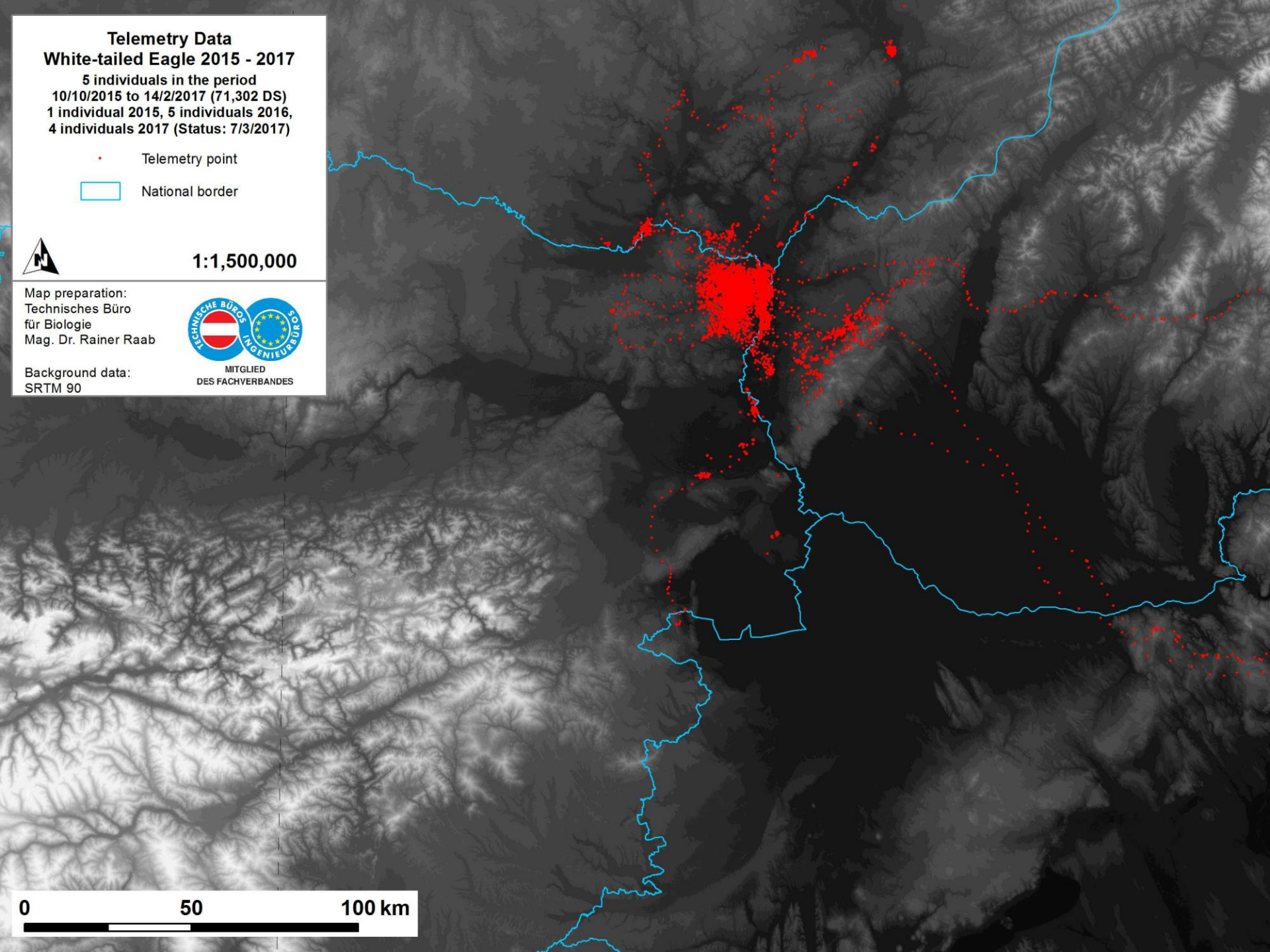
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Background data:
SRTM 90

0 50 100 km



Imperial Eagle (*Aquila heliaca*)



Photo: F. Kovacs

Photo: G. Rotheneder

Imperial Eagle
(*Aquila heliaca*)





Imperial Eagle
(*Aquila heliaca*)

Photo: F. Kovacs



Imperial Eagle
(*Aquila heliaca*)

Photo: R. Katzinger



Imperial Eagle
(*Aquila heliaca*)

Photo: R. Katzinger

Imperial Eagle
(*Aquila heliaca*)



Photo: R. Katzinger

Imperial Eagle
(*Aquila heliaca*)

Photo: J. Chavko



Imperial Eagle Telemetry Overview Tagging A, SK and HU



Tagging areas Imperial Eagle
2016 and 2017



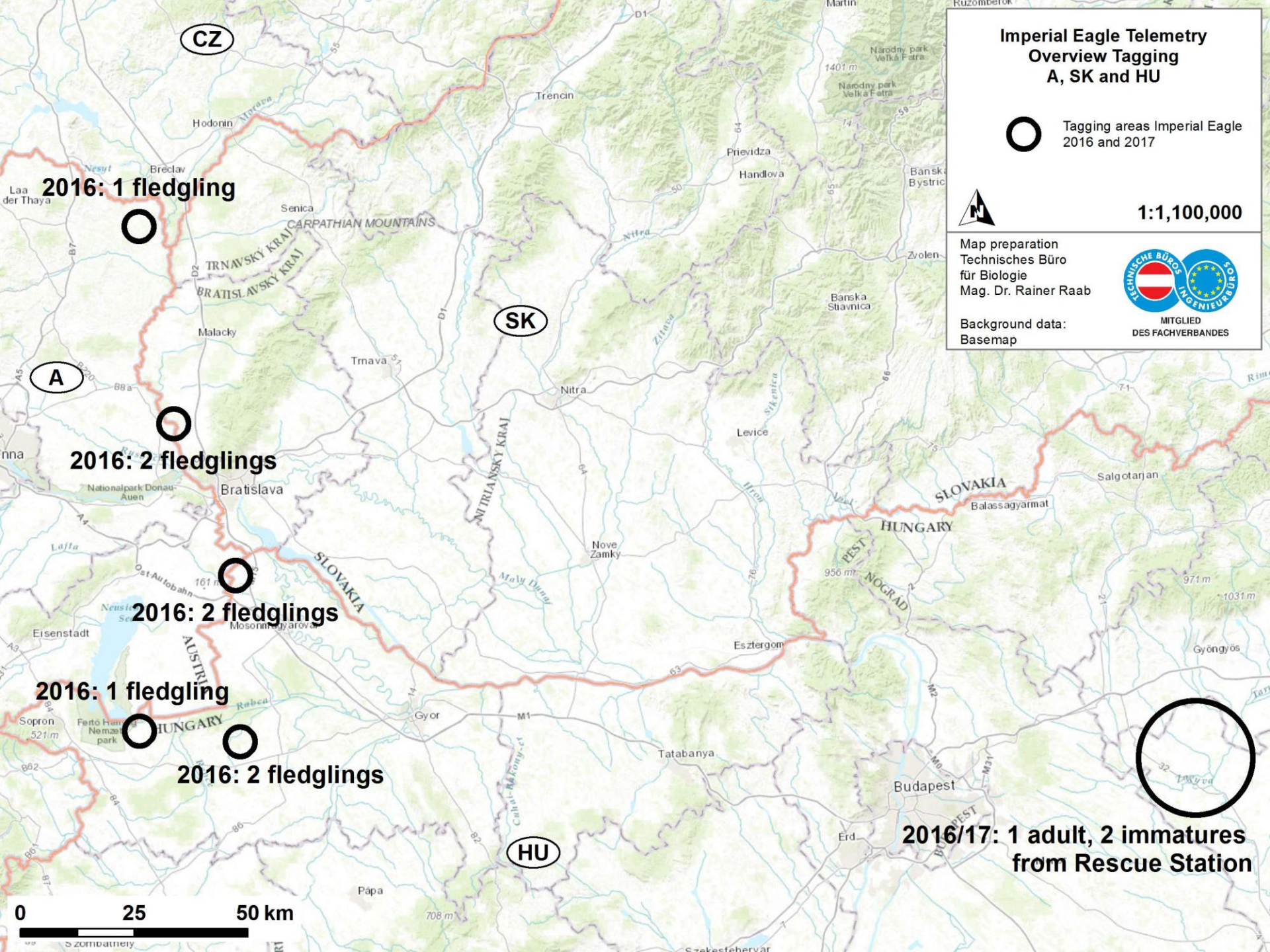
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Background data:
Basemap



2016: 1 fledgling



2016: 2 fledglings



2016: 2 fledglings



2016: 1 fledgling



2016: 2 fledglings



2016/17: 1 adult, 2 immatures
from Rescue Station



0 25 50 km

Telemetry Data Imperial Eagle 2016 - 2017

9 individuals in the period
23/6/2016 to 26/2/2017 (196,193 DS)
8 individuals 2016, 5 individuals 2017
(Status: 3/3/2017)

- Telemetry point
- National border



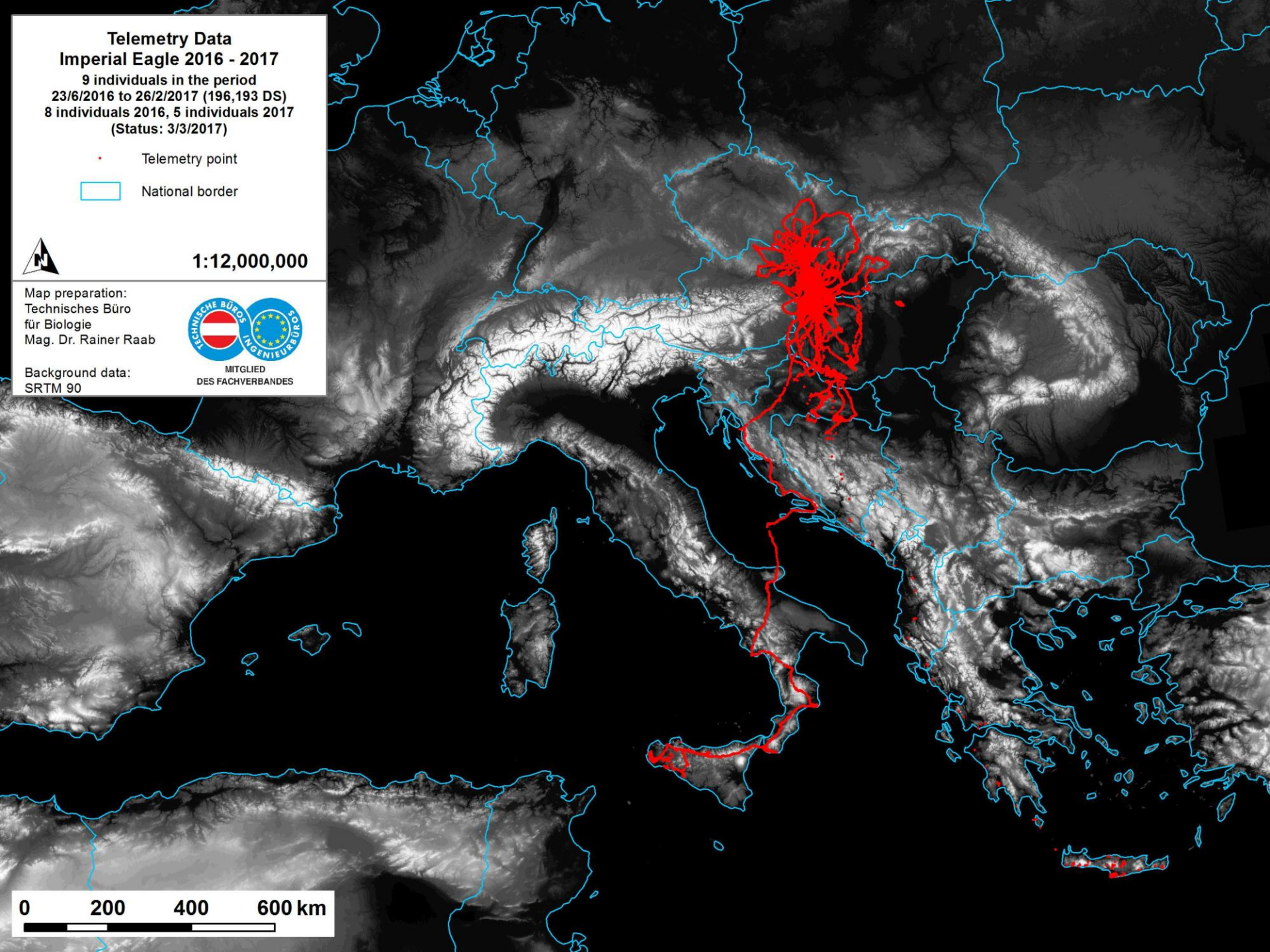
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Background data:
SRTM 90



0 200 400 600 km

Telemetry Data Imperial Eagle 2016 - 2017

9 individuals in the period
23/6/2016 to 26/2/2017 (196,193 DS)
8 individuals 2016, 5 individuals 2017
(Status: 3/3/2017)

- Telemetry point
- National border



1:3,000,000

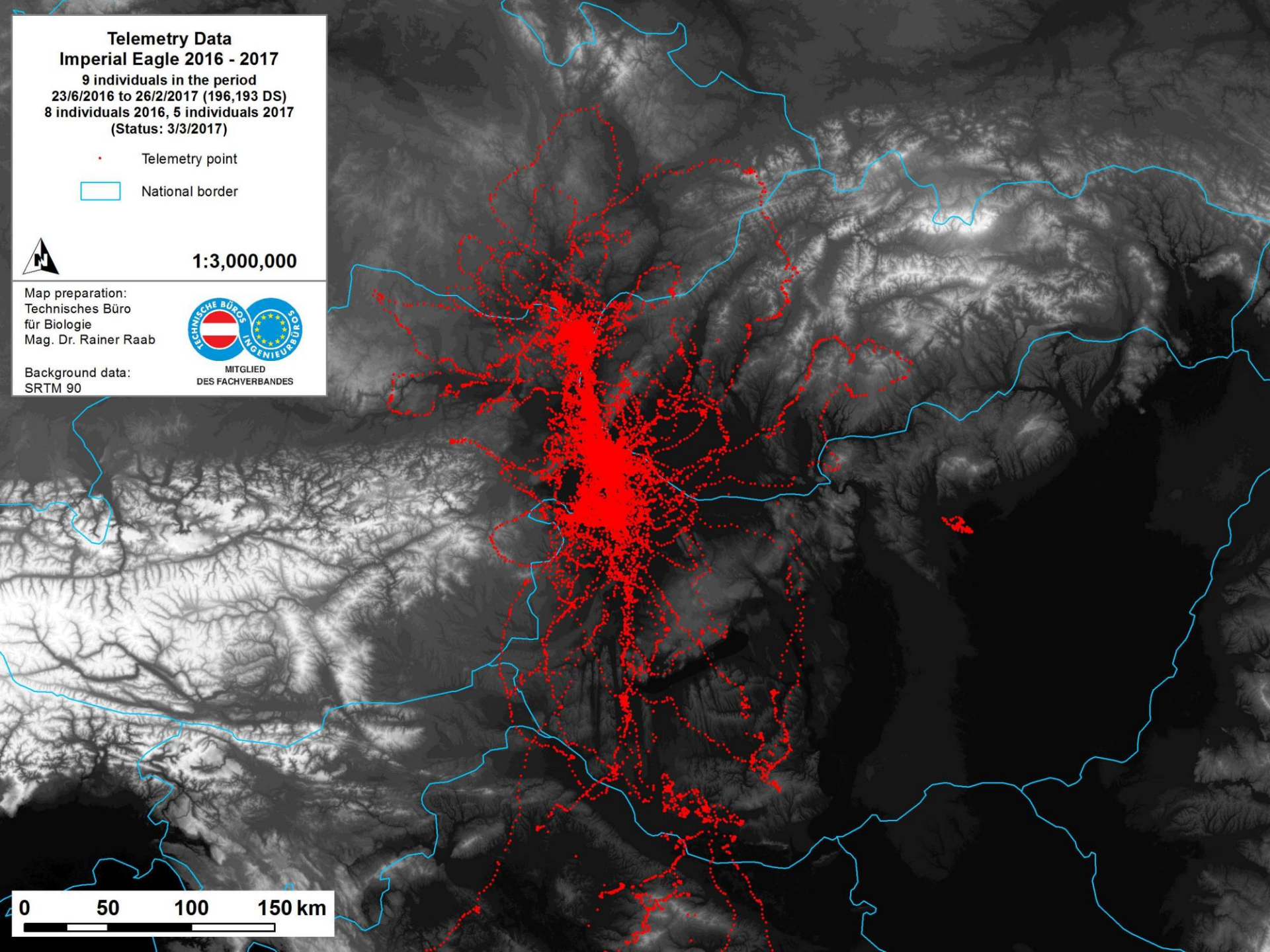
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Background data:
SRTM 90

