

Great Bustard MoU Meeting Bad Belzig, 14 March 2018

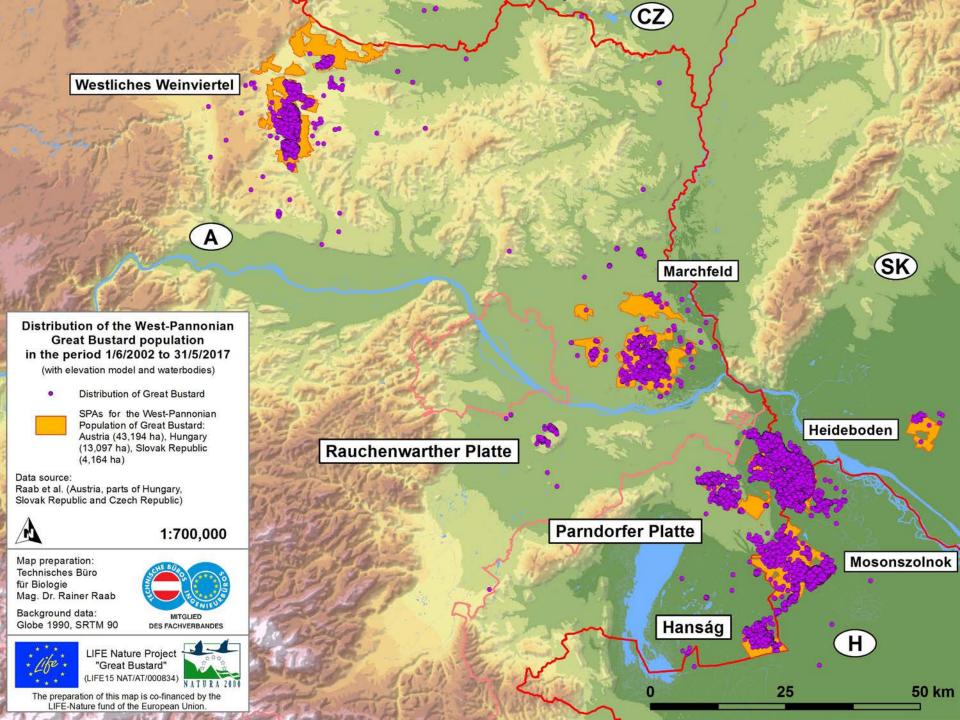




Report at MOS4 according to Agenda Item 4.2:
The Great Bustard in Austria



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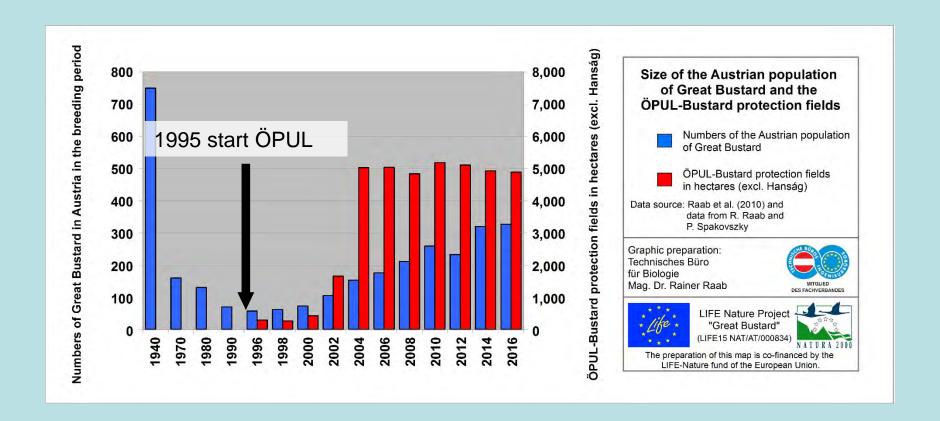
The Austrian Great Bustard population declined from a total of 700-800 individuals around the middle of the 20th century to a low of about 60 individuals at the end of the century. By the breeding season of 2017 it had increased again to a population size of 368 to 481 individuals.

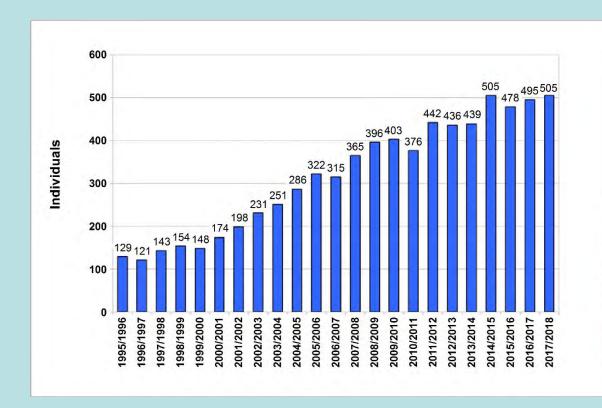
2017: 368-481 individuals
No. of adult males: 103-156
No. of females: 265-325
2008: 205-216 individuals
Increased by 100 % over the
last 10 years



Numbers of the Austrian population of Great Bustard from 1940 to 2016 and the ÖPUL-Bustard protection fields







