

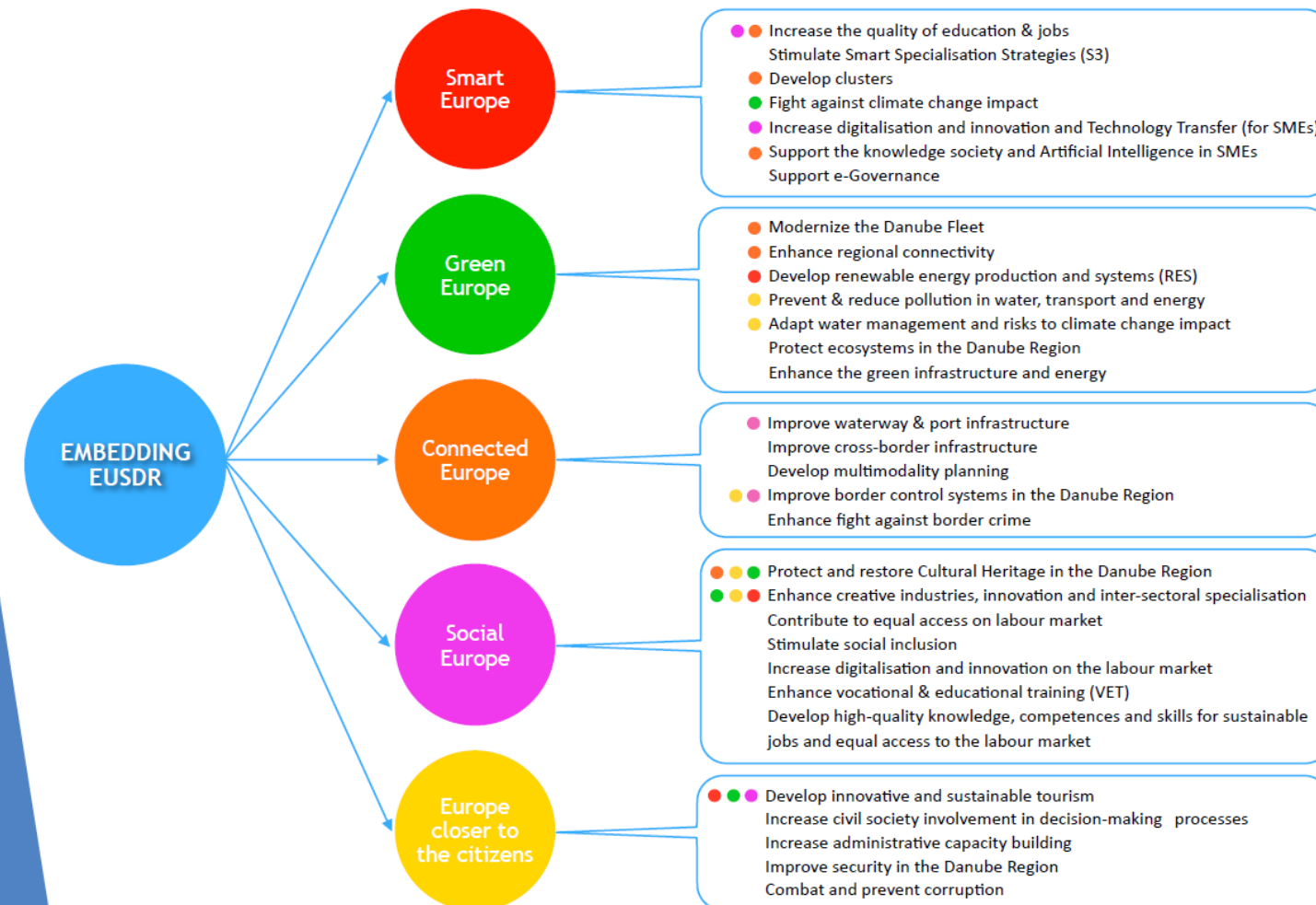
# EU Strategy for Danube Region Environmental Risks

## MANAGING **ENVIRONMENTAL RISKS** IN THE DANUBE REGION



László BALATONYI (Ph.D.)  
priority area co-coordinator

# Embedding of EUSDR into EU Programmes



More details about the embedding of the EUSDR into EU programmes 2021-2027 process are available at: <https://danube-region.eu/projects-and-funding/embedding-2021-2027>

The EUSDR topics that can be linked to the funding sources available for the 2021-2027 are relevant for more than one Cohesion Policy Objective. Follow the colour in order to identify the actions/ strategic topics that may contribute to reaching the Policy Objectives.

