

#### The Danube Protected Areas' initiative for bird conservation at powerlines along the Danube River

Georg Frank, DANUBEPARKS Secretary General

8<sup>th</sup> MAVIR Bird Conservation Conference Budapest, 8<sup>th</sup> November 2017











"...the EU Natura 2000 Award for its **ambitious**, **friendly and trustworthy** cooperation **crossing all borders** and its **concerted efforts** to preserve the Danube's natural heritage." (2015)

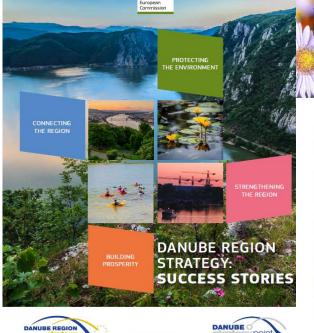


DANUBEPARKS Association o/o Schloss Orth, 2304 Orth an der Donau, Austria g.frank®danubeparks.org www.danubeparks.org



#### **DANUBEPARKS**





The Danube is the longest river in the European River Protected Areas, to manage these areas wisely, Union and the most international river in the to exchange and promote management expertise, and to improve knowledge of the river's ecological status, world, stretching 2857 kilometres through ten as well as the economic, social and environmental countries, including dozens of protected areas and national parks. The contribution made by wetlands in the Darube Basin, and raising awareness of these protected areas to the conservation the river's international importance and of sustainable of Europe's natural heritage is of immense importance now and for future generations.

DANUBEPARKS - the Danube River Network of Protected Areas - was founded in 2007 with the signing of the Declaration of Tulcea in Romania. Joint projects are crucial to achieving the initiative's goals which, along with the continuing informal cooperation from the national parks and protected areas, are made possible mainly by the framework of cooperation across the Danube Region - the EUSDR

Rivers are interrelated ecosystems, and nature does not recognise borders. Thus, nature conservation efforts along this most international of rivers need to find transnational answers and initiatives.

As stated in the Declaration of Tulcea, the network is determined to improve conservation of the Danube

impacts. The network is taking action for the prevention control and reduction of pollution in the flood plains and development.

NATURE KNOWS

**NO BORDERS** 



http://ec.europa.eu/regional policy/index.cfm?action=publications.details&languageCode=en&publicationId=998

"It (DANUBEPARKS) is now a recognized label for Nature Conservation in the Danube Region. ...established a fruitful transfer of know-how....started region-wide initiatives...helped to develop a stronger voice at the policy level." (2016)





#### DANUBEparksCONNECTED – to strengthen the Danube Habitat Corridor (2017 – 2019)

- River habitats (Danube Wild Island Habitat Corridor)
- Danube Dry Habitat Corridor
- Riparian forests Corridor
- **DANUBE FREE SKY:** Danube as flyway



#### DANUBEparksCONNECTED – Bridging the Danube Protected Areas towards a Danube Habitat Corridor



Countering the main threat to biodiversity in Europe: landscape fragmentation and isolation of Protected Areas

DANUBEPARKS - The Danub

Areas - preserves some of our most valuable natural sites. Yet

River Network of Protected

habitat fragmentation limits efforts to preserve a truly cohesive ecosystem

n recent decades, the dynamic economic

projects in transportation and energy, and

the increasing intensification of land use has

led to less ecological connectivity. Together

the freqmentation of ecosystems and lack of

connectivity among Protected Areas pose the

greatest threat to biodiversity in Europe, and Im

the effectiveness of existing conservation efforts

Strategy for the Danube Region (EUSDR) Action

Plan and other important policies have issued

calls for action to restore and preserve habitat

connectivity, and to strengthen Protected

Areas in their function as key sites of the

Danube Habitat Contdor. European initiatives

like the Natura 2000 Network and the Green

Infrastructure concept should bring about the

establishment of trans-European green networ

To counteract this development, the EU

in valuable natural sites.

velopment of Southeast Europe has put swinn pressure on the natural treasures of the

Danube, Urban sprawl, major new infrastructure

The special relevance of river ecosystems as eco-corridors While most may associate habitat

correctifying a particular to river with the kongitudia i constrainty of aquater bubbits, rivers in for tarve an even greater purpose: as a searchait width constraints, rivera lands and haitras the sandbars, greve lands and hainds an literai stegging alloss. Thuy as a ladit width and the sandbars, greve lands and hainds an literai stegging allos, and birds of solutions of wetacroding veno guils, and birds of solutions Rivers went form accilipatio anticipations of valaetoria, greve a lands and Rivers went form accilipation and birds Rivers went form accilipation and birds Rivers went form accilipation and birds and birds and birds and birds Rivers went form accilipation and birds range of organisms. The makes have habitsts Provides subble king conditions for a west and part organisms. The makes have habitsts Provides subble kings of west of the solutions.

