Planned Fairway Activities for 2026 in Hungary

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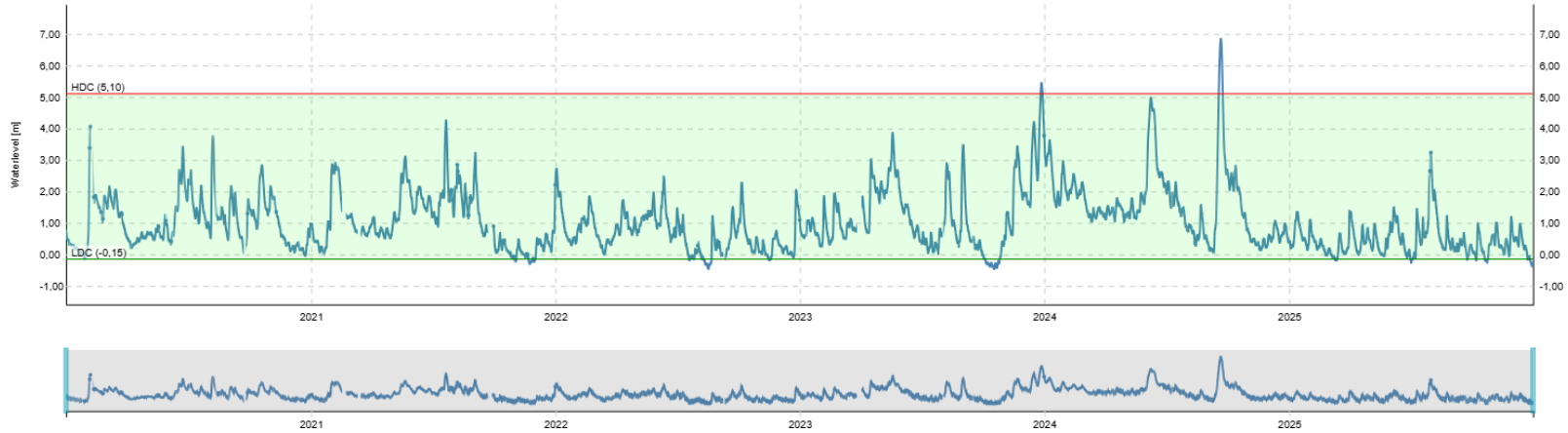
Date: 5 March 2026

