



International/transboundary cooperation in the Danube River Basin context – Romanian experience

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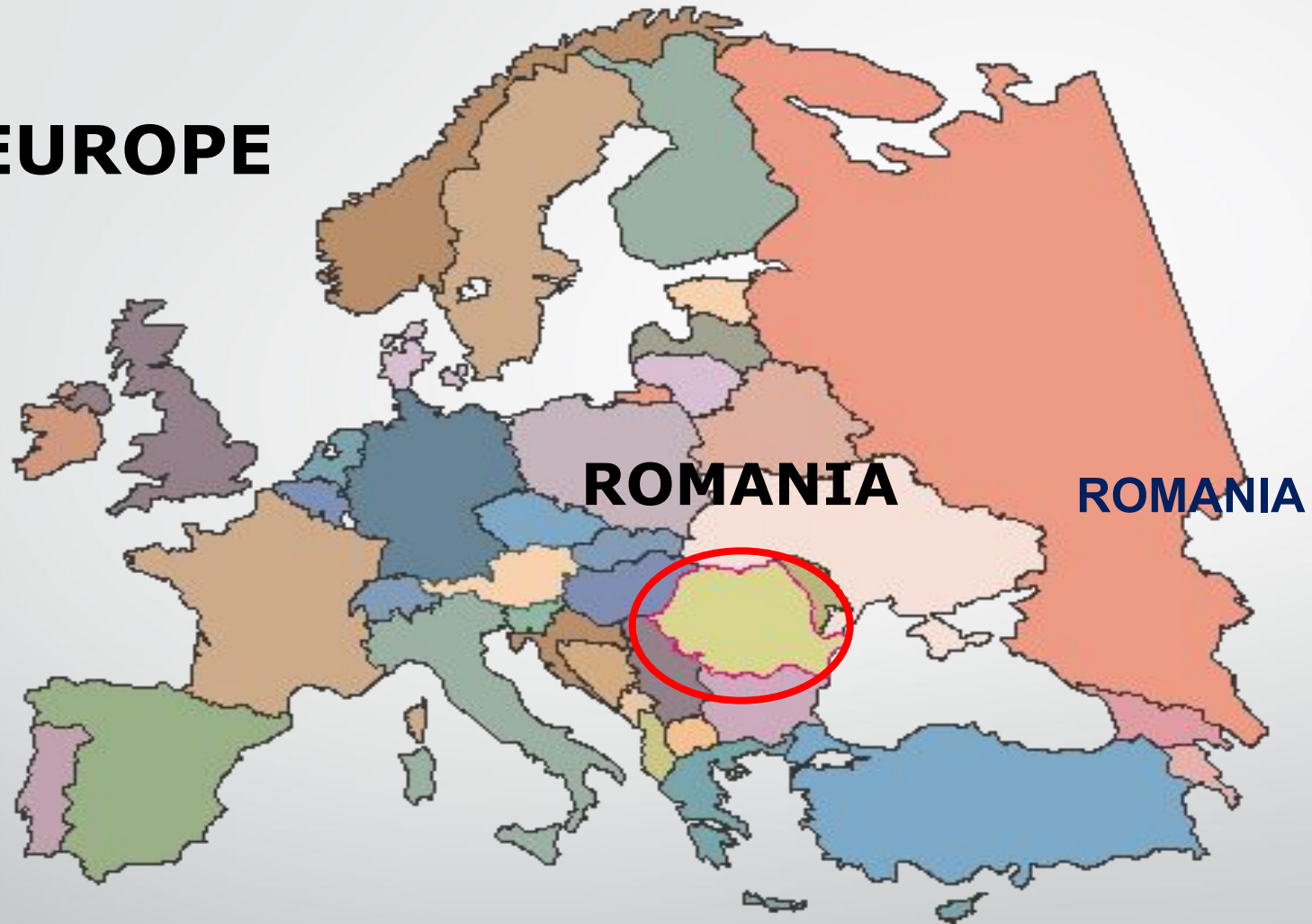
Round table 3: International cooperation:
twinning and peer-to-peer exchanges,
neighbourhood area, transboundary waters