Danube Protected Areas' responsibility for ecological connectivity in Europe

Because the Danube Intis more separate ecological and bio-geographic regions than any other control in Europe, habitate connectivity and functioning riverine ecosystems that enable arimalimigration are especially partitient issues. Counteracting the negative effects of long-term habitat displacement and of timale change will

Strangthaning the Danobe Habits Combor an wet or (MLD) dand, Is the air (DAV USE FREE EAX) and an inter Strate and Dav Habits

> be more important then ever in future in order to ensure adequate and functioning migration contions connecting the Black Sea, Steppic, Pannonian, Continental and Alpine regions.

Along with the Nature 2000 Network, the Danubs Protection Alons opproach the lay areas, and form the backbone of this ecological contor. However, baccasts the amount of and designated as natural conservation areas to all too armai to serve self-sustaining widths populations, our main challenge – now and in thurs – with bo locate and markain habitit connactivity and contiguous coopystems in order to amount boltware in the contract to core.



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Interreg



#### **FNN-Hinweis**

Vogelschutzmarkierung an Hoch- und Höchstspannungsfreileitungen

#### **FNN**

VDE

Forum Netztechnik/ Netzbetriebe im VDE, 2014

Natura 2000 Sites for breeding and nesting waterfowl: no-go areas for high voltage powerlines; special risk on migration routes

Common Sandpiper (Category A: Very high risk for collission)

States-



Presse Infothek Newsletter Shop Fotoclub NABI	uges nel
Wir über uns Tiere & Natur & Pflanzen Landschaft	
A / News / 2017 / Marz	Vogel-Kollisionsonf-
40 V	- Vogel-Kollisionsopfer an Hoch- und Höchstspannungsfn in Deutschland – eine Abschätzung
Bis zu 2,8 Millionen Vögel sterben pro Jahr an	Auftraggeber: NABU – Naturschutzbund Deutschutz
Stromleitungen	10108 Berlin
NABU appelliert an Netzbetreiber, Leitungen zu sichern	NABU
Mehr als 60.000 Kilometer Hochspannungsleitungen durchziehen Deutschlar	Auftragnehmer: TNI Limus
ein Bruchteil davon liegt als Erdkabel unter der Erde. Freileitungen können z tödlichen Kollisionen von Vögeln führen. Der NABU hat ermittelt, wie viele Ti	Raiffeisenstraße 7
dadurch umkommen.	35410 Hungen
	UNIVEL TELANDING
	in Zusammenarbeit mit:
	Dr. Josef Kreuziger, Zwingenberg Projektleitung: Diol. Biol. p.
A A A A A A A A A A A A A A A A A A A	Bearbeitung: Dipl-Biol. Frank Bernshausen Dr. Josef Kreuziger
	DiplGeogr. Julia Krimkoust
	MSc. Landschökologie Andreas Menzel (GIS) DiplBiol. Arno Reinhardt
	BSc Geogr. Benjamin Rösner (GIS) Wissenschaftliche
	Begleitung: Dr. Hans-Günther Bauer
	Hungen, im Februar 2017
	TNL Umweitplanung * Tel:: 06402 Essent
	TML. Umweltplanung * Tel.: 06402 - 519621-0 * Fax: 06402 - 519621-30 * www.tnl-umwelt.de

Germany: 2,8
 million birds
 killed/year
 through collission
 on high voltage
 power lines

ungen

 ...and (some) available studies stressing the need for actions against collission at large rivers



NABU, 2017

Danube Delta: Europe's most important breeding site for pelicans (Pelecanus crispus, Pelecanus onocratus) – extremely high risk for collission





LIFE+ Nature "Saving Pelicanus crispus in the Danube Delta" (2005-2009)





White-tailed Eagle (Category B: high risk for collission)





