

# EU Strategy for the Danube Region

## Priority Area 5 – Managing Environmental Risks



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**5th Annual Forum of the EUSDR  
27-28 November 2016, Bratislava**



## 2013-2014 floods

### 2008 eastern part of the Danube Basin

- Moldova, Ukraine,

### 2010 central part of the Danube Basin

- Austria, Czech Republic, Germany, Hungary, Slovakia, Serbia and Ukraine

### 2013 upper part of the Danube Basin

- Bavaria, Austria, Slovakia and Hungary

### 2013 lower part of the Danube Basin

- Romania, Bulgaria

### 2014 Sava Basin

- Croatia, Bosnia-Herzegovina, Serbia

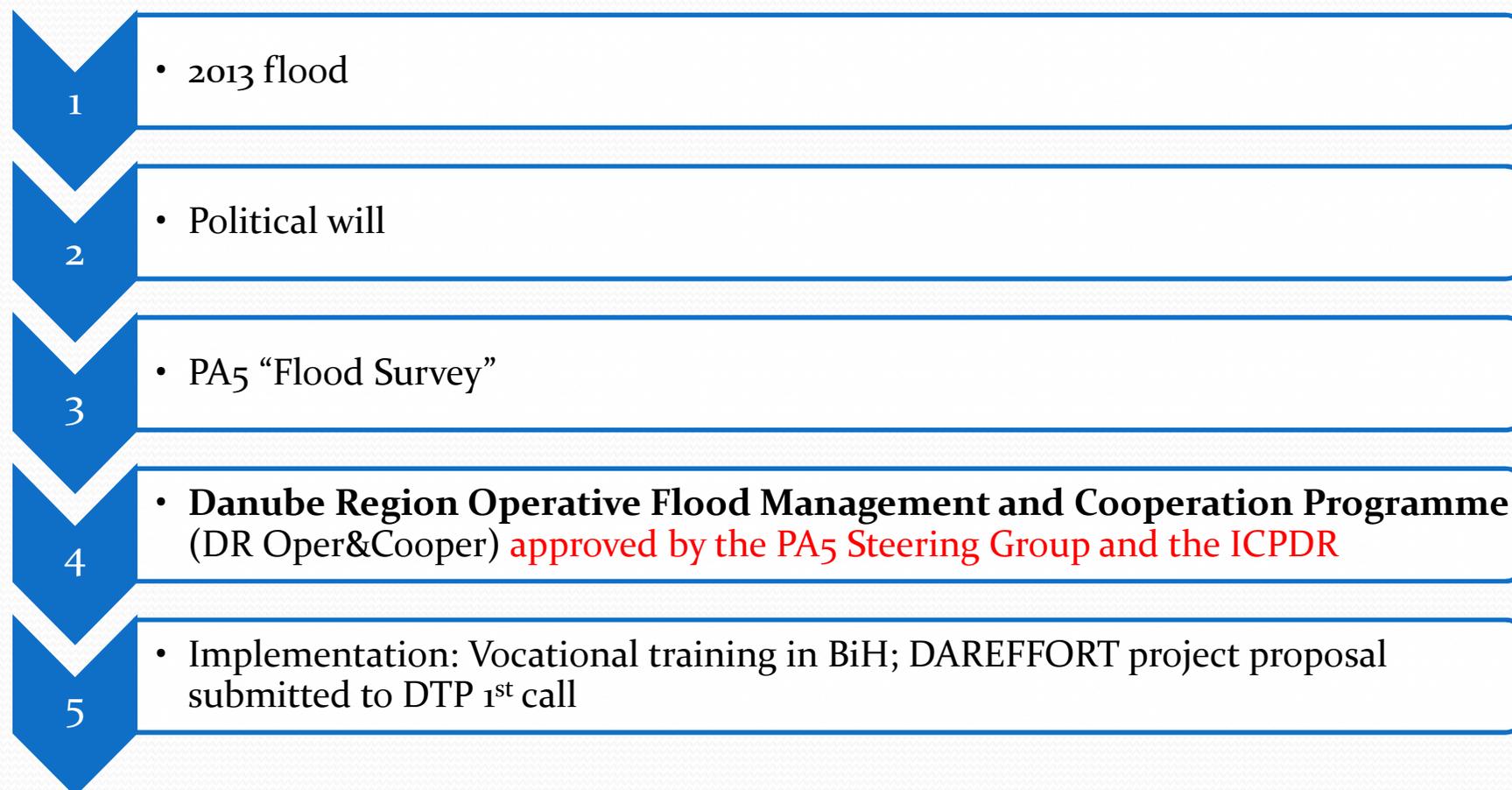


Hungary



Bosnia and Herzegovina

# PA5 Activity: An example



# PA5 „Flood Survey”

## THE SURVEY

**From May 2013 to September 2014: 15 venues, 15 expert meetings**

• Hungary, Budapest	30/05/2013 10/07/2013
• Czech Republic, Prague	02/08/2013
• Baden-Württemberg, Germany, Stuttgart	10/10/2013
• Bavaria, Germany, Munich	11/10/2013
• Austria, Vienna	27/11/2013
• Croatia, Zagreb	06/02/2014
• Slovenia, Ljubljana	06/02/2014
• Slovakia, Bratislava	26/02/2014
• Serbia, Belgrade	05/03/2014
• Bulgaria, Sofia	17/03/2014
• Ukraine, Nyíregyháza	29/04/2014
• Romania, Budapest	04/06/2014
• Bosnia and Herzegovina, Sarajevo	19/08/2014
• Montenegro, Podgorica	03/09/2014
• Moldova, Chisinau	24/09/2014

### Over 70 relevant institutions:

- DG ENV, DG REGIO, DG ECHO
- Ministries
- Water management authorities
- Forecasting institutions
- Civil and disaster management authorities
- ICPDR expert groups

# Flood Survey

## Professional aspects:

- to collect the experiences gained during the floods of the last decade, draw conclusions, and formulate solution proposals;
- to develop and harmonize Danube Region level development programmes, in line with the ICPDR activities;
- to make suggestions for the improvement of basin-wide flood protection and cooperation.



## The discussion document, with slightly evolving content was presented on the following forums

1. International Conference (2<sup>nd</sup> Pillar B Annual Stakeholder Seminar) on Transboundary water issues in a macro-regional context: the Danube Basin on 11-12 September 2013, Budapest
2. 24<sup>th</sup> ICPDR FP EG Meeting on 3-4 Oct 2013 in Bratislava
3. 38<sup>th</sup> ICPDR RBM EG Meeting on 17-18 Oct 2013 in Budapest
4. 2<sup>nd</sup> EUSDR Annual Forum on 28-29 Oct 2013 in Bucharest
5. 6<sup>th</sup> PA5 SG Meeting on 9 December 2013 in Vienna
6. 7<sup>th</sup> PA5 SG Meeting on 27 March 2014 in Budapest
7. 25<sup>th</sup> ICPDR FP EG Meeting on 9-10 April 2014 in Brno
8. 3<sup>rd</sup> Annual Forum on 26-27 June 2014 in Vienna
9. 26<sup>th</sup> ICPDR FP EG meeting on 14-15 October 2015 in Budapest
10. 27<sup>th</sup> ICPDR FP EG meeting on 17-18 March 2015 in Zagreb

Flood Survey 2013-2014  
of the EU Strategy for the Danube Region Priority Area 5  
- „to manage environmental risks” -  
co-ordinated by Hungary and Romania

*Lessons learnt and proposals for the Danube Region Operative Flood  
Management and Cooperation Programme  
(DR Oper&Cooper)*

finalized on 08/10/2014

# Measures of the DR Oper&Cooper (Danube Region Operative Flood Management and Cooperation Programme)

We have to thematise our common focuses!

- **Improvement of flood forecasting**
- Information exchange on the operation of hydraulic structures
- Coordination of operative flood management plans
- Development of elements of flood risk management plans 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

# Adoption of the new, revised EUSDR PA5 Targets

10th Steering Group Meeting of PA5

29 February 2016, Bucharest

- 1.) To address the challenges of water scarcity and droughts in line with the Danube River Basin Management Plan – Update 2015, 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.
- 2.) **Provide and enhance continuous support to the implementation of the Danube Flood Risk Management Plan – adopted in 2015 in line with the EU Floods Directive – to achieve significant reductions of flood risk events by 2021, also taking into account potential impacts of climate change and adaption strategies.**
- 3.) To continuously update the existing database of accident risk spots (ARS Inventory), contaminated sites and sites used for the storage of dangerous substances.





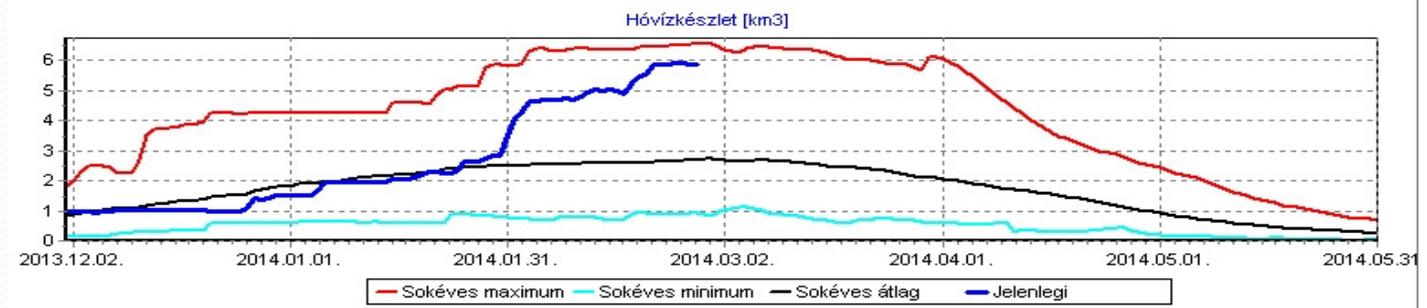
# Projects by PA5 management

## DAREFFORT project proposal

- **Background:**

- Danube Region Operative Flood Management and Cooperation Programme (DR O&C) Measure n°1: *Improvement of flood forecasting*

- The project proposal is included in the Annex II of the 1st Flood Risk Management Plan (DFRMP) approved at the 3rd Ministerial Meeting of ICPDR in February 2016



# DAREFFORT project proposal

- **Main aim of the project:** Development of Regional Flood Forecasting System

Better hydrological forecasting performance by facilitating the data exchange among the Danubian countries

- The appropriate exchange of meteorological and hydrological data among the countries of the Danube basin.
  - To ensure the availability of those forecasting methods that help the partners to make their own forecast based on the exchanged data.
  - Common, unified web based platform for the data exchange.
- 03/11/15 EoI submitted to the DTP 1st call
  - **Proposal rejected**
- **Current status of the project:**
    - **Improved proposal** worked out based on the reviews (involvement of professional proposal writers in the elaboration) + suggestions from the future partners
    - Involvement of **more upstream countries** – key importance for success (Bavaria)
    - Involvement and support of the ICPDR and the ISRBC (Sava River Basin Commission)

# DAREFFORT project consultation workshop

- 21 September 2016, Budapest
- Partners of the 1st call + newly joined partner, ICPDR, ISRBC
- Technical content of the project concept and WPs prepared
- Focus on enhancing the partnership
- New call: **2nd call of the DTP**: beginning of 2017 (1 round)



# DAREFFORT project proposal

## Planned work packages in the project:

- WP 1: Project management
- WP 2: Communication activities
- WP 3: Flood forecasting systems (mapping Danube Regional flood forecasting systems)
- WP 4: Data exchange
- WP 5: Knowledge transfer
  
- Partnership so far:
  - HU, CRO, RO, DE, RS, Geonardo Environmental Technologies Ltd., involvement of the other Danubian partners is continuous
  
- Associated Strategic Partners so far:
  - International Commission for the Protection of the Danube River (ICPDR)
  - International Sava River Basin Commission (ISRBC)
  - HU Ministry: Ministry of Foreign Affairs and Trade
  - RO Ministry:

# Next step:

## Water training cooperation agreement

Signing ceremony at the Hungarian-Bavarian Joint Economic Commission Session (October 2016, Budapest) between the College of Baja (Eötvös József College) and the Engineering College of Deggendorf





<http://www.danube-region.eu/>

PA5 website: <http://www.danubeenvironmentalrisks.eu/>

**Thank you for your attention**