Content

- International Cooperation within the Danube River Basin
- International projects under umbrella of the International Commission for the Protection of the Danube River (ICPDR)
- Bilateral Cooperation

Danube River Basin District. Overview map

EUROPE



- 97.4 % of Romania's surface is located in the Danube River Basin
- Romania represents 29 % from Danube River Basin surface
- The Danube River has 37.7 % of its length on Romanian territory

National Administration of "Romanian Waters" (NARW) applies the national strategy and policy in water management (surface and groundwater, quantity and quality issues).



Over 9000 employees

11 River basin Authorities and National Institute of Hydrology and Water Management (NIHWM)

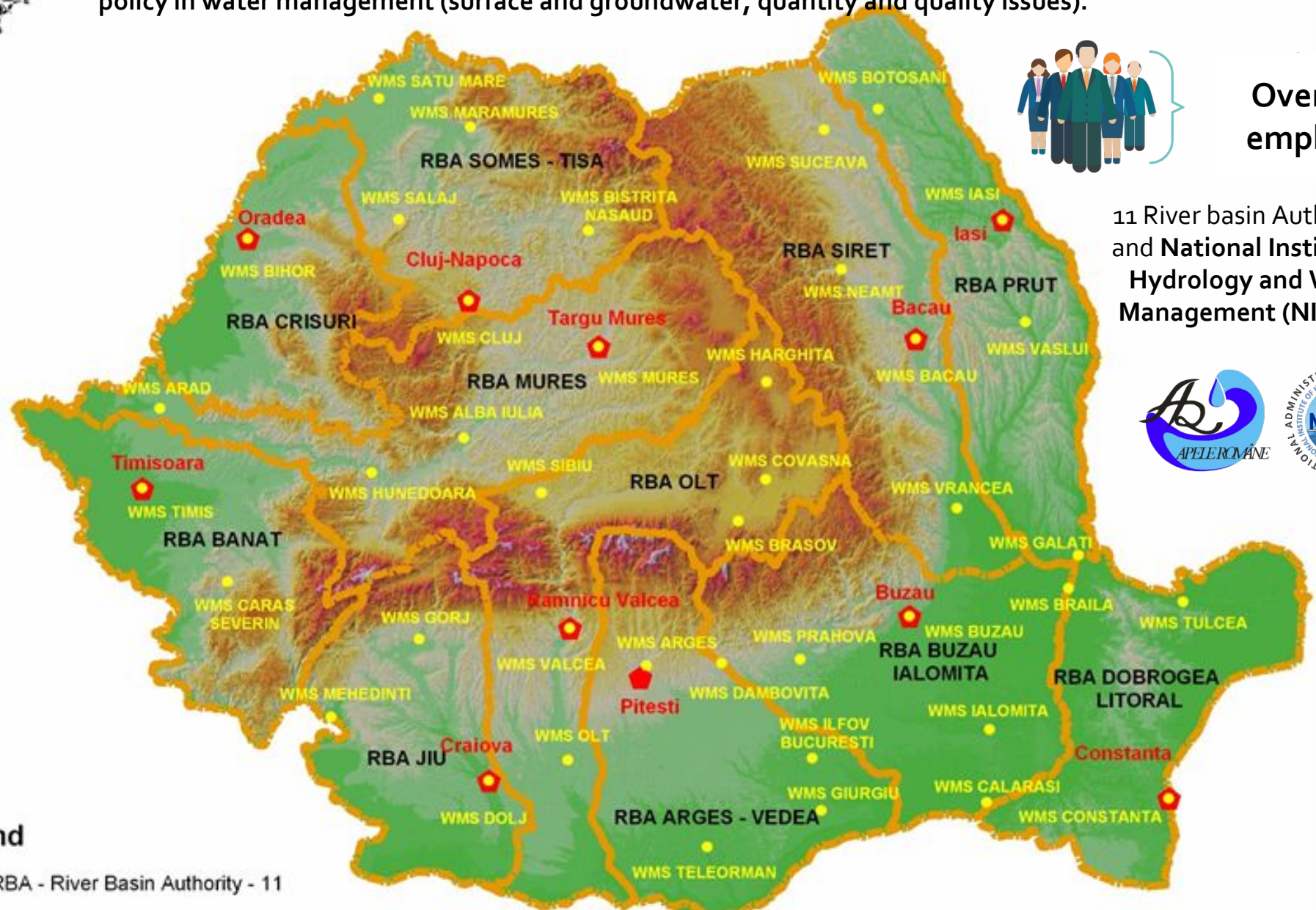


Legend

- RBA - River Basin Authority - 11
- WMS - Water Management Systems - 41

0 29,000 58,000 116,000 Km

River Basin Authorities and Water Management Systems
of the National Administration "Apele Române"



International Cooperation within the Danube River Basin

❖ Romanian experts are participating in the experts and tasks groups of ICPDR, for example:

- The River Basin Management Expert Group (**RBM EG**) deals with ICPDR activities concerning the development and implementation of the Danube River Basin Management Plan.
 - The Hydromorphology Task Group (**HYMO TG**) and Economics Task Group (**EC TG**) report to the RBM EG.
- The Flood Protection Expert Group (**FP EG**) deals with ICPDR activities concerning sustainable flood risk management and the development and implementation of the Danube River Basin Flood Risk Management Plan.

Action Plan for Flood Prevention Measures for the Danube Flood Risk Management Plan

- The Monitoring and Assessment (**MA EG**) deals with ICPDR activities concerning surveillance as well as investigative monitoring and water quality analyses.
 - **Groundwater Task Group** is reporting to the MA Expert Group, the Groundwater Task Group deals with **issues related to trans-boundary groundwater bodies of Danube River Basin-wide importance** and with all aspects of groundwater management in line with the implementation of EU Water Framework Directive and EU Groundwater Directive.

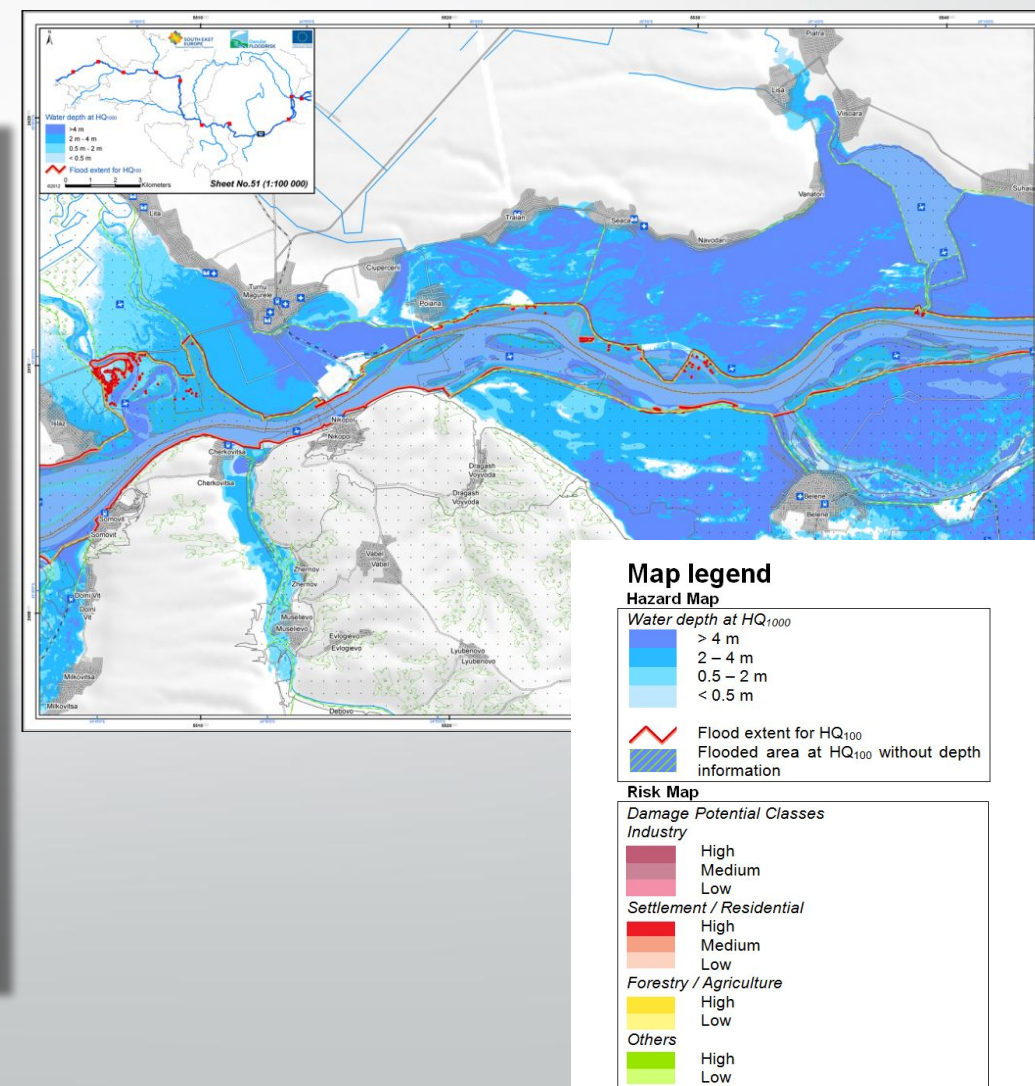
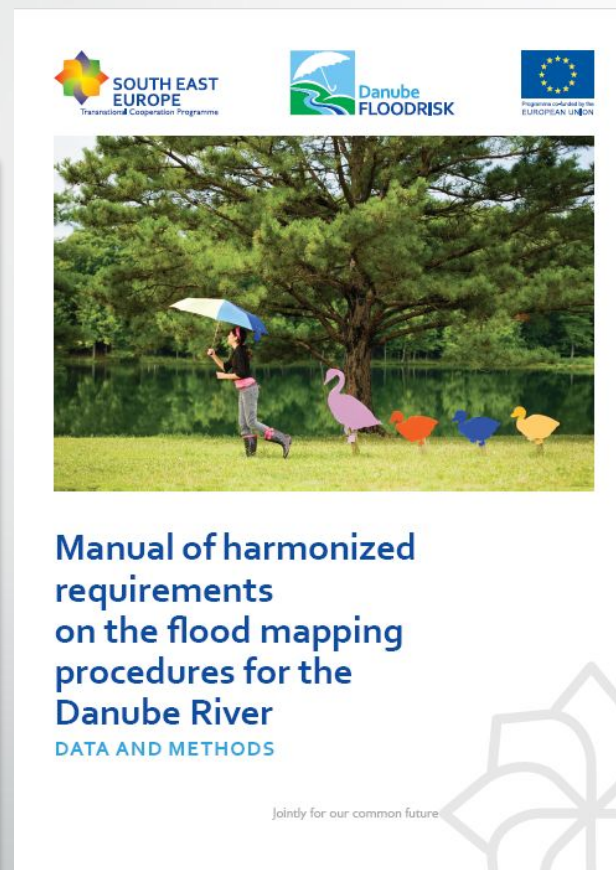
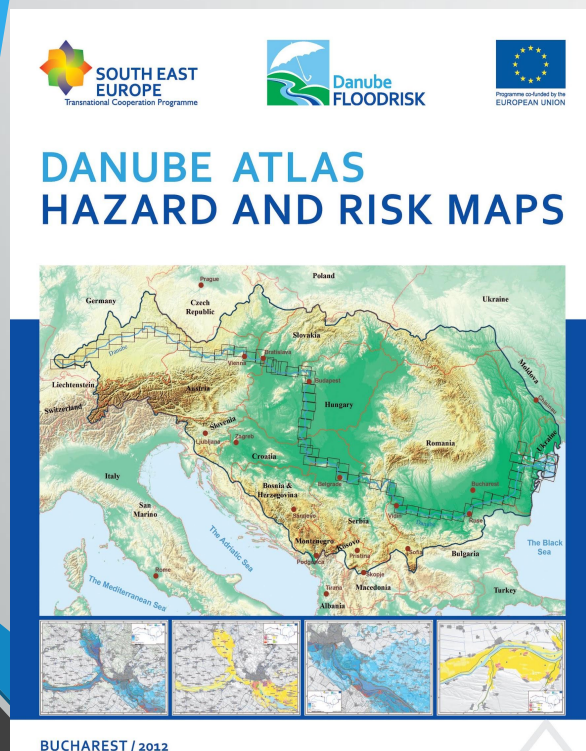
International projects under umbrella of the ICPDR

Danube Floodrisk project - implemented

- **Project title:**
DANUBE FLOODRISK – Stakeholder oriented flood risk assessment for the Danube floodplains
- **Project duration:** 01/05/2009 - 31/10/2012 (36 months)
- **Programme:** Danube Transnational Programme
- Leader Partner (Romania)
- 18 Project Partners (Austria, Slovakia, Hungary, Bulgaria, Italy, Romania, Serbia, Croatia)

International projects under umbrella of the ICPDR

Danube Floodrisk project - implemented



International projects under umbrella of the ICPDR

Danube Floodplain project – on going

- **Project title:**
DANUBE FLOODPLAIN - Reducing the flood risk through floodplain restoration along the Danube River and tributaries
- **Project duration:** 01/06/2018-30/11/2020 (30 months)
- **Programme:** Danube Transnational Programme
- **Project Budget:** 3.67 million Euro
 - National Administration of “Romanian Waters” (NARW) – 346.312,50 euro
 - National Institute of Hydrology and Water Management (NIHWM) – 177.850,00 euro
 - Ministry of Waters and Forests (MWF) – 97.292,50 euro
- Leader Partner (Romania)

International projects under umbrella of the ICPDR

Danube Floodplain project – on going

Main objectives

- **Improved transnational and integrated Danube flood risk management and river basin management through floodplain preservation and restoration** leading to reduced flood risk
- Specific objectives:
 - Improved knowledge on floodplain restoration and preservation
 - **Agreement of further actions on floodplain restoration and preservation**
 - Improved stakeholder cooperation in floodplain management in Danube River Basin

International projects under umbrella of the ICPDR

JOINTISZA project – on going

- **Project title:**
Strengthening cooperation between river basin management planning and flood risk prevention to enhance the status of waters of the Tisza River Basin – **JOINTISZA** – DTP 1-152.2.1
- **Project duration:** 01.01.2017-30.06.2019 (30 month)
- **Programme:** Danube Transnational Programme
- **Project Budget:** 2.254.126,80 €
 - National Administration of “Romanian Waters” (NARW) – 188.252 €
 - National Institute of Hydrology and Water Management (NIHWM) – 193.200 €
 - Ministry of Waters and Forests (MWF) – 65.216,18 €

International projects under umbrella of the ICPDR

JOINTISZA project – on going

Main objectives

- Update of the **Integrated Tisza River Basin Management Plan (ITRBMP)** with **special emphasis on integrated approach of river basin management and flood risk protection planning**. The updated plan will include integrated Joint Programme of Measures to enhance good status of waters.
- Encouragement of the relevant management sectors involvement (such as flood risk, water resource management, urban hydrology management, drought management) and interested stakeholders.

International projects under umbrella of the ICPDR

Danube Sediment project– on going

- **Project title:**
Danube Sediment Management - Restoration of the Sediment Balance in the Danube River (DanubeSediment)
- **Project duration:** 01/2017-06/2019 (30 months)
- **Programme:** Danube Transnational Programme
- **Project Budget:** 3.56M EUR
 - National Administration of “Romanian Waters” (NARW) – 276.726 euro
 - National Institute of Hydrology and Water Management (NIHWM) – 162.800 euro
- **Leader Partner** (Hungary)
- **14 Project Partners** (Germany, Austria, Slovakia, Hungary, Croatia, Slovenia, Serbia, Bulgaria, Romania)

International projects under umbrella of the ICPDR

Danube Sediment project– on going

Main objectives

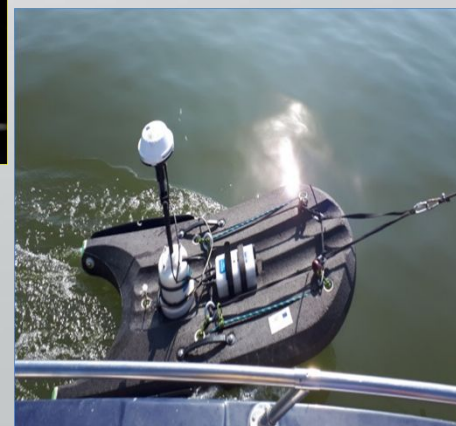
- To propose a pragmatic transnational quantitative **sediment monitoring network**;
- To establish for the first time the **sediment budget for the Danube River** considering the input of the most important tributaries;
- To identify reaches with **surplus and deficit**, river bed aggradation and degradation, **sediment-related problems** in flood risk management, hydropower generation, navigation, ecology;
- To gain **knowledge and better understanding** of sediment transport and morphodynamic processes in the Danube River;
- To develop a **Danube Sediment Management Guidance** and a related **Sediment Manual for Stakeholders**.

International projects under umbrella of the ICPDR

Danube Sediment project– on going

Sediment measurements

A practical exercise on site comparison was performed in a common sampling site (Giurgiu/Ruse hydrometric gauge station) sampling at the same time using different equipment (including the most sophisticated).

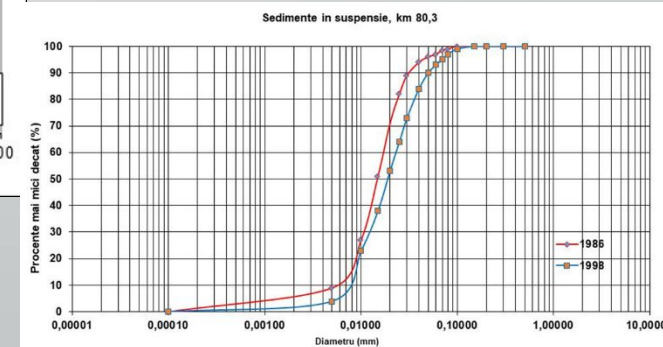
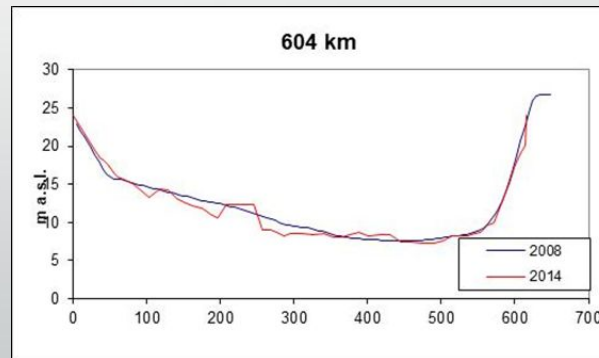
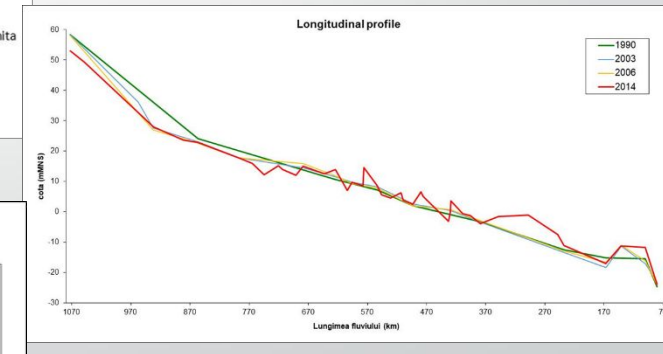
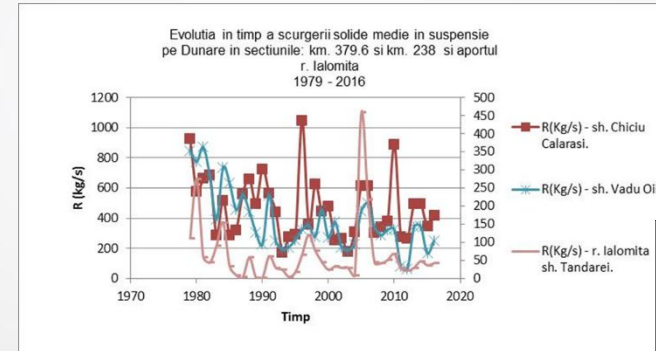
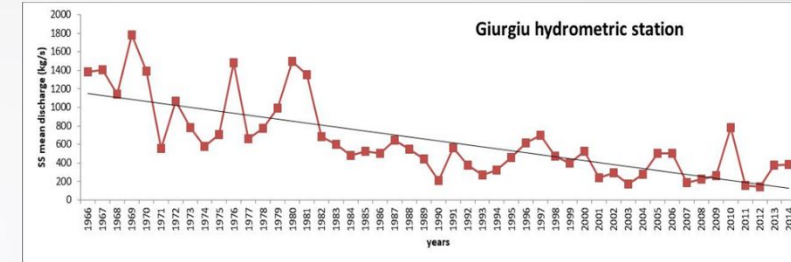


International projects under umbrella of the ICPDR

Danube Sediment project– on going

Sediment budget analysis

- Spatio-temporal analysis of data;
- Sediment budget estimation for Danube and selected tributaries (Jiu River, Arges River, Ialomita River, Siret River, Prut River);
- Morphological evolution of Danube on long period.



Bilateral cooperation

- ✓ **SERBIA** - Agreement between Romania and RPF Yugoslavia on hydraulic problems in hydraulic systems and watercourses that cross the border or are the border (Bucharest, 7 April 1955)
- ✓ **UKRAINE** - Agreement between the Government of Romania and the Government of Ukraine on cooperation in transboundary waters field (Galați, 30 September 1997)
- ✓ **HUNGARY** – Agreement between the Government of Romania and the Government of the Republic of Hungary on the cooperation purposing the protection and sustainable use of the transboundary waters (Budapest, 25 September 2003)
- ✓ **BULGARIA** – Agreement between the Ministry of Environment and Water of the Republic of Bulgaria and the Ministry of Environment and Water Management of Romania on cooperation in the field of Water Management (Bucharest, 12 November, 2004)
- ✓ **NETHERLANDS** - Memorandum of agreement between National Administration “Apele Române”, Romania and Unie Van Watterschappen, The Netherlands (Hague, 23 June 2008 and prolonged until June 2020)
- ✓ **MOLDOVA** - Agreement between the Government of Romania and the Government of the Republic of Moldova on cooperation for the protection and sustainable use of Prut and Danube waters (Chișinău, 28



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 **ROMÂNIA**
Thank you for your kind attention!