

# Protected Areas – Cornerstones of Ecological Connectivity in the Carpathians and Beyond



28-30 September 2021, Visegrád

Miklós Marton  
EU Strategy for the Danube Region  
Priority Area 6: Biodiversity, Landscapes and Air & Soil Quality

Macro-Regions:  
Adriatic and Ionian, Alpine, Baltic, Danube



# Macro Regional Strategies in EU

Source:

<https://s3platform.jrc.ec.europa.eu/eu-macro-regional-strategies>

# EU Strategy for the Danube Region

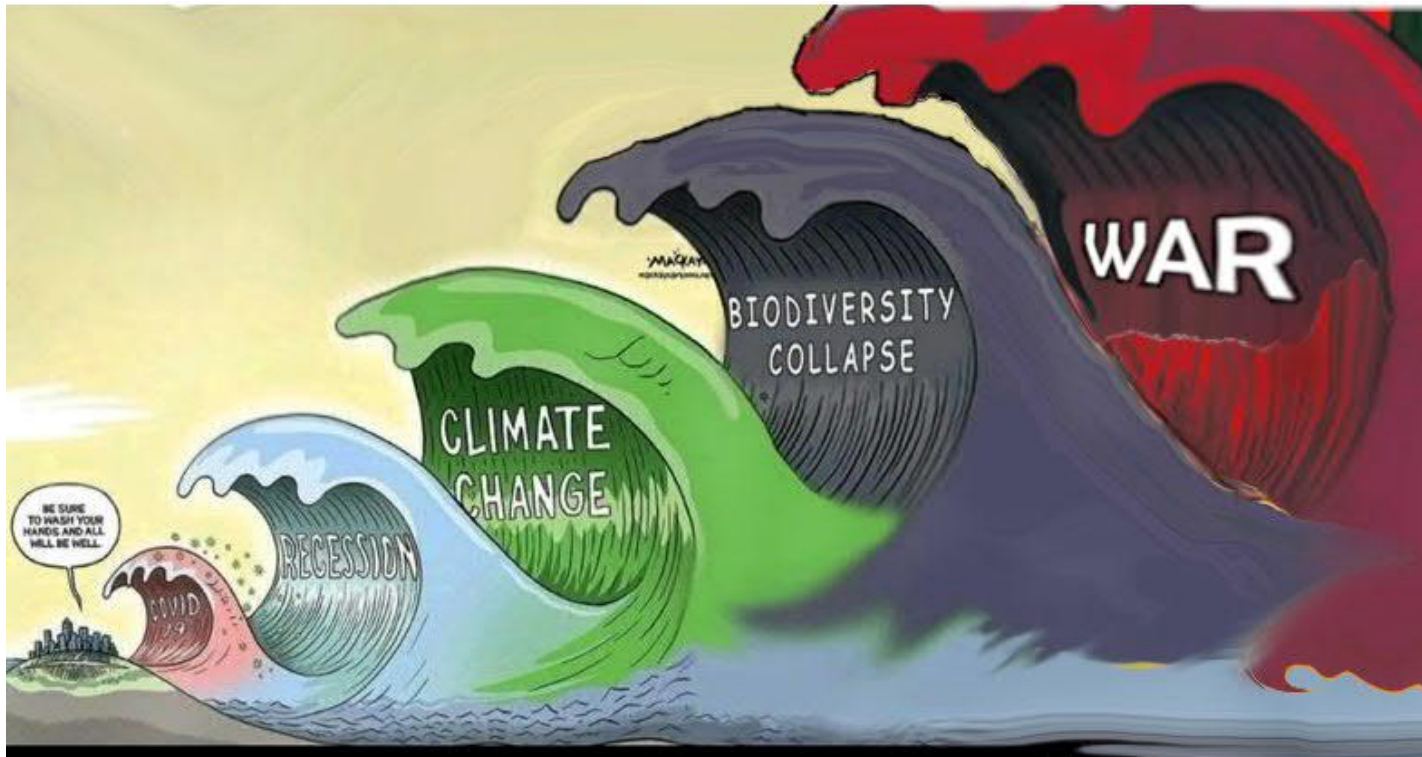


# EU Strategy for the Danube Region

Priority Area 6: Biodiversity, Landscapes and Air & Soil Quality



„Be sure  
to wash  
your hands  
and all  
will be well“



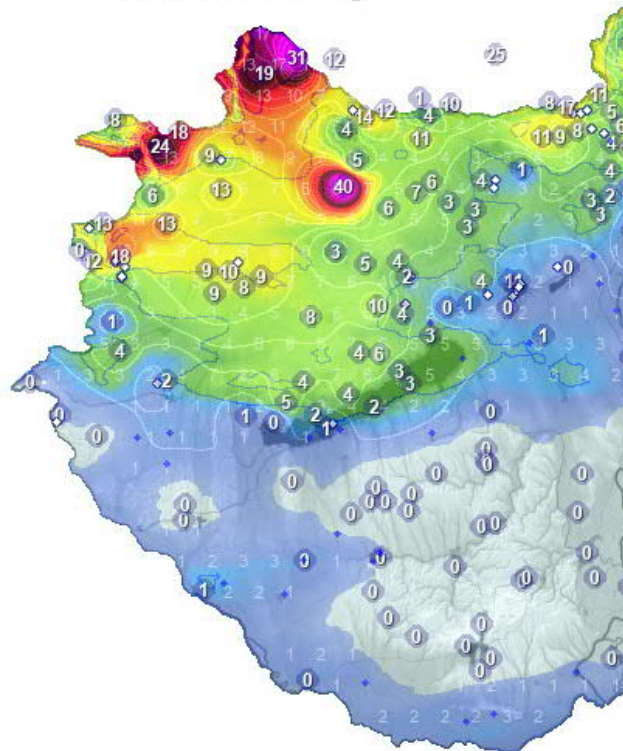
Sequential waves:

- COVID-19,
- RECESSION,
- CLIMATE CHANGE,
- BIODIVERSITY COLLAPSE,
- WAR

# Magyarország radar-korrelált kompozit csapadéktérképe

Az Időkép.hu vizualizációjában

Időszak - 2021.09.16 08:15 -  
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Warming Stripes for Hungary from 1901-2020

Sources: <https://www.idokep.hu/csapadek>  
Fotó: [Papp László tűzoltó őrmester/BM OKF](https://www.idokep.hu/csapadek)  
<https://showyourstripes.info/>



„...range of protected areas along Danube river are very important,  
just like stepping stones...”

Mag. Georg Frank, international seminar in Budapest 28.03.218: Danube Ecological Corridor

Source: <https://eionet.kormany.hu/akadalymentes/danube-ecological-corridor>

What potentials shall we link?

Who are our allies?





