



26<sup>th</sup> Conference of the Working Group Sustainability/ Soil Protection of the Working Community of the Danube Regions

# Recent Activities of Priority Area 06

EU Strategy for the Danube Region

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Priority Area 06 Coordinator EU Strategy for the Danube Region

Tulln, 10.04.2019











## PA 06 Studies

### **Ecological Connectivity**

Objectives of the Study:

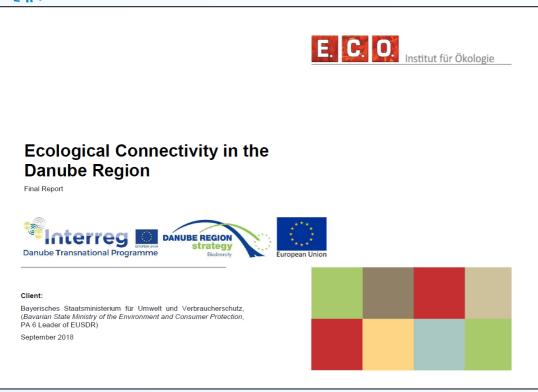
- Inventory of Ecological Connectivity in the Danube region
- Identifying needs for action and concrete proposals for projects to increase the understanding of the role of Ecological Connectivity along the Danube in all habitats (air, water, land).
- Identification of relevant political and administrative actors in the regions, including their impact mechanisms develop links for cooperation with neighboring regions and strategies such as the EUSALP and other MRS
- Anchoring concept of EU Green Infrastructure (GI) in the Danube Region
- Contribution to the objective of a Trans-European Green Infrastructure Network (TEN-G) along the Danube.













### Content

- 1. Introduction
- 2. Ecological Connectivity in the DRB: Status Quo
- 3. Existing ecological corridors and connectivity elements in the DRB
- 3. Existing Gaps and challenges
- 4. Project outline for enhancing ecological connectivity
- 5. Concluding recommendations
- 6. References

Available for download at www.danube-nature.eu (/files)





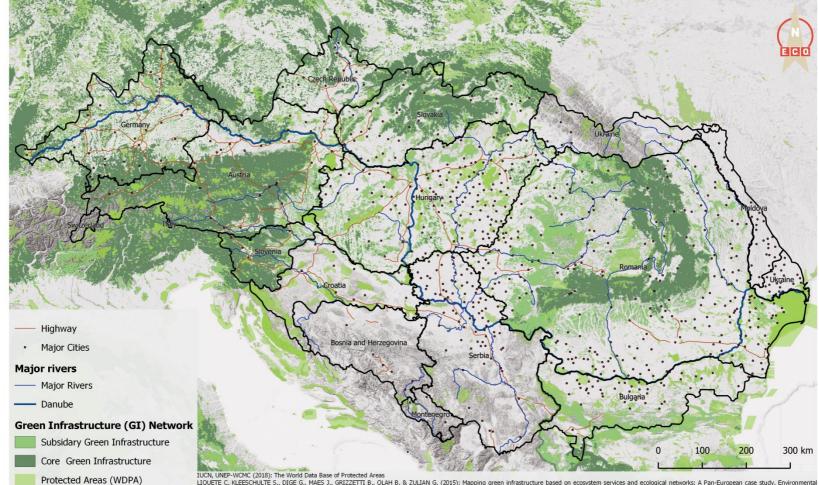








Ecological Connectivity in the Danube Area



IUCN, UNEP-WCMC (2018): The World Data Base of Protected Areas LIQUETE C. KLEESCHULTE S., DIGE G., MAES J., GRIZZETTI B., OLAH B. & ZULIAN G. (2015): Mapping green infrastructure based on ecosystem services and ecological networks: A Pan-European case study. Environmental Science & Policy 54, 268–280 Map data © 2018 Google





