DANUBE COMMISSION

Expert Meeting on Hydrotechnical Issues March 5, 2025, Budapest

The Directorate for Inland Waterways, Republic of Serbia

- Activities planned in Serbia-

Predrag Zivadinovic, MSc Civil Eng.



Activities planned in Serbia (PLOVPUT) Danube Commission, Budapest, 05.03.2025.





Critical sectors (CS) for navigation on the Danube

- 24 CS on the Danube
 - 17 SRB-CRO common stretch
 - 7 exclusively SRB



01. Bezdan (km 1428.0 - 1425.6) 02. Siga - Kazuk (km 1422.8 - 1415.0) 03. Apatin (km 1407.8 - 1400.6) 04. Čivutski rukavac (km 1396.8 - 1389.2) 05. Drava Confluence (km 1136.4 - 1382.2) 06. Alimaš (km 1379.8 - 1379.4) 07.Staklar (km 1428.0 - 1425.6) 08. Erdut (km 1370.8 - 1367.4) 09. Bogojevo (km 1365.8 - 1361.6) 10. Dalj (km 1356.6 - 1351.8) 11.Borovo (km 1348.2 - 1344.0) 12.Borovo (km 1339.6 - 1338.6) 13.Vukovar (km 1331.6 - 1325.8) 14. Sotin (km 1323.0 - 1321.0) 15. Opatovac (km 1315) 16. Mohovo (km 1311.0 - 1308.0) 17. Bačka Palanka - Ilok (km 1301.2 - 1300.6) 18. Susek (km 1285.6 - 1281.4) 19. Futog (km 1266.2 - 1265.0) 20. Novi Sad (km 1255.4 - 1254.2) 21. Arankina Ada (km 1246.6 - 1245.4) 22. Čortanovci (km 1240.4 - 1239.4) 23. Beška (km 1230.4 - 1239.4) 24. Preliv (km 1197.8 - 1197.6)



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Activities on the common SRB-CRO sector

Data Collection, hydraulic and morphological modelling of the Danube River and the Sava River in the Republic of Serbia

- Outputs:
 - 1D hydraulic model for the entire Serbian and Croatian common Danube stretch + **ENR 2023**
 - Redefinition and prioritization of navigational bottlenecks
 - Definition of parameters for the multicriteria analysis



- Definition of alternative solutions for prioritized sectors and hydrodynamic and morphological 2D modelling
- Development of the integrated study on alternative solutions and definition of next steps for future investments.







Connecting Europe Facility



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Activities on the SRB sector

7 CS
18. Susek
19. Futog
20. Novi Sad
21. Arankina Ada
22. Čortanovci
23. Beška
24. Preliv







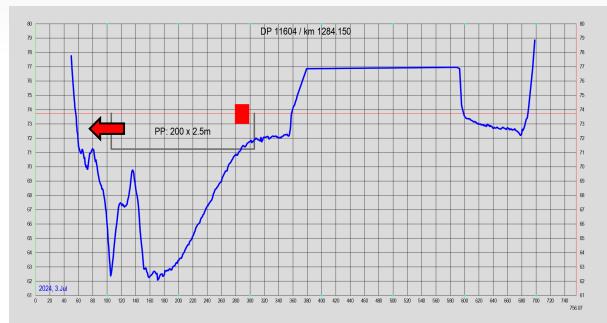


CS Susek (km 1287+000 - km 1281+000)

Gauging Station Bačka Palanka "0"=73.97mnm,ENR=47cm,HNL=578cm

Critical CS: km 1284+150

- min fairway depth: 2m
- available width: 175m (200m)





- 2024: Number of days on GS Backa Palanka with water level H < H_{req}: 15
- Regular monitoring & surveying

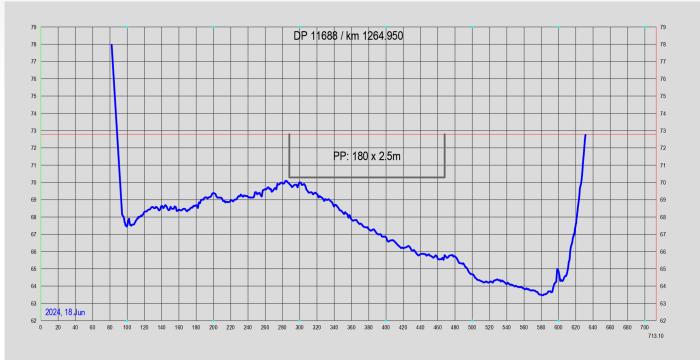




CS Futog (km 1267+400 – km 1261+600)