Photo: Wolfgang Nerb/LBV		DE	AT	SK	HU	HR	RS	BG	RO
	Forestry	L	**	С	М	Η	М	Н	С
	Land exploitation	L	М	Η	L	L	L	Н	L
	River regulation / drainage	Ν	L	М	L	Н	L	М	Η
A MARCAN AND A MARCAN	Disturbance	L	**	Η	М	М	М	Н	С
	Deduction of more have	NT	N	TT	т	т	C	т	
	Reduction of prey base	IN	IN	U	L			L	M
	Shooting and trapping	N	U	С	L	L	L	М	H
	Nest robbing	Ν	Ν	L	L	L	U	L	L
	Poisoning	L	Н	С	Η	U	L	U	Η
	Lead poisoning	*	*	U	М	Η	U	U	М
	Pesticides and pollutants	N	U	U	M	U	М	IJ	L
	Collision and electrocution	L	М	Η	М	L	L	U	U
	Table 4: Threats to the White-ta	ailed S	ea Eag	gle alo	ng the	Danu	be.		
									_

# Danube-wide cooperation to raise the awareness!!





#### **Goals and Objectives:**

- 1) Raising awareness
- 2) cooperation platform energy & conservation sector along the Danube river
- 3) Inventory of (critical) powerlines
- 4) Initiate technical solutions
- 5) DANUEPARKS Position Paper
- 6) Strategy & follow-up's
- 7) Communication

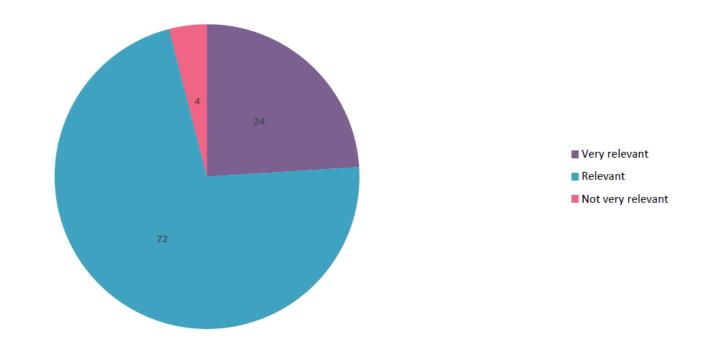






#### 1) Raising awareness

How relevant, do you think, is bird collision at powerlines in and close to your protected area?



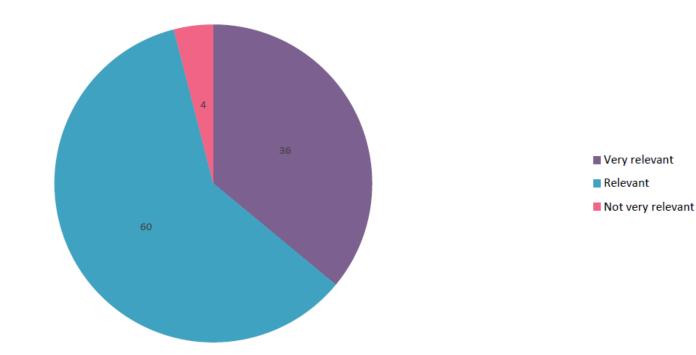
DANUBEPARKS Questionnaire, 2017

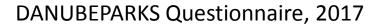




#### 1) Raising awareness

How relevant, to your opinion, is electrocution in and close to your protected area?









# 2) Cooperation platform energy & conservation sector along the Danube river



- MAVIR, ENEL, APG: Strategic Project Partners
- patronage by PA2 Energy and PA6 Biodiversity of the EU Danube Strategy

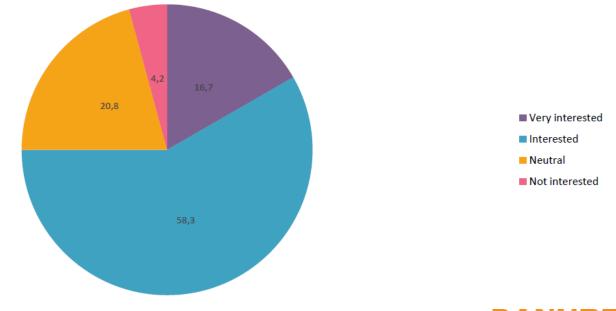






# 2) Cooperation platform energy & conservation sector along the Danube river

How interested are the powerline operators in your country in a closer cooperation?