# Embedding of EUSDR into EU Programmes

Action 1. Provide sufficient support for development and execution of risk management plans for different hazards

Action 3. Strengthen disaster prevention and preparedness among governmental and non-governmental organisations

Action 5. Anticipate regional and local impacts of climate change



# EUSDR PA5 – activities (LoM/LoR)

## Letter of Recommendation

- Strategic document and research for climate change and water industry investments in Tuzla Canton (Bosnia-Herzegovina) – 01/12/2020
- Carpathian wetlands as nature-based solution for climate change mitigation (CARPWET) – 15/01/2021
- Enabling rapid and far-reaching positive change for a climate-resilient community system: framework comprising INNOvation PACKages to reactivate European regions and communities (INNOPACK) – 21/01/2021

## Letter of Merit

- WACOM – Water Contingency Management in the Sava River Basin 20/11/2020
- SafeForest – Improving Floodplain Forest Management along the Danube in the HU-SRB CBC area – 11/12/2020
- Upgrade and development of flood alarm and forecast model of MURA (ForMURA) – 02/03/2021
- Natural-based solution to mitigate flood risk due to SAND BOILS reactivations along the Po River (LIFE SandBoil) – 30/04/2021

<https://environmentalrisks.danube-region.eu/projects/pa5-letter-of-recommendation-lor/>

# EUSDR PA5 project support

- facilitate on-going and development of future projects, partners search Alignment of funding – identification of funding possibilities
- cooperation with non-EU countries (Western Balkans countries )
- communication, visibility, dissemination

# EUSDR PA5 – activities (LIFE-MICACC)

## □ Survey on natural water retention measures



**Full report is available here:**

**<https://environmentalrisks.danube-region.eu/survey-on-natural-water-retention-measures-2/>**

# Public Consultation



## latest news

**Dr. Balatonyi László** címzett: robert.fenz, konrad.stania, biljana.rajic, drazenka.malicbegovic, kplamenova, sanja.genzicjurisevic, marija.pinter, klara.kipielova, marta.havlickova, iva.vojtova, stefanie.hedtkamp, britta-antje.behm...

2021. 03. 31 22:36  
[Részletek megjelenítése](#)

Dear Steering Group Members,  
Dear Observers,

I would like to share with all of You our two latest news:

**1. Funding opportunities under the Civil Protection Work Programme 2021**

You can check it here: <https://environmentalrisks.danube-region.eu/2970-2/>

**2. ICPDR's Public Consultation on the Danube River Basin Management & Danube Flood Risk Management Plan Updates 2021.**

You can check it here <https://environmentalrisks.danube-region.eu/public-consultation-on-draft-river-basin-and-flood-risk-management-plans-2021/>  
<http://www.icpdr.org/main/public-consultation-draft-river-basin-and-flood-risk-management-plans-2021>

Yours sincerely, best regards:  
PA5 Coordination

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Priority Area Coordinator (PAC)

**EU Strategy for the Danube Region (EUSDR)**  
**Environmental Risks Priority Area (PA5)**

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<https://environmentalrisks.danube-region.eu/public-consultation-on-draft-river-basin-and-flood-risk-management-plans-2021/>

# EUSDR PA5 – Anex Best Practice

1. Promoting solidarity principle, strengthen transnational water management and flood risk prevention
  - **Danube River Basin Enhanced Flood Forecasting Cooperation**
2. Promoting the solidarity principle
  - **Danube ice event 2017**
3. Improving the climate resilience and adaptation capacity of vulnerable municipalities by reducing risks stemming from climate change in Hungary and implementing natural water retention measures
  - **Municipalities as integrators and coordinators in adaptation to climate change (MICACC)**

(Provided by EUSDR PA5)



# Preparedness and response activities in the Danube Region

## Side event: Short description

The Preparedness and response activities in the Danube Region session aims at introducing the EU Strategy for the Danube Region (EUSDR) Environmental Risks Priority Area (PA5) and its Disaster Management Working Group (DM-WG).