0 50 100 150 km



Telemetry Data Imperial Eagle 2016 - 2017

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8 individuals 2016, 5 individuals 2017
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- Telemetry point
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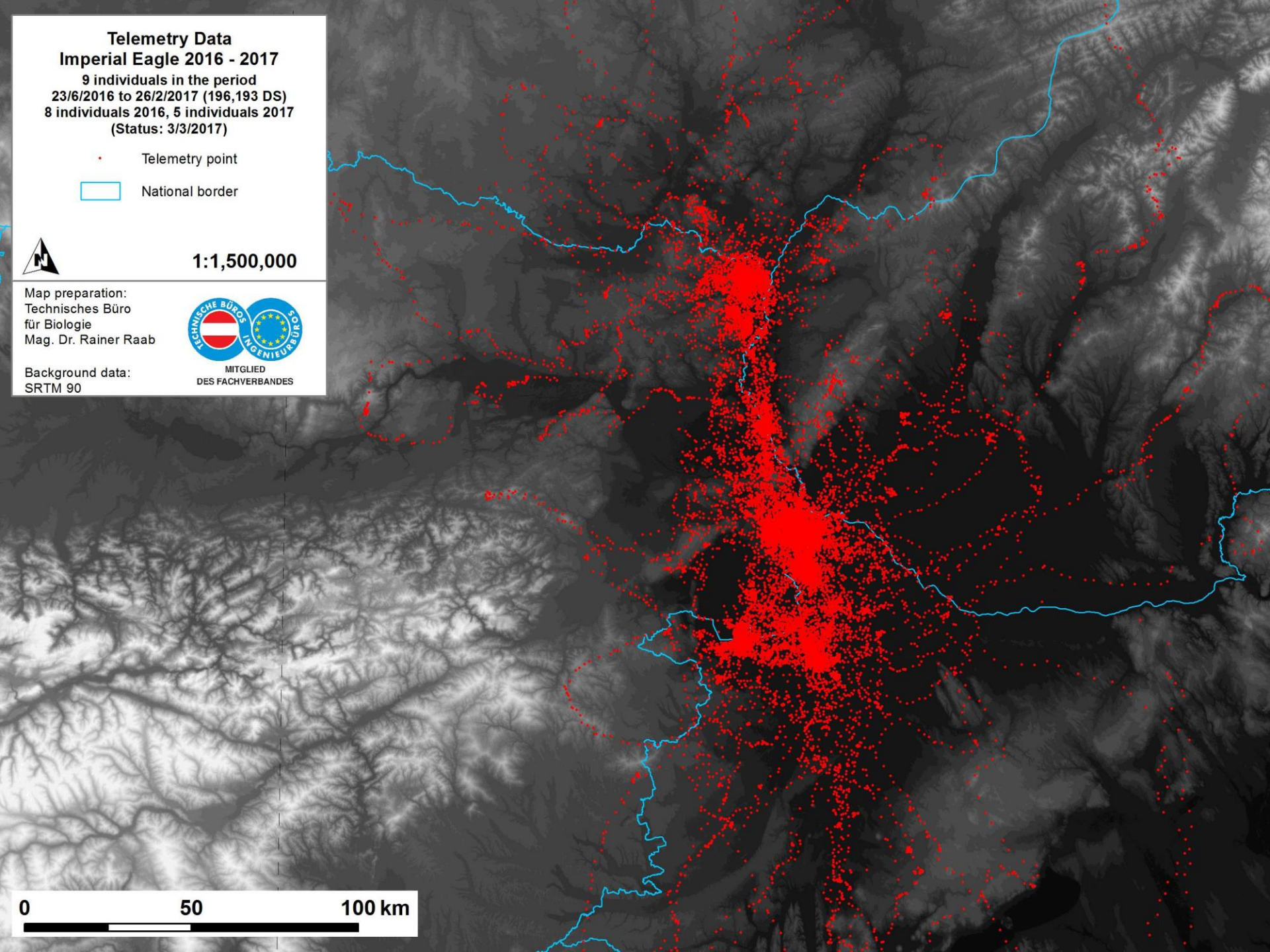
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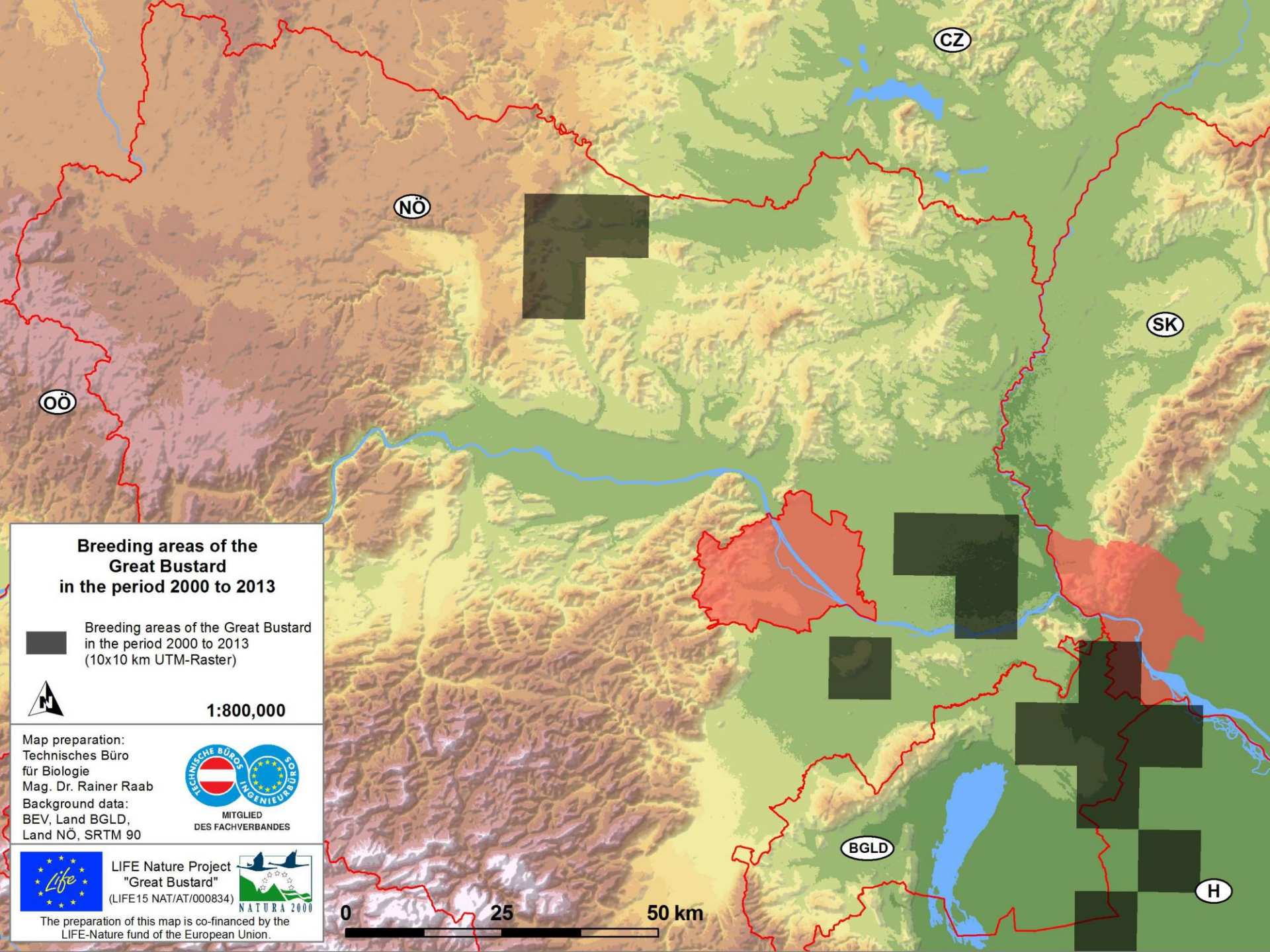


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DES FACHVERBANDES


Background data:
SRTM 90

0 50 100 km





Breeding areas of the Great Bustard in the period 2000 to 2013

 Breeding areas of the Great Bustard in the period 2000 to 2013 (10x10 km UTM-Raster)



1:800,000

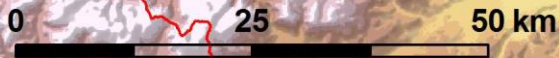
Map preparation:
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für Biologie
Mag. Dr. Rainer Raab
Background data:
BEV, Land BGLD,
Land NÖ, SRTM 90

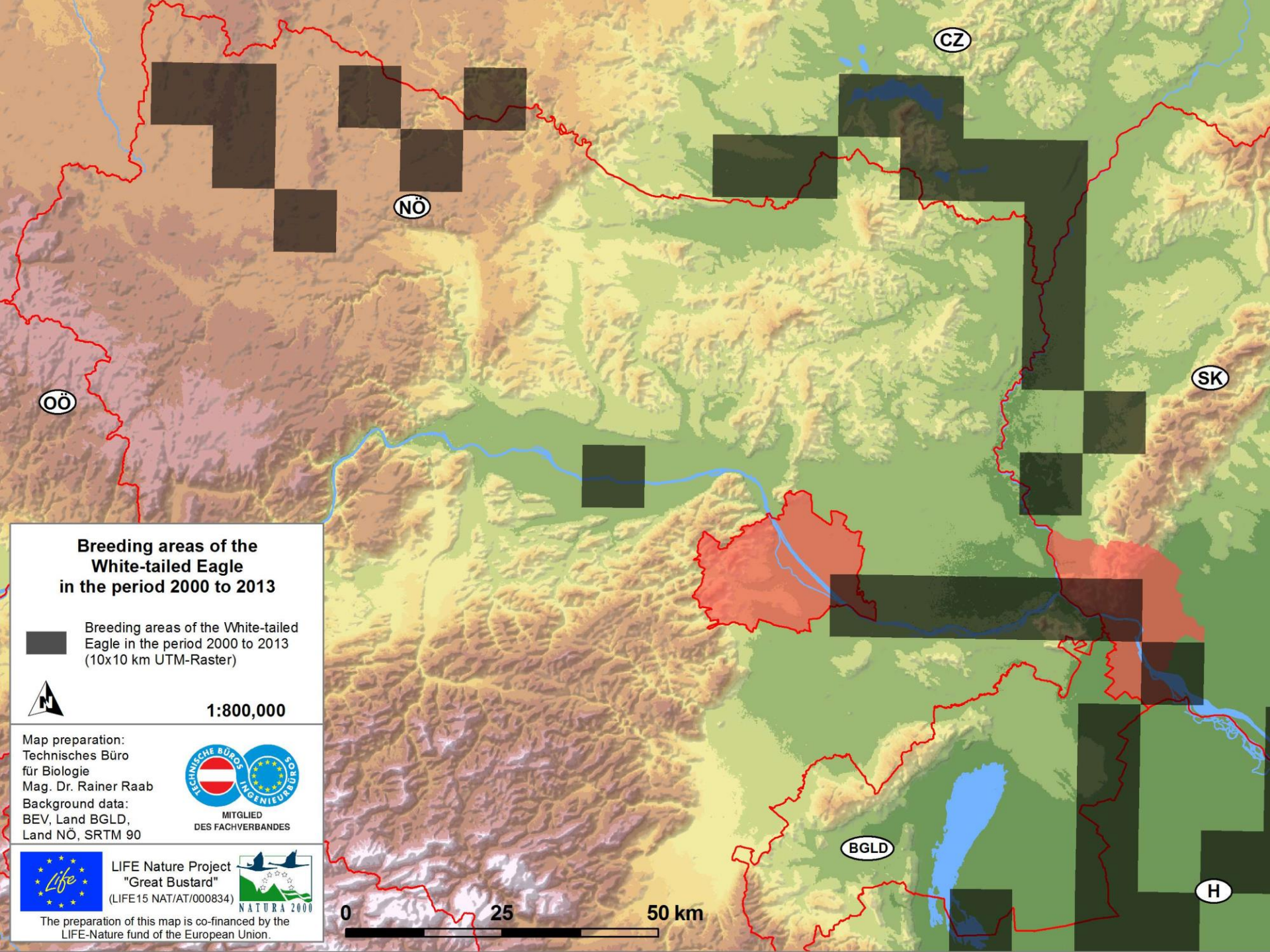


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Breeding areas of the White-tailed Eagle in the period 2000 to 2013

Breeding areas of the White-tailed Eagle in the period 2000 to 2013 (10x10 km UTM-Raster)



1:800,000

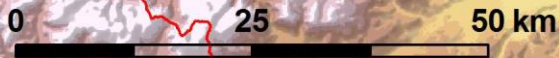
Map preparation:
Technisches Büro
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Mag. Dr. Rainer Raab
Background data:
BEV, Land BGLD,
Land NÖ, SRTM 90

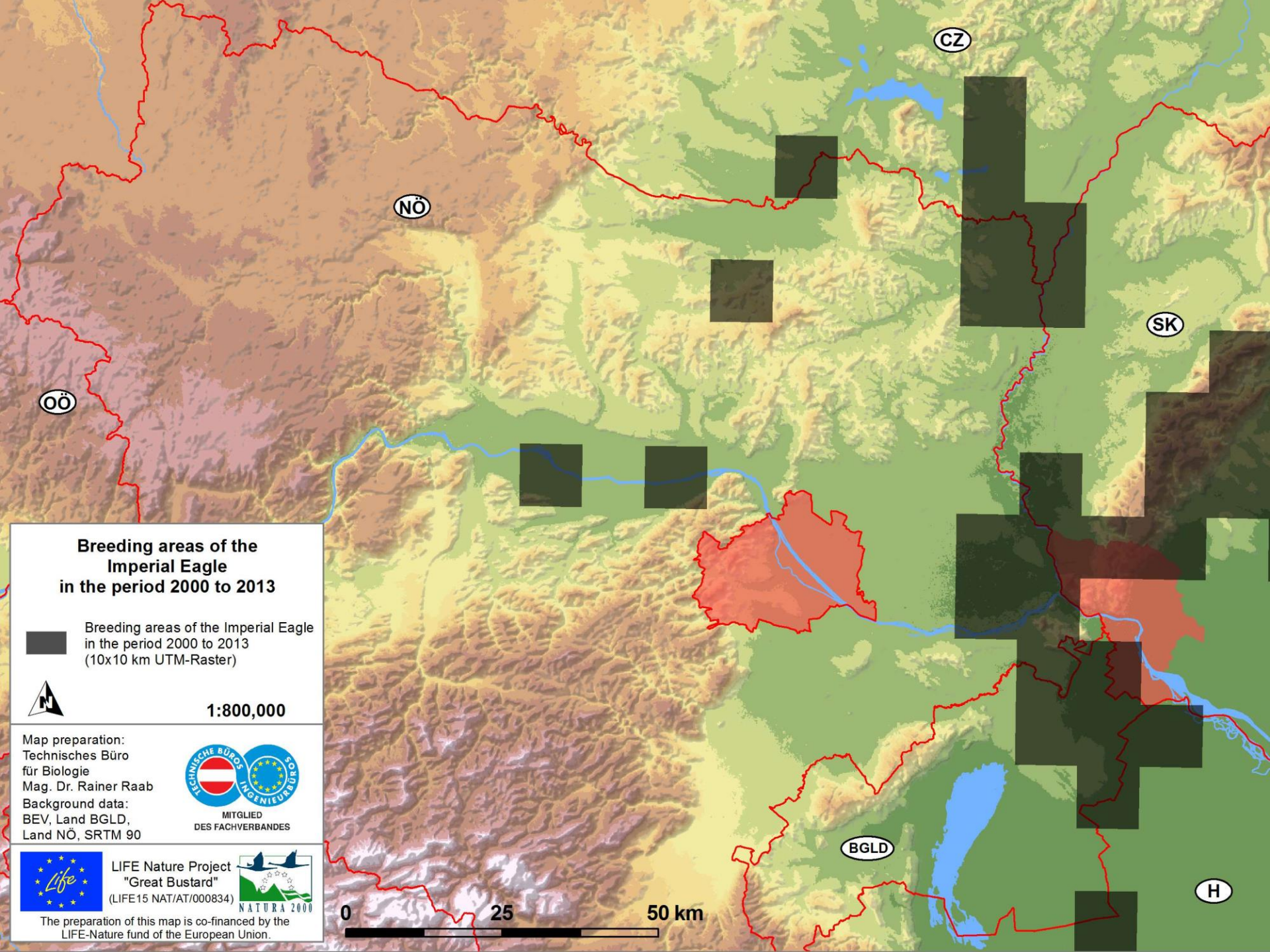


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Breeding areas of the Imperial Eagle in the period 2000 to 2013

Breeding areas of the Imperial Eagle in the period 2000 to 2013 (10x10 km UTM-Raster)



1:800,000

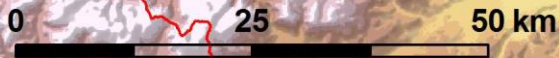
Map preparation:
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Mag. Dr. Rainer Raab
Background data:
BEV, Land BGLD,
Land NÖ, SRTM 90