Numbers of the West-Pannonian population of Great Bustard in winter

in the period 1995/1996 to 2017/2018

Numbers of the West-Pannonian population of Great Bustard in winter

Data source: Raab et al. (2010) and data from R. Raab and P. Spakovszky

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



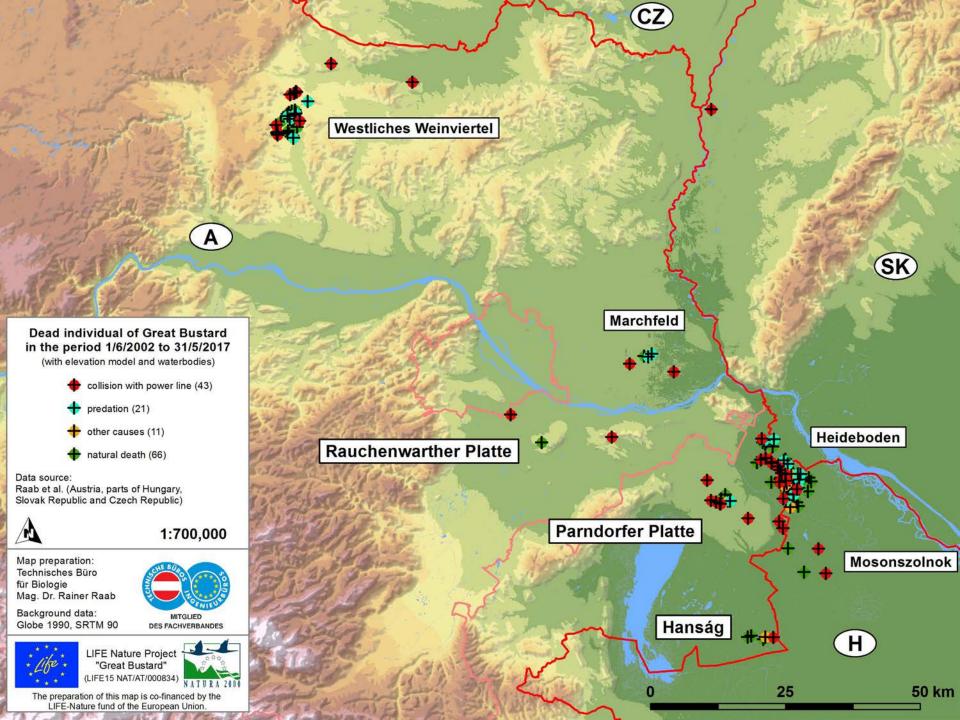


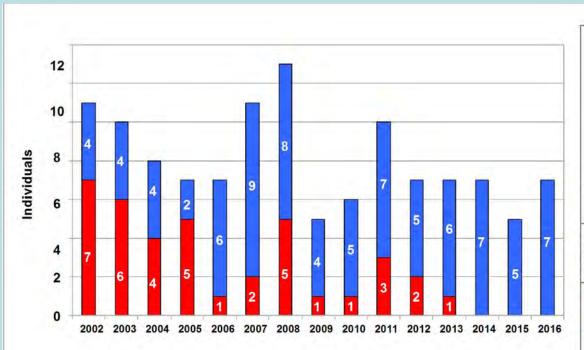
LIFE Nature Project "Great Bustard" (LIFE15 NAT/AT/000834)



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

 For many years collisions of flying Great Bustards with power lines were the most serious threats to the Great Bustard population in Austria. In the period from June 2002 to December 2017, 40 (35 %) out of 115 Great Bustards have been proven to have died through collision with power lines in Austria.

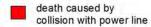




Dead individuals of the West-Pannonian population of Great Bustard separated by years

in the period 6/2002 to 5/2017, while year is the period from June, 1st to May, 31st of the following year





Data source: Raab et al. (2010) and data from R. Raab and P. Spakovszky

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

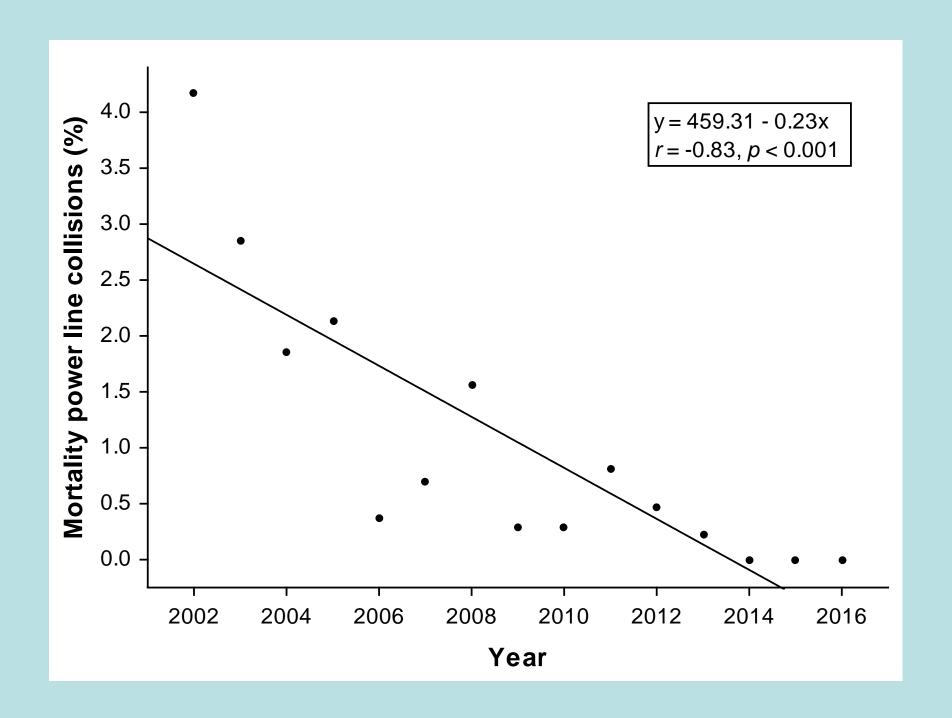




LIFE Nature Project "Great Bustard" (LIFE15 NAT/AT/000834)