<https://floodrisk2020.net/>



The focus will be tailored to preparedness and response activities, with special focus on Tailing Management and related initiatives of the International Commission for the Protection of the Danube River (ICPDR) Accidental Pollution Control Expert Group (APC EG). The session will be concluded by sharing the latest information about possible funding instruments to achieve better preparedness and more effective response in the region.

<https://environmentalrisks.danube-region.eu/preparedness-and-response-activities-in-the-danube-region/>

### Relevance:

Coordination and Support Action funded by the European Commission to connect flood management practitioners and networks in the Danube Region

### Update:

- Postponement of DAREnet-PA5 DM-WG joint event due to COVID19
- Online event:

### **2nd Annual Practitioner Forum**

**Workshop: 24 Nov & Panel Discussion: 2 Dec**

<https://www.practitionerforum.eu/>

# 2nd Annual Practitioner Forum DAREnet – EUSDR PA5 DM-WG joint event



## Objective:

[Annual Practitioner Forum Results Paper](#)

To introduce selected innovative approaches from practitioner organisations from the Danube Region with the aims to **facilitate discussions** about solutions, challenges and needs between **experts and stakeholders**, also to **generate project ideas**.

## Workshop (24 Nov) – 2 sessions:

- ▣ Training of spontaneous volunteers and professional responders
- ▣ National, regional and international trainings

## Panel discussion (2 Dec):

- ▣ DAREnet, EUSDR PA5 DMWG, **DG REGIO**, **DG ECHO**, **DG HOME** and DTP
- ▣ *How can innovation in flood risk management training in the Danube River Region be enhanced through strategic partnerships?*



## Disaster Management Network in the Danube Region

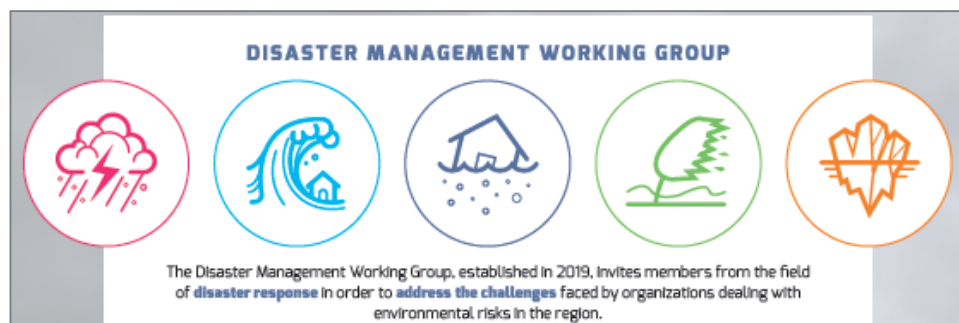
### Relevance:

Strengthening the cooperation between disaster response organizations and to implement the activities of the **EUSDR PA5 DM-WG**



### Update:

- Start – 1 Jan 2021
- Preparedness practices workshop (Feb 2021) with a joint Disaster Management Working Group meeting
- Development of Knowledge Portal started



# Ongoing DTP projects



## related to climate change adaptation

**Danube Floodplain** – *to support wetland and floodplain restoration as an effective mean of enhancing flood protection, and more generally to analyze and identify the best response to flood risk (including “green infrastructure”).*

<https://www.danubeenvironmentalrisks.eu/danube-floodplain>

**DARENET**– *DAREnet supports flood management practitioners to deepen and broaden their Research, Development and Innovation related collaboration. DAREnet builds a multi-disciplinary community of practitioners, operating in a network of civil protection organizations, and supported by a broad range of stakeholders to foster synergies, innovation and its uptake.*

The project is financed by EU Horizon2020 programme.

<http://darenetproject.eu/>

**DAREFFORT** – *to enhance the access to the recorded water data and to provide coherent distribution for all the countries in the Danube catchment. The aim is to support the realization of the DanubeHIS (ICPDR) and provide long-term development perspective for the sufficient conditions of proper basin-wide hydrological forecasting)*

<https://www.danubeenvironmentalrisks.eu/dareffort>

# Other projects – proposal for general

## **LIFE SandBoil**

Natural-based solution to mitigate flood risk due to SAND BOILS reactivations along the Po River