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Preliminary results from an
project area on the border
AT/HU/SK

**Great Bustard observations
from July until December
in the period
1/1/2005 to 31/12/2016**

● Great Bustard observations from July
until December in the period
1/1/2005 to 31/12/2016

▨ Natura 2000 Special Protection Area



1:100,000

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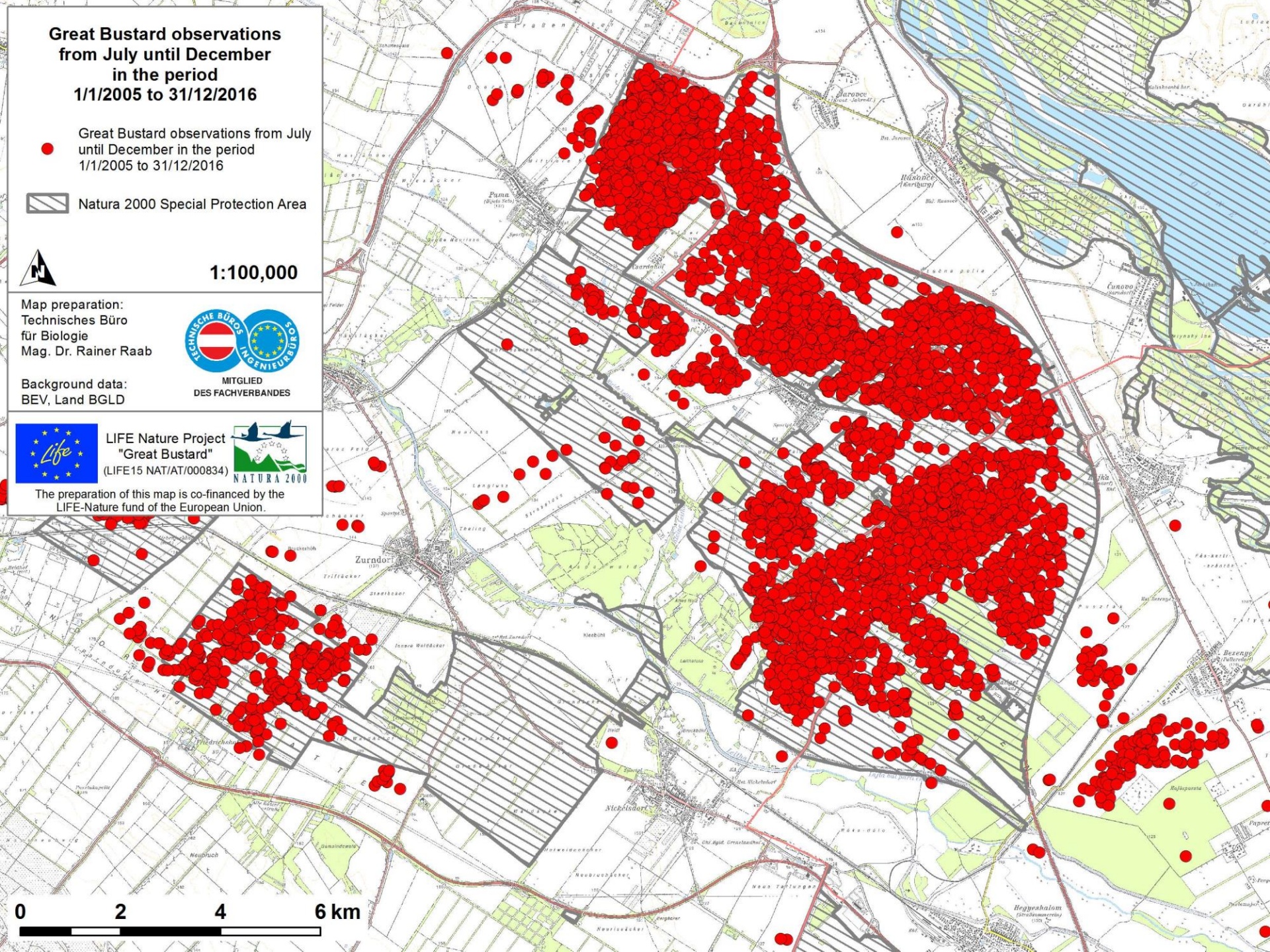
Background data:
BEV, Land BGLD



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Great Bustard observations in the period 1/7/2016 to 31/12/2016

● Great Bustard observations
in the period 1/7/2016 to 31/12/2016

▨ Natura 2000 Special Protection Area



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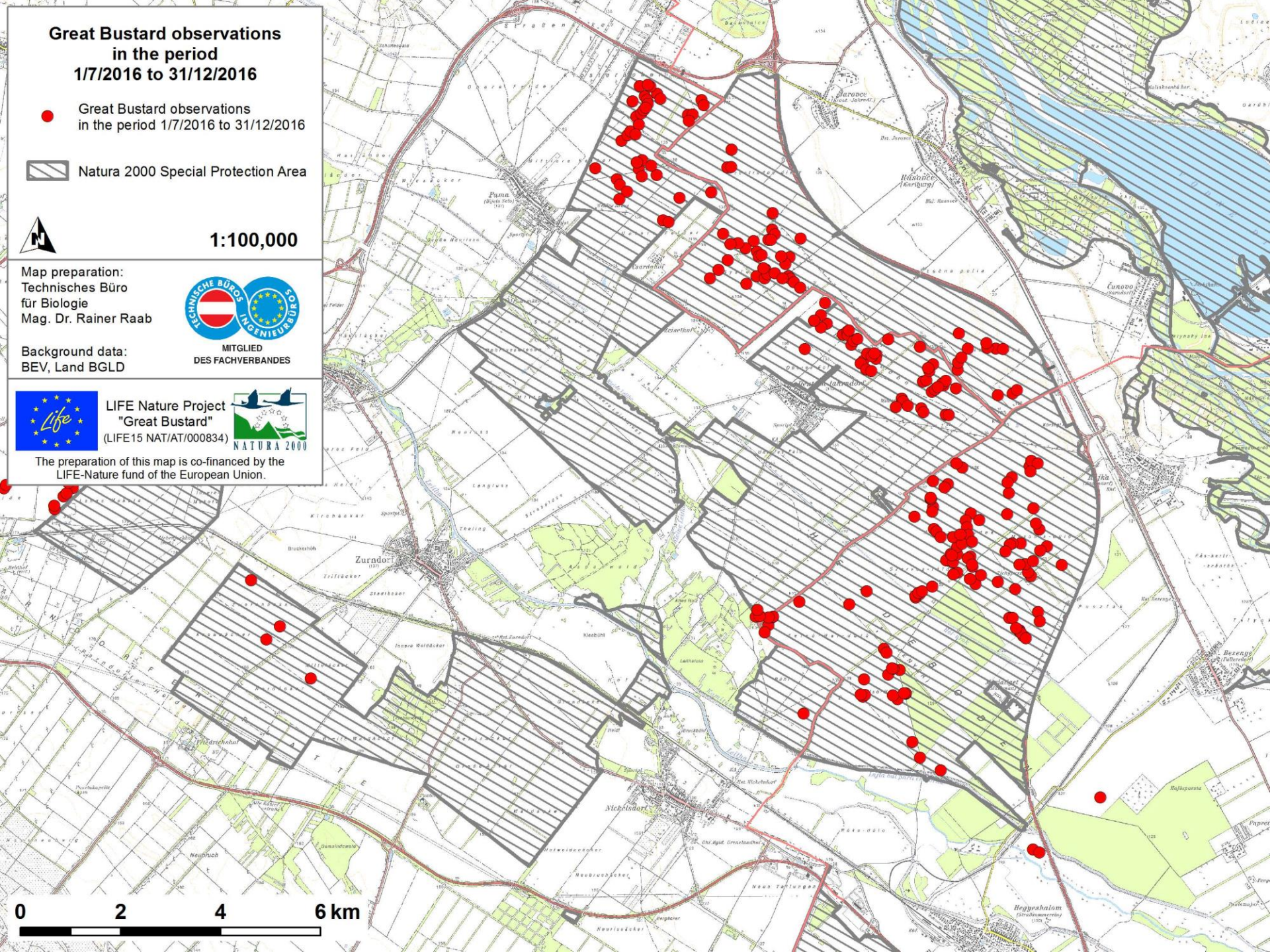
Background data:
BEV, Land BGLD



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White-tailed eagle observations in the period

1/1/2005 to 31/12/2016

● White-tailed eagle observations in the period 1/1/2005 to 31/12/2016

● White-tailed eagle telemetry data in the period 1/1/2016 to 31/12/2016

▨ Natura 2000 Special Protection Area



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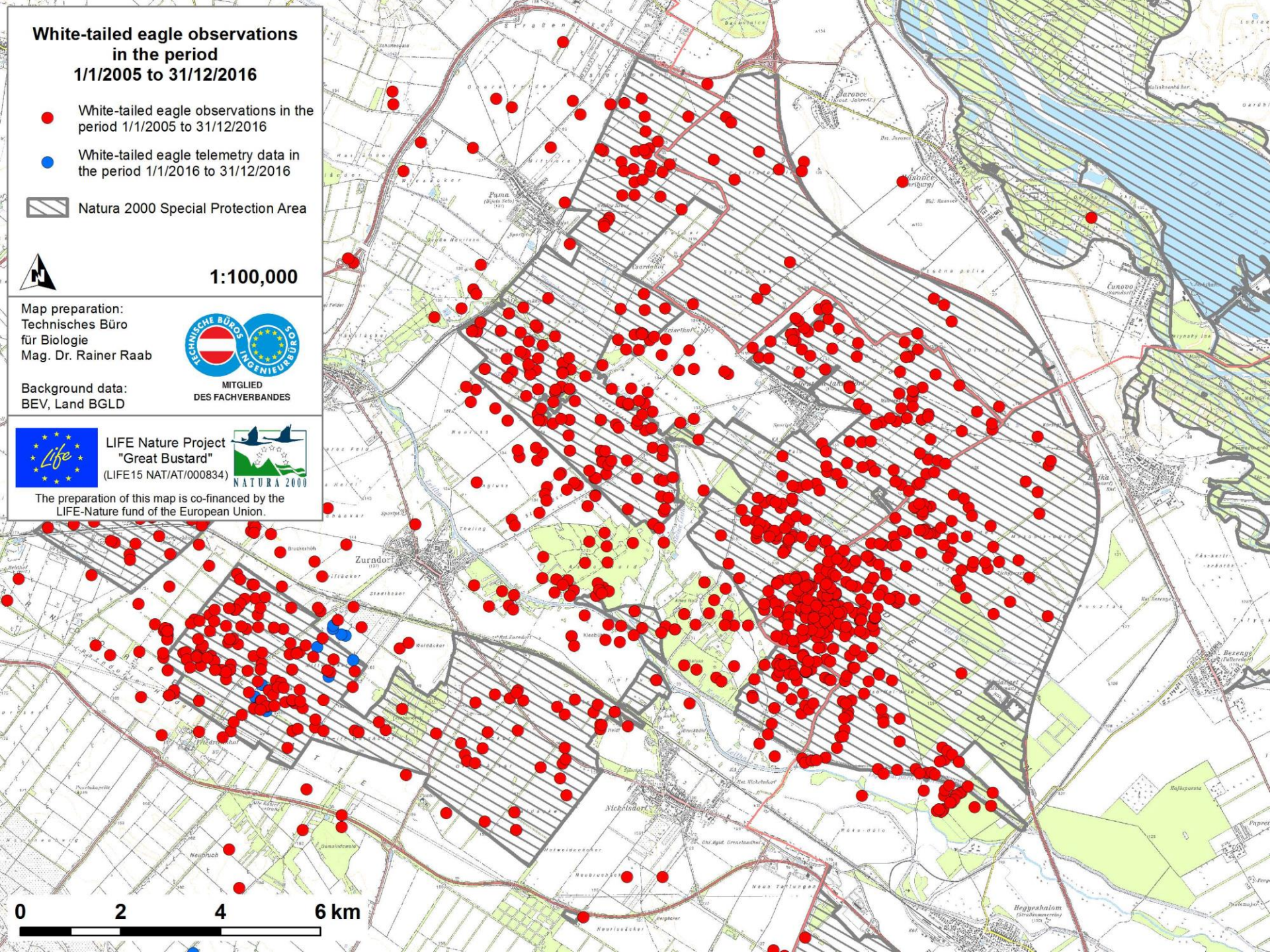
Background data:
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White-tailed eagle observations from July until December in the period 1/1/2005 to 31/12/2016

● White-tailed eagle observations
from July until December in the period
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● White-tailed eagle telemetry data
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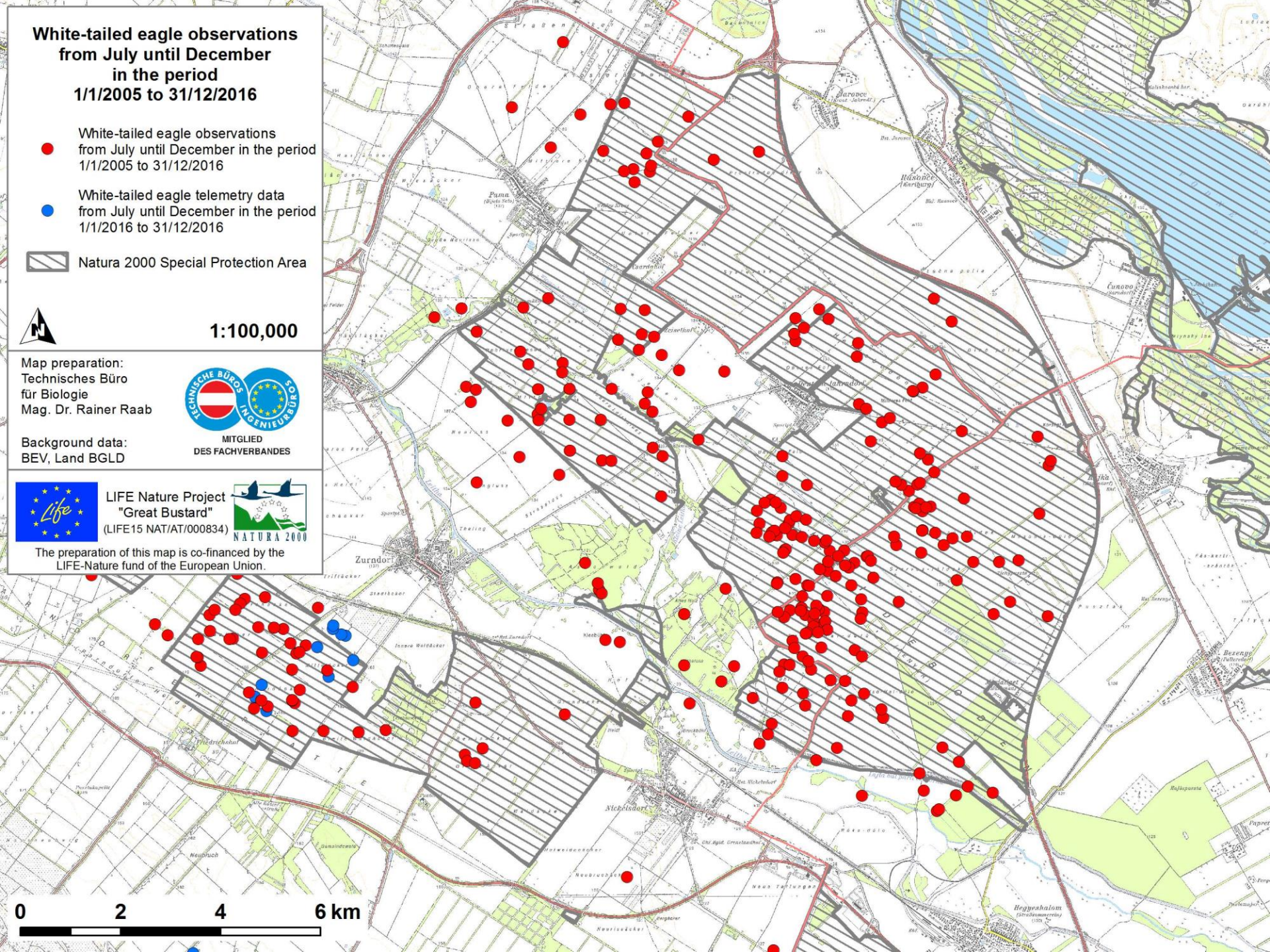
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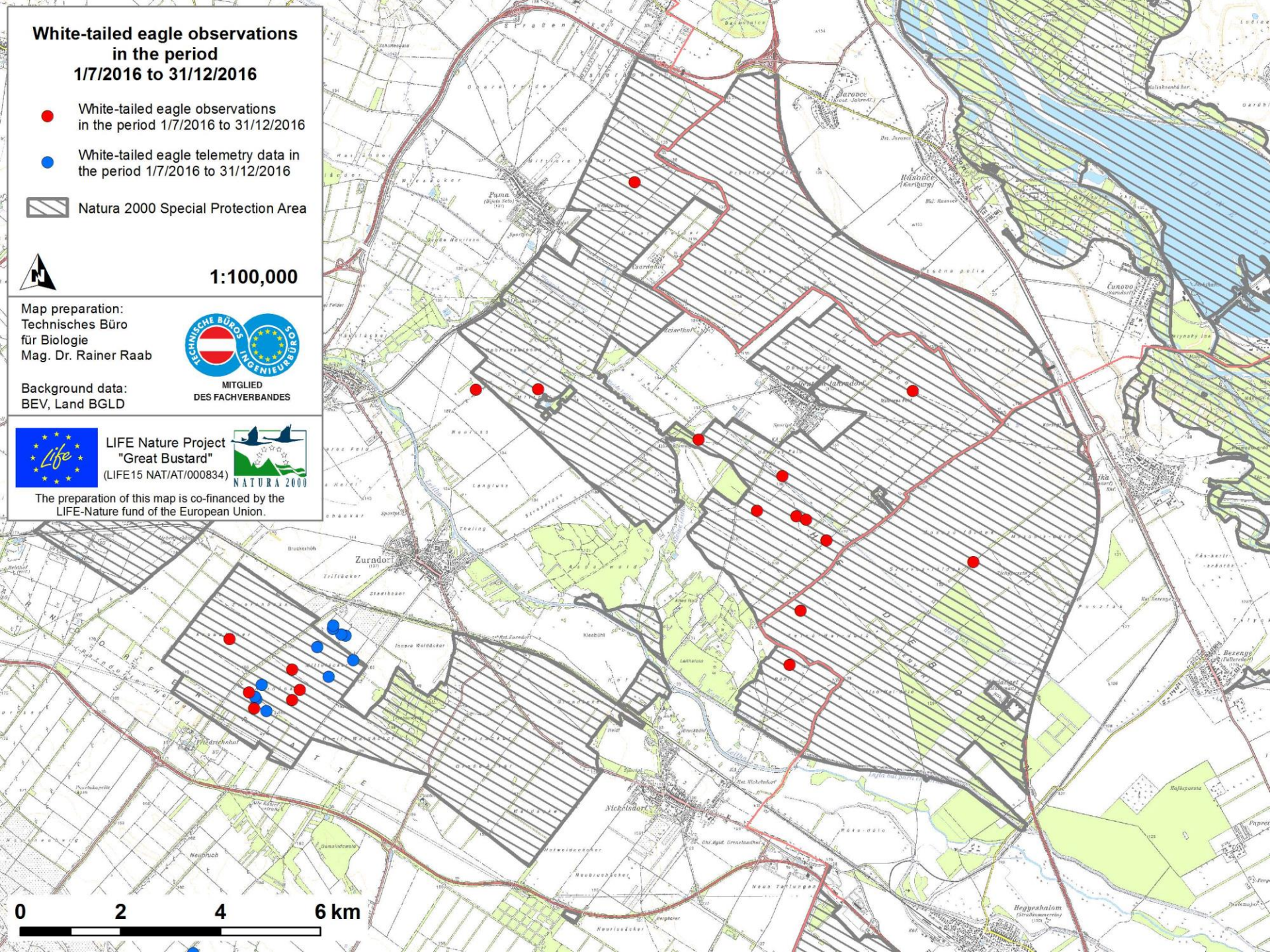
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Imperial eagle observations in the period