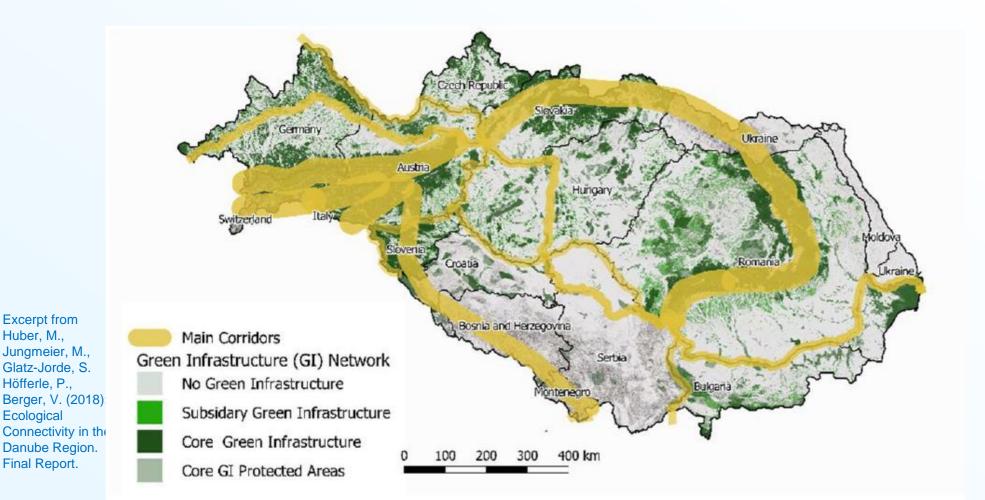
Excerpt from Huber, M., Jungmeier, M., Glatz-Jorde, S. Höfferle, P., Berger, V. (2018): Ecological Connectivity in the Danube Region. Final Report.







Main corridors of transnational importance in the DRB





Excerpt from

Jungmeier, M.,

Glatz-Jorde, S.

Danube Region.

Final Report.

Höfferle, P.,

Ecological

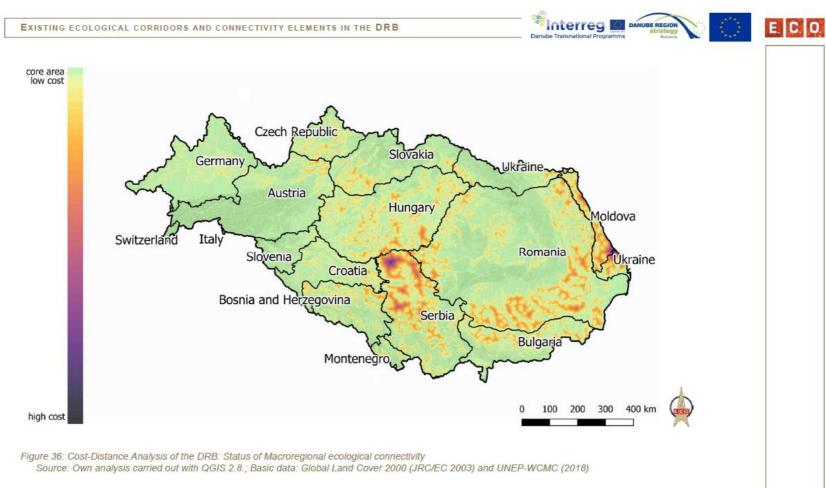
Huber, M.,











Excerpt from Huber, M., Jungmeier, M., Glatz-Jorde, S. Höfferle, P., Berger, V. (2018): Ecological Connectivity in the Danube Region. Final Report.

