Adapting to Climate change in relation to WATER

Changes in the qualitative and quantitative parameters of waters
in the light of climate change

28 November 2023

Budapest, Benczúr u. 45

Organized by

EUSDR PA4 "Water Quality" and

EUSDR PA5 "Environmental Risks"

The meeting link is: https://us06web.zoom.us/j/84013572384?pwd=miC8bbOlPbJlqFRmFzzzcapyN7qqTB.1
The event is organized in person, but some speakers would join online.

Background:

The EUSDR Water quality priority area has outlined seven main actions in 2020 in the updated Action Plan. Out of the seven one of the actions is focusing on climate change issues with the following main target areas:

- **Implement water quality measures of the ICPDR Strategy on Adaptation to Climate Change**
- Promote concrete measures to control water abstraction and groundwater overexploitation
- **Promote the establishment and maintenance of green infrastructure and natural water retention measures (NWRMs)**
- **Promote water related measures in urban planning**
- **Raise farmers' and public awareness about the importance of soil moisture and soil water retention capacity in soil fertility under changing climate conditions**

In the frame of the planned conference, EUSDR PA4 aims to focus on the above highlighted topics/targets via the introduction of related challenges and showcase of good solutions/projects.

Floods and drought and low flow events, as well as water scarcity situations, are likely to become more intense, longer and more frequent for the next period due to climate change as well as socio-economic pressure. The EUSDR Environmental Risks priority area has outlined five main actions in 2020 in the updated Action Plan. The 5th are especially dedicated to climate change, namely "Anticipate regional and local impacts of climate change" with the target of "Support the implementation of the CCA by organizing an event focusing on CC effects in risk management planning" and the following subactivates have been identified:

- **Facilitate the harmonisation** and the coordination of the climate change adaptation (CCA) strategies and action plans to boost international collaboration within the Danube Region;
- **Exploring direct effects** of climate change and implement **mitigation and adaptation measures** in environmental risk management plans;
- **Facilitate cooperation** with regard to the use of climate **change data and projections from Copernicus Climate Change Service** (C3S) and its Climate Data Store (CDS);
- Support **research** in the field of climate change adaptation;
- Support natural (small) **water retention measures**

08:45 – 09:00 Registration and connection of online participants

09:00 – 10:30 Welcome and setting the scene

09.00 – 09.15 **Welcoming words on behalf of the EU Strategy of the Danube Region Priority Areas (PA04 & PA05)**
Danka Thalmeinerová, Priority Area Coordinator of Water Quality PA4
Márton Pesel, Priority Area Coordinator of Water Quality PA4
László Balatonyi, Priority Area Coordinator of Environmental Risks PA5

09.15 – 10.30 **Setting the scene**
Johannes KLUMPERS, DG CLIMA
Andreea Strachinescu, DG MARE
Willem Maetens, EU JRC
Adam Kovács, ICPDR

10:30 – 11:15 SECTION I.
Nature-based solution, green infrastructure and water retention measures

10.30 – 10:40 **Keynote: NBS HUB (TBC)**
GWP CEE

GOOD PRACTICES

10.40-10:50 **Water retention in rural areas, LIFE MICACC, Pilot Ruzsa**
Petra Csizmadia, Ministry of Interior, Hungary

10.50 – 11:00 **Managed Aquifer Recharge solutions for protection water resources endangered by climate change, Interreg Deepwater CE project**
Andrea Vranovska, Water Research Institute, Slovakia

11.00 – 11:10 Q&A

11:10 – 11:30 Coffee break

11:30 – 12:15 SECTION II.
Importance of soil moisture

11.30 – 11:40 **Keynote: Changes in water quantity – the increasing problem of groundwater reduction in Hungary and in Europe**
Dr. László Koncsos, (BME Department of Water Utilities and Environmental Engineering)

GOOD PRACTICES

11.40 – 11.50 **Challenges / opportunities of water retention and land use change in Bereg on Tisza floodplain**
Péter Kajner, WWF HU

11.50 – 12.00 **Advantages of the utilisation of sewage sludge in the improvement of the retention capacity of soils**
TBC

12.00 – 12.05 LIFE21-ENV-ES-LIFE-H2OLOCK (renewable energy in agricultural water reservoirs), Spain, Arana Water Management

12.05 – 12.15 **Q&A**

12:15 – 13:15 Lunch break

13:15 – 15:15 SECTION III.

Changes in the water quality of the Danube and climate adaptation measures

13.15 – 13:30 **Keynote: Danube Water Balance basin-wide cooperation**
Norbert Csatári, OVF

GOOD PRACTICES

Challenges of heavy rain and related flash flood events in urban areas, cooperation of cities and local companies for climate change adaptation

13.30 – 13.45 Dr Béla Viskolcz, UNIMISKOLC, LIFE19 CCA/HU/001320 LIFE-CLIMCOOP

13.45 – 14.00 Orsolya Barsi, Climate Strategy Head of Unit, Budapest LIFE20CCA/HU/1774 Urban Runoff

14.00 – 14.15 -Raquel Pérez Varela, Horizon programme: WATERUN project manager, Aimen, Spain

Development and implementation a tool for the identification of critical source areas of urban diffuse pollution

14.15 – 14.30 -Jacek Zalewski, RetencjaPL-digital rainwater management, Poland

14.30 – 14.45 Coffee break

14.45 – 15.00 **Challenges of heavy rain and related flash flood events in rural areas**
Petra Szatcker, LIFE20 CCA/HU/001604 LIFE LOGOS 4 WATERS

15.00 – 15.15 **To reduce the losses in the natural and built environment caused by heavy rain**
INTERREG RAINMAN project, Gábor Harsányi, KÖTIVIZIG)

15.15 – 15.30 Q&A

15.30 – 15.45 **VOICE of the YOUNGSTERS (**TBC)

15.45 – 16.15 **Wrap up and Policy Uptake**

16.15 **End of Conference**