1/1/2005 to 31/12/2016

● Imperial eagle observations in the period 1/1/2005 to 31/12/2016

● Imperial eagle telemetry data in the period 1/1/2016 to 31/12/2016

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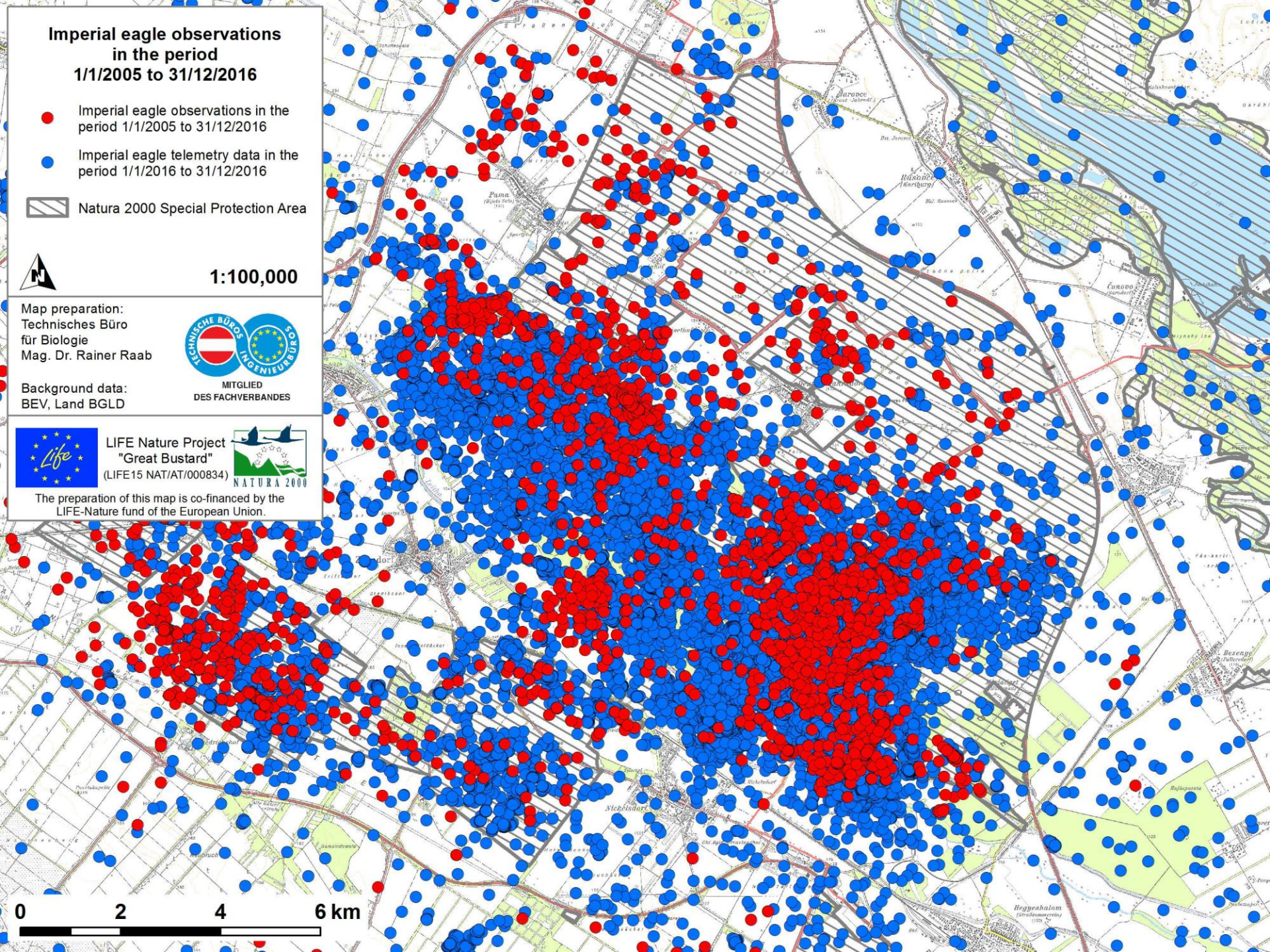
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from July until December
in the period
1/1/2005 to 31/12/2016**

● Imperial eagle observations
from July until December in the period
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● Imperial eagle telemetry data
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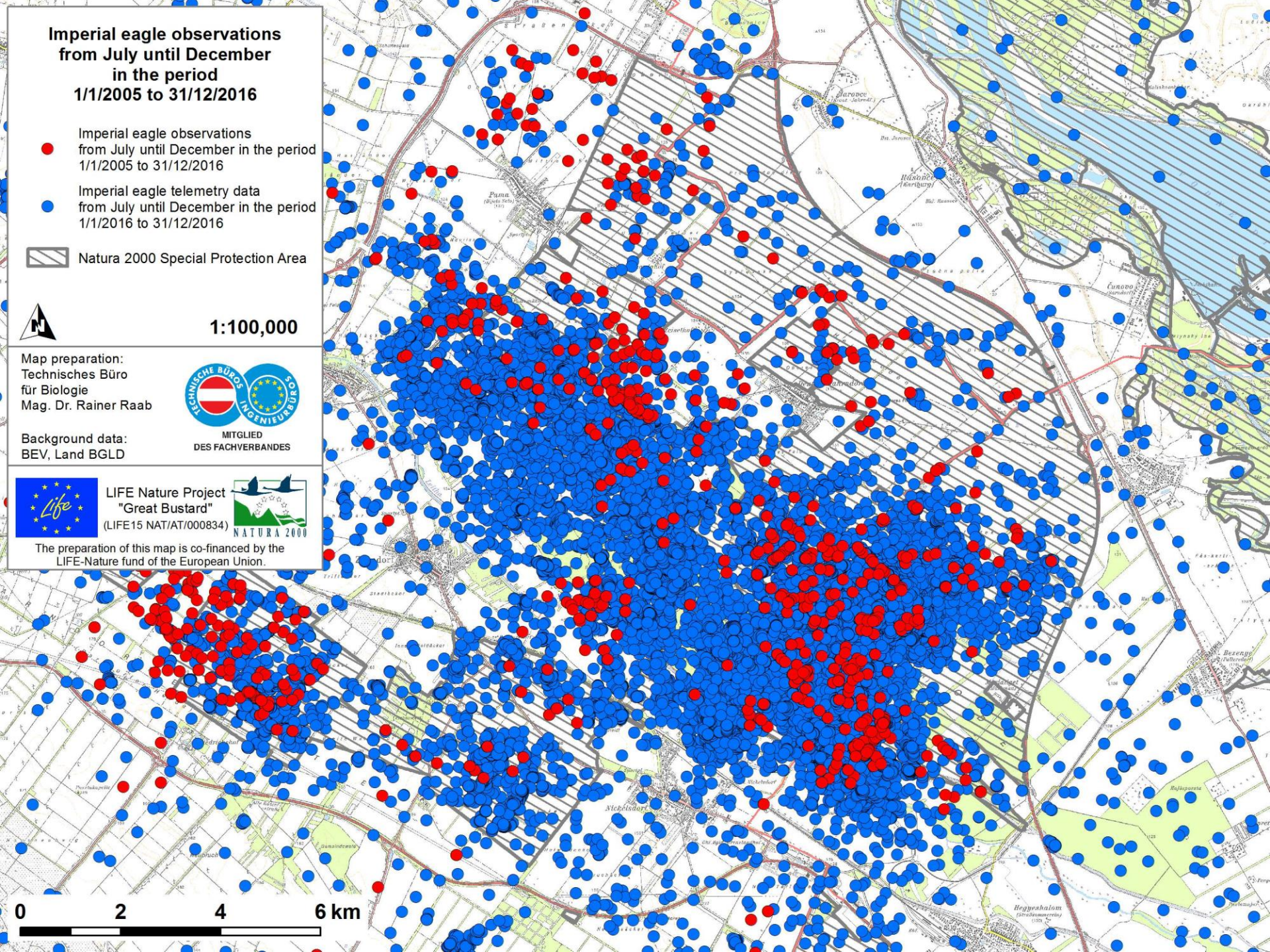
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Imperial eagle observations in the period

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 Natura 2000 Special Protection Area



1:100,000

Map preparation:
Technisches Büro
für Biologie
Mag. Dr. Rainer Raab



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DES FACHVERBANDES

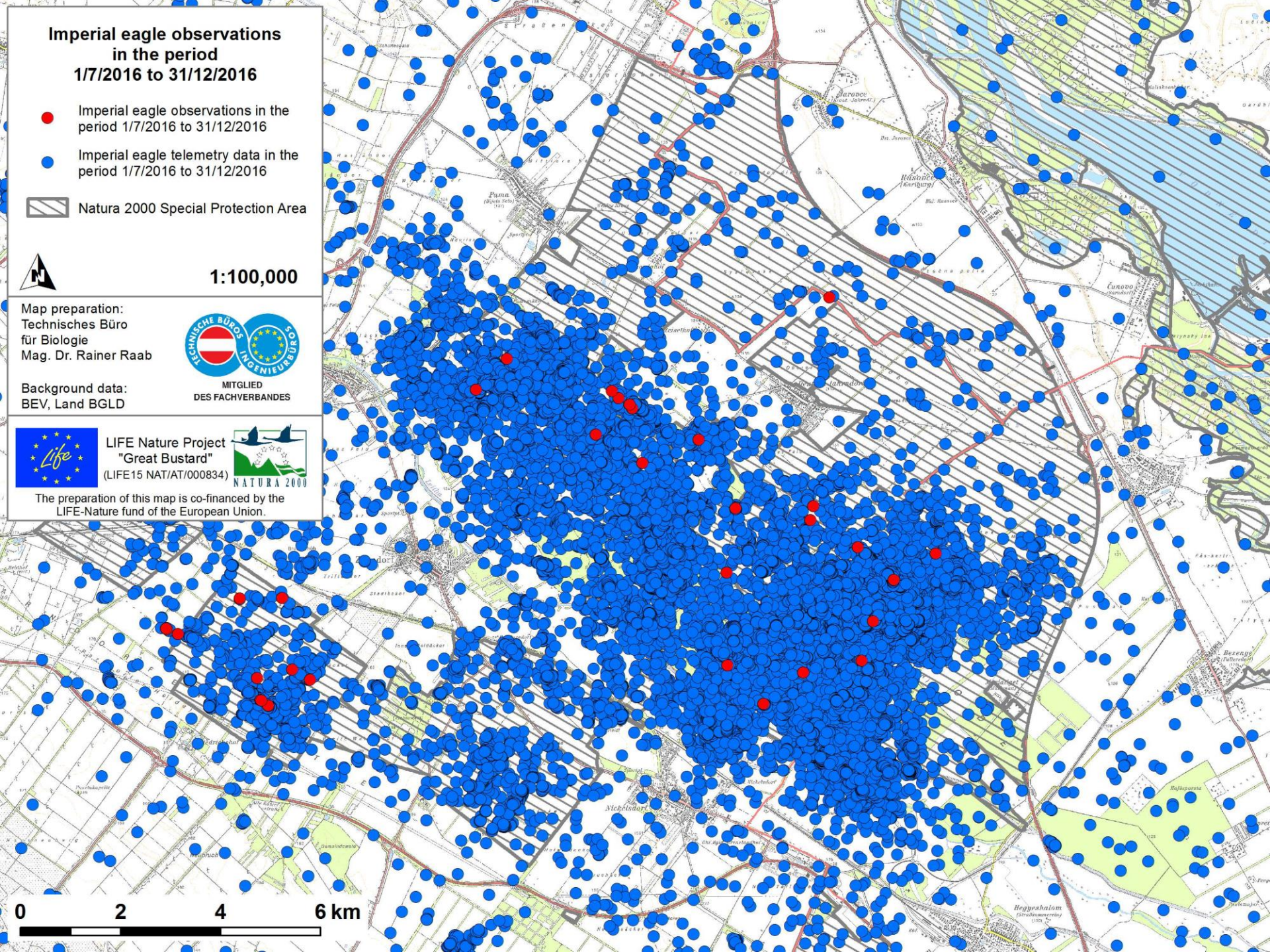
Background data:
BEV, Land BGLD



LIFE Nature Project
"Great Bustard"
(LIFE15 NAT/AT/000834)




The preparation of this map is co-financed by the
LIFE-Nature fund of the European Union.