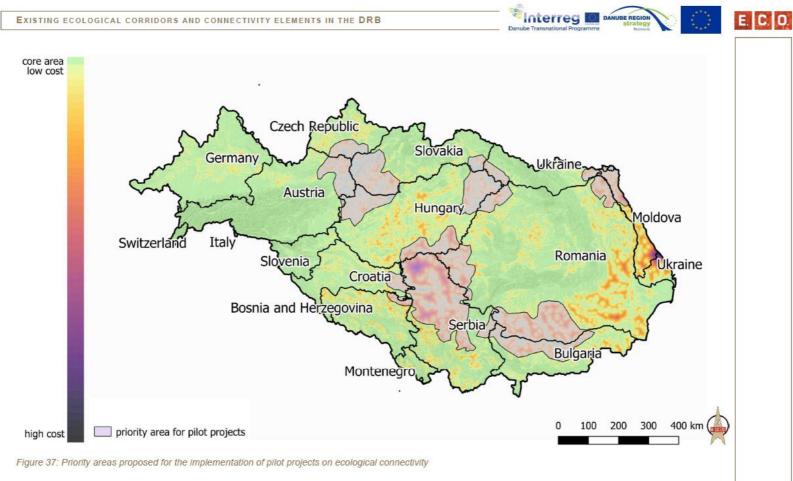












Excerpt from Huber, M., Jungmeier, M., Glatz-Jorde, S. Höfferle, P., Berger, V. (2018): Ecological Connectivity in the Danube Region. Final Report.











## PA 06 Studies

### **Ecosystem Services**

Objectives of the Study:

- Inventory of ESS in the EU and the EUSDR States: Systematics and available data for the evaluation of ecosystem services and their economic and social benefits for humans, differentiated according to suitable sub-ecosystems (e.g: forests, soils, river and floodplains, cultural landscape, etc.)
- Analyses of ESS evaluation methods in the countries, starting points for harmonization (if necessary).
- Presentation of the economic and social benefits (value) of ESS in the Danube Region on basis of available data sources and by selecting and applying suitable assessment methods for ESS in the Danube Region
- Identification of "Green Hot Spots" in the Danube Region: Regions with significantly high ESS according to the selected measurement method.
- Results of study as a valuable tool for further implementation of the EUSDR for all priority areas as well as for investment and planning decisions









### 2018

#### ECOSYSTEM SERVICES IN THE DANUBE REGION



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### Bayerisches Staatsministerium für Umwelt und Verbraucherschutz



### Content

- 1. Introduction and subject of the analysis
- 2. Definition of ES in a EU wide process
- 3. Classification and valuation methods of studies in the research area (all 14 Danube Region Countries)
- 4. Comparative analysis of ES valuation in the research area
- 5. Description of selected areas in the Danube area with high level of ES (,ES hot spots')
- 6. Recommendations for methodological integration of ES into investment and planning decisions of the EUSDR
- 7. References