# Carpathian Convention

## ACTIVITIES

Biodiversity

Large Carnivores

Spatial Development

Water and River Basins

Agriculture and Rural  
Development

Forests

Tourism

Industry, Energy, Transport and  
Infrastructure

Cultural Heritage and Traditional  
Knowledge

Assessment and Monitoring

Awareness Raising, Education  
and Participation

Climate Change

Projects

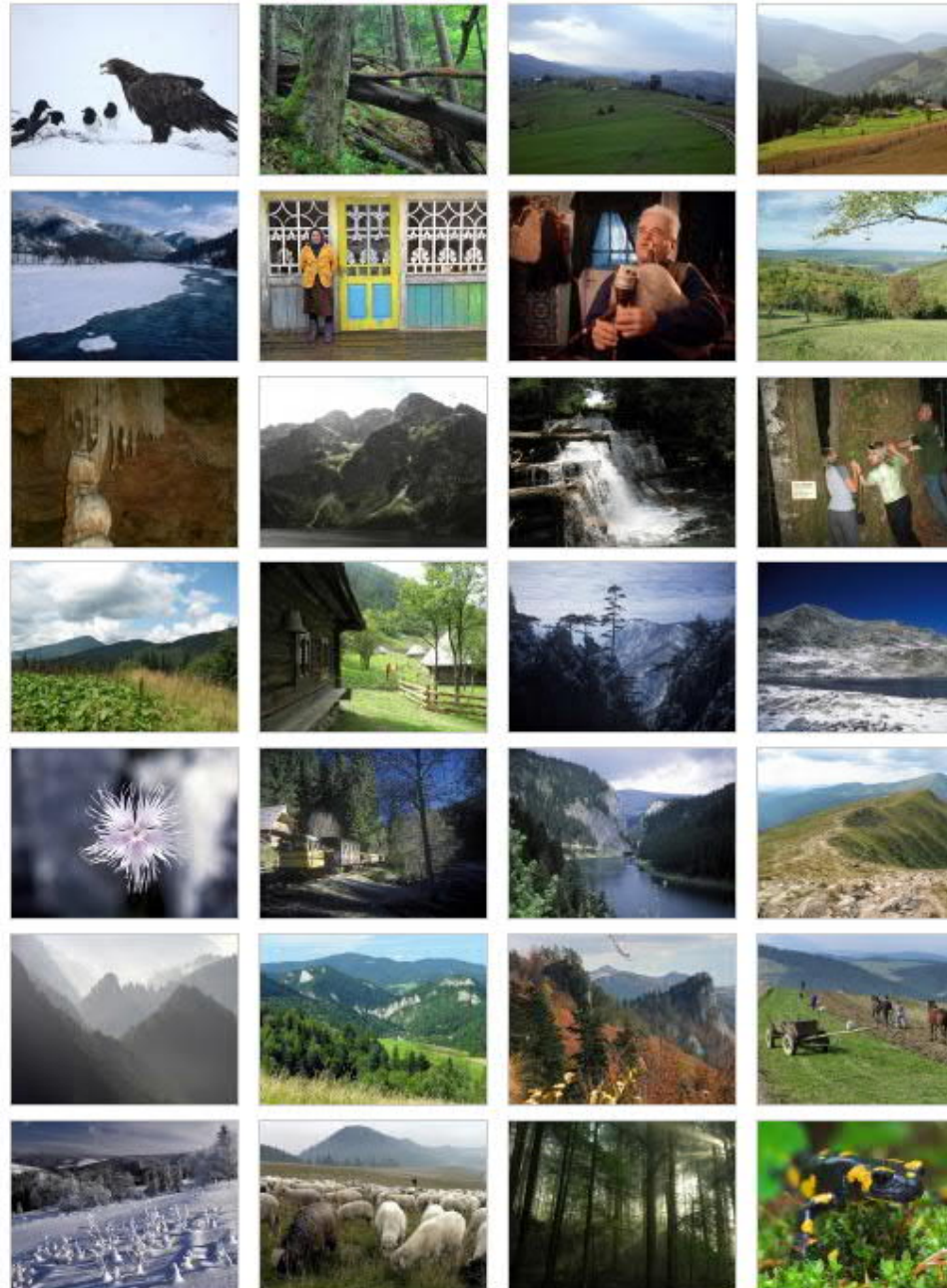


The Carpathian Convention is a subregional treaty to foster sustainable development and protection of the Carpathian region. It has been signed in 2003 by seven Carpathian states (Czech Republic, Hungary, Poland, Romania, Serbia, Slovak Republic, Ukraine).