Critical CS: km 1264+950

- min fairway depth: 2.7m
- available width: 180m





- Favorable morphological development of the riverbed was achieved by the construction of an detached groin (km 1263+350) and a chevron (km 1262+800)
- 2024: Number of days on GS Novi Sad with water level H < Hreq: 0

Republic of Serbia

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CS Arankina Ada (km 1248+000 – km 1244+800)

Activities planned in Serbia (PLOVPUT)

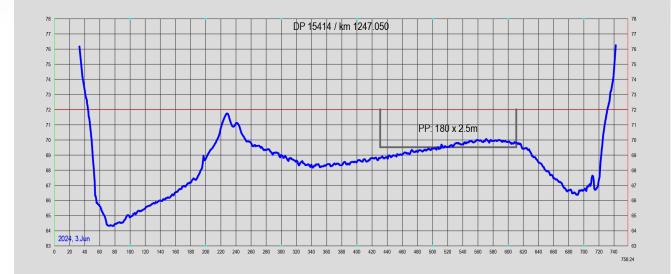
Danube Commission, Budapest, 05.03.2025.

Gauging Station Novi Sad "0"=71.73mnm, ENR=57cm, HNL=574cm

Critical CS: km 1247+050

- min fairway depth: 2m
- available width: 180m

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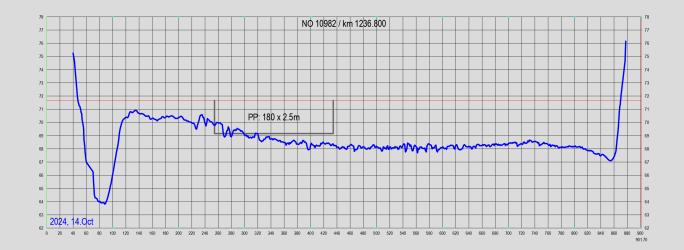


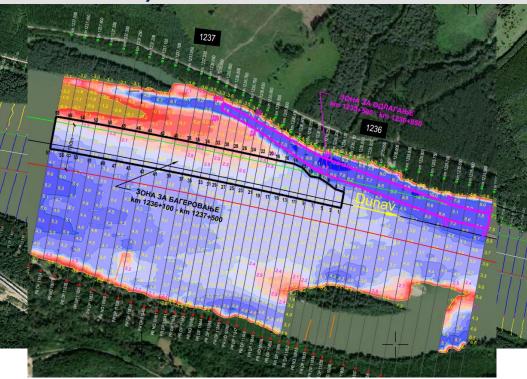


- Required water level for fairway dimensions 2,5/180 on GS Novi Sad: H_{req}=111cm
- 2024: Number of days on GS Novi Sad with water level H < H_{req}: 46

CS Čortanovci (km 1241+600 – km 1235+000)

- Critical CS: km 1236+500 km 1237+200
 - Available width: 180m
 - Dynamically changing over time
 - Sandbank shifting from right \rightarrow left





- 2024: Left bank "endangered"
- Apr 2024: ~48.000m³ dredged
- Apr 2025: ~137.000 m³ dredged (ongoing)
- Intense monitoring & surveying



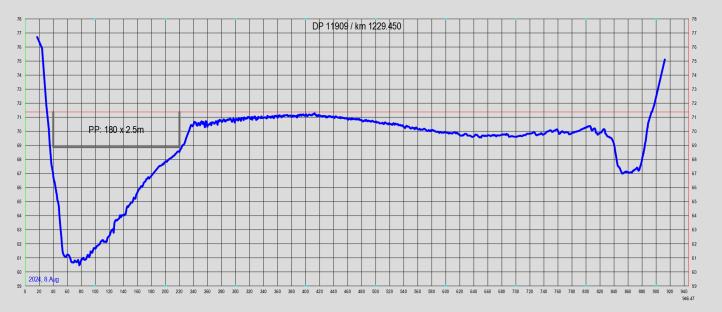


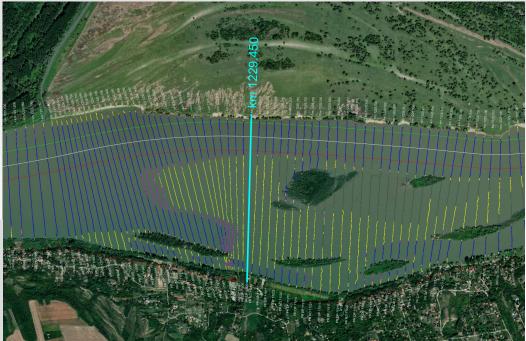
CS Beška (km 1232+000 – km 1226+600)

Gauging Station Slankamen

"0"=69.68mnm, ENR=117cm, HNL=623cm

- Critical CS: km 1229+450
 - Min fairway depth: 2.7m
 - Available width: 180m





- 2024: Number of days on GS Slankamen with water level H < H_{req}: 6
- Regular monitoring & surveying



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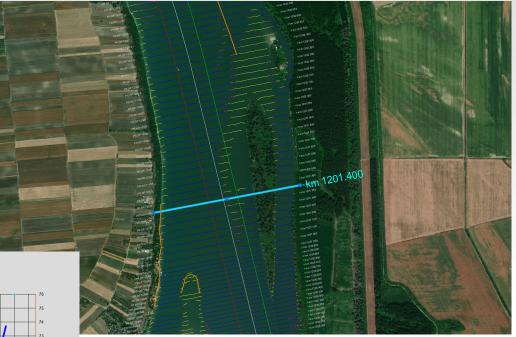




CS Preliv (km 1207+000 - km 1195+000)

- Critical CS: km 1201+400
 - Available width: 200m
 - Significant changes in 2024





- Intense monitoring & surveying
- Proper marking
- Re-alignment



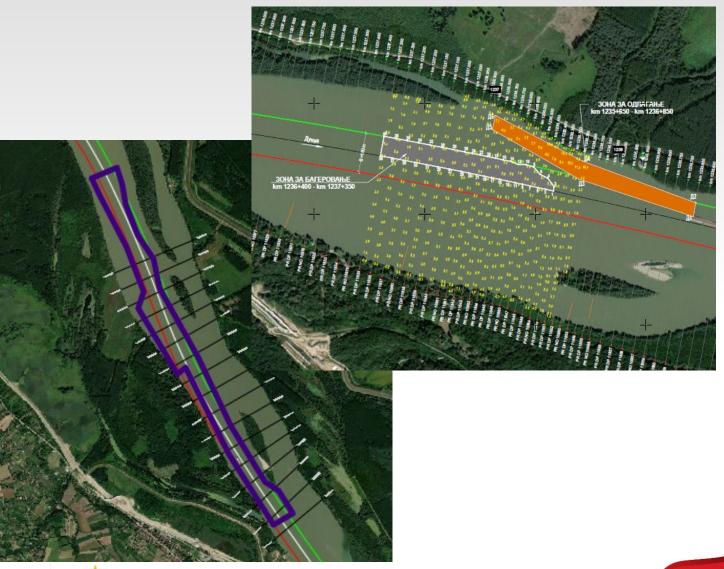
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Planned activities in 2025 (km 1295+500 - km 845+600)

- Dredging works
 - CS Čortanovci (Q2 2025)
 - CS Arankina Ada (expected)
- Hydrographic surveys
 - CS prioritized (Preliv, Čortanovci, Futog)
 - Dredging plan
 - Allocated 2.5 mil. € (2025)





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International projects - ongoing

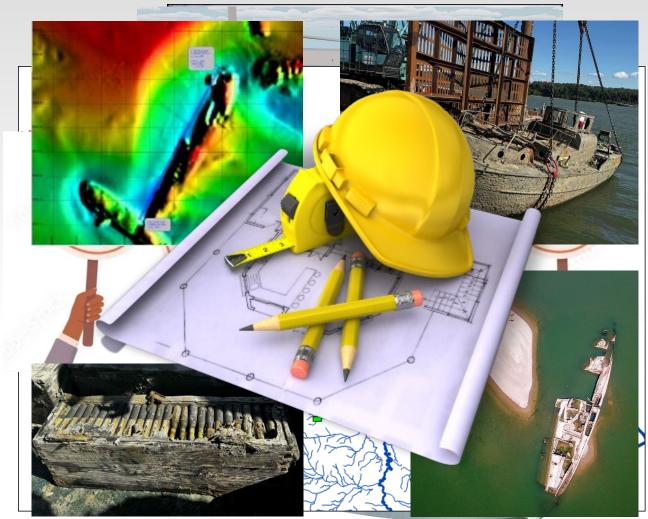
- Marking vessel (exp. Q4 2025) & Hydrographic vessel (exp. Q2 2025)
- Network of Hydro-Meteo Stations (exp. Q3 2026)
- River training and dredging works on the Sava River - the Drina Confluence (exp. Q2 2027)
- UXO Survey and Removal of sunken German fleet (exp. Q3 2028)
- Construction of the new lock on the Tisa River (design phase)

Bank

Co-financed by the European Union

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THANK YOU FOR YOUR KIND ATTENTION



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