DANUBEPARKS Questionnaire, 2017

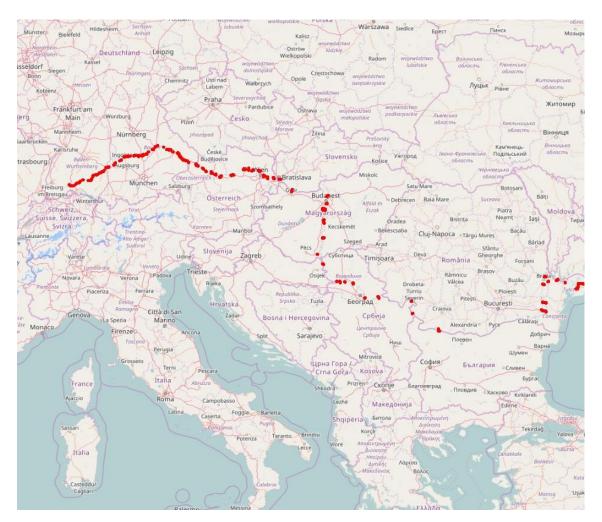




### 3) Inventory

Total electric power lines	212
crossing the Danube	
Germany	131
Austria/Germany	1
Austria	36
Slovakia	1
Hungary/Slovakia	1
Hungary	10
Croatia/Serbia	1
Serbia	13
Romania/Serbia	5
Romania/Bulgaria	1
Romania	12

## DANUBE FREE SKY



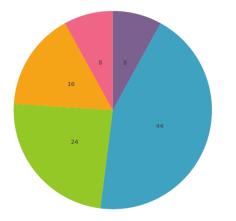
Sources: Open Street Map, shipping navigation map https://www.d4dportal.info/, Ortho pictures and google earth network of protected areas



#### 3) Inventory

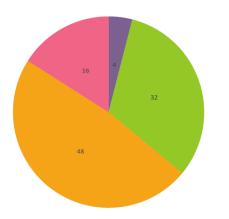
### DANUBE FREE SKY

Do you have high- or highest voltage powerlines (>60 kV) in/close to your protected area?



None
Single one(s) (1-3)
Some (4-10)
Many (more than 10)
Don't know

Do you have any medium and/or low voltage powerlines



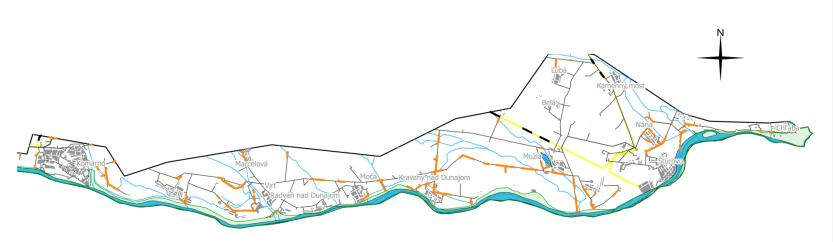
■ None ■ Some (4-10) ■ Many (more than 10) ■ Don't know

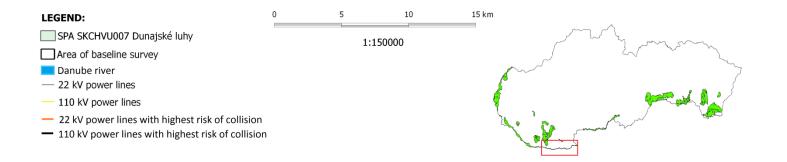






SPA SKCHVU007 Dunajské luhy - east part









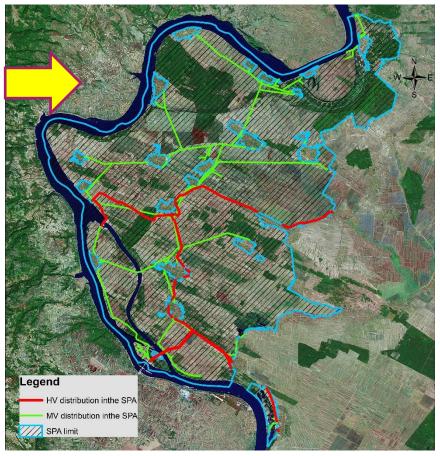


Map created by: LIFE Energy/Marek Galis





What is the High and Medium Voltage lines distribution in SPA`s along the Danube? Collision Risk Assessment Legend MV in the center of Danube Del SPA limit