## **LIFE-MICACC**

Municipalities as integrators and coordinators in adaptation to climate change

## **WACOM**

Water Contingency Management in the Sava River Basin

## **SafeForest**

Improving Floodplain Forest Management along the Danube in the HU-SRB CBC area

## **ForMURA**

Upgrade and development of flood alarm and forecast model of MURA

## **DIKEINSPECT**

Complex flood-control strategy on the Upper-Tisza catchment area (HUSKROUA ENPI CBC)

## **LIFE LOGOS 4 WATERS**

Integrated application of innovative water management methods at river basin by coordination of local governments

# DAREFFORT project

## DAnube River Basin Enhanced Flood FORecasting CooperaTion



29 April 2021, Thursday AM: DAREFFORT Final Conference 2nd DAFF

30 April 2021, Friday: 2nd Biennial Danube Forecasting Forum (DAFF)



*DAREFFORT project supporting the Danube HIS development and EUSDR PA5 offered financial support by to extend the project results to Bosnia and Herzegovina and Montenegro.*

# UPCOMING EVENTS (June)

- **15 June 2021**, 14.00 – 15.00 CET - EFAS webinar on EFAS and Rapid Mapping for pre-tasking of satellites for disaster impact mapping (online)

Further information: <https://www.efas.eu/en/news/upcoming-webinar-efas-pre-tasking>

- **15 June 2021**, ForMura kick-off meeting

Further information: <https://environmentalrisks.danube-region.eu/events-new/formura-kick-off-conference/>

- **17 June 2021** – 19th Steering Group Meeting of EUSDR PA5

- **22-24 June 2021** - 4th European Conference on Flood Risk Management - FLOODrisk2020 conference (online) -

(Further information: <https://floodrisk2020.net/>)

- **22 June 2021, 13.30-15.45 CET – EUSDR PA5 side event at the FLOODrisk2020 conference (online)**

The Preparedness and response activities in the Danube Region session aims at introducing the EU Strategy for the Danube Region (EUSDR) Environmental Risks Priority Area (PA5) and its Disaster Management Working Group (DM-WG). The focus will be tailored to preparedness and response activities, with special focus on Tailings Management and related initiatives of the International Commission for the Protection of the Danube River (ICPDR) Accidental Pollution Control Expert Group (APC EG). The session will be concluded by sharing the latest information about possible funding instruments to achieve better preparedness and more effective response in the region.

(Further information: <https://floodrisk2020.net/>)

- **23-24 June 2021** - 19th ICPDR Standing Working Group Meeting (online)

- **29-30 June 2021**, Dubrovnik, Croatia - 2nd DiMaND Workshop on municipalities role in HNS and volunteer coordination and on volunteer coordination

Registration: <https://forms.gle/mxkMdxzrH6AKhERA7>

- **29-30 June 2021** - ICPDR Workshop: Our Opinion - Our Danube (online)

(Further information: <http://www.icpdr.org/main/activities-projects/stakeholder-consultation-workshop-our-opinion-our-danube>)



# Thank you for the kind attention!

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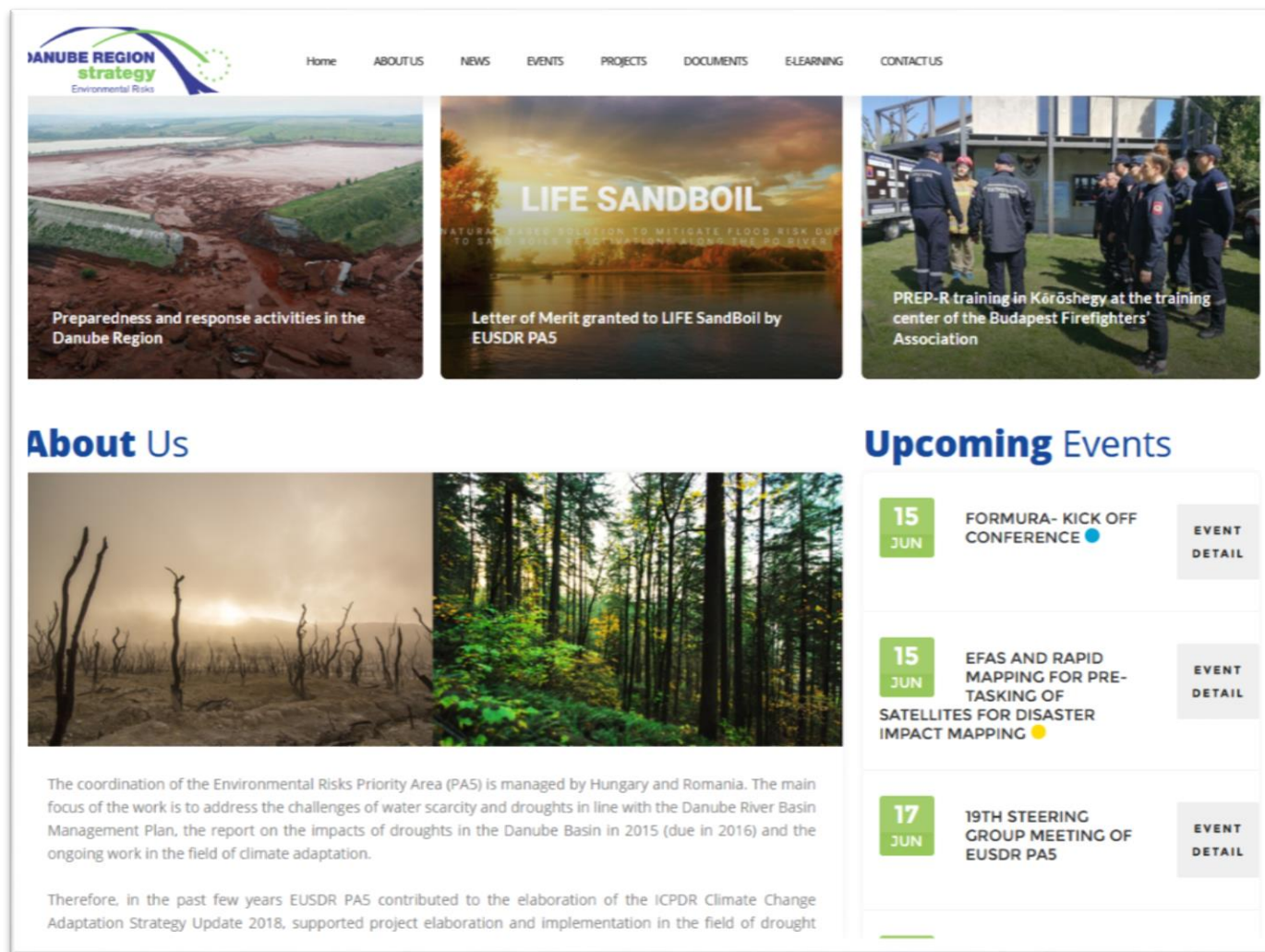
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The screenshot displays the homepage of the Danube Region Strategy website, which focuses on environmental risks. The top navigation bar includes links for Home, ABOUT US, NEWS, EVENTS, PROJECTS, DOCUMENTS, E-LEARNING, and CONTACT US. The main content area features three prominent news items: 1) 'Preparedness and response activities in the Danube Region' with an image of a flooded landscape; 2) 'Letter of Merit granted to LIFE SandBoil by EUSDR PA5' with an image of a sunset over water; and 3) 'PREP-R training in Kéröshegy at the training center of the Budapest Firefighters' Association' with an image of firefighters. Below these, the 'About Us' section contains two images (a dry landscape and a forest) and a paragraph explaining the coordination of the Environmental Risks Priority Area (PA5) by Hungary and Romania, focusing on water scarcity and droughts. The 'Upcoming Events' section lists three events: 'FORMURA- KICK OFF CONFERENCE' on 15 JUN, 'EFAS AND RAPID MAPPING FOR PRE-TASKING OF SATELLITES FOR DISASTER IMPACT MAPPING' on 15 JUN, and '19TH STEERING GROUP MEETING OF EUSDR PA5' on 17 JUN. Each event entry includes a date, title, and a link to 'EVENT DETAIL'.

**Danube Region Strategy**  
Environmental Risks

Home ABOUT US NEWS EVENTS PROJECTS DOCUMENTS E-LEARNING CONTACT US

**Preparedness and response activities in the Danube Region**

**LIFE SANDBOIL**  
NATURAL BASED SOLUTIONS MITIGATE FLOOD RISK DUE TO SANDBOILS IN SITUATIONS ALONG THE DO RIVER

Letter of Merit granted to LIFE SandBoil by EUSDR PA5

PREP-R training in Kéröshegy at the training center of the Budapest Firefighters' Association

**About Us**

The coordination of the Environmental Risks Priority Area (PA5) is managed by Hungary and Romania. The main focus of the work is to address the challenges of water scarcity and droughts in line with the Danube River Basin Management Plan, the report on the impacts of droughts in the Danube Basin in 2015 (due in 2016) and the ongoing work in the field of climate adaptation.

