

## **Ministry of Interior**

## **Challenges in DRR in Hungary**

## Péter Kovács

Water Director

High Level Political Forum 2020 Virtual Side Event Water-related Disaster Risk Reduction (DRR) under the COVID-19 Pandemic Integrating Actions towards Full Achievement of SDGs







The quantity of waters are changeable: sometimes the too much water, sometimes lack of waters can cause damages at the same sites











### What is the role of water management?

- Timely and sufficient availability of water is needed for the provision of safe water, sanitation and hygiene
- Water is needed to tackle other possible impacts of COVID-19 (e.g. poverty, economic downtown, food & energy insecurity)
- $\Rightarrow$ Water is essential for recovery and prevention
- 60% of global freshwater flow comes from transboundary basins



#### **International cooperation on water management**

- Danube River Protection Convention (29 June 1994, Sofia (Bulgaria)) International Commission for The Protection of the Danube River (ICPDR)
- The UNECE Water Convention is a unique global legal framework (since 2016) and an intergovernmental platform for peaceful management of transboundary waters, to prevent disputes and also serves as a practical instrument for day-to-day cooperation in transboundary basins.
- Due to COVID-19 pandemic, provision of safe and sufficient water and adequate sanitation and hygiene to all is key to protect human health and save lives. The Convention's Protocol on Water and Health, jointly serviced by UNECE and WHO-Europe, could be used during the recovery phase and beyond to prepare for and prevent possible future spread of this and other infectious diseases, while ensuring that vulnerable groups are not left behind.











### Providing flood safety Building of flood protection dykes

Adaptation to water damage caused by climate change Building flood-peak reducing reservoirs, Flood control reservoirs in Tisza valley (VTT)

Recount of Design Flood level -flood safety deteriorated

The deterioration of flood safety must be stopped Floodplain management plans Improving of flood safety Strategy of differentiated flood safety









### **Review of 1st Flood Risk and Hazard Maps**

Establishing evaluation(2016-2018) Updating preliminary flood risk assessment and calculating hazard maps (2018-2019) Flood risk assessment, preparation of flood risk maps and making flood risk management(2019-2022)



#### Review in every 6 years!!



AGENDA/ MAIN DEADLINES	2016	2017	2018	2019	2020	2021
Revision of the preliminary flood risk assessments						
Revision of the flood hazard and risk maps						
Revision of the flood risk managing plans						



## **Drought monitoring system**

### Detection:

- 79 monitoring stations (2019)
- GPRS remote system
- Database (OVF)
- Web service / queries

## Evaluation:

- Hungarian Drought Index (HDI
- Measured soil moisture
- Evaluation of water shortag
  (based on measured data)

### Intervention practices:

- Create the possibility of government assistance
- Alarm System (I., II., III. levels)
- <u>Preventive</u> water management practices
- Water Control/Water restriction, support irrigation

**Research and Development (analyses)** 





water balance.







## EU Strategy for the Danube Region Environmental Risks Priority Area







#### Senior Advisor

PA5 HUN Co-Coordination

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Environmental Risks Priority Area (PA5)





EU Strategy for the Danube Region Action Plan, PA5 Action 3:

# Strengthen disaster prevention and preparedness among governmental and non-governmental organizations

3.1 Support **joint preparedness activities** of disaster response actors (professionals and volunteers at operational, tactical and strategic level)

3.2. Harmonized training and capacity building of civil protection units (based on UCPM) to improve coordination, interoperability, procedures and self-sufficiency

3.3. Support **disaster risk reduction** at regional and local level, raising public awareness

3.4. **Innovation and technology** to support disaster response (VR, drone, IT solutions, mapping)

## TRAINING





Preparedness for climate change related risks in Western Balkan region (PREP-R)



- Introduce sustainable learning methods: e-learning, training of trainers
- Prepare firefighters for response in flood prone countries (SRB, BiH)
- Update Standard Operating Procedures due to COVID-19



### #6 e-learning modules

- Floods
- Medical support
- Wildfires
- Engine management
- Trainer training
- International disaster response









## COOPERATION





## **Disaster Management Working Group**

### Regional network of disaster management actors

- EU Civil Protection Mechanism (EU-level initiative)
- Sendai Framework



## **Objectives:**

- Support cooperation
- Share knowledge
- Harmonize training
- Prepare for joint response



## CONTACT





## Thank you for your attention!



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https://environmentalrisks.danube-region.eu/