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Annual mortality rate due to power line collisions declined significantly in the whole West Pannonian population:

- with increasing length of underground power lines (Spearman rank correlation: $r_s = -0.88$, p < 0.001)
- with increasing length of marked power lines (Spearman rank correlation: $r_s = -0.86$, p < 0.001)

 In the reporting period 01/01/2013 to 31/12/2017 a total of 30 dead Great Bustards were found in Austria, 4 (13 %) died through collision. Out of these 4 casualties 1 died on medium voltage power lines, 2 on high voltage power lines and 1 on train power lines.

 In Burgenland and Lower Austria in the period 2005 till 2015 altogether ca. 100 km of medium voltage power lines have first been transferred into the ground and then the overhead cables and pylons have been removed. Therefore larger power line-free areas were recreated for Great Bustards by means of the two LIFE projects "Great Bustard".





 In these areas the risk of collisions with power lines was eliminated. Furthermore high voltage power lines have been marked to improve their visibility. Within the two LIFE Projects around 150 km of high voltage power lines have been marked with bird warning flags, bird warning plates and bird warning balls. They improve the visibility of the power lines and should therefore reduce the risk of collisions for Great Bustards and for other bird species.

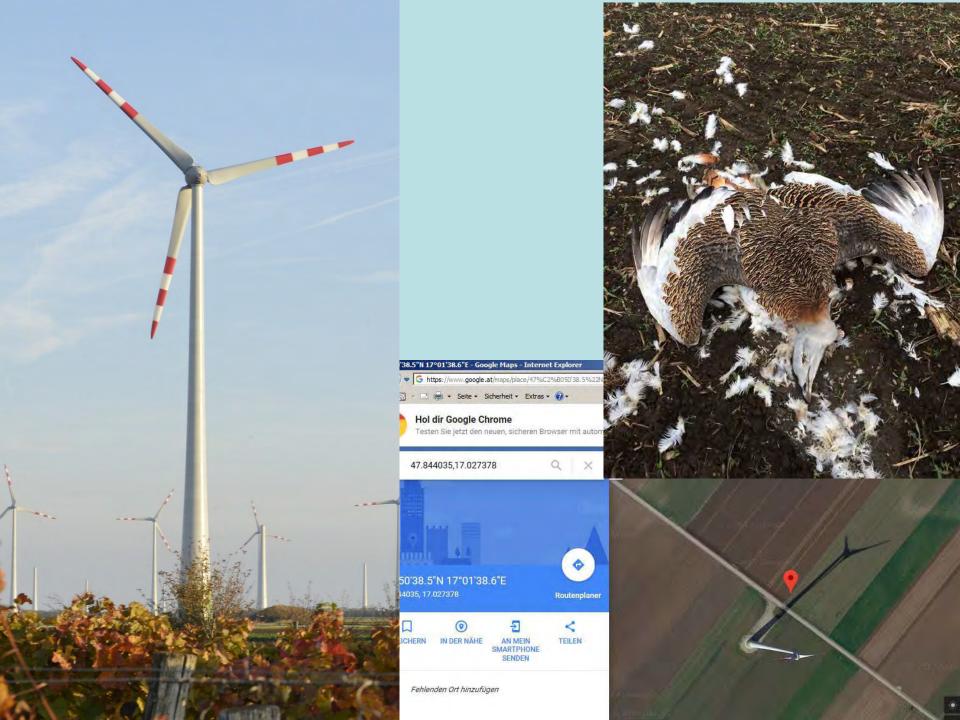


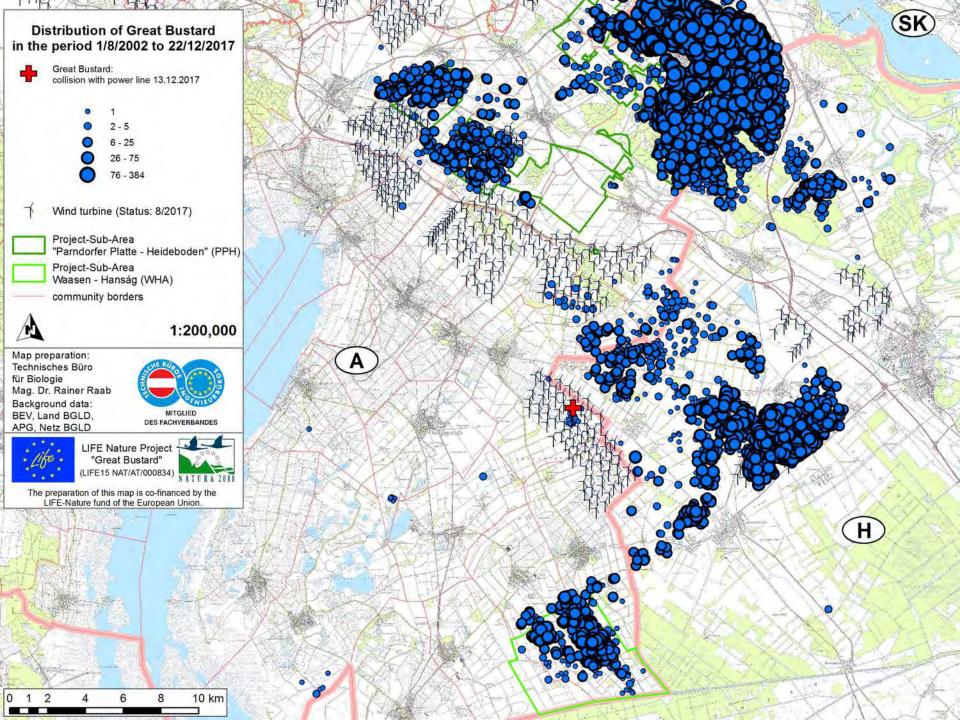


Together with other projects some hundred km
 of high voltage power lines have been marked
 with bird protection markings within the last
 years. Since that time only few individuals died
 on marked sections.

Most of the collisions occurred on power lines, but on 13/12/2017 the first (very certain) collision with a wind power station in Austria was recorded. An adult male collided in the Nordburgenland on a wind power station from Enercon (E 101, "Nabenhöhe" 135 m and "Rotordurchmesser" 101 m) in the Windpark Halbturn on a station that was built in 2013.

Following figures show some details of this case. It was the first case in the whole West Pannonian population in the period 2002 to 2017, although there is a current population of approx. 500 individuals and 129 dead individuals (not included young birds that were not able to fly when they died) were found and analysed in the period 01/06/2002 to 31/12/2017.







LIFE Project: «Cross-border protection of the Great Bustard in Central Europe»

Project acronym: «Great Bustard»

PROJECT LOCATIONS: 4 in Austria and 5 in Hungary



BUDGET INFO:

Total amount: 8,399,265

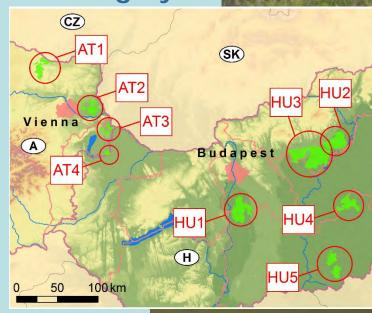
% EC Co-funding: 70.99 %

DURATION: 25/07/16 - 31/12/23

PROJECT'S IMPLEMENTORS:

Coordinating Beneficiary: Austrian Society for Great Bustard Conservation

9 Associated Beneficiaries (4 from AT and 5 from HU)



LIFE Z GREAT BUSTARD





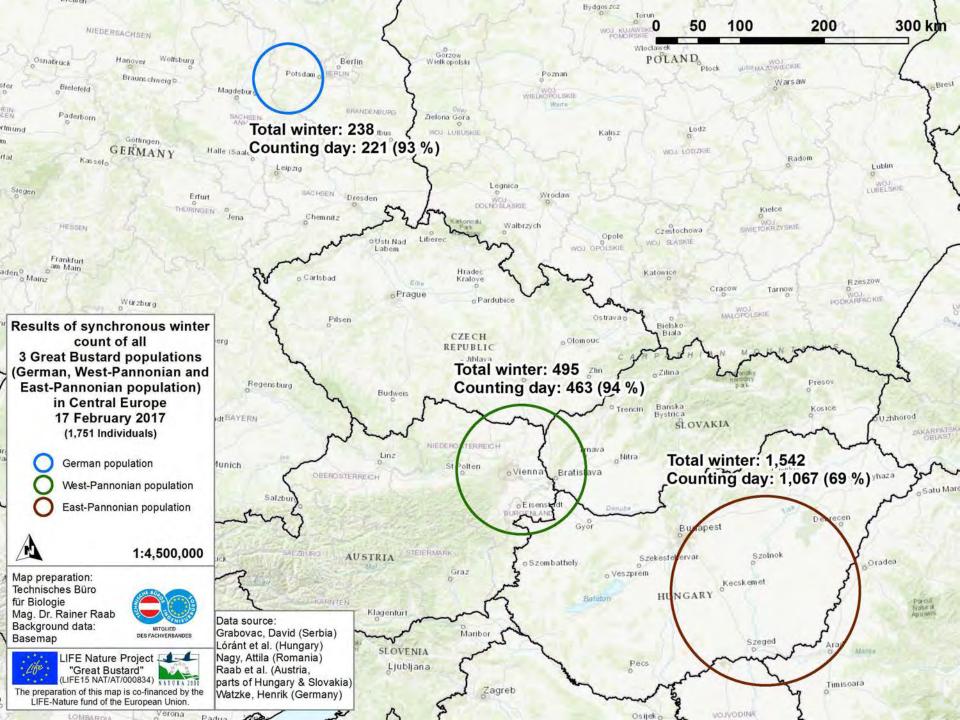


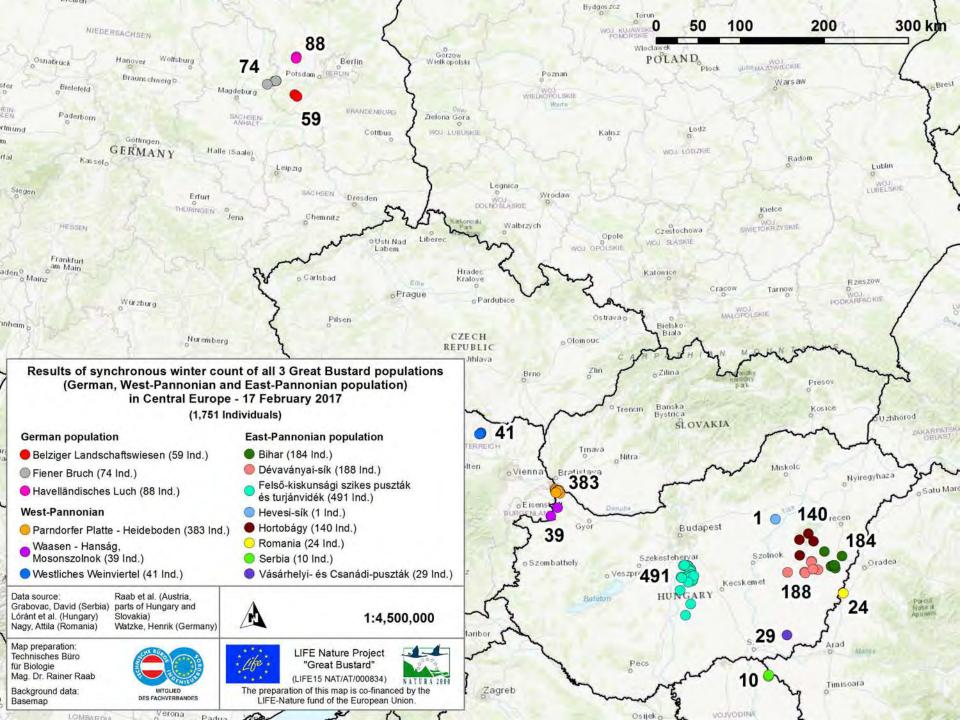
MAIN OBJECTIVE

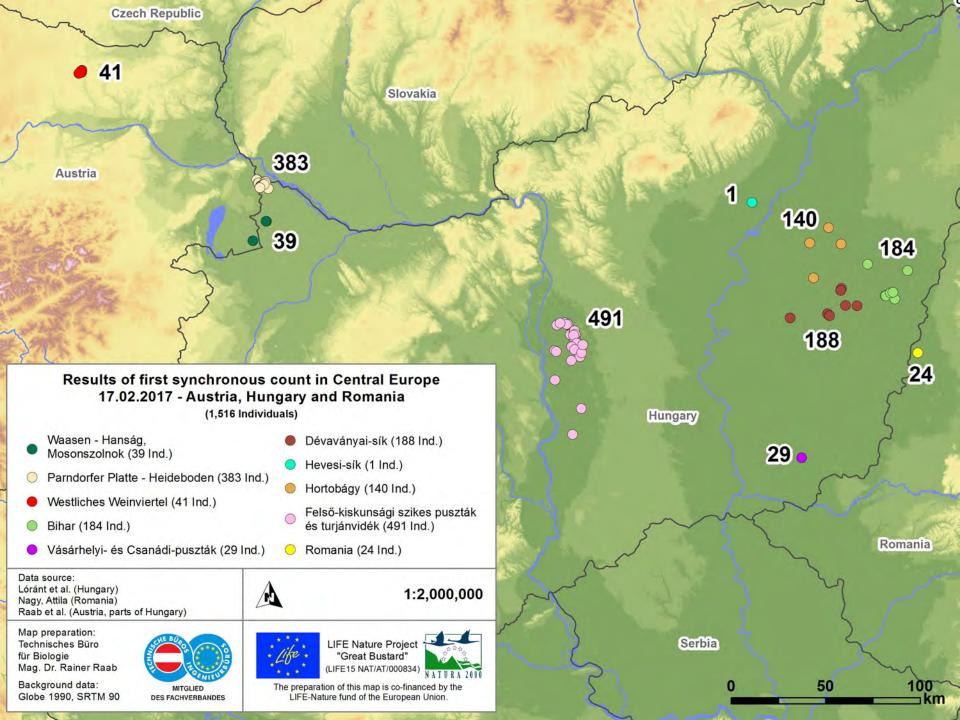
The objectives of this LIFE project are to reduce the threat of collision with power lines, for many years the no. 1 mortality factor for adult and immature Great Bustards not only in Austria.