Great Bustard and Imperial Eagle observations in the year 2007

 Great Bustard breeding place 2007

 Great Bustard observations in the period 1/1/2007 to 31/12/2007

 Imperial Eagle observations in the period 1/1/2007 to 31/12/2007

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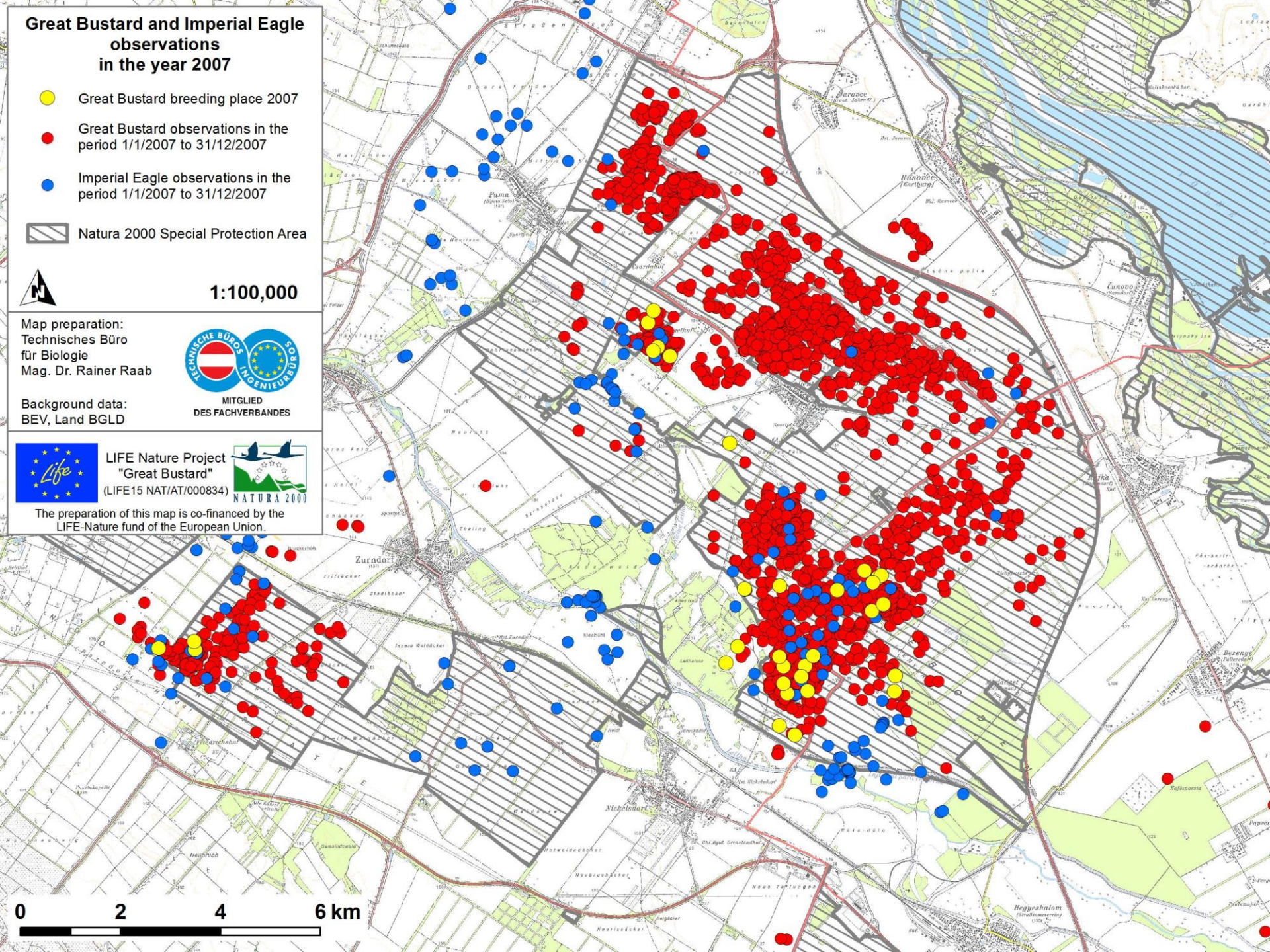
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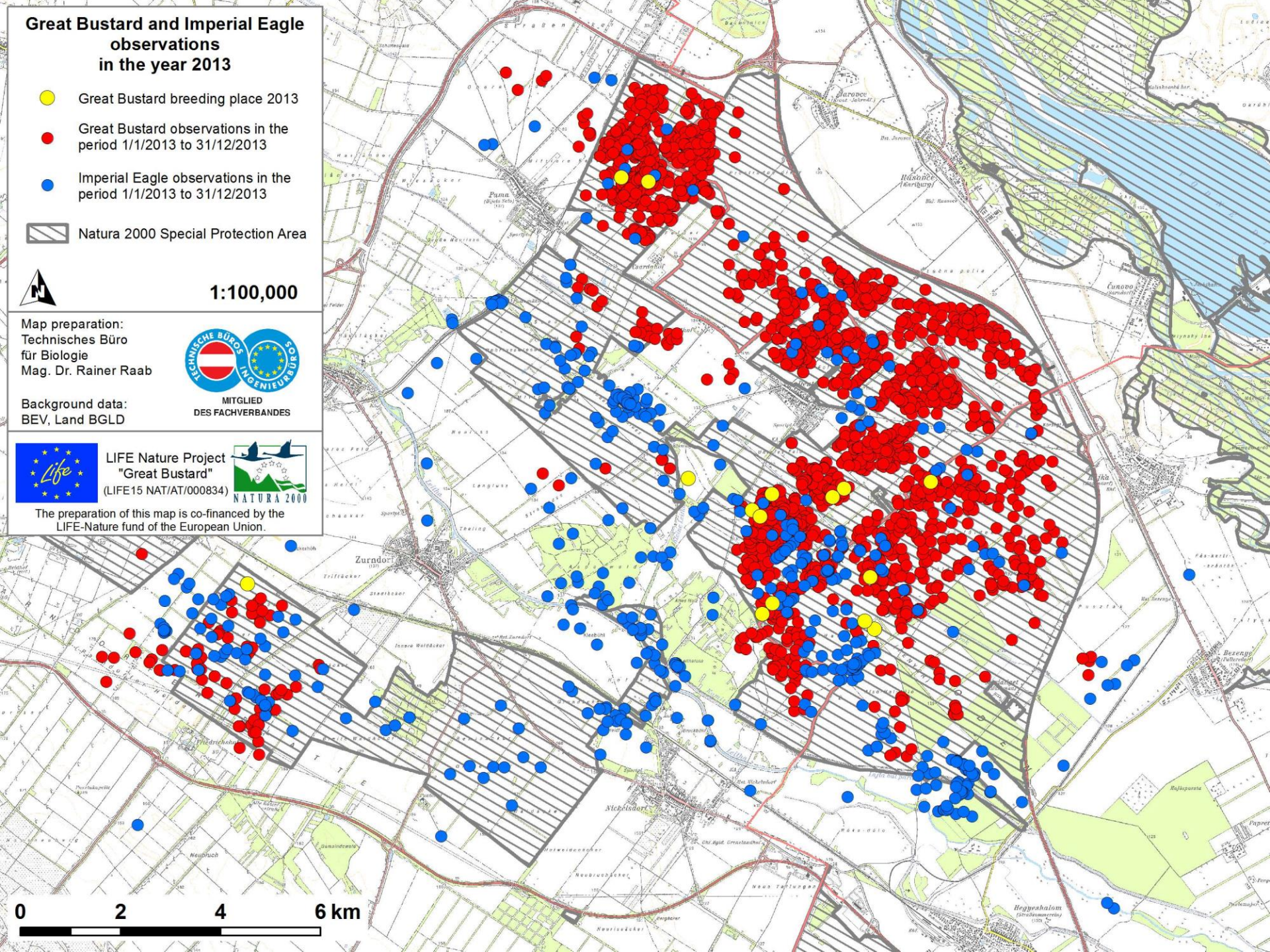
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Great Bustard observations and Imperial Eagle telemetry data in the period 1/7/2016 to 31/12/2016

● Great Bustard observations in the period 1/7/2016 to 31/12/2016

● Imperial Eagle observations in the period 1/7/2016 to 31/12/2016

● Imperial Eagle telemetry data in the period 1/7/2016 to 31/12/2016

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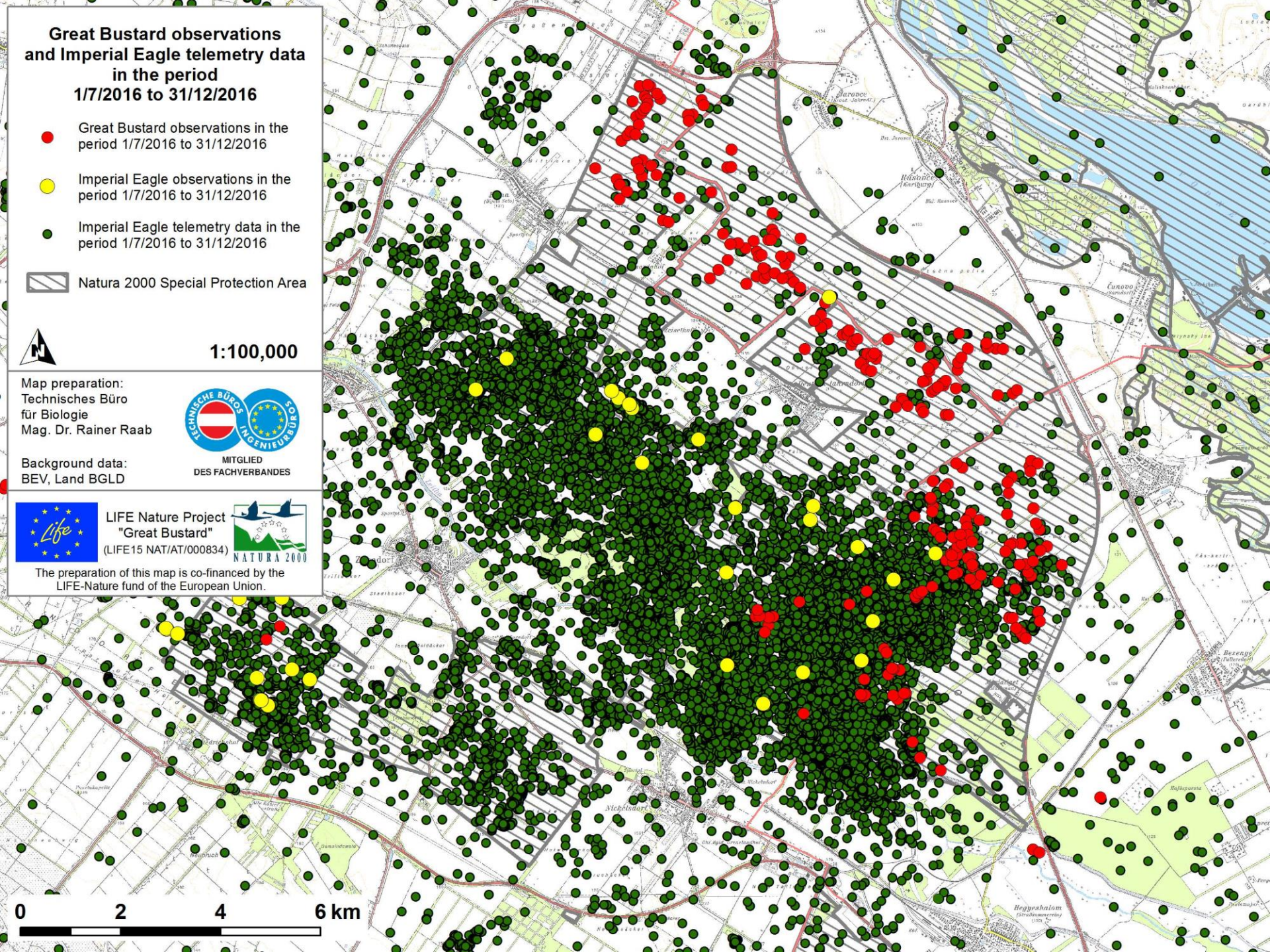
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Preliminary results from an
project area on the border AT/HU



Great Bustard observations in the period 1/1/2005 to 31/12/2016

● Great Bustard observations in the period 1/1/2005 to 31/12/2016

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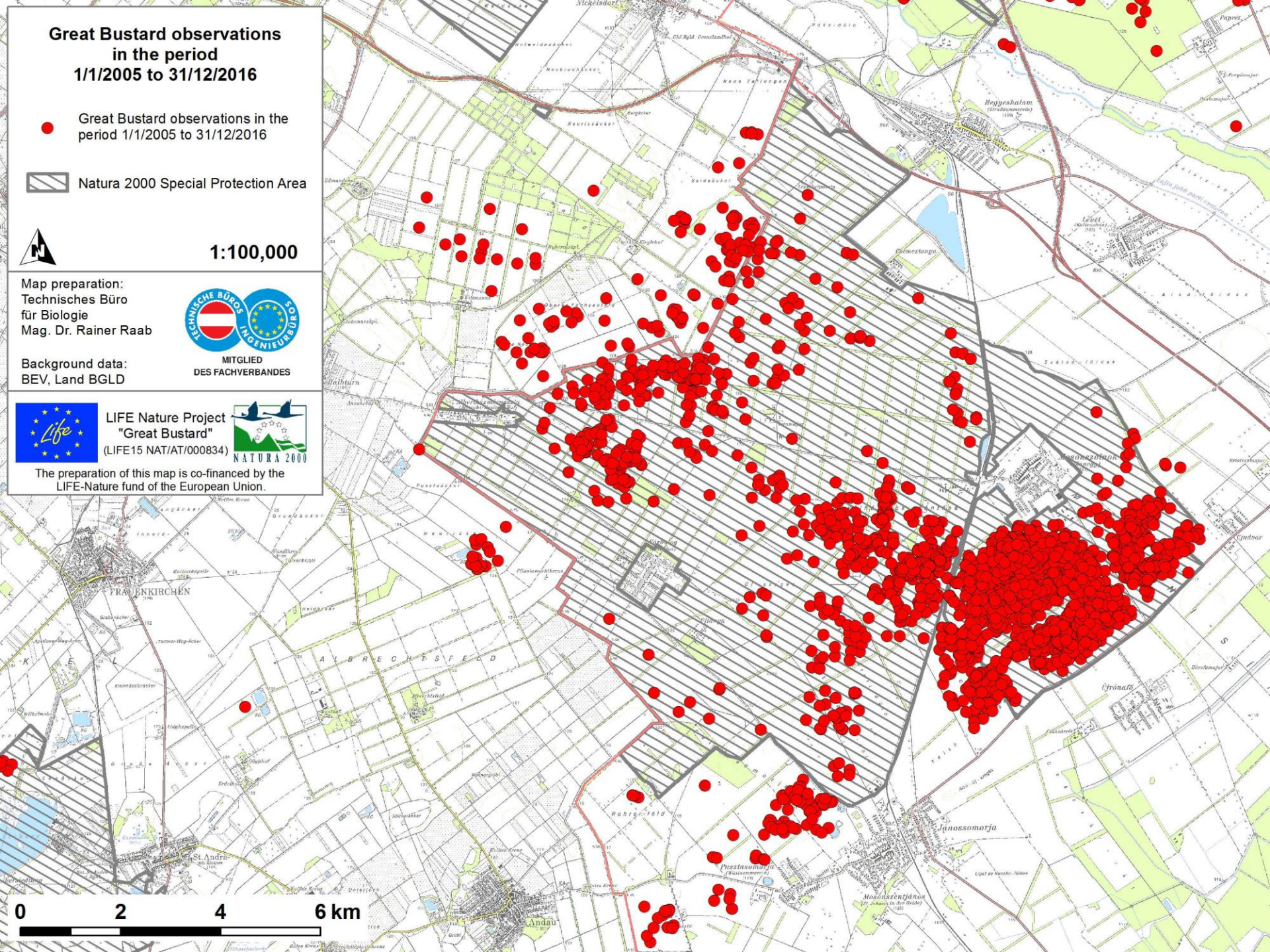
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BEV, Land BGLD



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**Great Bustard observations
from July until December
in the period
1/1/2005 to 31/12/2016**

● Great Bustard observations from July
until December in the period
1/1/2005 to 31/12/2016

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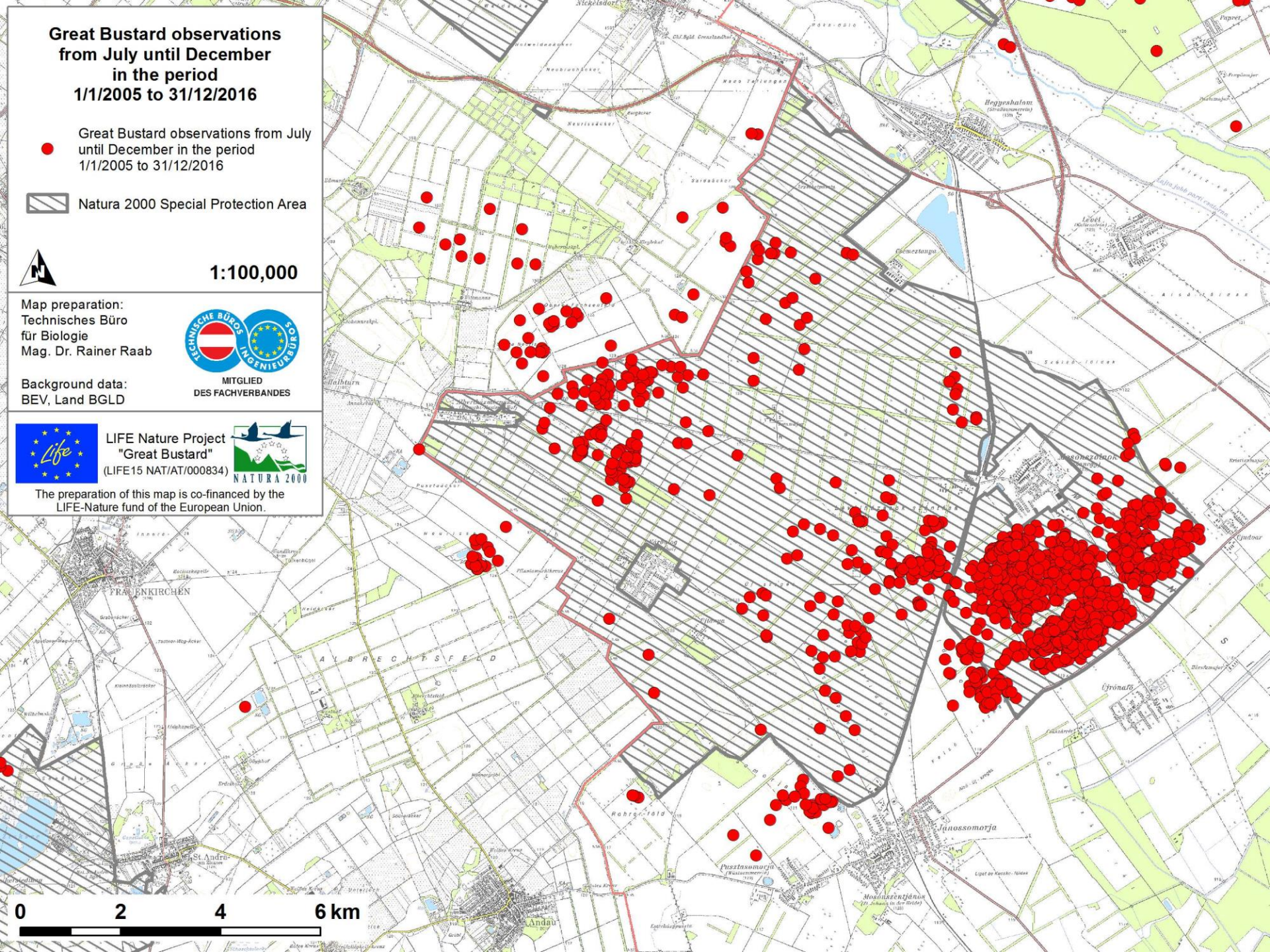
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BEV, Land BGL