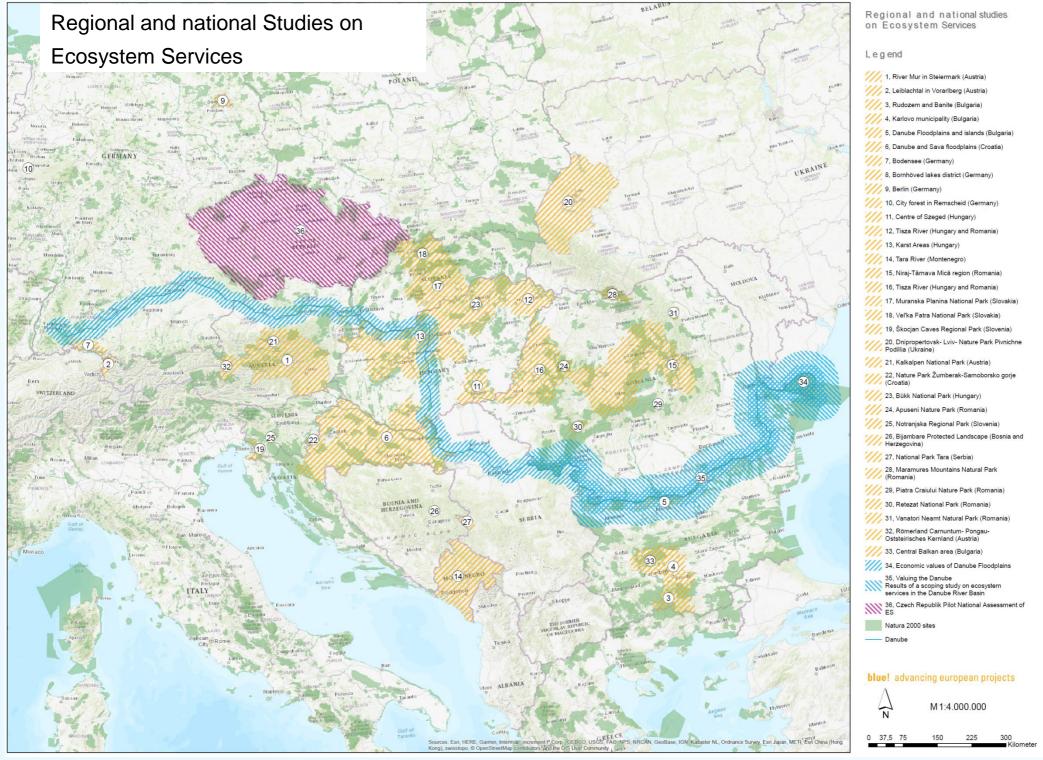
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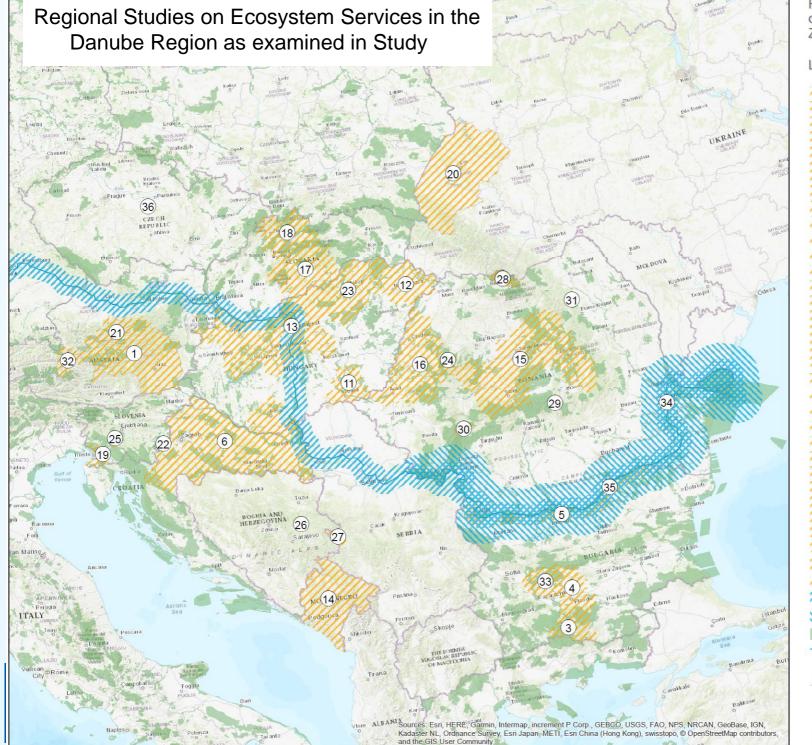




This project is co-financed by the European Union

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#### Regional studies on Ecosystem Services Zoom in Danube region