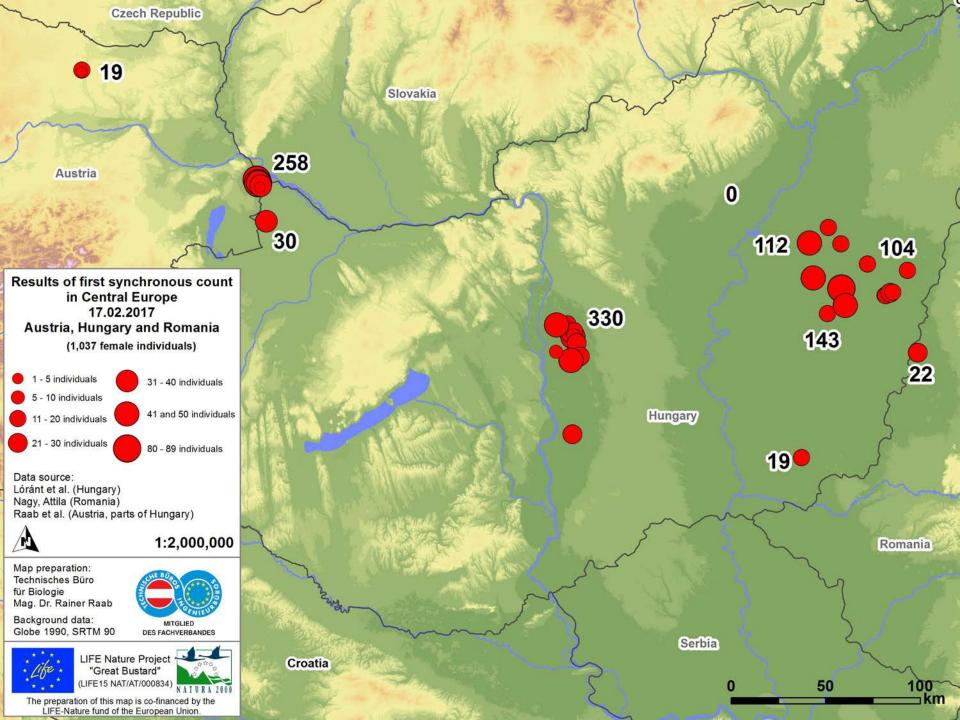
Transfer of 41.5 km (16.0 km in AT and 25.5 km in HU) of medium voltage power lines below the soil with the support of the energy supplying companies concerned and monitoring of the effectiveness.

