



**“Preparation of Documentation for River Training and Dredging Works
on Critical Sectors on the Danube River in Serbia”**

Stakeholders' Forum

**River restoration within an integrative river engineering project –
what could be the role of protected areas?**

Mag. Ivan Mitrović
Directorate for Inland Waterways



Project funded by
the European Union

**Danubeparks Step 2.0, Task Force Meeting
River Morphology, Bratislava, 23-01-2013**

Content

Strategic and legal framework

Basic project data

Critical sectors

Range of the project

Stakeholders' Forum

Availability of data

Basic orientation

Next steps



Project funded by
the European Union

Directorate for Inland Waterways
Bratislava, 23-01-2013

Plovput

Strategic and legal framework

Strategic framework:

- Master plan for IWW transport in Serbia(2006)
- Serbian transport development strategy for the period 2008-2015 (2007)
- General transport master plan (2009)
- Spatial plan of the corridor VII (drafted)
- EU strategy for the Danube region (2010)

Inland navigation:

- DC Recommendations
- AGN (UNECE)
- SRB-CRO bilateral agreement on inland navigation and fairway maintenance (2009)
- Law on navigation and ports on inland waterways (2010)
- Bylaws

Water management:

- Law on waters
- Relevant bylaws
- WFD (EU)
- Danube Protection Convention
- Danube River Basin management plan (ICPDR)

Protection of cultural monuments

- Law on cultural heritage
- Bylaws

Environment:

- ESPOO convention
- Law on nature protection
- Law on environment protection
- Law on EIA
- Law on SEA
- Regulation on ecological network
- Specific spatial plans
- Bylaws

Law on construction and spatial planning



Project funded by
the European Union

DIRECTORATE FOR INLAND WATERWAYS
Bratislava, 23-01-2013

Plovput

Basic project data

- EU funding programme: IPA 2010
- EU funding rate: 100%
- Value: EUR 2.2 Mill
- Timeframe: 2011-2013
- Beneficiaries:
 - Ministry of Transport
 - Directorate for Inland Waterways
- Goal: Ensure minimum sustainable depth and width of the fairway during the low water periods
- Measure: the best combination of structural and non-structural options



Towards a Smoother
Inland Navigation



Preparation of Necessary Documentation
for River Training Works on Selected Locations
along the Danube River
(IPA 2010)