Expert Meeting on Hydrotechnical Matters

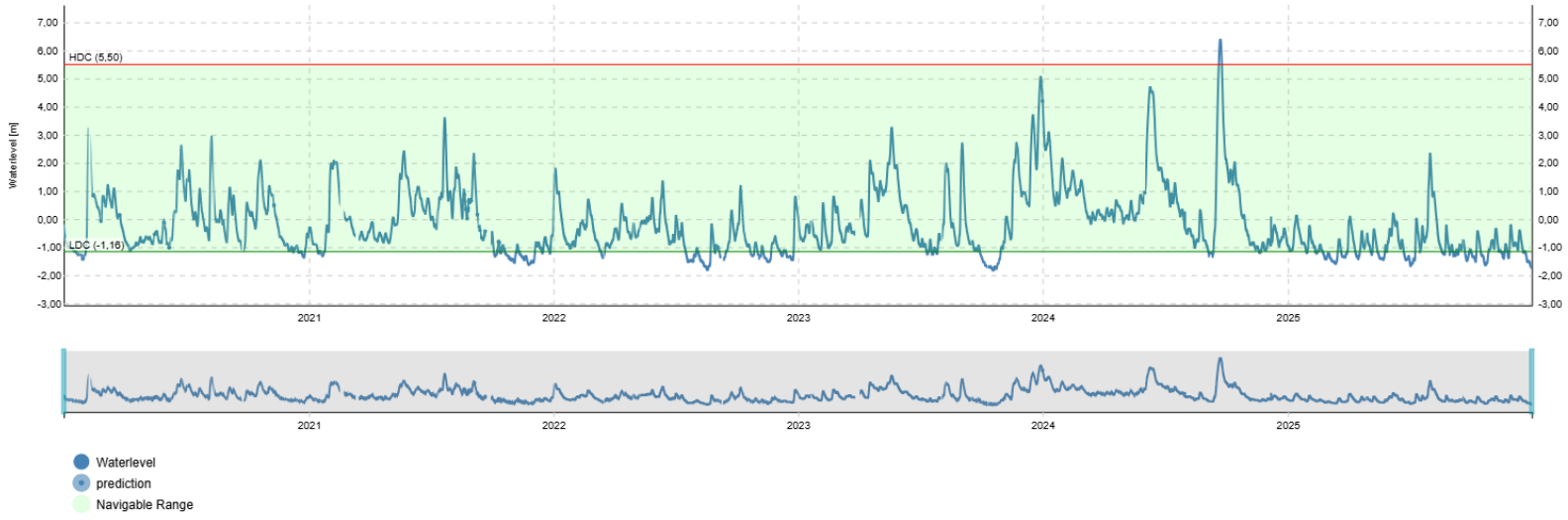
OUR WATER VISION

Hydrological status of the main critical sections

NAGYMAROS: Waterlevel (2020. 01. 01. - 2025. 12. 31.)