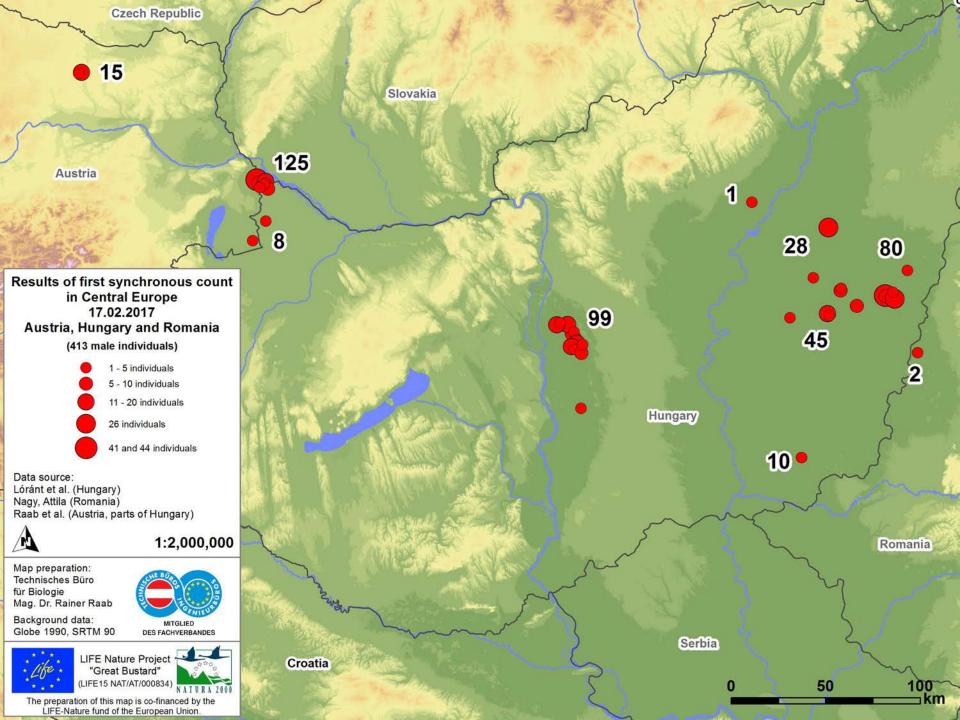










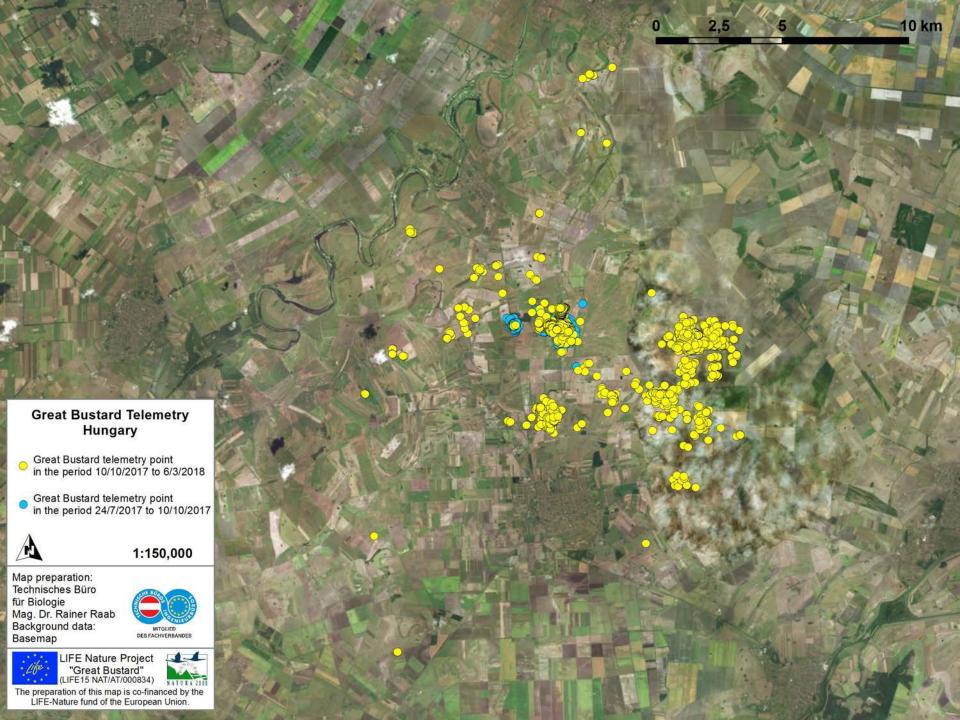