Plovput



Project funded by
the European Union

Direktorát pre vodné cesty
Bratislava, 23-01-2013

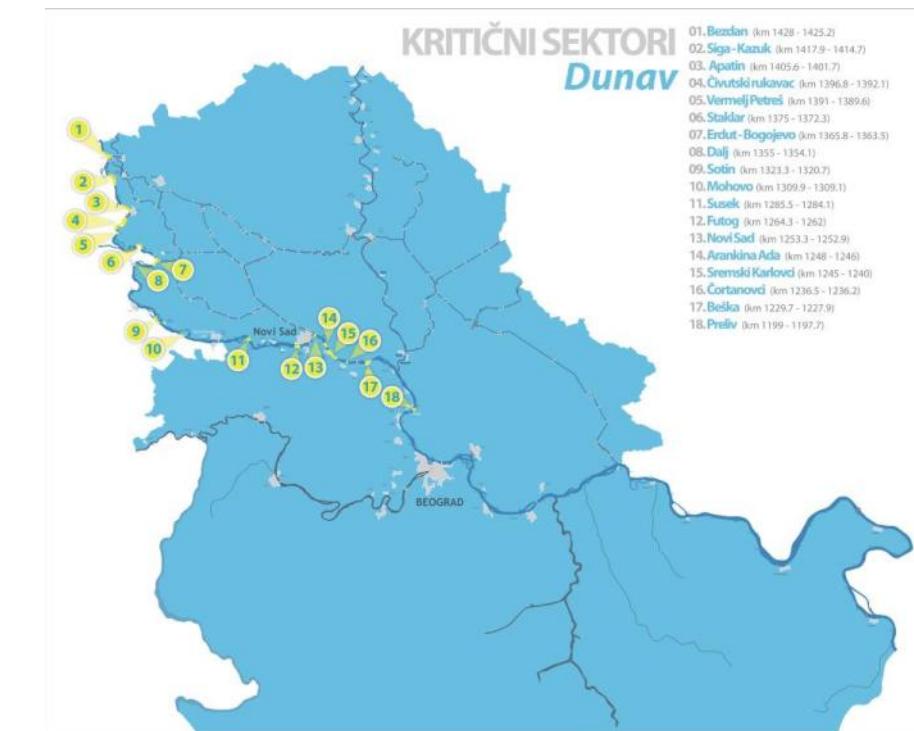
Plovput

Critical sectors

Master Plan (2006)
18 critical sectors
40 km total length



IPA 2010 project (2011)
24 critical sectors
70 km total length



Project funded by
the European Union

Directorate for Inland Waterways
Bratislava, 23-01-2013

Plavput

Range of the Project

- hydraulic models (1D and 2D)
- Feasibility study and conceptual designs for all critical sectors
- CBA
- EIA
- Morphological models
- main designs and tender documentation for works and supervision & monitoring on **6 critical sectors**
- Documentation is being prepared in accordance to **national legislation, as well as EU legislation**

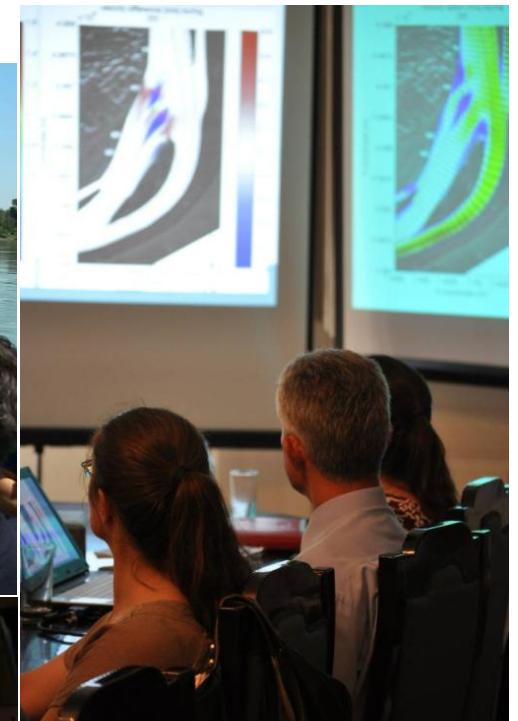


Project funded by
the European Union

Directorate for Inland Waterways
Bratislava, 23-01-2013

Plavput

Stakeholders' Forum



Project funded by
the European Union

Directorate for Inland Waterways
Bratislava, 23-01-2013

Plovput

Forum members



Project funded by
the European Union

Directorate for Inland Waterways
Bratislava, 23-01-2013

Plovput

Availability of data

Historical data		
Hydrography	Hydrology	Sediment
Historical designs in-house	Available (good) practices	RIS
Geotechnical	Protected & sensitive areas	Protected species
Underwater archaeology	Climate changes	?
Forecasts		



Project funded by
the European Union

Directorate for Inland Waterways
Bratislava, 23-01-2013

Plovput

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Su
Mo	1	2	3	4	5	6							
Tu	7	8	9	10	11	12	13						
We	14	15	16	17	18	19	20						
Th	21	22	23	24	25	26	27						
Sa	28	29	30	31									
Su													