DUNAFOLDVAR: Waterlevel (2020. 01. 01. - 2025. 12. 31.)



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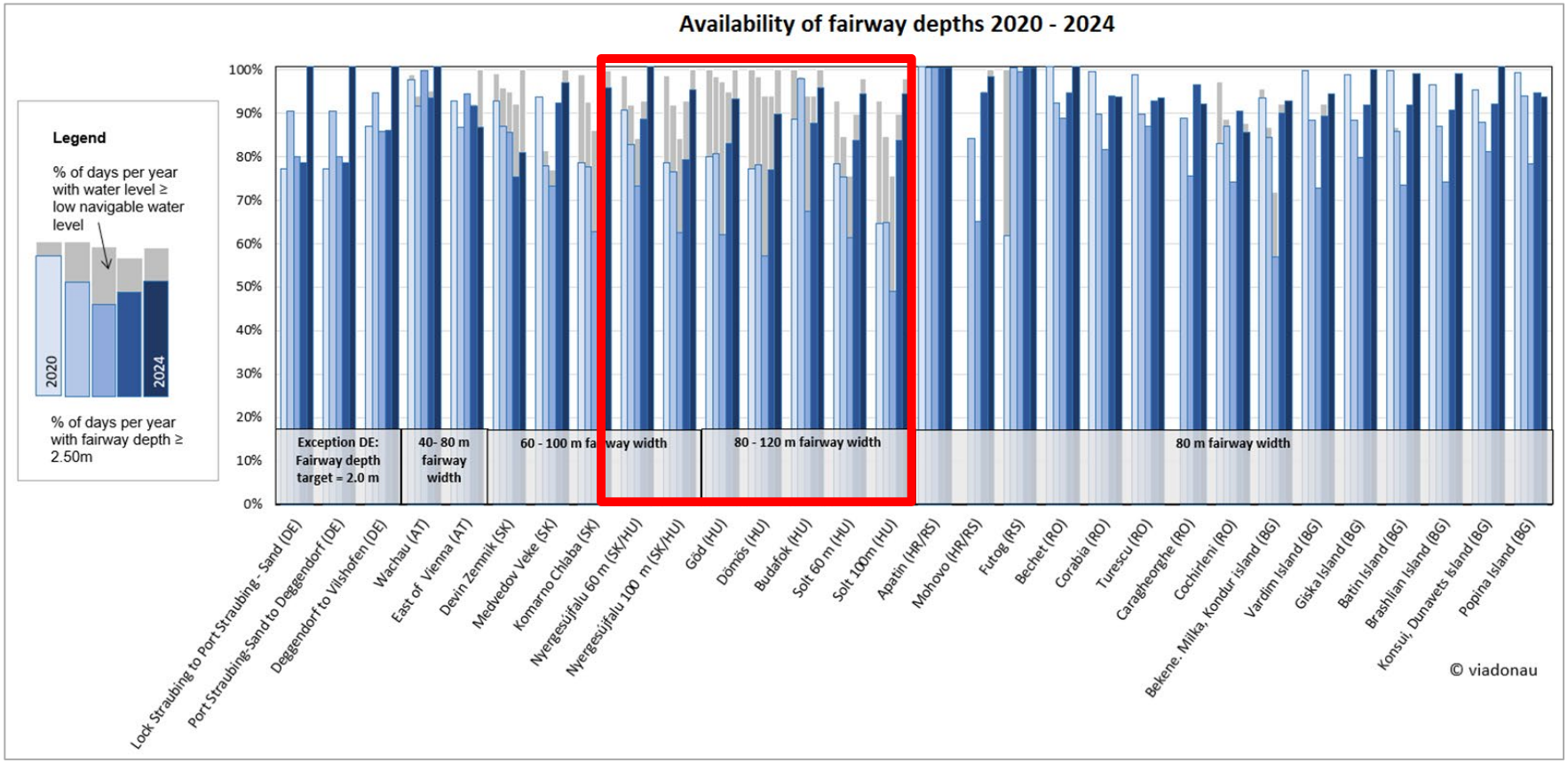
Main problems

