



# EUSDR Priority Area 4 connected developments at the Framework Convention on the Protection and Sustainable Development of the Carpathians

Harald Egerer<sup>1</sup>, Sandor Szalai<sup>2</sup>

<sup>1</sup> Permanent Secretariat of Carpathian Convention

<sup>2</sup> Szent Istvan University



# Content

- Carpathian Convention has several documents, publications in connection with water quality. The following topics are mentioned in the presentation:
  - Sustainable and integrated water/river basin management
  - Agriculture
  - Forestry
  - Cultural heritage
  - Climate change

# The Convention as an institution



**Conference of the Parties**

**Carpathian Convention  
Implementation Committee  
CCIC**



**WG  
Biodiversity**

**WG Spatial  
Development**

**WG  
SARD**

**WG Forest  
Management**

**WG Industry,  
Energy,  
Transport,  
Infrastructure**

**WG Tourism**

**WG Cultural  
Heritage and  
Traditional  
Knowledge**

**WG  
Climate  
Change**

**Carpathian  
Network of  
Protected  
Areas  
(CNPA)  
Steering  
Committee**



# Sustainable and integrated water/river basin management

- Partners: Carpathian Wetland Initiative and ICPDR
- Key documents: Carpathian Wetland Handbook, Tisza River Management Plan



# Agriculture

- Protocol on Sustainable Agriculture and Rural Development

- Article 15

Prevention of adverse impacts on air, water, soil, landscape and biological diversity

The Parties shall apply the precaution and prevention principles by assessing and taking into consideration possible influences, including cumulative effect, on air, water, soil, landscape and biological diversity of those projects and activities that are likely to have adverse impacts on the Carpathians.



# Forestry

- Protocol on Sustainable Forest Management
  - Article 12: Improvement of the protective forest functions
  - Article 14: Forestry and climate change
  - Article 15: Social functions of forests
  - Article 16: Forestry, wildlife and ecological networks
  - Article 18: Coordinated scientific research and exchange of information

# Forestry

- Strategic Action Plan for the Implementation of the Forest Protocol
  - Action 7. 1.

Adopt measures to improve the protective functions of forests in general, such as better preventing floods, soil erosion, landslides, avalanches and rock falls by promoting appropriate forest management methods, to enhance stability and resistance to natural and anthropogenic disturbances.

Result expected

    - a) Experience shared on measures aimed at enhancing forests protective functions;
    - b) Measures aimed at improving protective forest functions adopted for the Carpathian region;
    - c) Improved capacity of forest ecosystems to accomplish protection functions, like soil protection, better water sources, prevention of soil erosion, landslides, torrents and floods and conservation of biodiversity.

# Cultural Heritage



- In the frame of Ramsar Convention Secretariat's project "Conservation of the natural and cultural heritage in wetlands: Global leadership for an integrated approach through the Ramsar Convention", the Carpathian Wetland Initiative (CWI) published an electronic brochure on Carpathian cultural heritage in wetlands





# Climate change

- Strategic Agenda on Adaptation to Climate Change in the Carpathian Region
  - Water quality issue is several time mentioned
    - Precipitation changes
    - Impact on water
    - Connection to Water Framework Directive
    - Climate projections

# Outlook on climate change adaptation in the Carpathian mountains

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# Water

- \* Reduced snow cover
- \* Sudden&heavy rainfalls
- \* Changes in precipitation pattern → increase: the risk of floods, erosion, landslide risk
- \* Declining river water levels → drought events
- \* Declining groundwater level → availability&quaility of drinking water



(Source: Saida Wernin)

# Water

- \* Adjusting permits for water use or pollution discharge
- \* Introducing smart irrigation systems
- \* Planting forests and combating illegal logging in catchment areas in order to reduce nutrient loading and soil erosion
- \* Restoring floodplains near rivers and streams to buffer extreme runoff and reduce flows of nutrients
- \* Ensuring legal frameworks are in place to support planning and implementation of adaptation measures



Thank you for your kind attention!