Today

Hen RSS SHMZ

Dnevni hidroški izveštaj za 22.jan.2013

	Vodomer	18	19	20	21	22	23	24	25	26	Q	
10	80,64	Beždan	311	282	261	249	231	205	182	173	155	2,580
87	78,84	Apatin	400	368	342	327	308	286	263			
84	77,46	Bogojevce	375	344	317	299	284	265	242	220	210	3,130
96	73,13	Bačka Palanka	375	348	324	308	298	277	287	279		
80	71,73	Novi Sad	358	332	312	298	288	278	269			
142	69,68	Slankamen	356	348	340	338	334	324				
223	67,87	Zemun	389	380	392	396	388	388	382	376	373	
261	67,33	Pančeva	390	388	395	400	392	393	387	376	379	
434	65,36	Smederevo	522	518	536	538	528	528				5,840
665	62,85	Banatska Palanka	711	709	727	735	713	713				
670	62,17	Veliko Gradište	765	760	775	785	780	780				
20,00	Prahovo	370	260	340	305	305						
72,76	Jamena	616	640	640	622	620	620					1,630
37	72,22	Sremska Mitrovica	358	375	393	382	376	376	415	490	550	2,110
-64	72,61	Šabac	223	245	257	250	240	245	245	260	320	375
162	68,28	Beograd	338	337	343	347	340	340	335	330	328	
50	73,57	Novi Kneževac	154	158	169	176	177	177	177			
125	72,80	Senta	225	225	231	239	239	239	239			494
213	71,87	Novi Bečej	305	305	305	305	305	305				
133	69,70	Titel	346	337	333	332	326	319	308			

Baza vodostaja

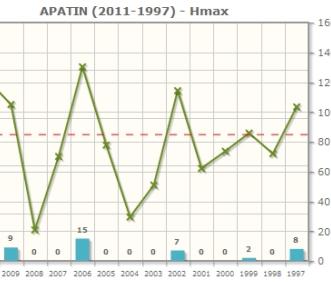
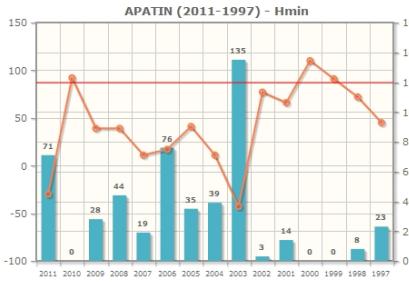
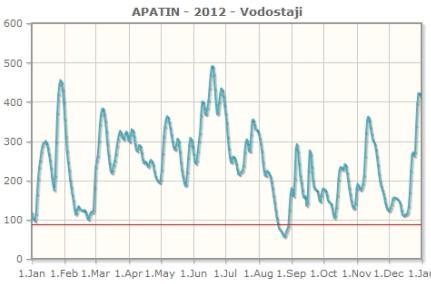
Sadrži podatke RHMZ-a o vodostajima, prognozi vodostaja (4 dana), proticajima, temperaturi vode i ledu, počev od 1.jan.2009. do danas.

Podaci se prikupljaju svakodnevno, automatski, putem RSS-a u periodu od 9-14h.