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Great Bustard observations in the period 1/7/2016 to 31/12/2016

● Great Bustard observations
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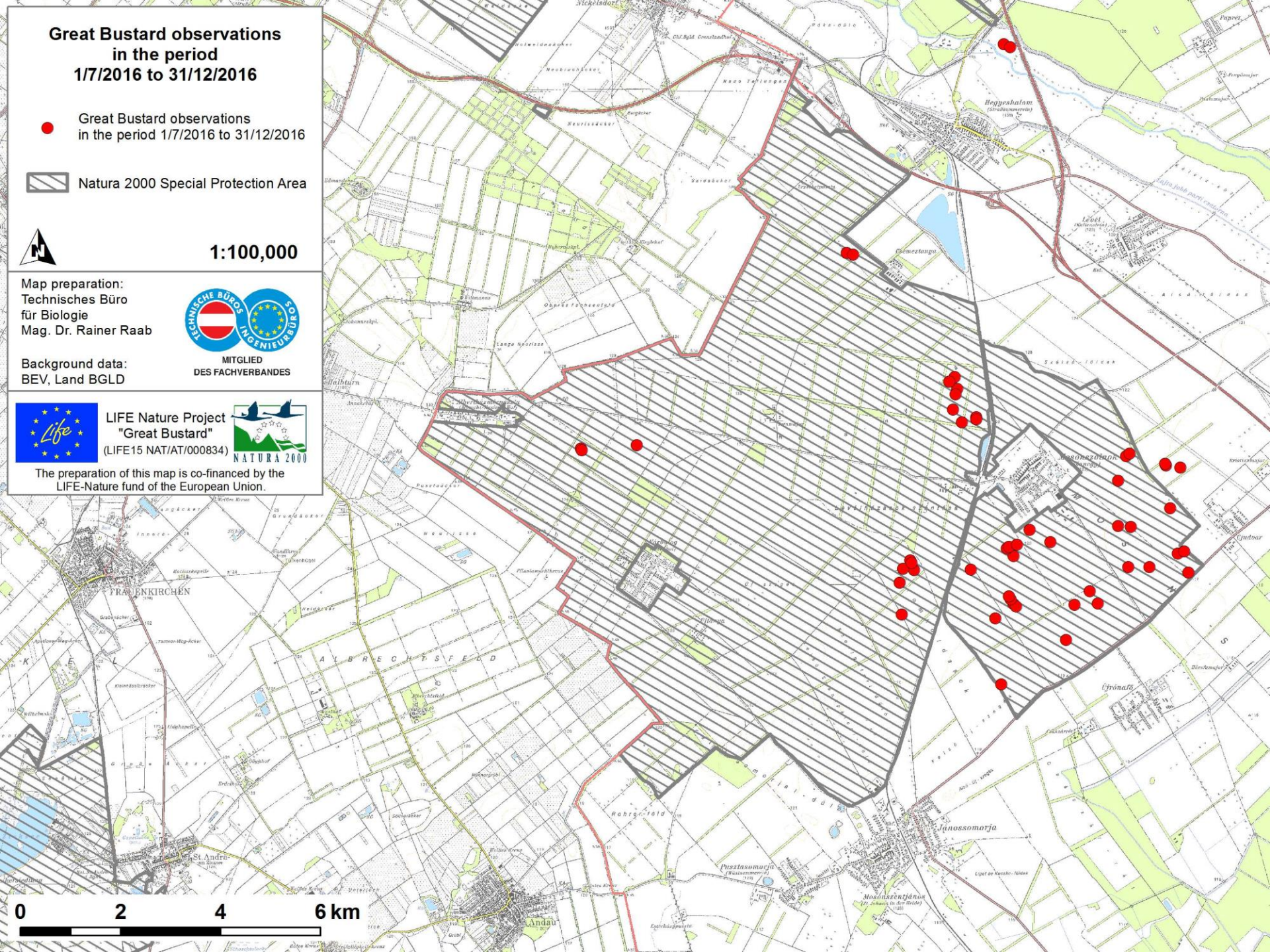
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White-tailed eagle observations in the period

1/1/2005 to 31/12/2016

● White-tailed eagle observations in the period 1/1/2005 to 31/12/2016

● White-tailed eagle telemetry data in the period 1/1/2016 to 31/12/2016

 Natura 2000 Special Protection Area



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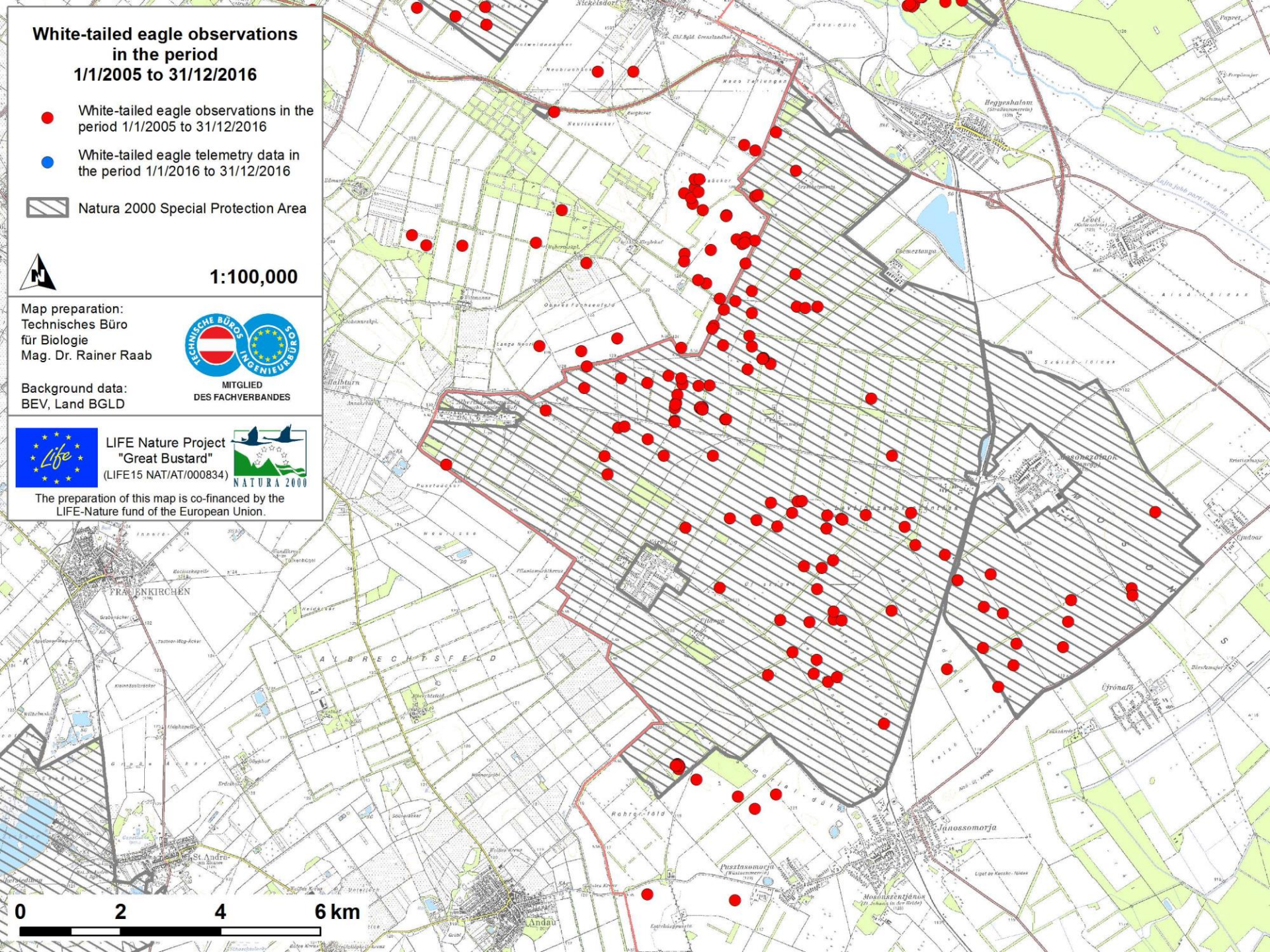
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BEV, Land BGL



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White-tailed eagle observations from July until December in the period 1/1/2005 to 31/12/2016

● White-tailed eagle observations
from July until December in the period
1/1/2005 to 31/12/2016

● White-tailed eagle telemetry data
from July until December in the period
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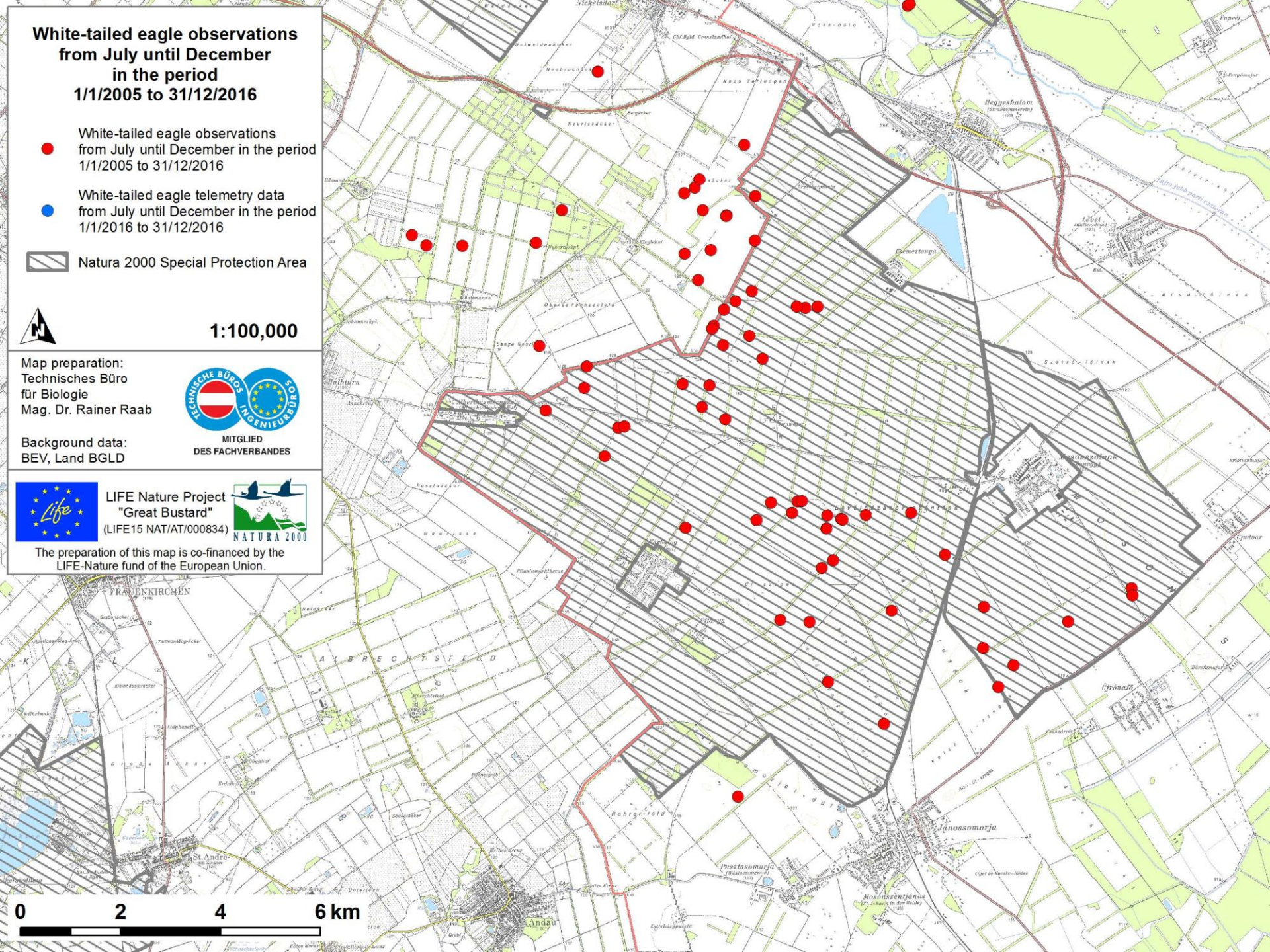
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Imperial eagle observations in the period

1/1/2005 to 31/12/2016

- Imperial eagle observations in the period 1/1/2005 to 31/12/2016
- Imperial eagle telemetry data in the period 1/1/2016 to 31/12/2016

 Natura 2000 Special Protection Area



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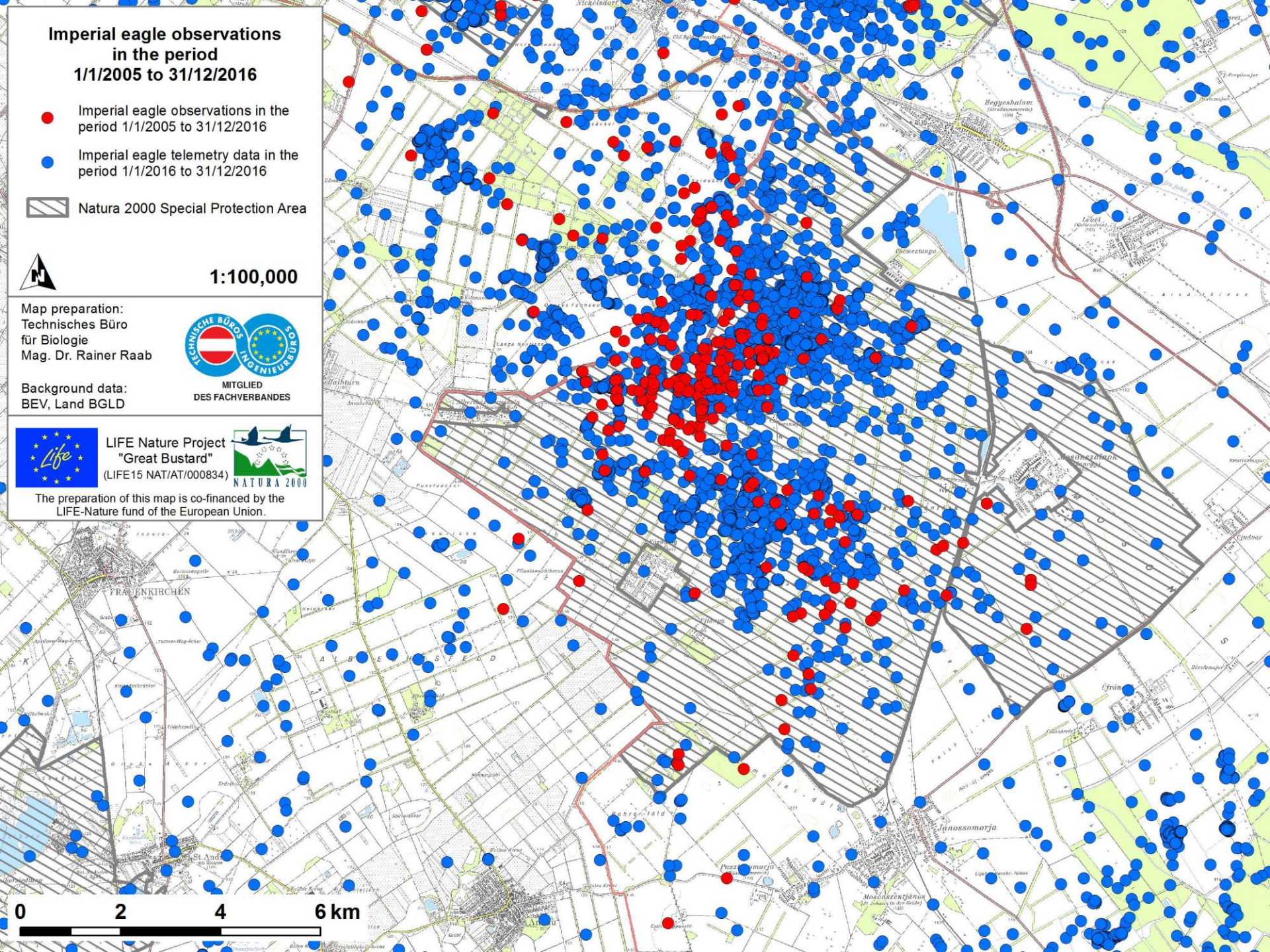
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**Imperial eagle observations
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in the period
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from July until December in the period
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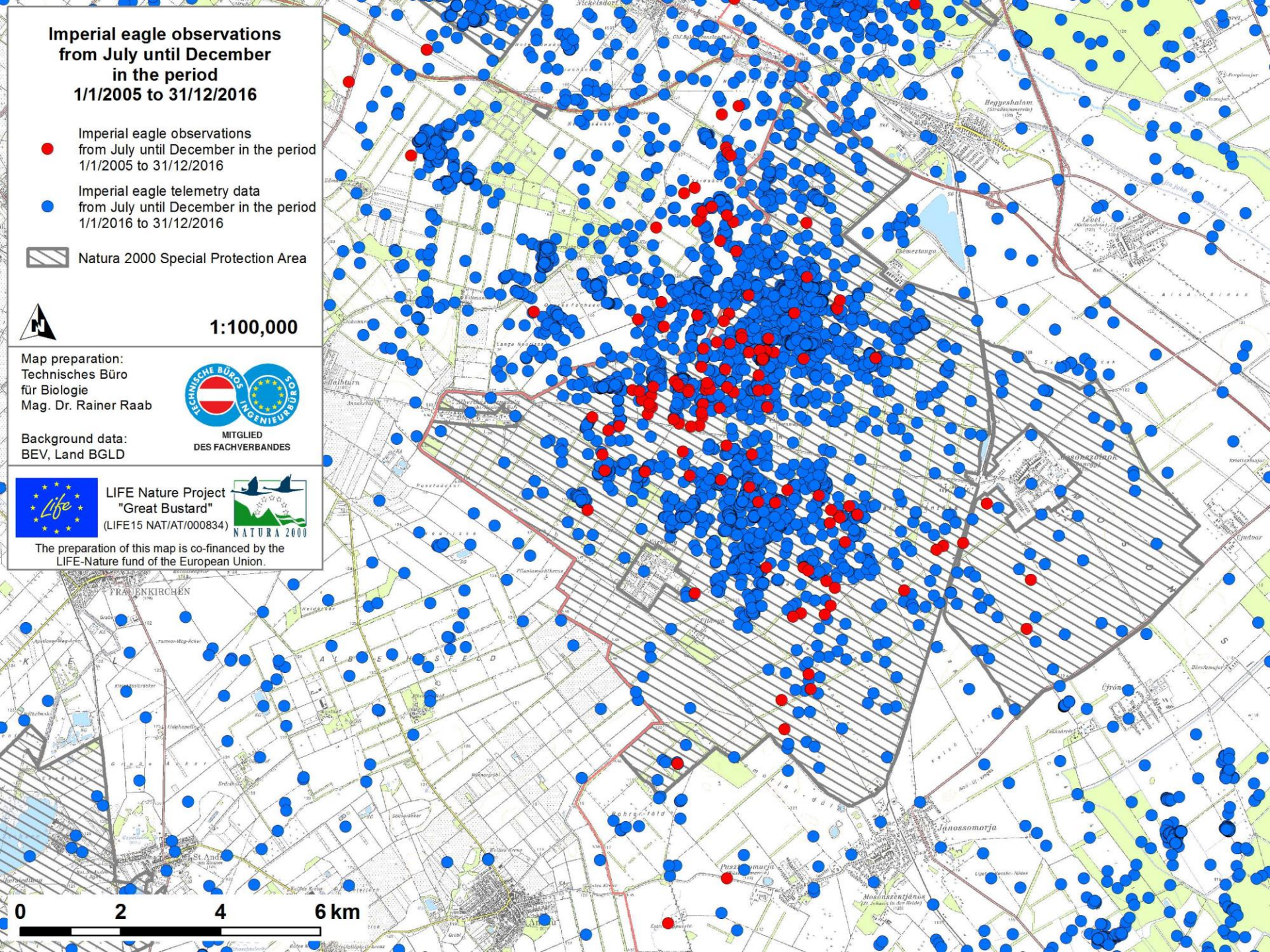
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Imperial eagle observations in the period 1/7/2016 to 31/12/2016

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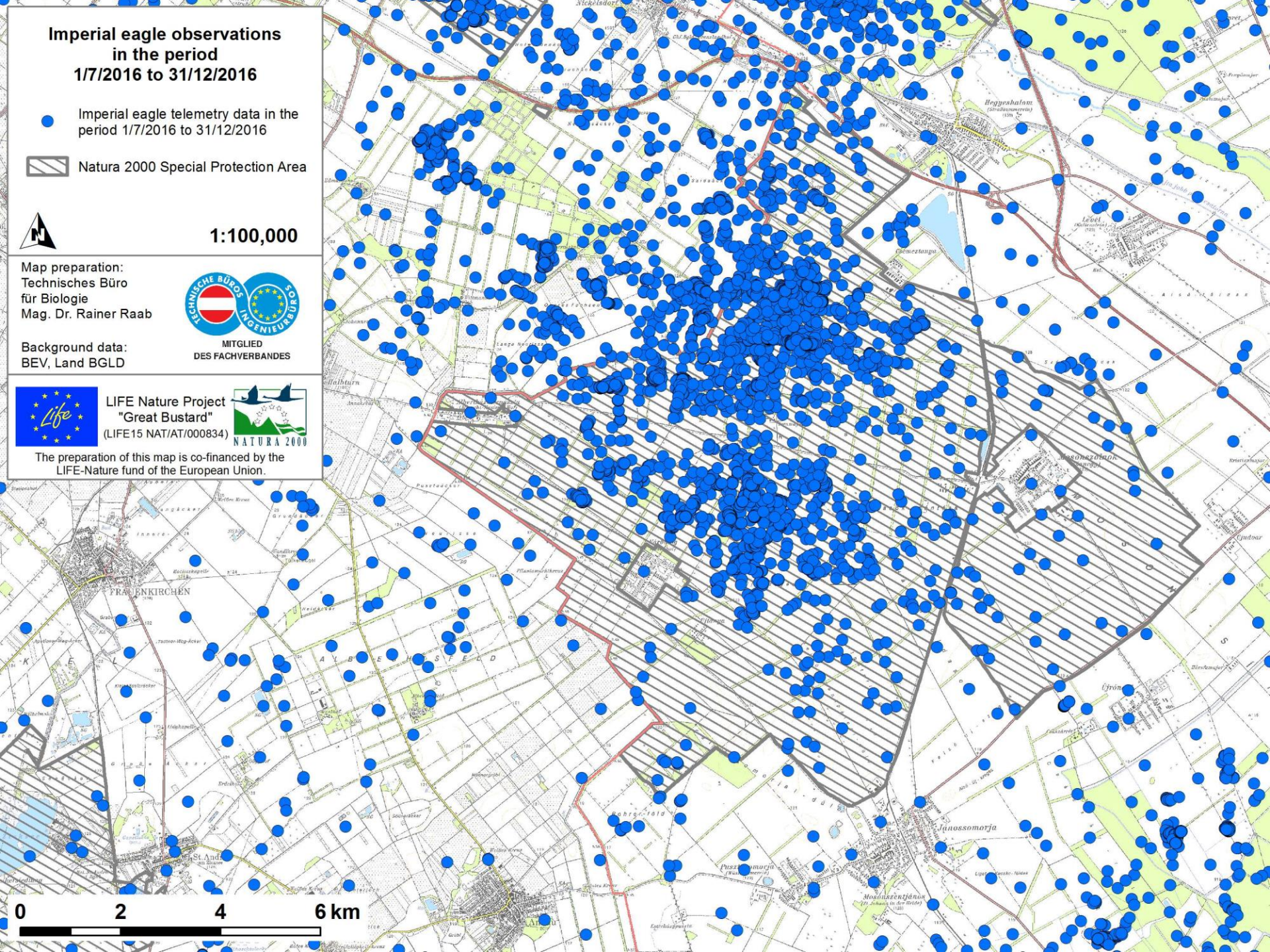
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Great Bustard and Imperial Eagle observations in the year 2007

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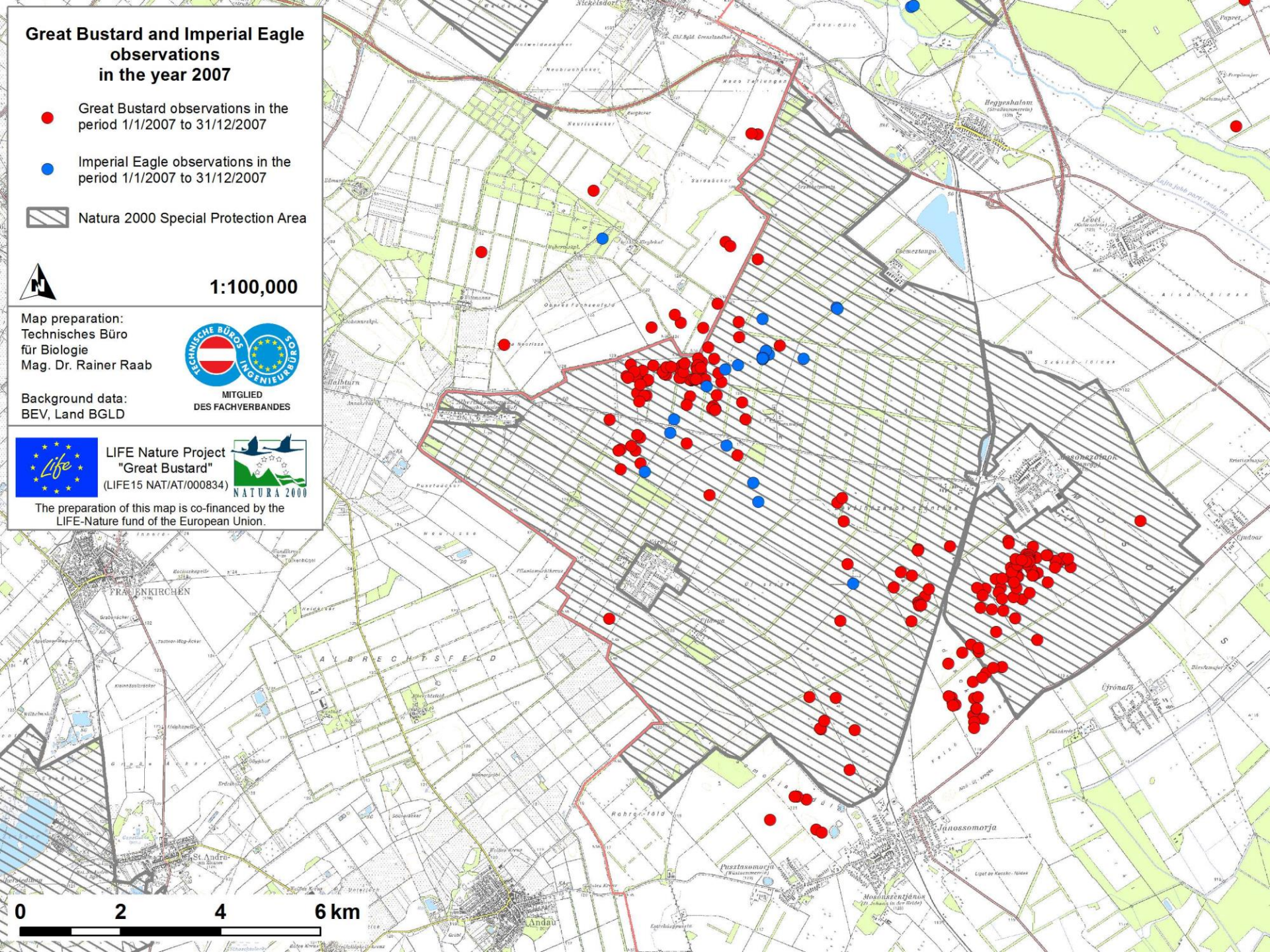
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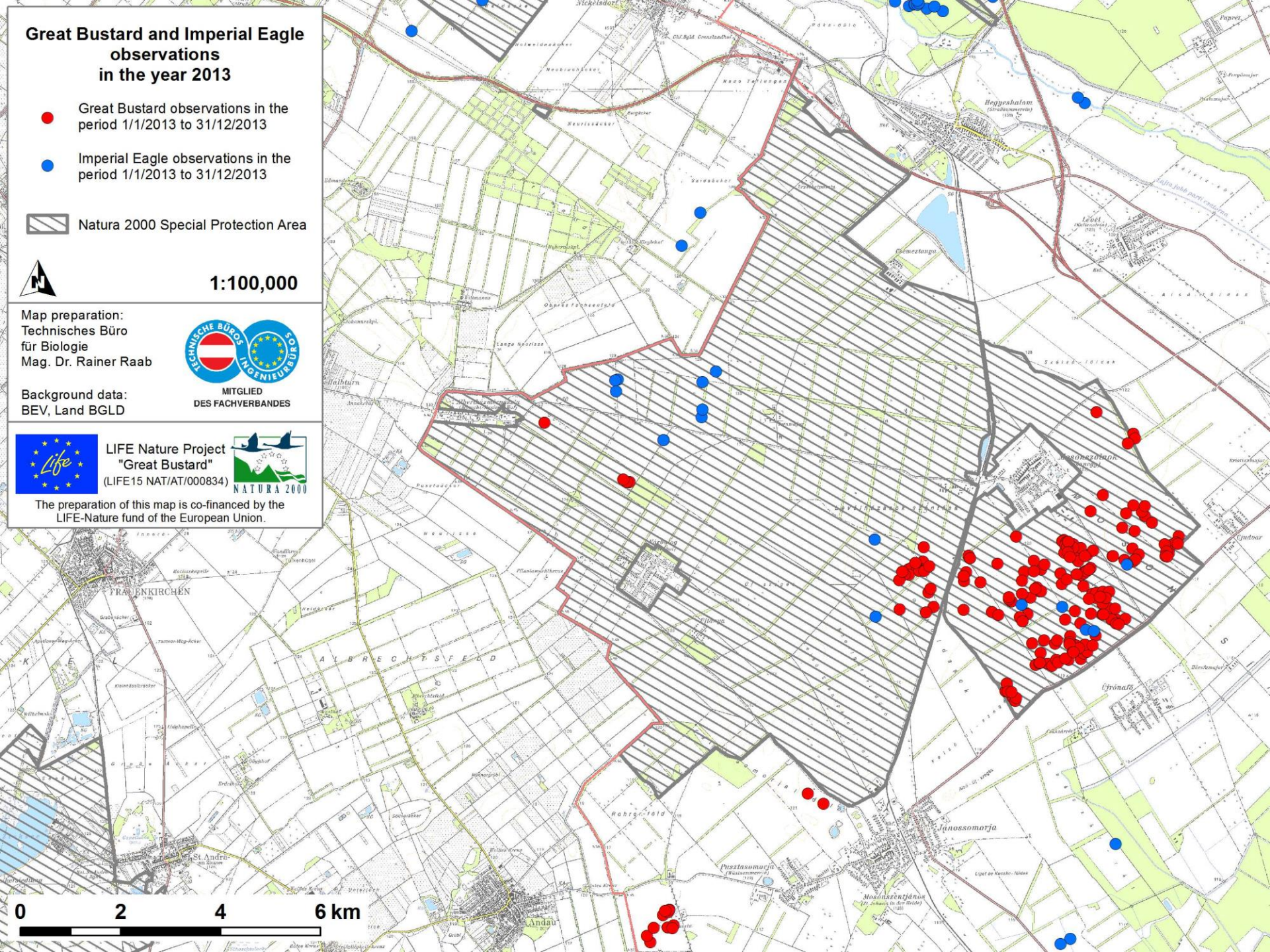
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Great Bustard observations and Imperial Eagle telemetry data in the period 1/7/2016 to 31/12/2016