- Big difference between days/yr depth > ENR and days/yr depth > 25 dm -> **insufficient depth conditions**



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Main difficulties of river regulation in the Hungarian section

- Regulated, but free-flowing river section only
- Low water levels are continuously decreasing
  - Hydromorfologic issues (riverbed level decreasing)
    - excessive dredging in 60-70's
    - varied riverbed material
    - sediment transport imbalance (reduced bedload transport)
  - Hydrologic issues
    - low water periods by higher frequency and duration (climate change!?)
- waterway alignment difficulties (curves with low radius)

Activities carried out in 2025

We secured the right of use for the **TEN-T project plan**s from 2021 (our national fairway rehabilitation plan). OVF insured **52000 EUR internal budget** to update and improve the plans and for the permits.

We have developed a feasibility assessment for the designation of a **deep channel** at the most critical bottlenecks of the Hungarian Danube.

We have prepared **the draft governmental proposal** intended to be submitted by the Ministry of Energy to enhance navigability on the Danube.

Other routine activities:

- riverbed surveys on the bottlenecks (once or twice a year)
- Constant hydrological monitoring
- Fairway marking and inspection tours

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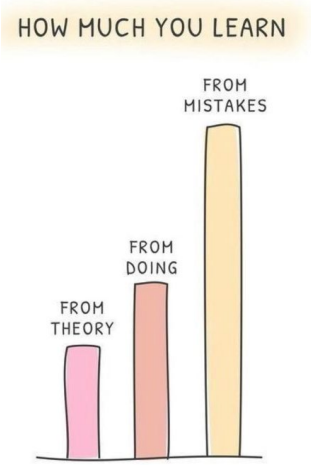
Reassessment of the TEN-T plans

- We listed what went wrong last time
- Instead of one big project, we prioritized our main critical sections:
- Nyergesújfalu, Dömös, Nagymaros, Göd, Dunaföldvár and Solt
- Chose the easiest task for a pilot