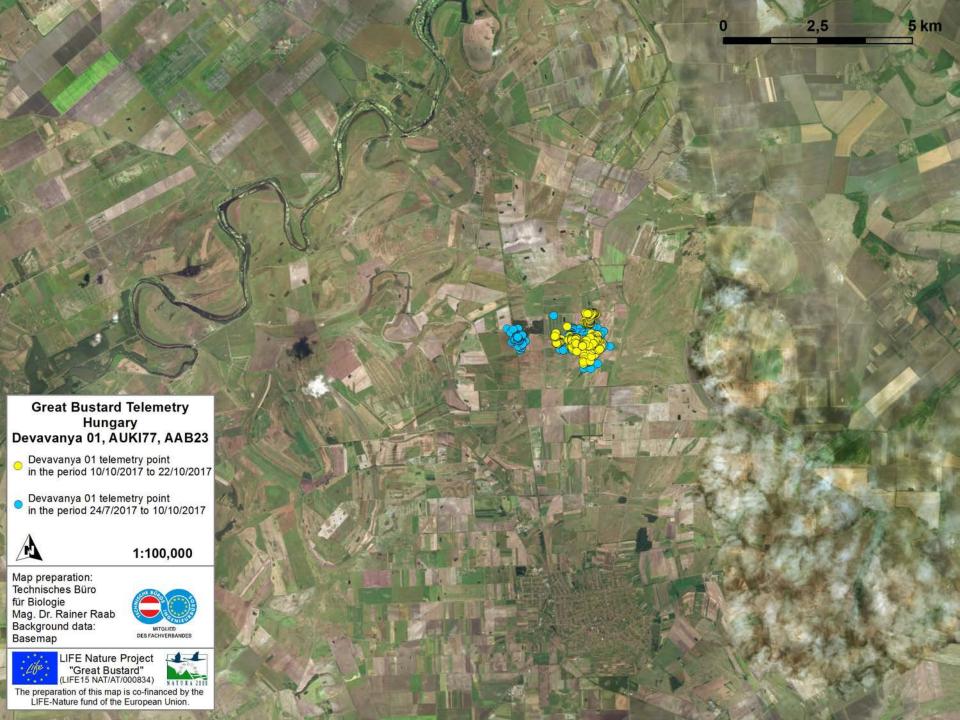


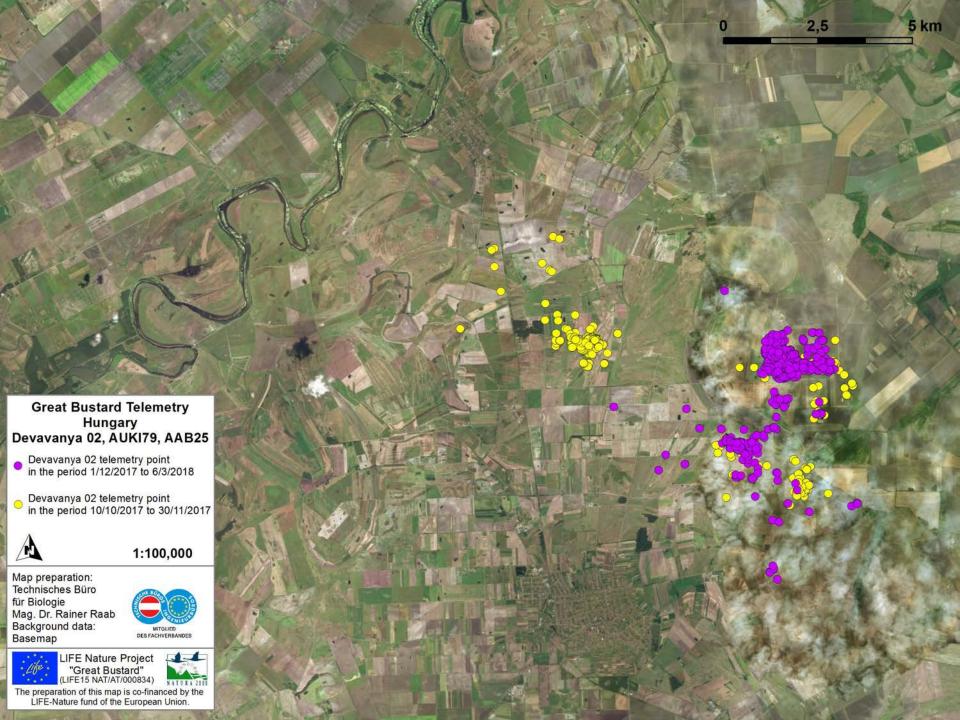
Imperial Eagle (Aquila heliaca)