Therefore, in the past few years EUSDR PA5 contributed to the elaboration of the ICPDR Climate Change Adaptation Strategy Update 2018, supported project elaboration and implementation in the field of drought

**Upcoming Events**

Date	Event Title	Action
15 JUN	FORMURA- KICK OFF CONFERENCE	<a href="#">EVENT DETAIL</a>
15 JUN	EFAS AND RAPID MAPPING FOR PRE-TASKING OF SATELLITES FOR DISASTER IMPACT MAPPING	<a href="#">EVENT DETAIL</a>
17 JUN	19TH STEERING GROUP MEETING OF EUSDR PA5	<a href="#">EVENT DETAIL</a>

# ACTION PLAN

## **ACTION 1: Provide sufficient support for development and execution of risk management plans for different hazards**

Description:

***1.1 Collaborate with ICPDR in order to produce regular updates of the Danube Flood Risk Management Plan (DFRMP) (Danube basin-wide flood risk management including forecasting focusing on reducing the existing flood risks, avoiding new flood risks such as flash floods, strengthening resilience, awareness raising and basin-wide solidarity);***

- Improvement of flood forecasting
- Information exchange on the operation of hydraulic structures
- Coordination of operative flood management plans
- Development of elements of FRMPs for trans-boundary sub-units of common interest
- Exchange of flood protection techniques, technologies and experiences
- Develop an education/training network
- Enhance coordination of operative flood protection methods and equipment

**1.2 Promote sustainable floodplain management including green infrastructure**

**1.3 Foster basin wide management planning on specific issues (e.g. ice on rivers)**

**1.4 Support relevant actors in developing risk assessment related to droughts, forest fires, hail and other climate change related disaster risks**

**TARGET: To realize at least five projects supporting the implementation of the Danube Flood Risk Management Plan and sub-basin flood risk management plans in 2021-2027**

# ACTION PLAN

## **ACTION 2: enhance the capacities, extend the coverage of basin-wide or regional forecasting and warning systems, and develop rapid response procedures**

### Description:

- Create stronger links and synergies between the European information systems, like European Flood Awareness System and the European Forest Fire Information System, and the national or regional early warning systems to support preparedness efforts at regional level;
- Support the development of the DanubeHIS system;
- Support regular ICPDR Danube Accidental Early Warning System (AEWS) maintenance, testing and usage;
- Support drought forecasting and drought management in the Danube basin

**TARGET: Support the organization of bi-annual forecasting fora in the Danube Region**

# ACTION PLAN

## **ACTION 3: Strengthen disaster prevention and preparedness among governmental and non-governmental organizations**

### Description:

- Support joint preparedness activities (e.g. regional exercises, joint training activities, sharing know-how, standardisation of capacities) of flood protection and disaster response actors (professionals and volunteers at operational, tactical and strategic level);
- Harmonised training and capacity building of civil protection units (based on European Union Civil Protection Mechanism) to improve coordination, interoperability, procedures and selfsufficiency;
- Support the flood and disaster risk reduction at regional and local level, raising public awareness;
- Innovation and technology on flood protection to support disaster response (IT solutions, mapping, virtual reality, drone)

**TARGET: To establish common minimum standards for civil protection organisations and fire and rescue services involved in international or cross-border disaster response in the Danube Region.**

# ACTION PLAN



## **ACTION 4: Decrease human impacts that evolves natural risk factors resulting in environmental damages**

### Description:

- Support completion of the ICPDR Accidental Hazard Sites (AHS), Contaminated Sites (CS) and Tailings Management Facilities (TMF) geodatabase;
- Identify potential challenges and solutions regarding rapid response procedures in case of industrial accidents;
- Overview man-made structures or reservoirs as disaster risk hot spots (e.g. LAREDAR)

**TARGET: to support the development of AHS, CS and TMF inventories**

# ACTION PLAN

## **ACTION 5: Anticipate regional and local impacts of climate change**

### Description:

- 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

**TARGET: Support the implementation of the CCA by organizing an event focusing on CC effects in risk management planning**