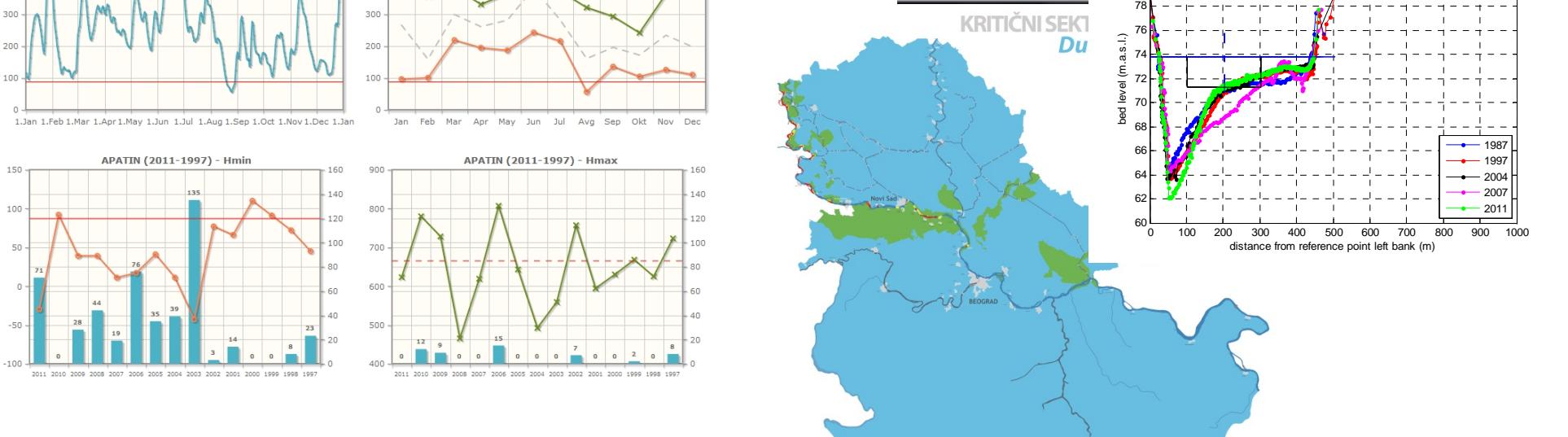
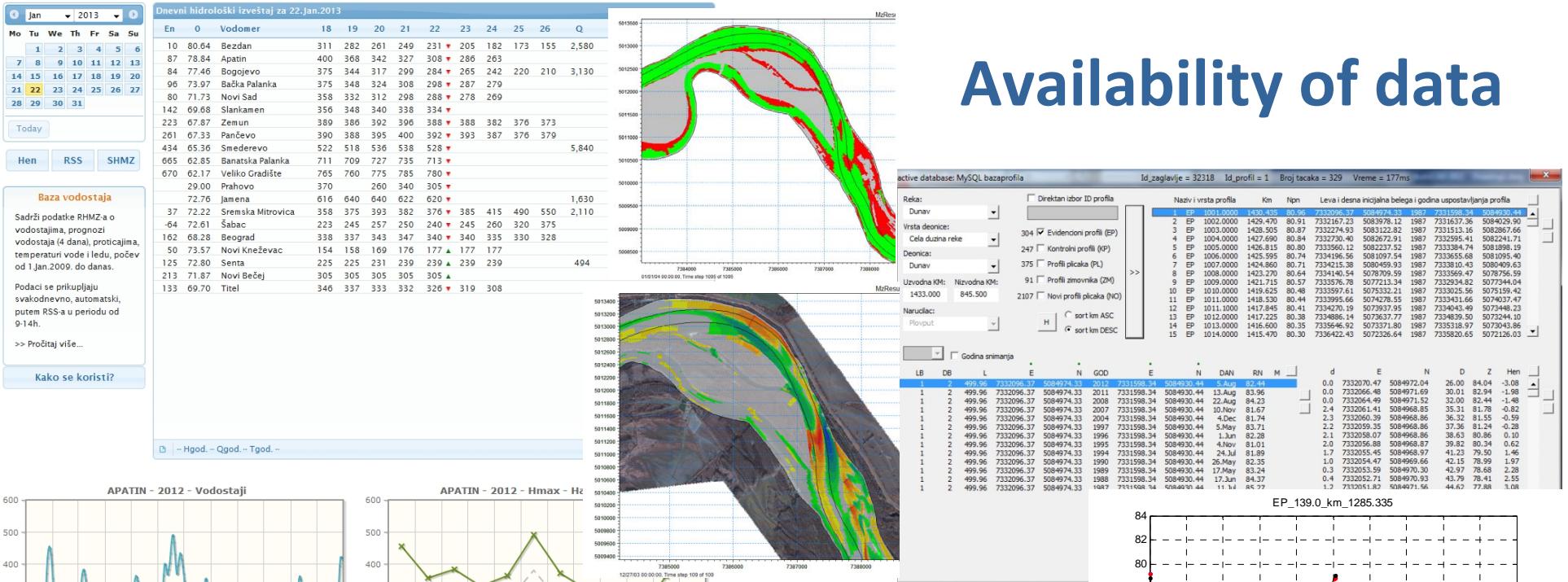
>> Pročitaj više...

Kako se koristi?

... -- Hgod. -- Qgod. -- Tgod. --



Project funded by
the European Union



Directorate for Inland Waterways
Bratislava, 23-01-2013

Plowput

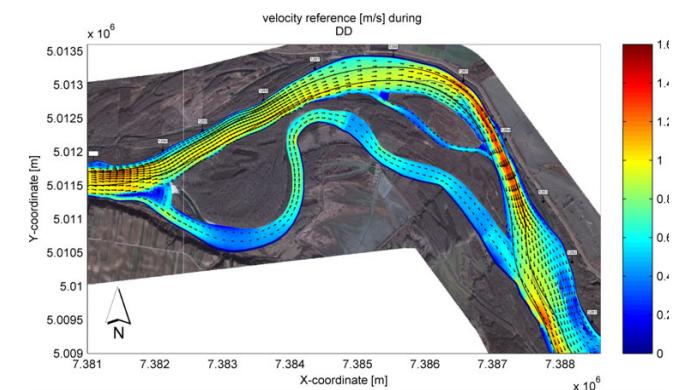
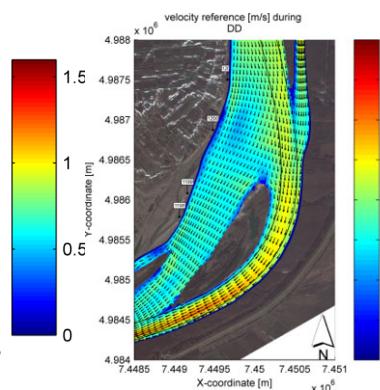
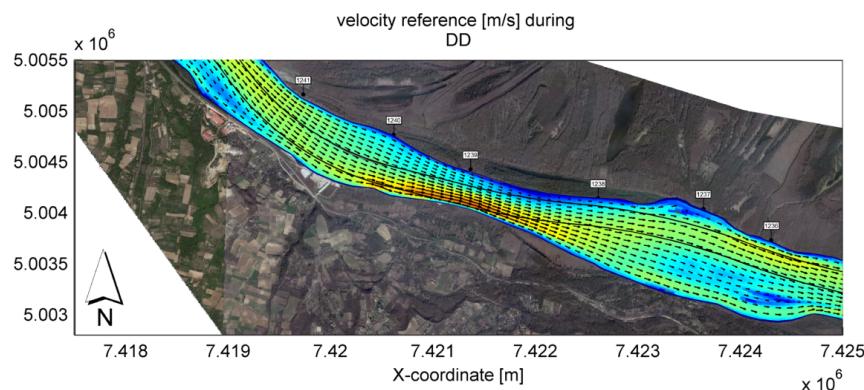
Basic project orientation

**Preserving
connectivity conditions**

**Preferring
detached structures**

**Preserving
sediment equilibrium**

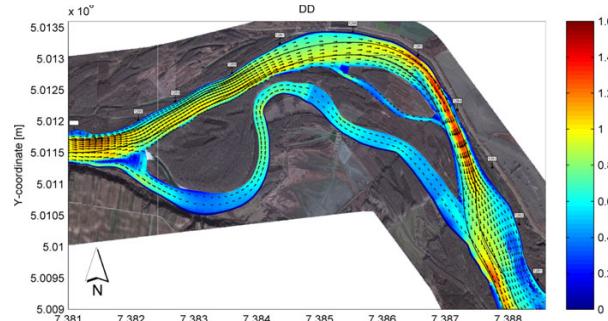
**Ensuring
mitigation measures**



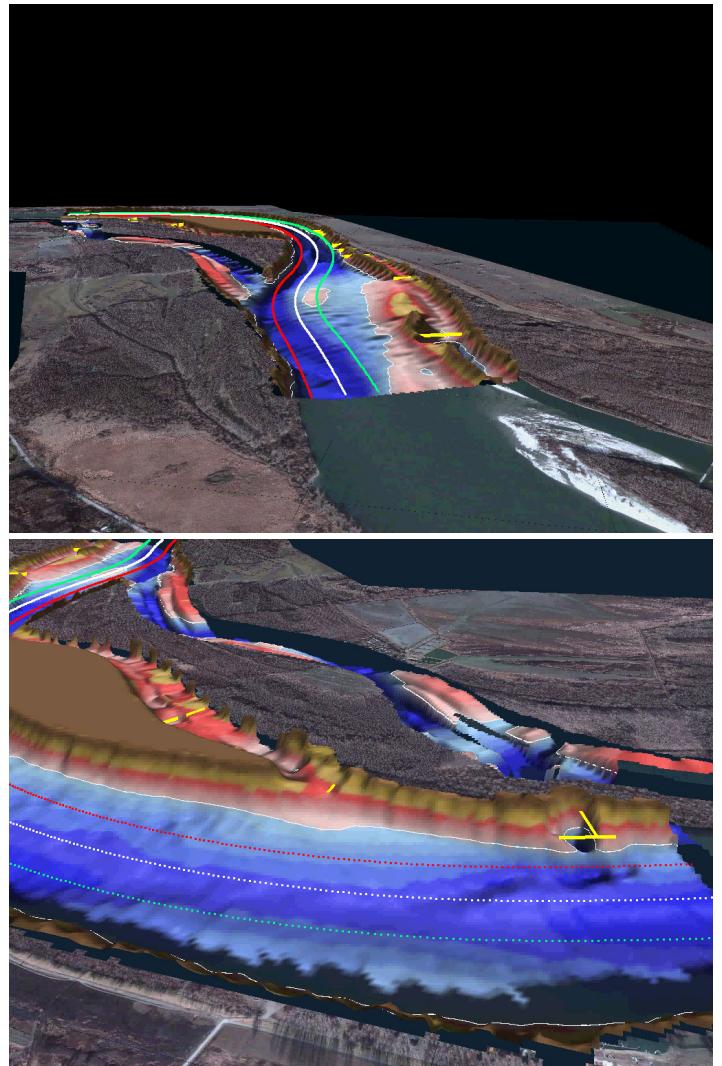
Project funded by
the European Union

**Directorate for Inland Waterways
Bratislava, 23-01-2013**

Plowput



Preserving connectivity conditions

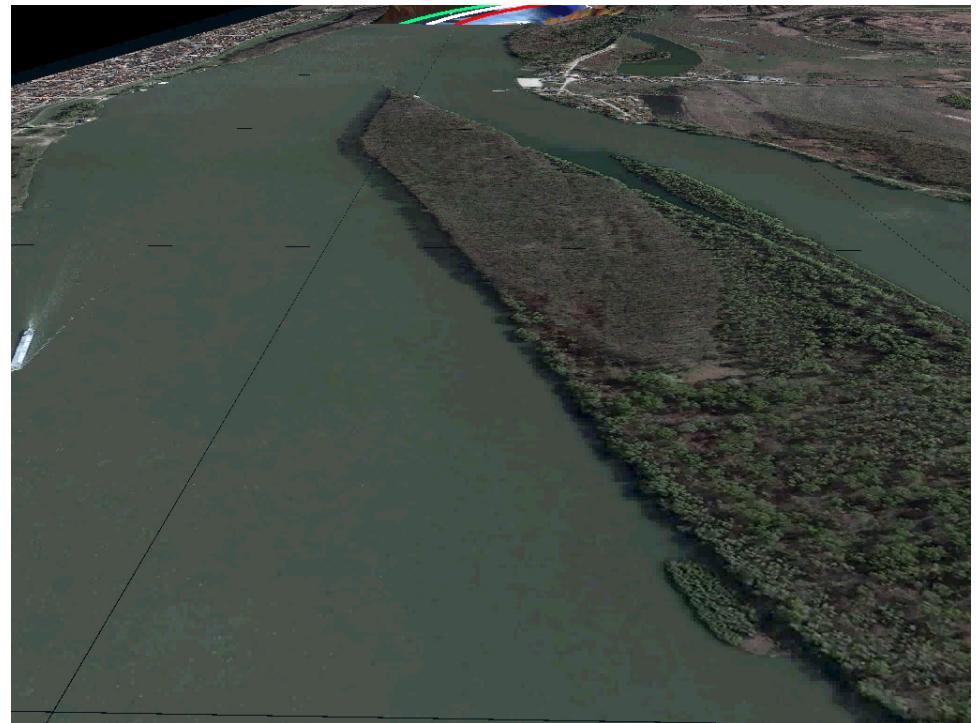
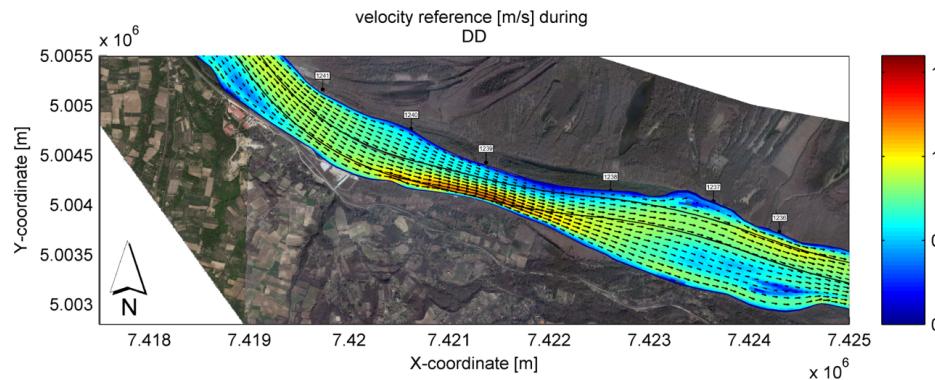


Project funded by
the European Union

Directorate for Inland Waterways
Bratislava, 23-01-2013

Plowput

Preserving sediment equilibrium

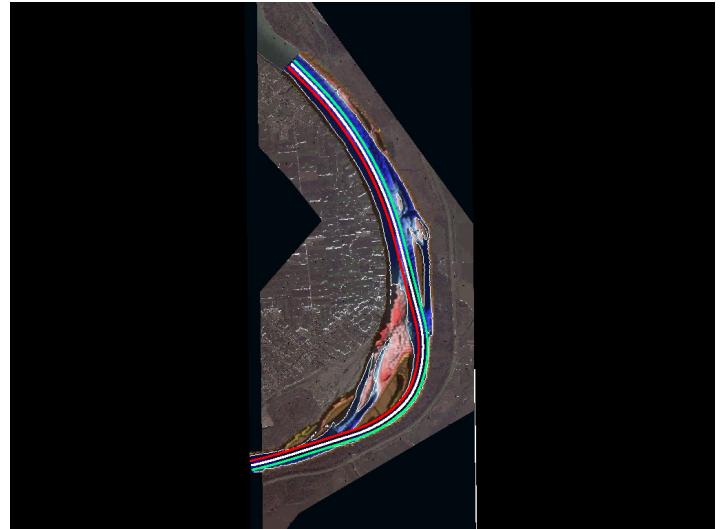
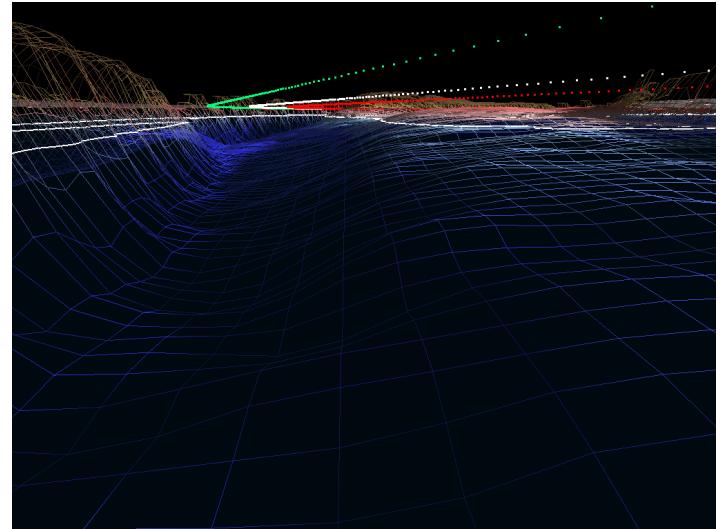
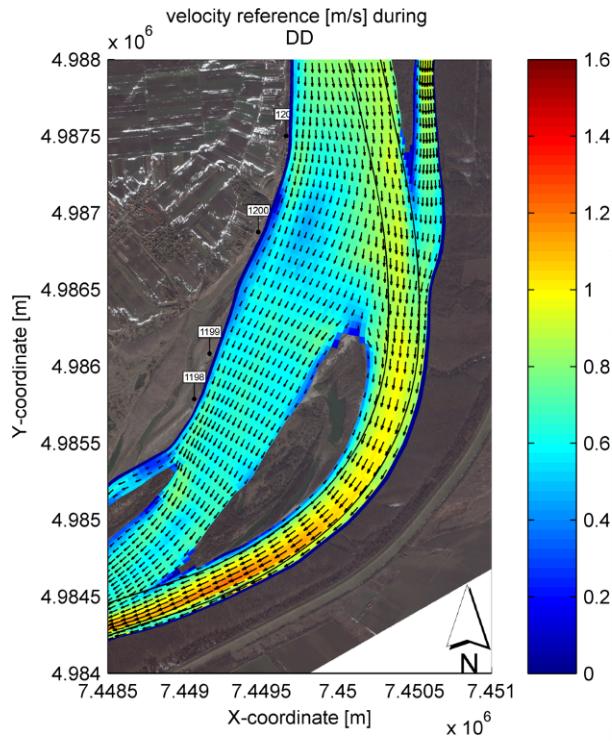


Project funded by
the European Union

Directorate for Inland Waterways
Bratislava, 23-01-2013

Plavput

Preferring detached structures



Project funded by
the European Union

DIRECTORATE FOR INLAND WATERWAYS
Bratislava, 23-01-2013

Plowput

Next steps

Time perspective 2014-2016

- **works on 6 critical sectors for which main designs and tender documentation are being prepared**
- **Technical supervision of works and monitoring of effects**



Project funded by
the European Union

Directorate for Inland Waterways
Bratislava, 23-01-2013

Plovput

For more info

The screenshot shows the homepage of the Plovput website. At the top, there are language links: Тишинци (Slovene), Latvian, English, and Français. Below the header, there's a logo of the Republic of Serbia and the text "Република Србија" and "Директоријат за водне путеве". A sidebar on the left contains links for "Насловна" and "Контакт", followed by a vertical menu with "О нама", "Активности", "Научни рад и активности", "Вељачте", "Извештаји", "Вртаки", "Медија центар", and "Локалите". Below this is a feed icon and the date "17.12.2012". A text box states: "Насловак јавног прописа плавног пута за употребу плавајућих услова на Дунаву". Another section discusses the "Шести састанак форума за интересоване стране пројекта објавио је програм обраде геоданашњица у Београду...". At the bottom, there's a link to "Свакодневна бројка" dated "03.01.2013". The main content area features a photo of a forum meeting with people seated in front of a large screen displaying various charts and maps. To the right, there's a sidebar with links for "Документи", "Информатор", "Фото галерија", "Newsletter", and "Notices to Skippers". Below this is a section titled "Forum" with the subtitle "Задуженост станица" and logos for NEWADA d.o.o., co-wanda, and the "Програм спровођења" (Implementation Program) which includes the European Union flag and the Serbian coat of arms.

www.plovput.rs



Project funded by
the European Union

Directorate for Inland Waterways
Bratislava, 23-01-2013

Plovput

Summary

Strategic and legal framework

Basic project data

Critical sectors

Range of the project

Stakeholders' Forum

Availability of data

Basic orientation

Next steps



Project funded by
the European Union

Directorate for Inland Waterways
Bratislava, 23-01-2013

Plovput



**“Preparation of Documentation for River Training and Dredging Works
on Critical Sectors on the Danube River in Serbia”**

**Thank you
for your kind attention**

Mag. Ivan Mitrovic
Directorate for Inland Waterways



Project funded by
the European Union

**Danubeparks Step 2.0, Task Force Meeting
River Morphology, Bratislava, 23-01-2013**