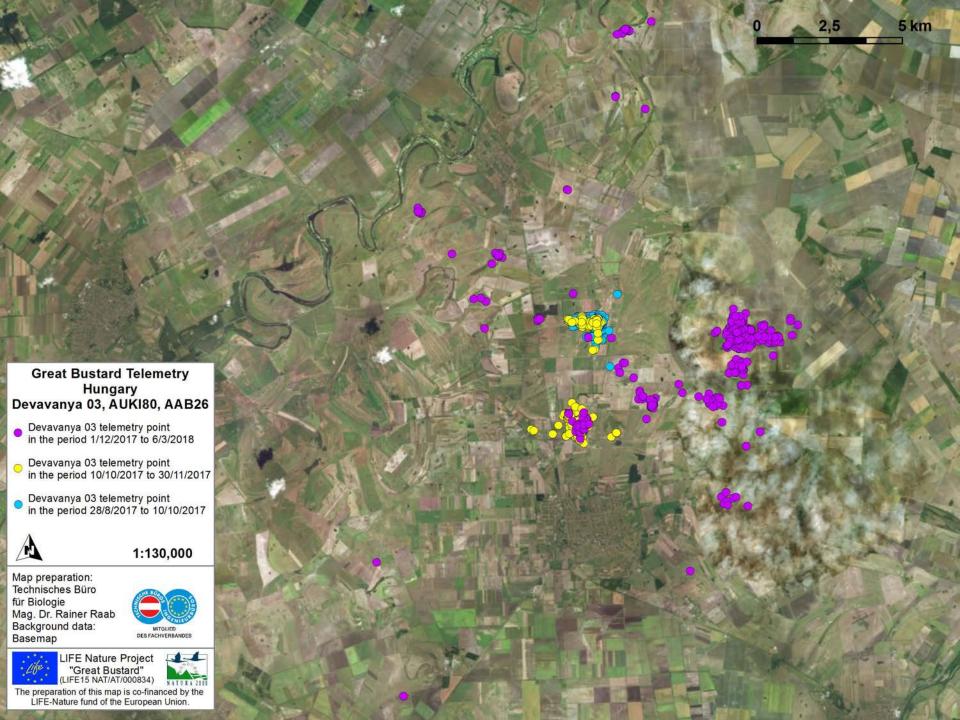
Photo: R. Katzinger

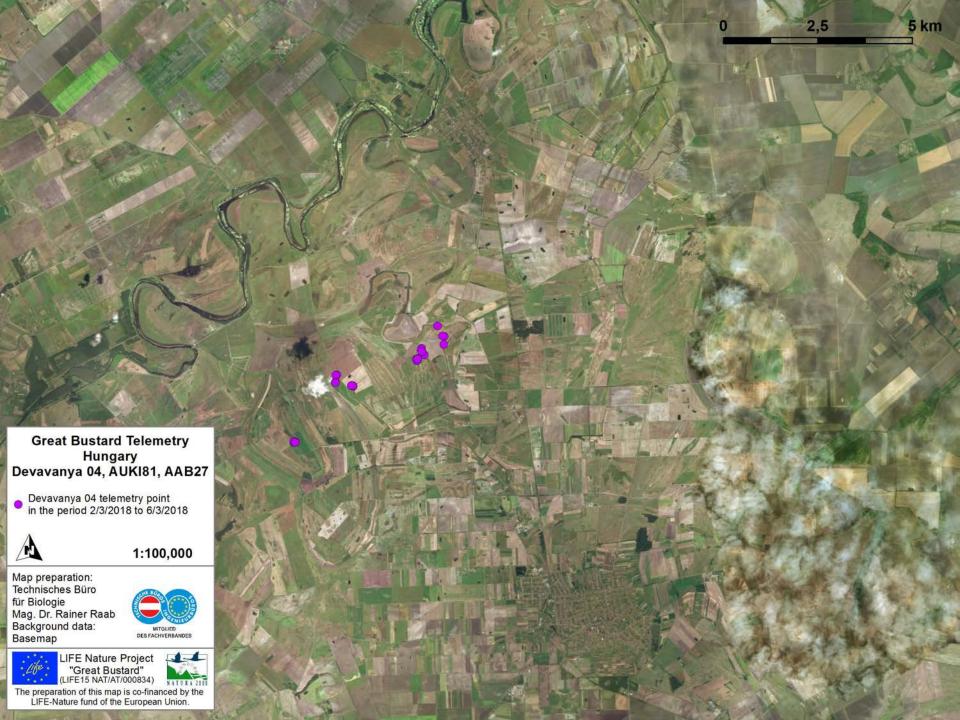












Thank you for your attention!







The LIFE Project "Great Bustard"

LIFE15 NAT/AT/000834 is

supported by the EU and the following project partners and co-financiers:











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elmű hálózat











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In co-operation with:

