

DANUBE parks CONNECTED

WP 4 DANUBE FREE SKY

Ion Munteanu (Danube Delta Biosphere Reserve/ROM)

Laura Bischof (Donau-Auen National Park)

Georg Frank (DANUBE PARKS)



	DE	AT	SK	HU	HR	RS	BG	RO
Forestry	L	**	C	M	H	M	H	C
Land exploitation	L	M	H	L	L	L	H	L
River regulation / drainage	N	L	M	L	H	L	M	H
Disturbance	L	**	H	M	M	M	H	C
Reduction of prey base	N	N	U	L	L	C	L	M
Shooting and trapping	N	U	C	L	L	L	M	H
Nest robbing	N	N	L	L	L	U	L	L
Poisoning	L	H	C	H	U	L	U	H
Lead poisoning	*	*	U	M	H	U	U	M
Pesticides and pollutants	N	U	U	M	U	M	U	L
Collision and electrocution	L	M	H	M	L	L	U	U

Table 4: Threats to the White-tailed Sea Eagle along the Danube.

WP responsible partner: Danube Delta Biosphere Reserve Authority

Total Budget: 374.471,90 €

Act. 4.1: Free Sky Learning Process

- Preparatory Workshop: bringing together energy & conservation

Today: deadline,
responsilbe person

- Literature Research (Monitoring (?))

Today: arrange your
meeting, identify
your partners,

- Meetings on National Level with energy sector (!!!)

Budget: 81.042, 50 €

Act. 4.2: Danube Free Sky Position Paper

- Expert Workshop

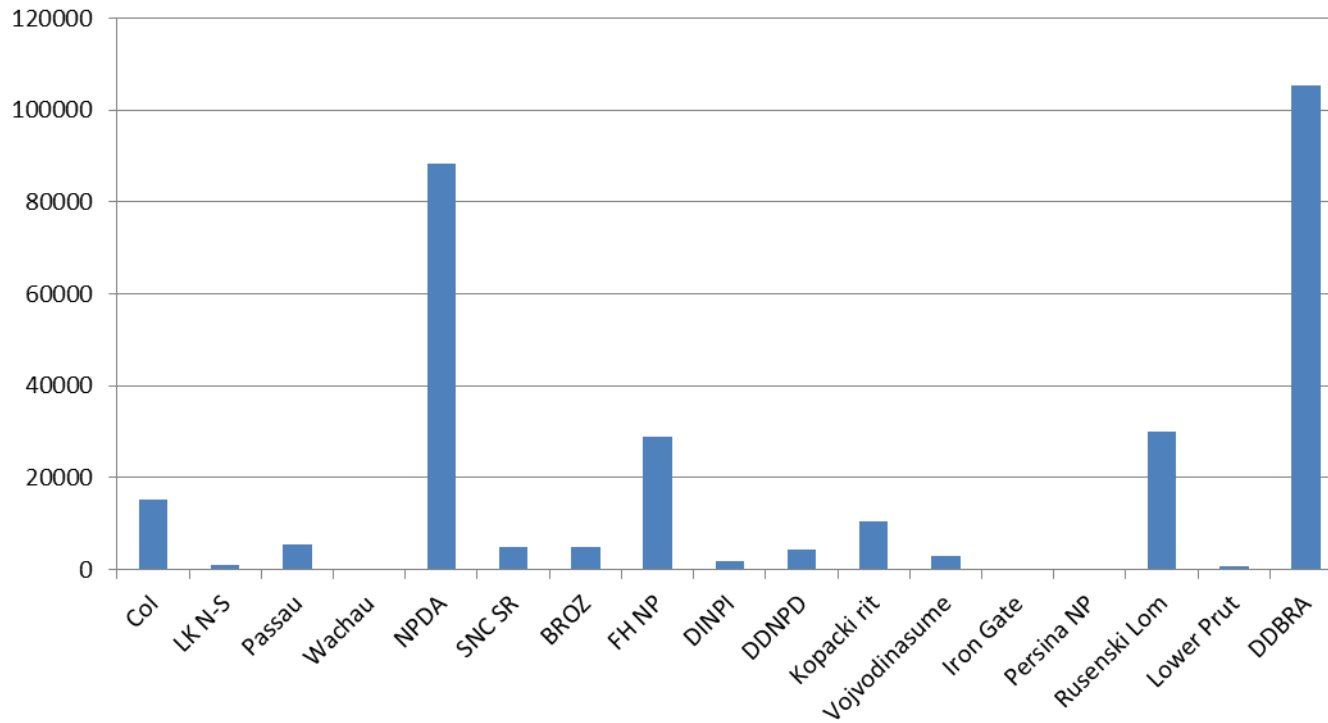
Today: how to share
with all of you?

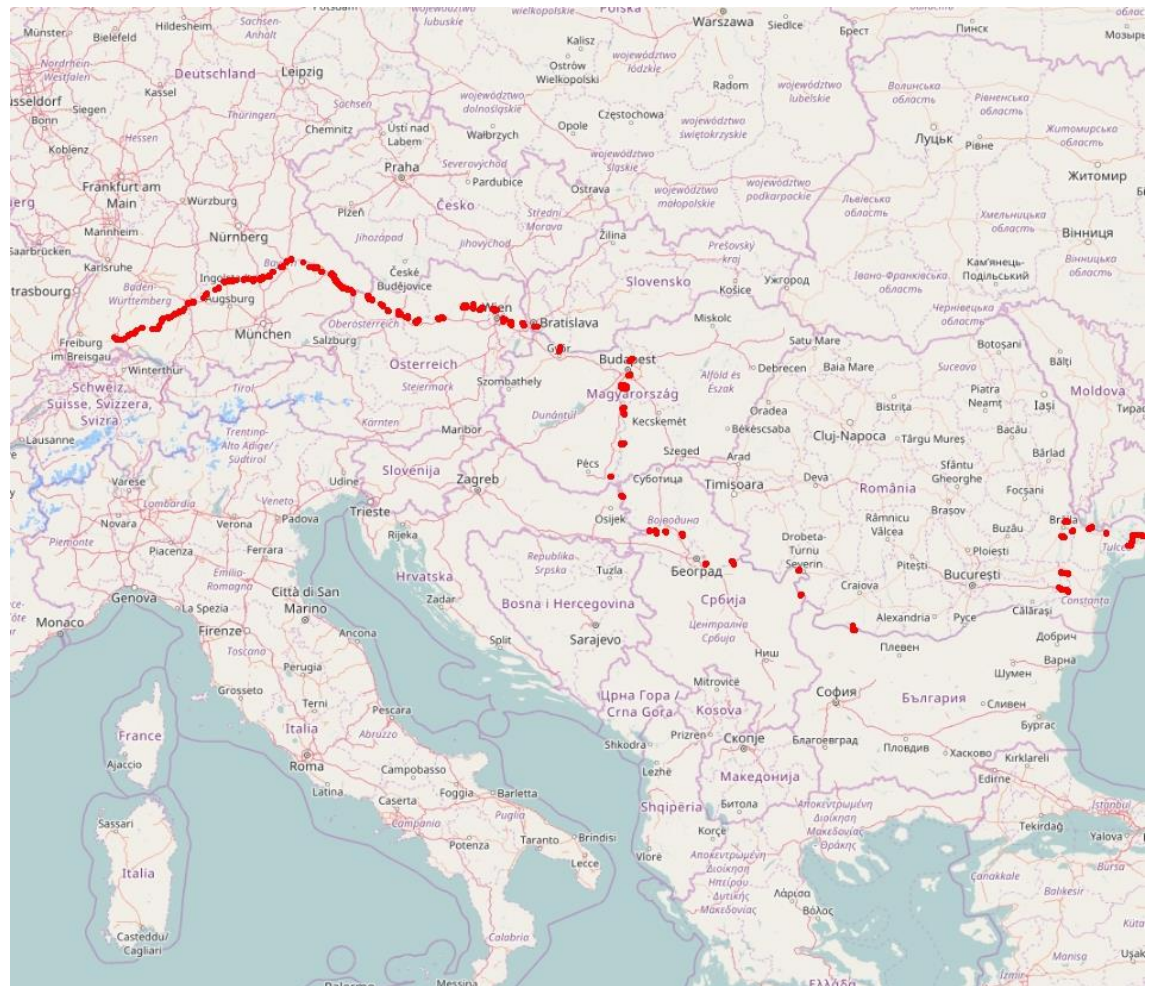
- **Inventory: database of powerlines along the Danube**

Today: process &
responsibilities

- Position paper

Budget: 110.437, 50 €

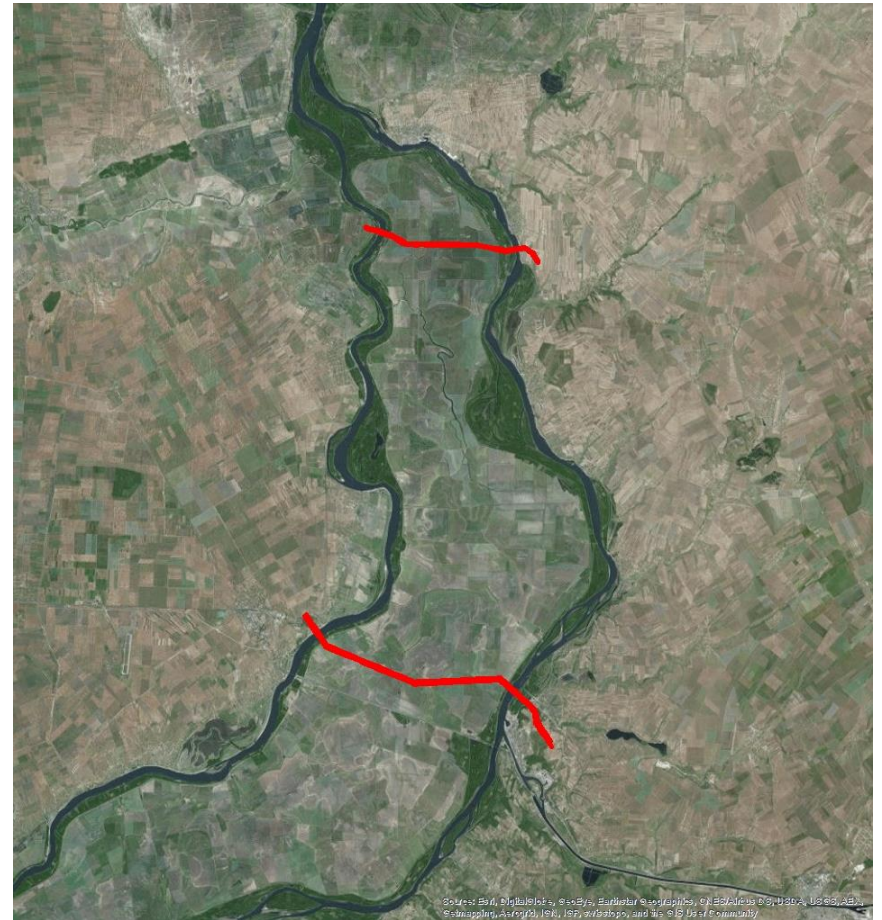




- Identification of electricity lines along the danube

Sources: Open Street Map, shipping navigation map <https://www.d4d-portal.info/>, Ortho pictures and google earth

Detail Open Street Map and Ortho Picture in ArcGIS



Powerlines crossing the Danube

Total electricity lines	212
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

ussregen

* Id	Source	Schiffahrt	OSM	ortho	Operator	Cables	Voltage	country	t_height	notes
0	openstreetmap	ja	ja	ja	EVN	6	110000	austria	0	Deutsch-Altenburg - Gänserndorf
0	openstreetmap		ja	ja	Austrian Power Grid AG	6	380000	austria	0	Bisamberg - Sarasdorf
0	openstreetmap		ja	ja	ÖBB	4	110000	austria	0	
0	openstreetmap		ja	ja		6	220000	austria	0	
0	openstreetmap		ja	ja	Austrian Power Grid AG	6	380000	austria	0	Slavetice - Dürnrohr
0	openstreetmap		ja	ja		6	110000	austria	0	Dürnrohr - Waidhofen an der Thaya
0	openstreetmap		ja	ja	Energie AG	6	110000	austria	0	
0	openstreetmap		ja	ja		0	0	germany	0	minor_line
0	openstreetmap		ja	ja		0	20000	germany	0	minor_line
0	openstreetmap		ja	ja		0	0	germany	0	minor_line
0	openstreetmap		ja	ja		6	20000	germany	0	
0	openstreetmap		ja	ja	E.ON Netz GmbH	6	110000	germany	0	
0	openstreetmap		ja	ja		0	0	germany	0	minor_line
0	openstreetmap		ja	ja	TenneT TSO GmbH	6	380000	germany	0	220000
0	openstreetmap		ja	ja		0	0	germany	0	minor_line
0	openstreetmap		ja	ja		0	0	germany	0	minor_line
0	openstreetmap		ja	ja		0	0	germany	0	minor_line
0	openstreetmap		ja	ja	DB_Energie	4	110000	germany	0	Donauwörth - Bertoldsheim
0	openstreetmap		ja	ja	0	3	400000	hungary/slovakia	0	Natura2000
0	openstreetmap		ja	ja	0	6	120000	hungary	0	Göd - Pomáz/Kaszásdulo
0	openstreetmap	nein	ja	ja	0	6	120000	hungary	0	Dunamenti - Dunavarsány
0	openstreetmap	nein	ja	ja	0	6	220000	hungary	0	Dunamenti - Ocsa
0	openstreetmap	nein	ja	ja	0	6	400000	hungary	0	Albertirsa-Dunamenti
0	openstreetmap	nein	ja	ja	0	0	120000	hungary	0	
0	openstreetmap	nein	ja	ja	0	3	400000	hungary	136	tallest in hungary
0	openstreetmap	nein	ja	ja	0	6	120000	hungary	0	
0	openstreet	ja	ja	ja	0	3	110000	croatia/serbia	0	
0	Schiffahrt	ja	nein	ja	0	0	0	serbia	0	
0	schiffahrt	ja	ja	ja	0	3	400000	serbia	0	
0	schiffahrt	ja	ja	ja	0	3	110000	serbia	0	
0	schiffahrt	ja	ja	ja	0	3	0	serbia	0	

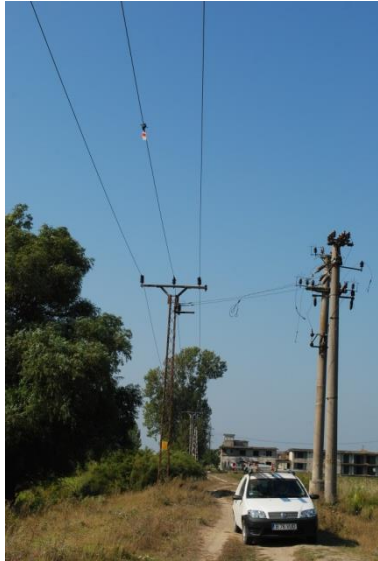
(0 out of 39 Selected)

ussregen:

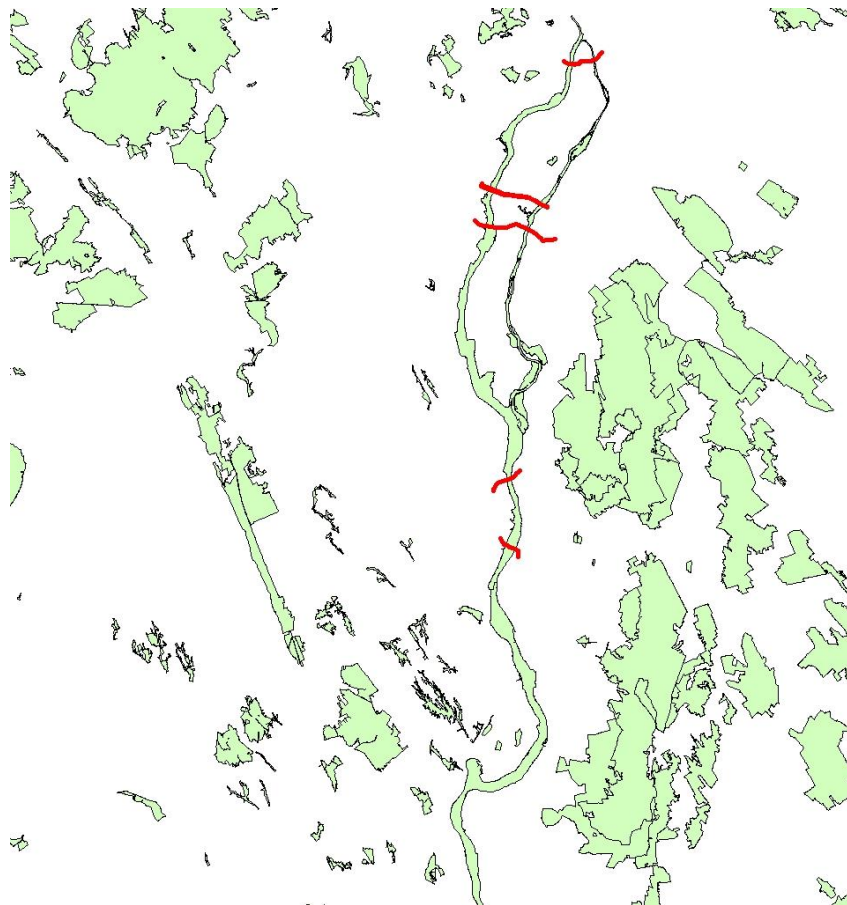
Save Dalmatian Pelican in Danube Delta

- First large scale power-lines marking with Bird Flappers in Romania LIFE 05NAT/RO/000169 coordinated by DDBRA
- Implementation year 2008-2009
- 25 km of electric lines marked in Danube Delta
- with
- 500 Bird Flappers - 2 flappers/100-150 meters of line
- 3 sectors of electric lines with high collision risk for DP were selected
- Stipoc electric line in the North of the Delta
- Dunavat electric line in the center of the Delta
- Chituc electric line in the South of the Delta
- Power Line operators: Enel and Romanian Waters Manager





Prioritisation according to Natura2000 sites



Total electricity lines 212

Electricity lines 180

Natura2000

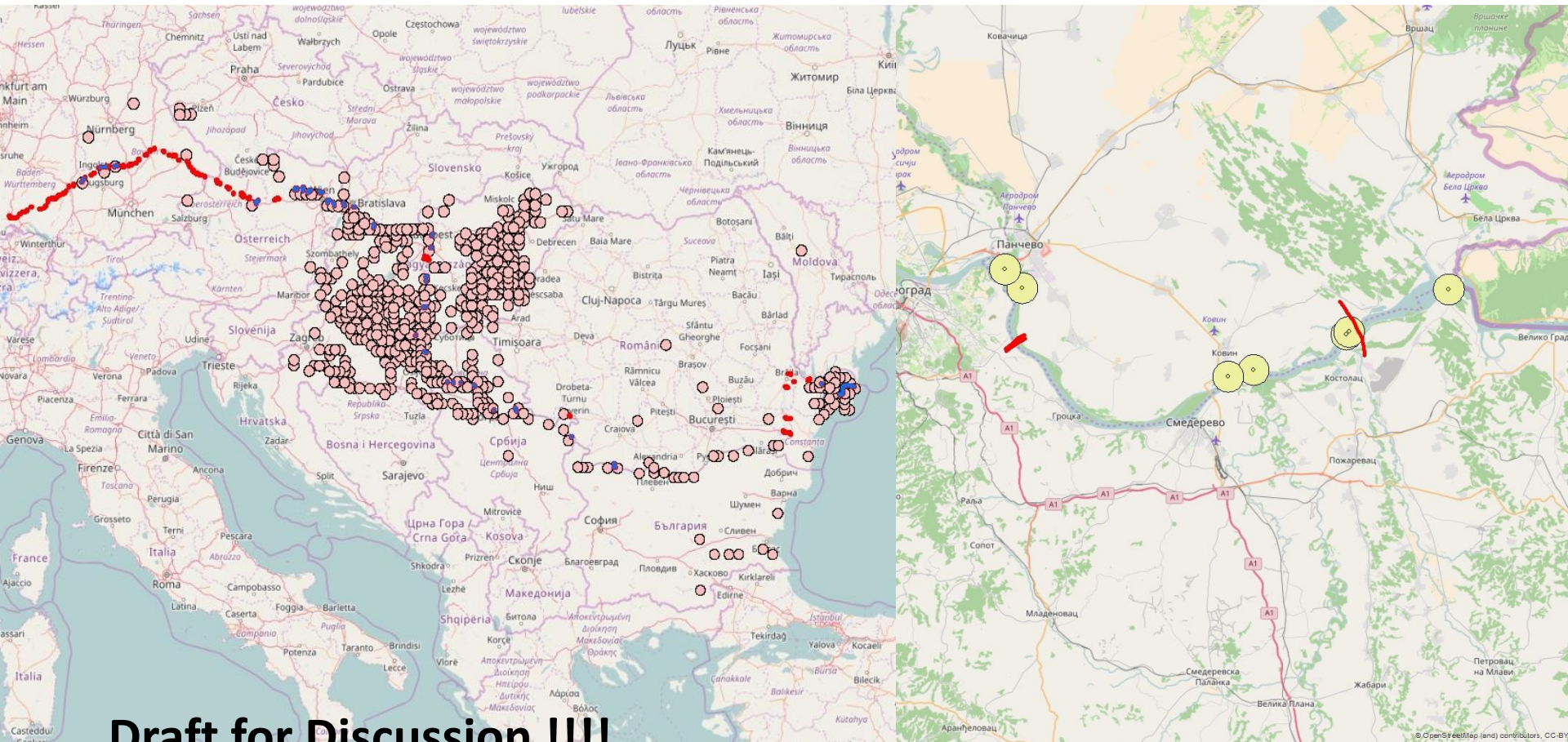
**Electricity lines little
ringed plover** 33

**Electricity lines white-
tailed eagle** 58

Draft for Discussion !!!!



»riorisation according to breeding sites of little ringed plover (*charadrius dubius*) and breeding/wintering white-tailed eagle (*Haliaeetus albicilla*)