● Great Bustard observations in the
period 1/7/2016 to 31/12/2016

● Imperial Eagle telemetry data in the
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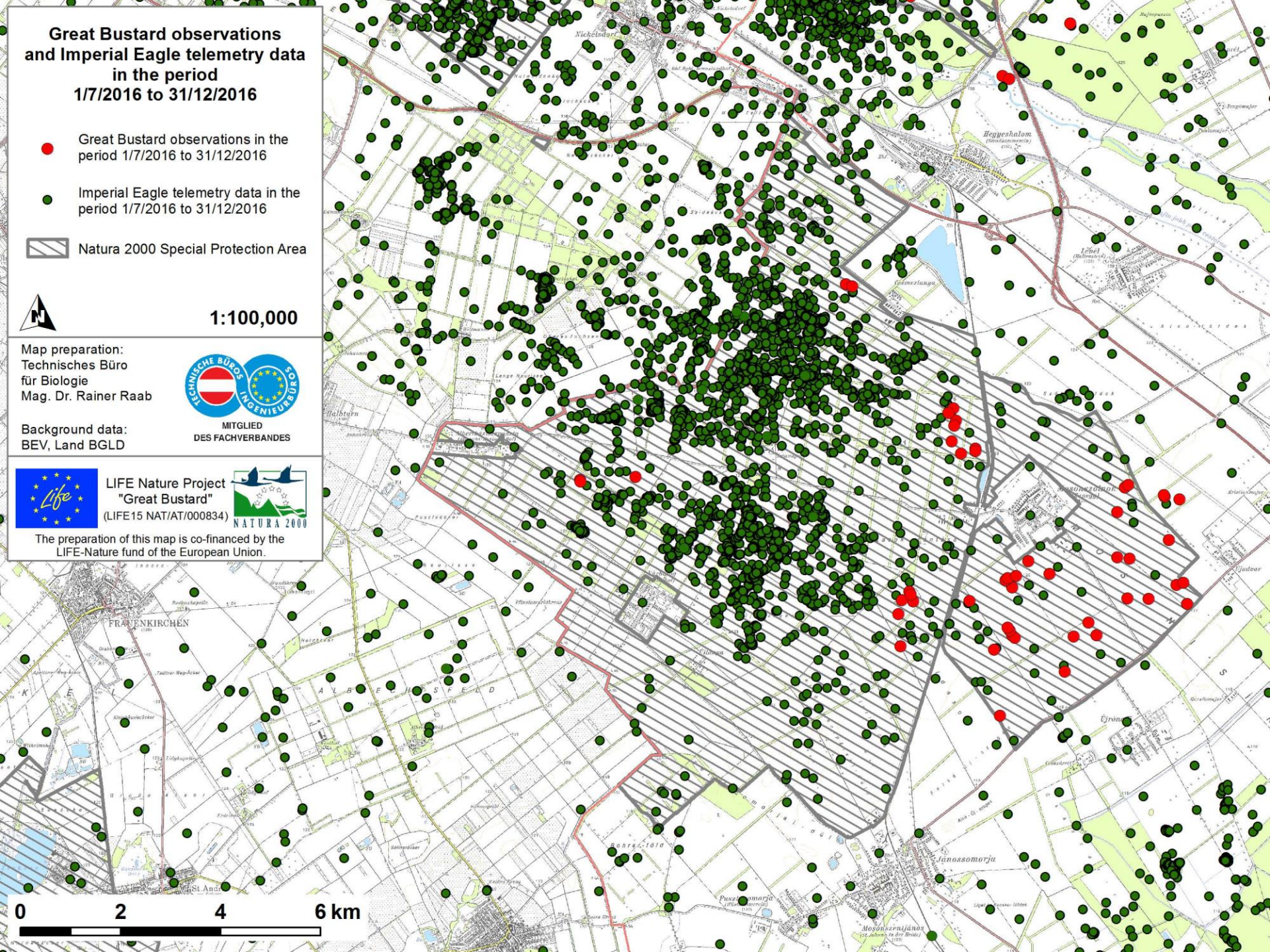
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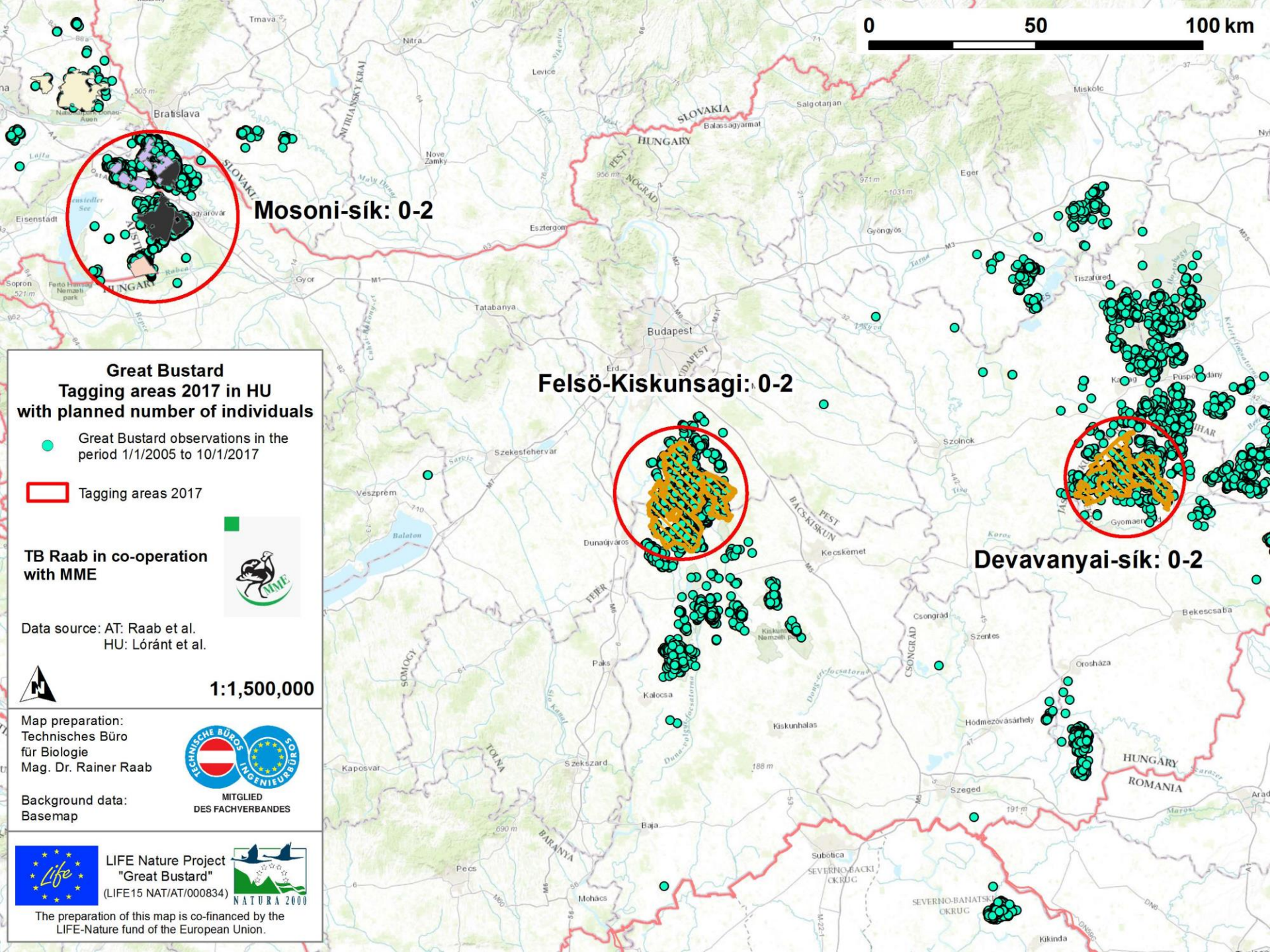
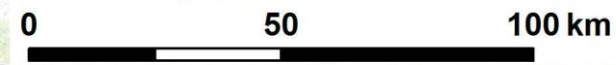
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Planned tagging of the three
species with GPS loggers in HU in
2017





Mosoni-sík: 0-2

Felső-Kiskunsági: 0-2

Devavanyai-sík: 0-2

**Great Bustard
Tagging areas 2017 in HU
with planned number of individuals**

- Great Bustard observations in the period 1/1/2005 to 10/1/2017
- Tagging areas 2017

**TB Raab in co-operation
with MME**



Data source: AT: Raab et al.
HU: Lóránt et al.



1:1,500,000

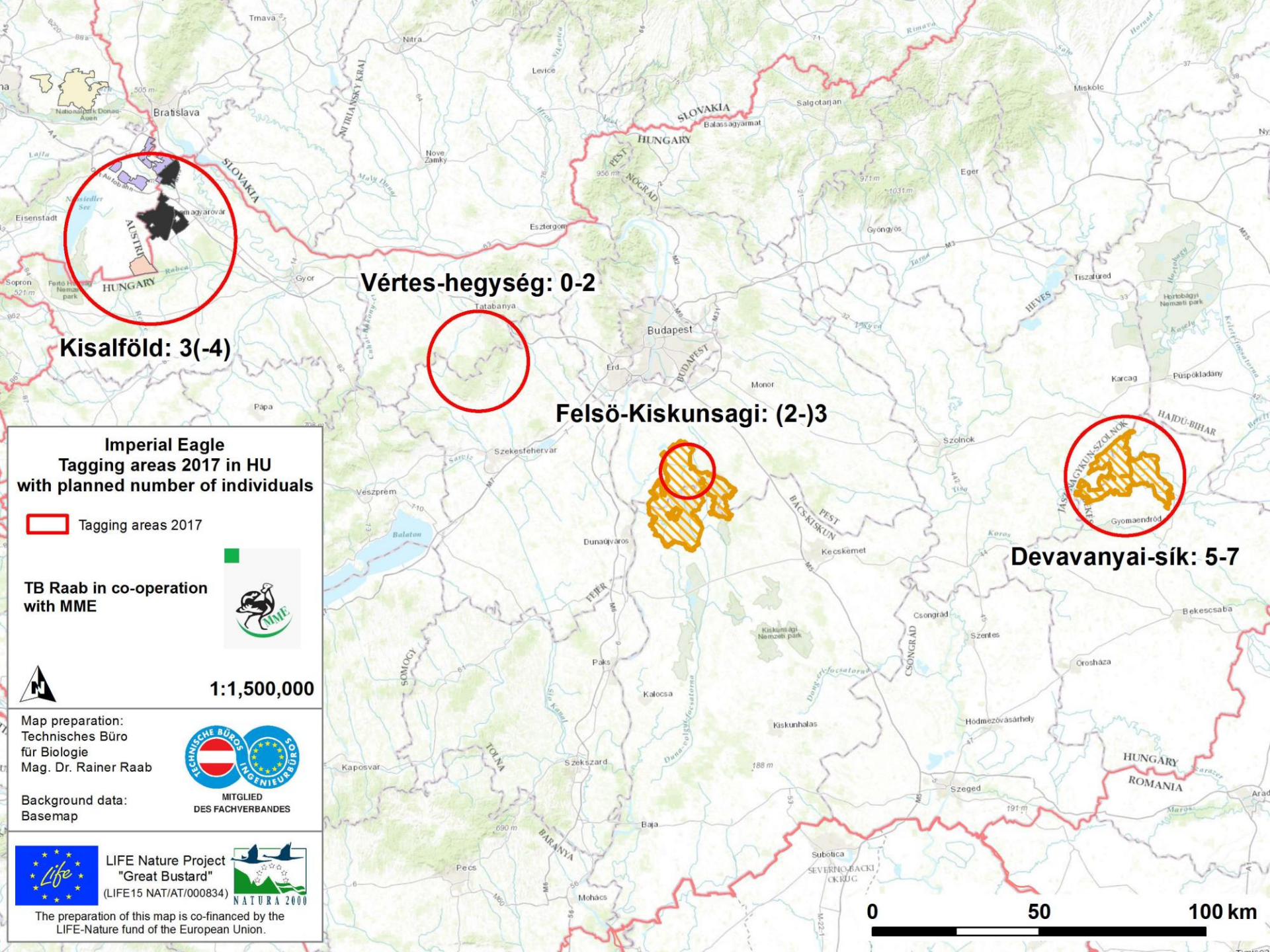
Map preparation:
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Mag. Dr. Rainer Raab



Background data:
Basemap

**LIFE Nature Project
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Kisalföld: 3(-4)

Vértes-hegység: 0-2



Felső-Kiskunsági: (2)-3



Devavanyai-sík: 5-7

**Imperial Eagle
Tagging areas 2017 in HU
with planned number of individuals**

 Tagging areas 2017

TB Raab in co-operation
with MME

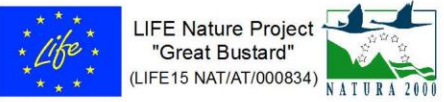


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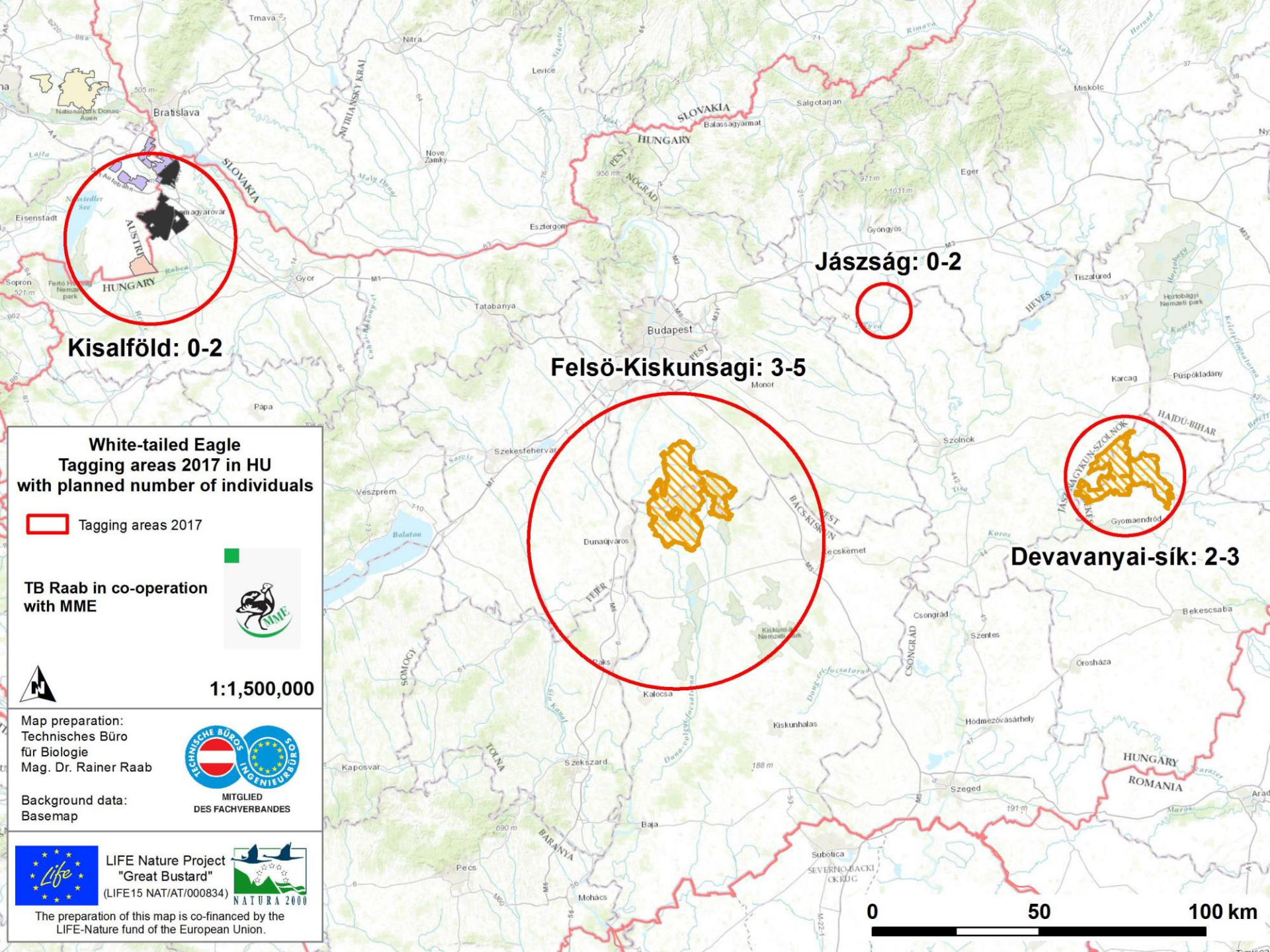


Background data:
Basemap



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**White-tailed Eagle
Tagging areas 2017 in HU
with planned number of individuals**

 Tagging areas 2017

TB Raab in co-operation
with MME



1:1,500,000

Map preparation:
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Background data:
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Thank you for your attention!



The LIFE Project "Great Bustard"

LIFE15 NAT/AT/000834 is

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project partners and co-financiers:



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