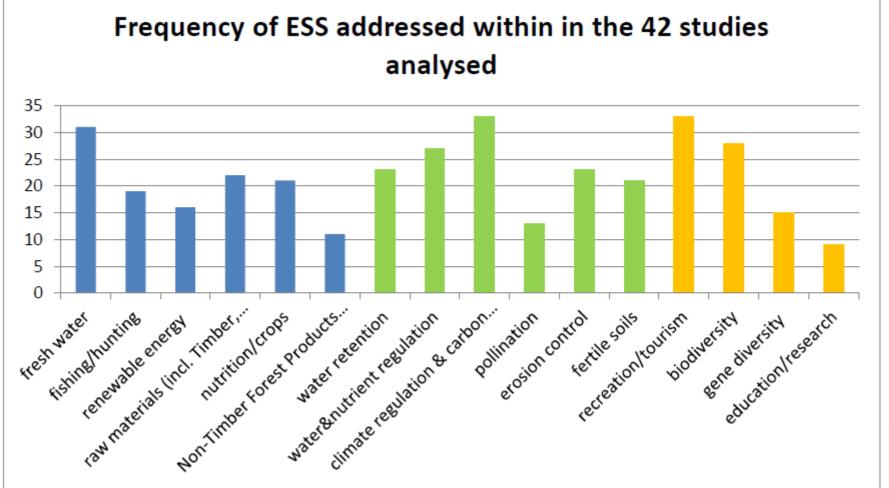
#### L e g end

/// 1, Ri	ver Mur in Steiermark (Austria)
//, 2, Le	iblachtal in Vorarlberg (Austria)
//, 3, RI	udozem and Banite (Bulgaria)
//, 4, Ka	arlovo municipality (Bulgaria)
/_ 5, Da	anube Floodplains and islands (Bulgaria)
/ 6, Da	anube and Sava floodplains (Croatia)
/ 7, Bo	odensee (Germany)
// 8, Bo	ornhöved lakes district (Germany)
// 9. Be	erlin (Germany)
	City forest in Remscheid (Germany)
	Centre of Szeged (Hungary)
	Fisza River (Hungary and Romania)
	Karst Areas
5 C	Tara River (Montenegro)
	viraj-Târnava Mică region (Romania)
	Fisza River (Hungary and Romania)
	/uranska Planina National Park (Slovakia)
	/el'ka Fatra National Park (Slovakia)
	Śkocjan Caves Regional Park (Slovenia)
	Dipropertovsk- Lviv- Nature Park Pivnichne Podillia
(Ukra	
// 21, H	Kalkalpen National Park (Austria)
// 22, M	vature Park Žumberak-Samoborsko gorje (Croatia)
// 23, E	3ükk National Park (Hungary)
// 24, A	Apuseni Nature Park
//, 25, N	Notranjska Regional Park (Slovenia)
//, 26, E	ijambare Protected Landscape (Bosnia and Herzegovina)
//, 27, N	Vational Park Tara (Serbia)
// 28, N	Aramures Mountains Natural Park (Romania)
//, 29, F	Piatra Craiului Nature Park (Romania)
//, 30, F	Retezat National Park (Romania)
// 31, V	/anatori Neamt Natural Park (Romania)
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// 33, 0	Central Balkan area (Bulgaria)
//, 34, E	Economic values of Danube Floodplains
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Kilometer

















	1A	1B	2	3	4	5	6	7	8	9	10	11
	Waterways mobility	Rail- road Air Mobility	Sustaina ble Energy	Culture & Touris m	Water Quality	Enviro n- mental Risks	Biodiversity& Landscapes	Knowledge society	Competitive- ness of Enterprises	People & Skills	Institutional Capacity & Cooperation	Security
Type of ESS												
Provisioning services												
fresh water	Х		X	X	X		X	X	X	X	Х	Х
fishing/hunting				Х			X					
renewable energy			Х					Х	X	Х	Х	Х
raw materials (incl. timber, wood)			x					х	х	x		х
nutrition/crops			Х	Х	Х		X		Х	Х	Х	Х
Non-Timber Forest Products				X			Х		X	Х		
Regulating services		_			_		_			_		
water retention	X	Х			X	X	X				Х	
water&nutrient regulation					X				X		X	Х
climate regulation & carbon sequestration			х	x	х	х	x		х		х	х
pollination			Х	X			X			Х		
erosion control	Х	Х			X	Х	X			X		Х
fertile soils			Х	Х	Х	Х	X			Х		
Cultural services							·					
recreation/tourism	Х	Х		X			Х	Х	Х	X	Х	
biodiversity			Х	Х	Х	Х	Х	Х	Х	Х	Х	
gene diversity			Х	X	Х	Х	X	Х	X	X		
education/research								Х	х	Х	х	Х

Table 4: Relations between ecosystem services and EUSDR Priority Areas (own illustration)











### PA 06 / EUSDR current activities

Revision of the EUSDR Action Plan

- Process started 2018, linked with new EU programming period 2020+
- Steering Group involvement in Nov. 2018
- National consultations ongoing, involvement of civil society
- Open online consultation until 20. May 2019 under <u>www.danube-region.eu</u> (News section)
- Possibility to participate at Public Hearing on 27<sup>th</sup> June 2019 in Bucharest (EUSDR Annual Forum)











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