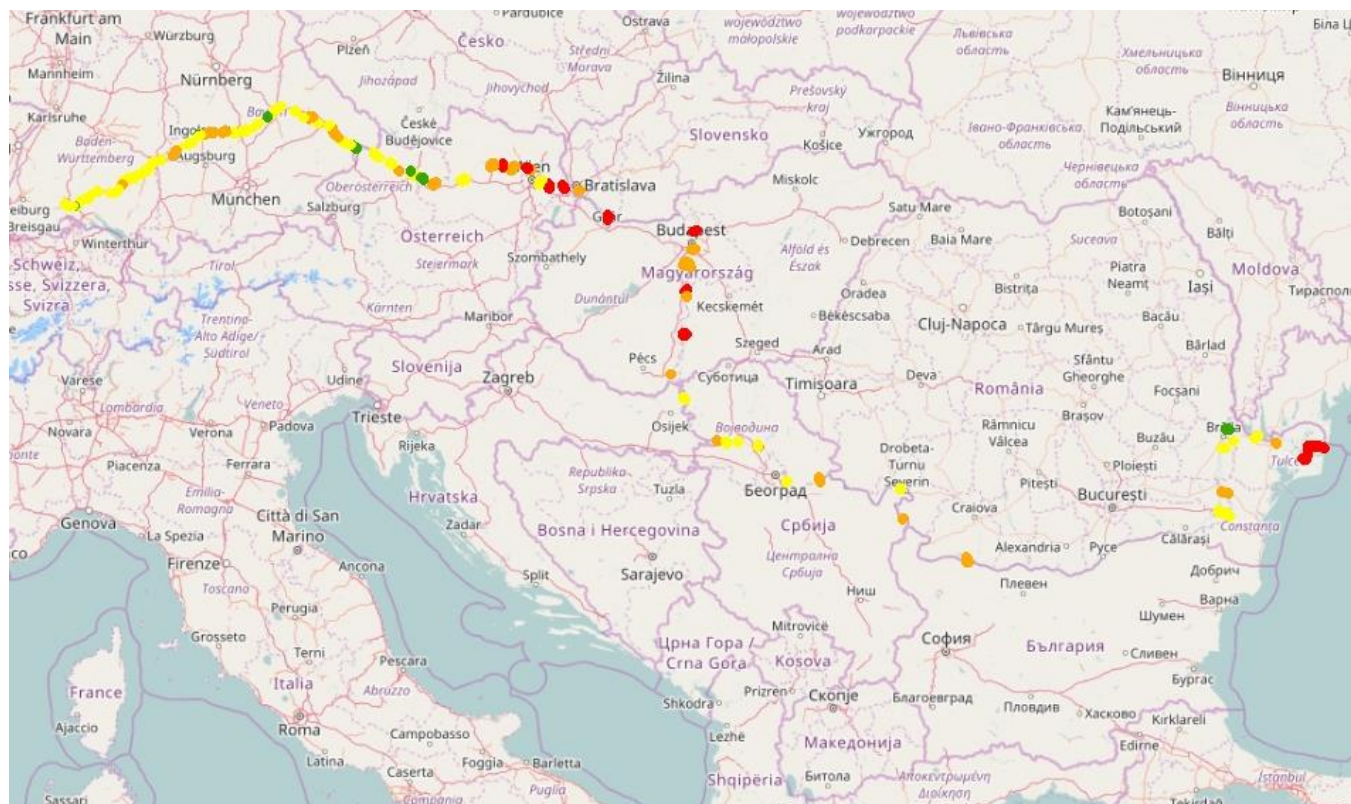


Draft for Discussion !!!!

Priorisation

Priority 0	Zero of three attributes	15
Priority 1	One of three attributes	135
Priority 2	Two of three attributes	50
Priority 3	Three of three attributes	12

Priority



Draft for Discussion !!!!

Today: methodology,
create win-win
conservation & energy

Act. 4.3: Implementing Danube Free Sky

- Pilot actions
 - each country
 - each operator
 - vision: all lines crossing the Danube
 - including actions against electro shock

Budget: 131.009, 50 €

Act. 4.4: Danube Free Sky Strategy

Today: process & responsibilities

- Strategy for follow-up's and future actions
- Cross-sector conference (Tulcea, 2019)
- Memorandum of Understanding: to express willingness for future cooperation among conservation and energy sector
- Policy & Consultation (e.g. EUSDR PA2 & PA6)

Budget: 51.982,40 €