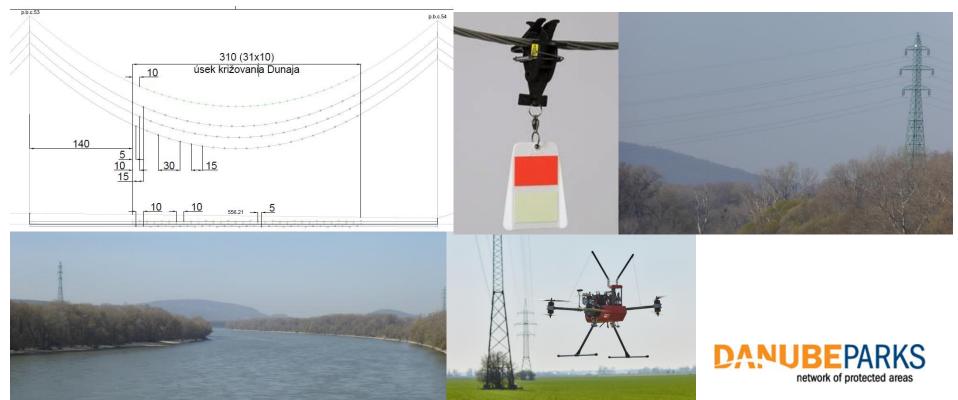
**Electric lines distribution along the Danube in Romania** 





#### 4) (Initiate) technical solutions: good practice Slovakia

- **ZSE Západoslovenská energetika** and environmental sector (NGOs)
- Project of powerline ecologization planned for spring 2018
- ZSE Syker Engineering, Danubeparks (BROZ), Raptor Protection Slovakia





### 4) (Initiate) technical solutions: good practice Hungary

- Cooperation: MAVIR & Duna-Ipoly National Park
- Site: Száhalombatt (south of Budapest)
- Marking above the Danube (length: 800 m, 7 wires, 320 diverters)



- 1<sup>st</sup> draft of priorization:
- Natura 2000
- White-tailed Eagle (breeding, wintering)
- waders (Little-ringed Plover





#### 4) (Initiate) technical solutions: good practice Austria

- **Austrian Power Grid** (APG) organize marking of all (!!) power lines crossing the Austrian Danube in winter 2017/18 (for all 6 power line operators)
- Implementation: winter 2017/2018
- Video monitoring at Danube side branch





Foto: Archiv Staatliche Vogelschutzparke Frankfurt





### 5) DANUBEPARKS position paper

- Collission AND electrocution
- In cooperation with BirdLife Austria and the Danube Delta Institute
- In progress



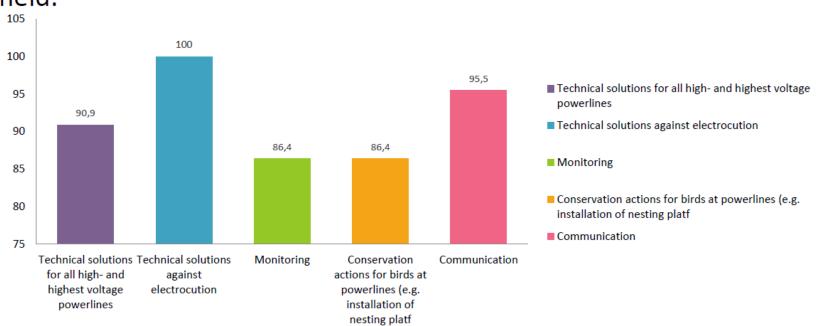
DANUBEPARKS Expert Meeting (Budapest, 8th November 2017)





#### 6) Strategy & follow-up

What would be most interesting for you and your protected area as a follow-up activity on this field? Please rank the priority 1-5 in the text field.



#### DANUBEPARKS Questionnaire, 2017





Nr. 44, Mittwoch, 22. Februar 201

### DANUBE FREE SKY





#### A joint Danube-wide process – next steps

- Continue the transnational cross-sector Cooperation (including policy level like EU Strategy for the Danube River)
- Danube-wide GIS-inventory of powerlines (high, medium AND low voltage)
- The big goal: best practice implemenation in EACH Danube country for high-voltage powerlines (as model for large rivers in Europe)
- partners for Danube-wide project proposal (optional: LIFE+ 2019 2024)
- Joint communication and dissemination (public, stakeholder, policy)
- Joint Conference (Tulcea, Danube Delta/spring 2019)





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