Source: <http://www.carpathianconvention.org/>

## IMPRESSIONS OF THE CARPATHIANS



Source: <http://www.carpathianconvention.org/>

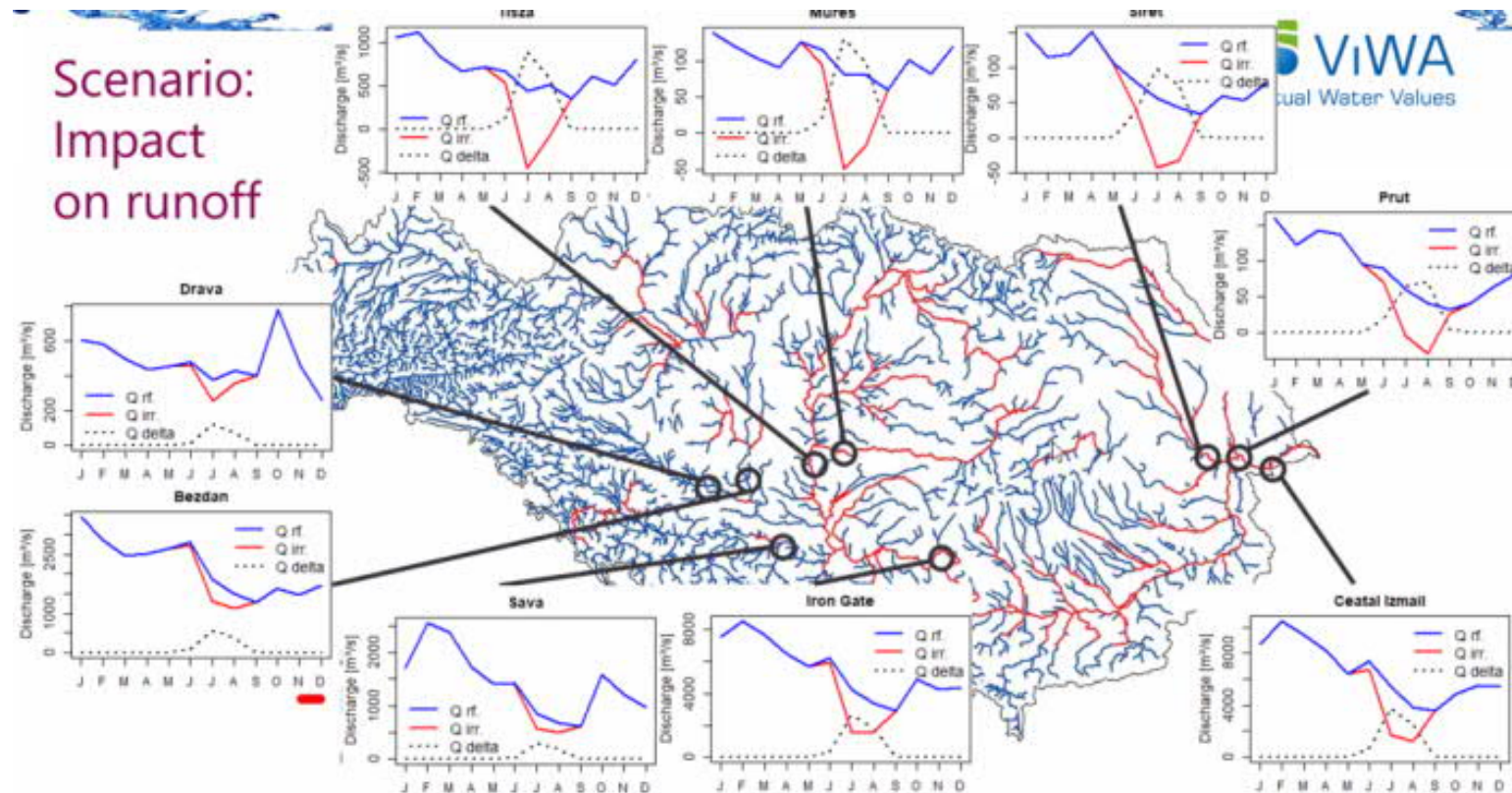
# Agriculture



Grassland and cropland together make up 39 % of Europe's land cover

Sources: <https://www.eea.europa.eu/themes/agriculture/intro> and  
[https://eionet.kormany.hu/download/a/a5/b2000/Scenarios\\_for\\_the\\_nature\\_of\\_Slovakia.pdf](https://eionet.kormany.hu/download/a/a5/b2000/Scenarios_for_the_nature_of_Slovakia.pdf)  
photo by: Archive of the PLA-BR Poľana Administration

# Agriculture



Effects of possible irrigation of corn fields (500 mm / year)  
on discharges of rivers (signed with red line)

Source: presentation of Mr Wolfram Mauser, (Ludwig-Maximilians Universität, Munich)  
at 29-30 June 2021 online consultation of ICPDR on Danube River Basin Management Plan  
<https://eionet.kormany.hu/on-milyen-dunat-akar-mondja-el-velemenyet>

# Climate experts

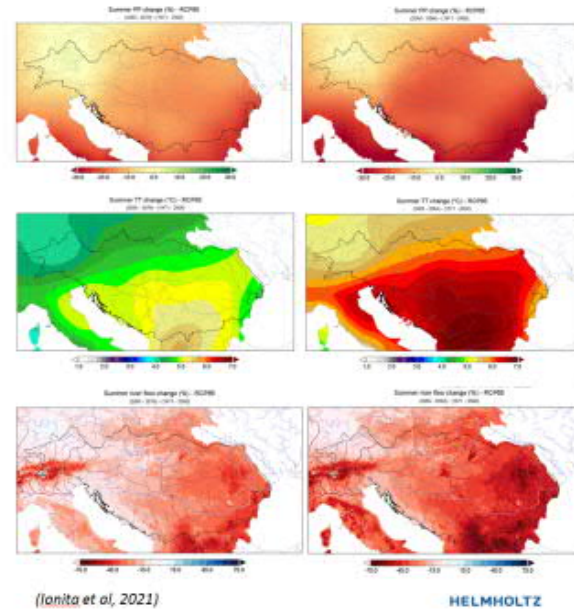


## Projections of climate change impacts in the Danube River basin

If climate targets are not met, dramatic changes will occur in summer by the end of the century:

- Decrease of precipitation – up to 30%
- Increase of temperatures – up to 7°C
- Decrease of Danube discharge – up to 75%

**Nature based solutions for adaptation to climate change – to be urgently implemented**

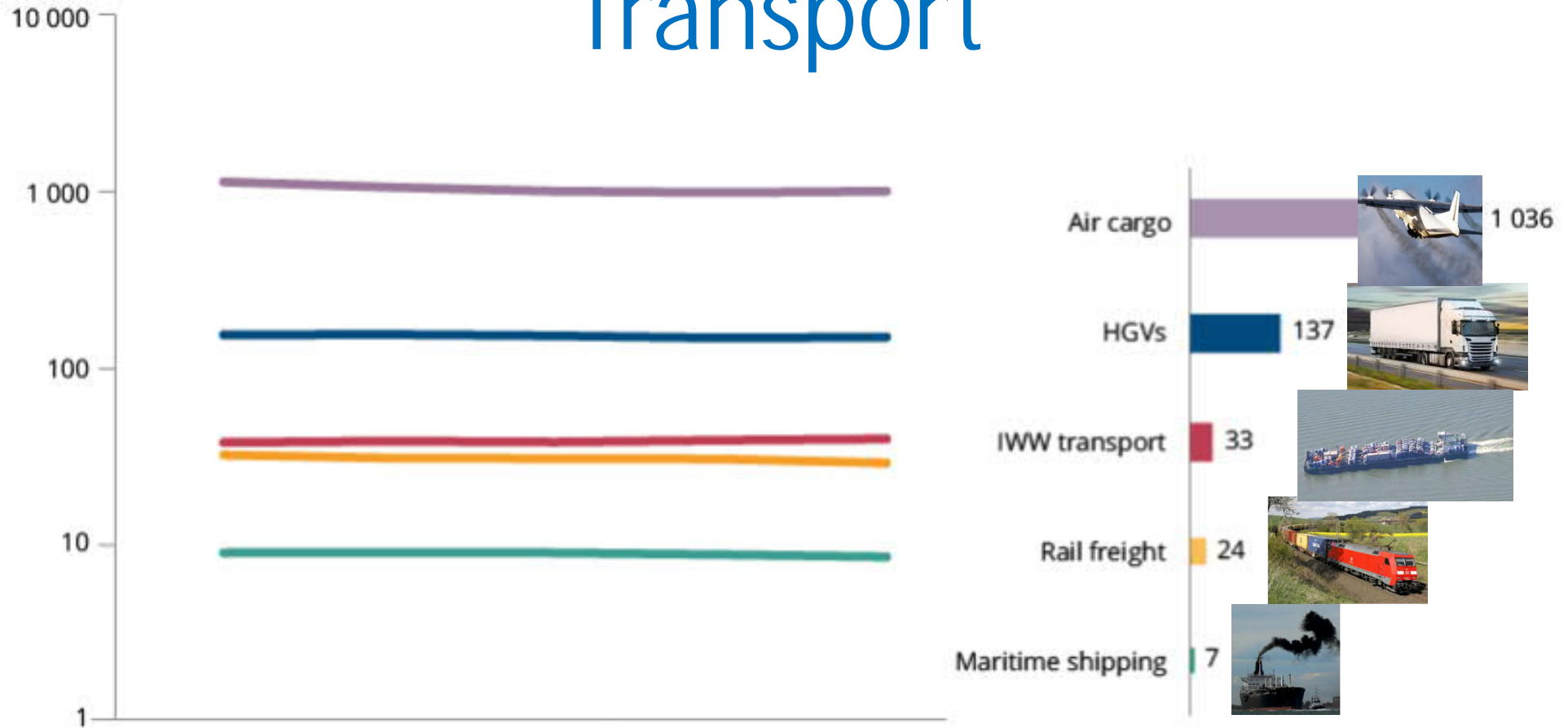


Following business as usual trend may

- Decrease of precipitation – up to 30%
- Increase of temperatures – up to 7 °C
- Decrease of Danube discharge up to 75%

Source: presentation of Cristina Sandu (International Association of Danube Research) at 29-30 June 2021 online consultation of ICPDR on Danube River Basin Management Plan <https://eionet.kormany.hu/on-milyen-dunat-akar-mondja-el-velemenyet>

# Transport



Average greenhouse gas emission by motorised modes of freight transport, EU-27, 2014-2018  
gCO<sub>2</sub>e per tkm  
on logarithmic scale

Inland navigation emits one and a half times the greenhouse gas load of railways

Source:

<https://www.eea.europa.eu/publications/rail-and-waterborne-transport/rail-and-waterborne-best> and  
<https://eionet.kormany.hu/inland-navigation-causes-almost-one-and-a-half-times-the-greenhouse-gas-load-of-railways>

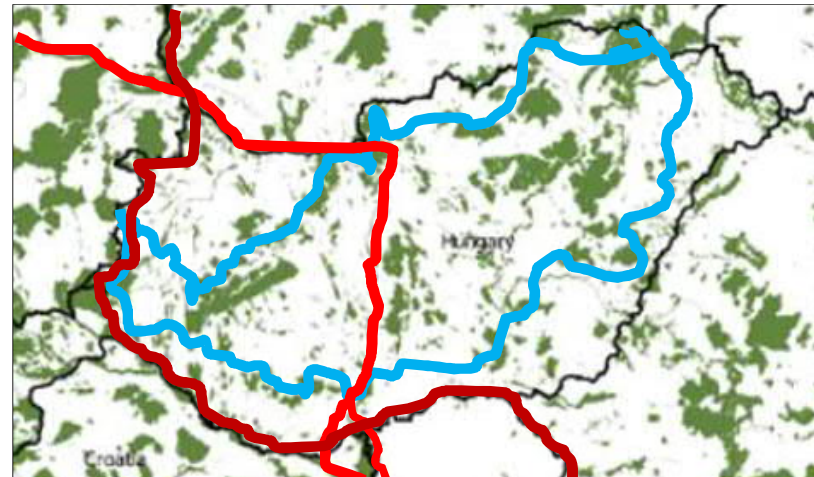
# Tourism



# Tourism



Protected area network



Main active tourism routes

- EuroVelo 6 (Danube)
- EuroVelo 13 (Iron Curtain Trail)
- National Blue Trail (Kék Túra)

Sources:

- Ecological Connectivity in the Danube Region. Final Report, 2018 Figure 21
- [www.kektura.hu](http://www.kektura.hu)
- <https://en.eurovelo.com/ev6>
- <https://en.eurovelo.com/ev13>



# Tourism

Biker tourists in 2016 between Passau and Wien,  
who has spent at least 5 nights there,  
in average spent at site

65,7 euros per day.



Source:

Presentation of Mr Michael Meschik (BOKU) at EcoVeloTour project event in Budapest, July of 2018

<https://eionet.kormany.hu/eurovelo-es-okoturizmus-fejlesztések-ausztriában>

and

<https://eionet.kormany.hu/download/4/a5/42000/2018-07-06%20EcoVeloTours%20Austria%20Meschik.pdf>

<https://www.outdooractive.com/en/route/bicycle-touring/danube-cycle-tour-north-shore-passau-wien/1528883/#dmlb=1>

# Tourism

Cruise ship passengers  
at Belgrade, Serbia  
in average spent at site

6 euros per day.

Source:

Report of Mr Boris Čamernik (Danube Competence Center) at  
EcoVeloTour project event on the 3rd of October 2018, Budapest  
about the survey made by Tourist Organization of Belgrade

<https://elonet.kormany.hu/ecovelotour-konferencia>  
<https://www.belgrade.com/package/Belgrade-River-Cruise/>



# Spatial planners, urban designers and developers

Areas near green areas  
are more attractive  
– in all respect

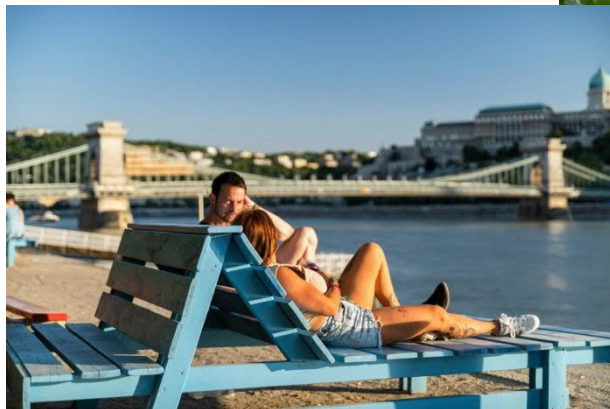


Sources:

- <https://www.portfolio.hu/ingatlan/20170927/duna-parti-lakasok-epulnek-a-fejlesztok-kedvenc-keruleteben-263389>
- <https://magazin.koltozbe.hu/2020/03/16/dunai-panoramas-csodas-lakasok>
- <https://www.budapart.hu/hu>

# Urban developers

Areas near green areas  
are more attractive  
– in all respect



Sources of photos:

- Danube bank at Parliament in May 2020. Miklos Marton
- 2021 Valyo / Bognár Benedek / Simon Zsuzsi
- 2021 Bartha Dorka

# Urban developers

Areas near green areas  
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Sources:

- <https://welovebudapest.com/cikk/2021/7/23/szabadido-romai-parti-plazs-szabadstrand-nyilik-a-romai-parton>
- <https://welovebudapest.com/cikk/2021/7/5/szabadido-dunai-tengerpart-es-igenyes-gasztro-megnyilt-a-sho-beach-a-budaparton>

# Urban developers



Areas near green areas  
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Turbulent times

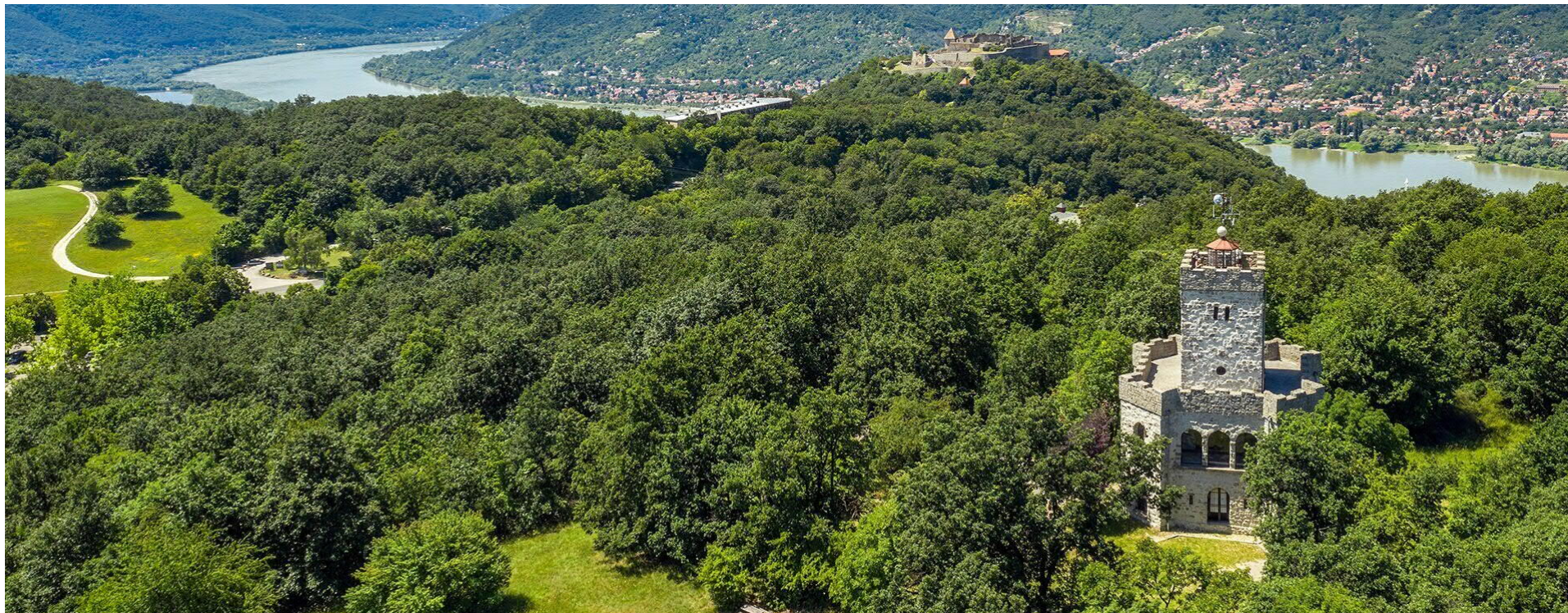
Allies

Friends and supporters



Linking protected areas, countries  
and also sectors

# Thank you for your attention!



Marton Miklós [miklos.marton@am.gov.hu](mailto:miklos.marton@am.gov.hu)