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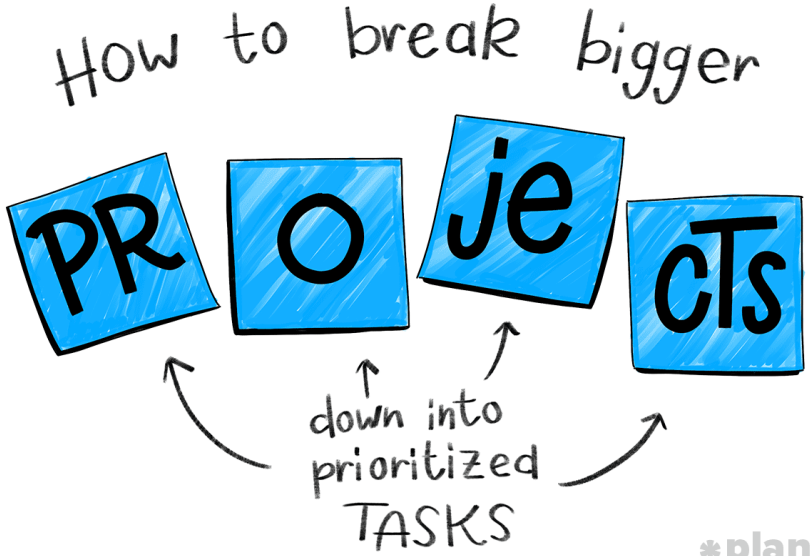
SOLT,
DÖMÖS



Solt shallow and narrow section

Present:

- Danube between 1558,0-1557,2 rkm
- Depth at ENR: 23 dm in 80 m

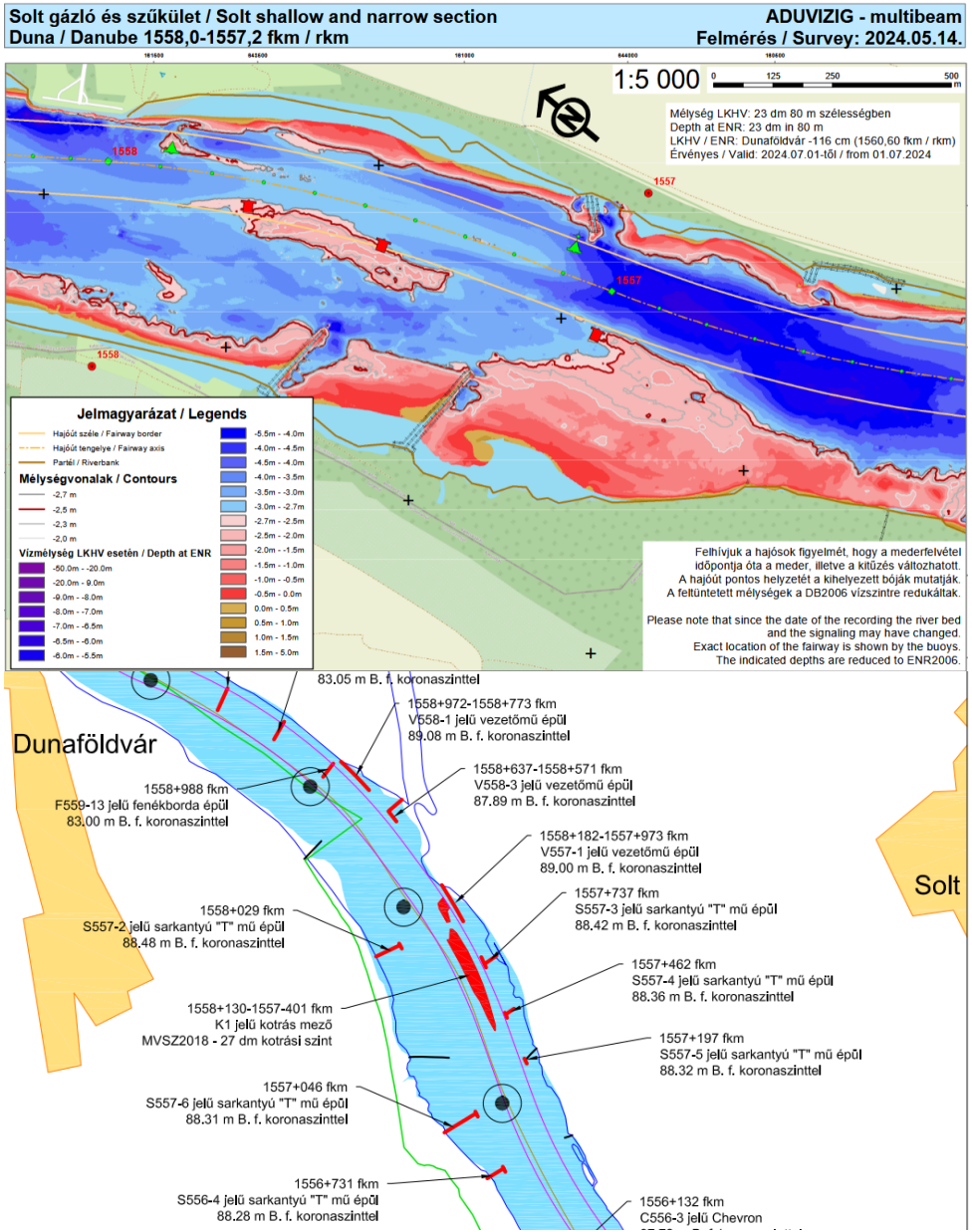
Planned intervention in TEN-T project:

- Hydraulic structures (groynes, guide bank)
- Dredging volume: 4 580 m^3

Assumed impact of regulation measures:

Depth at ENR:

27 +2 dm in 100 m



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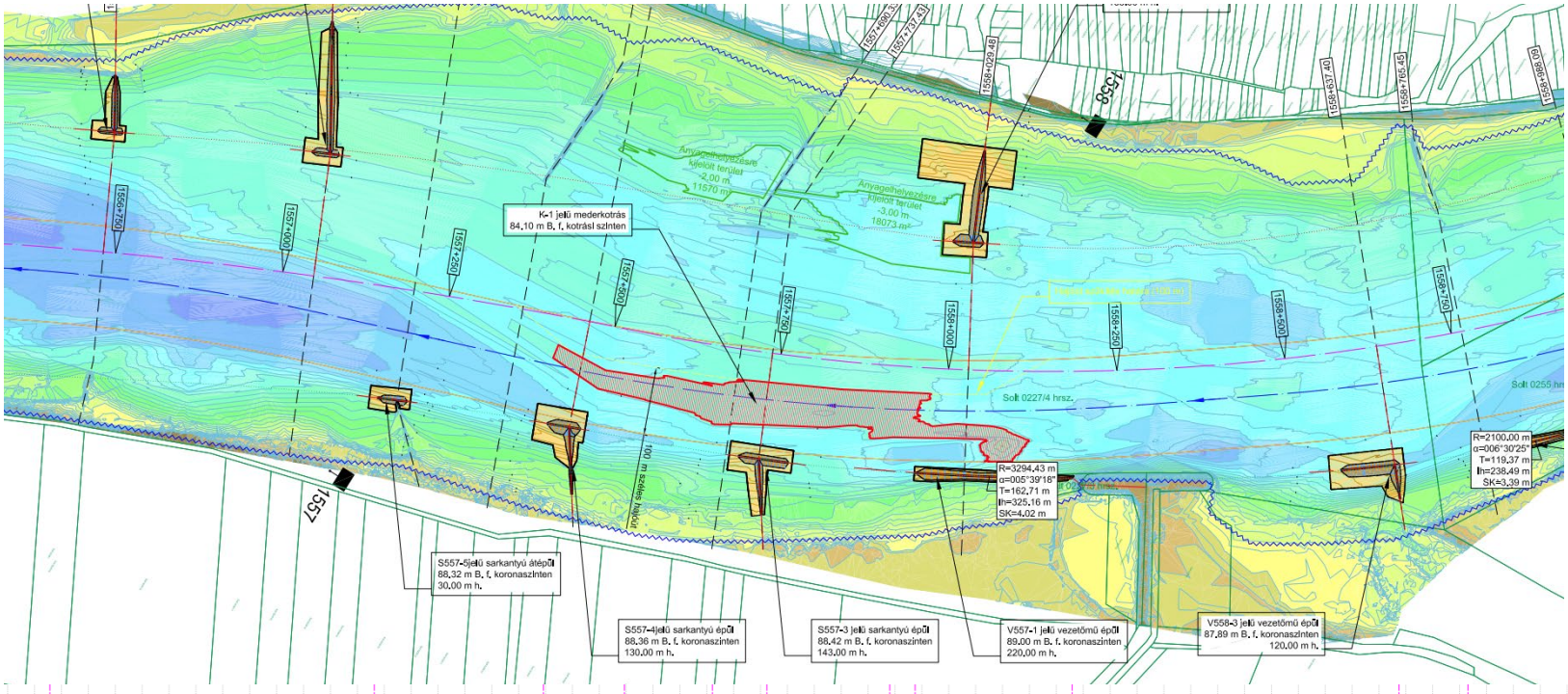
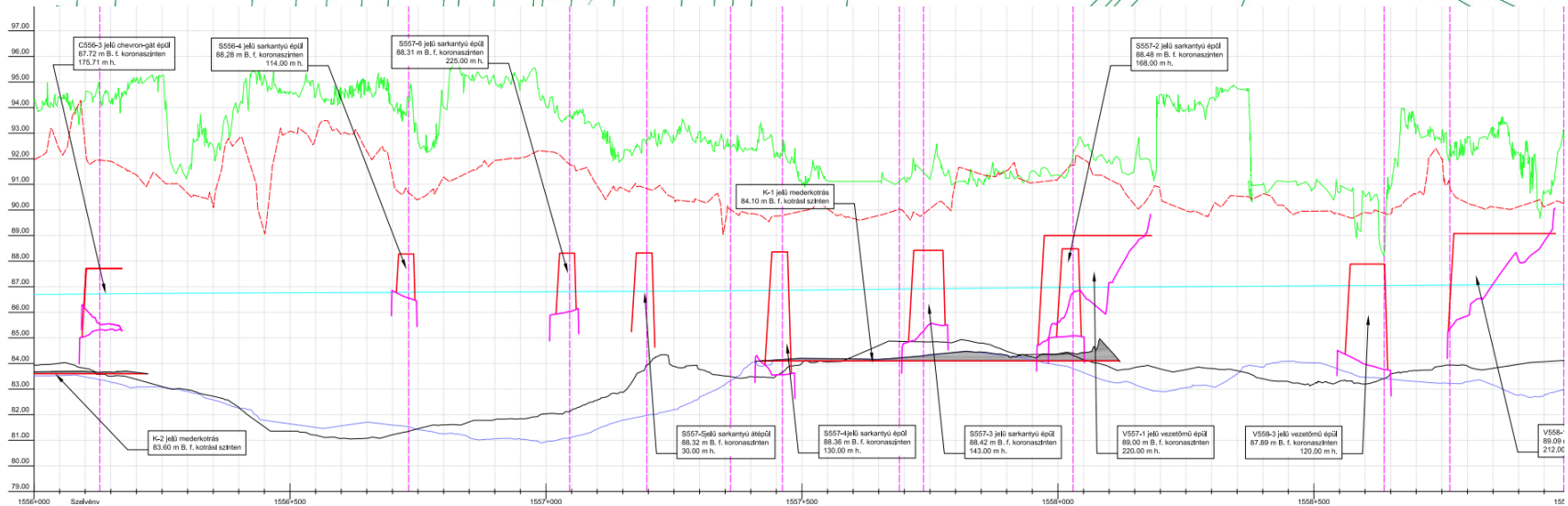
Solt shallow and narrow section





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Lower Solt shallow and narrow section

Present:

- Danube between 1555,8-1554,6 rkm
- Depth at ENR: 27 dm in 80 m

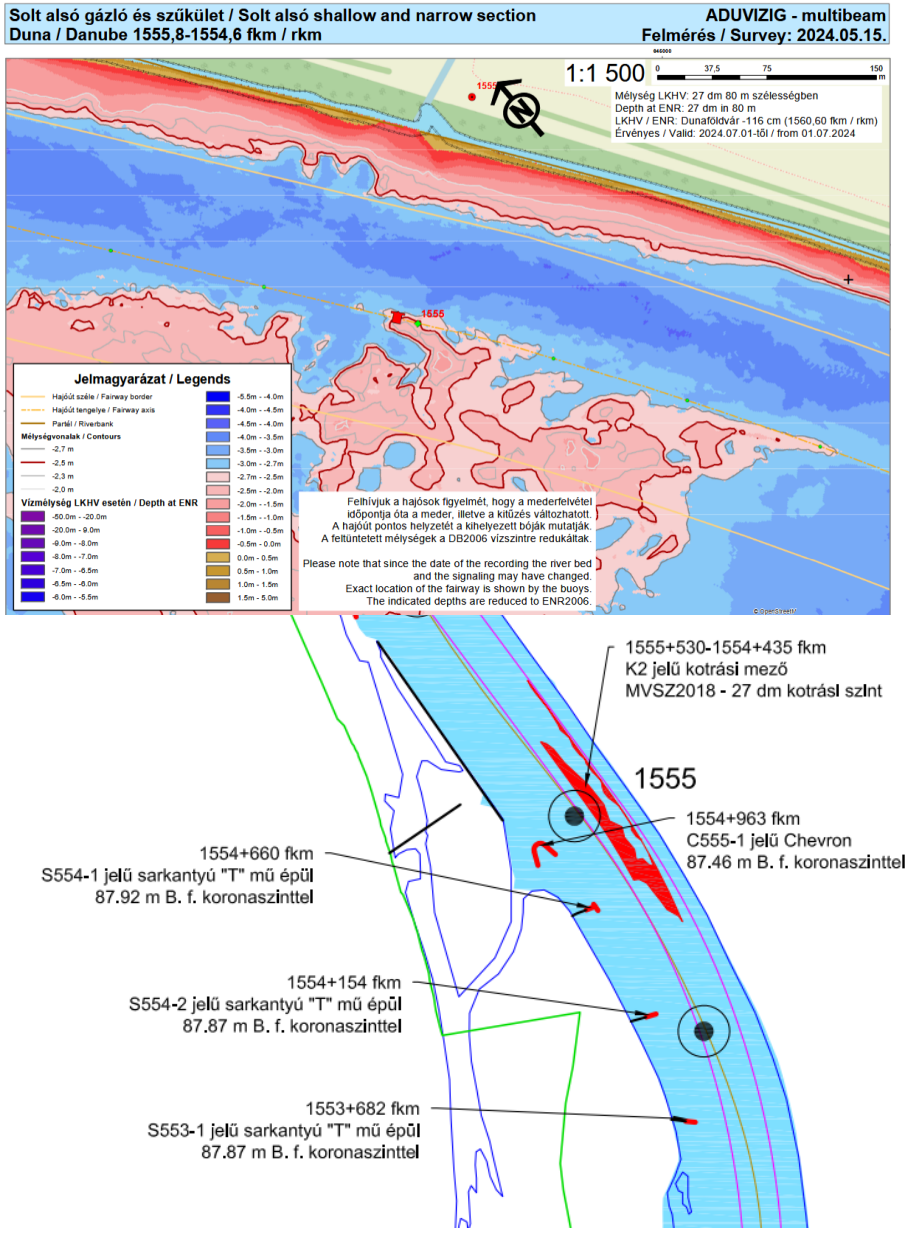
Planned intervention in TEN-T project:

- Hydraulic structures (groynes, guide bank)
- Dredging volume: 7 500 m^3

Assumed impact of regulation measures:

Depth at ENR:

29 + 2 dm in 100 m



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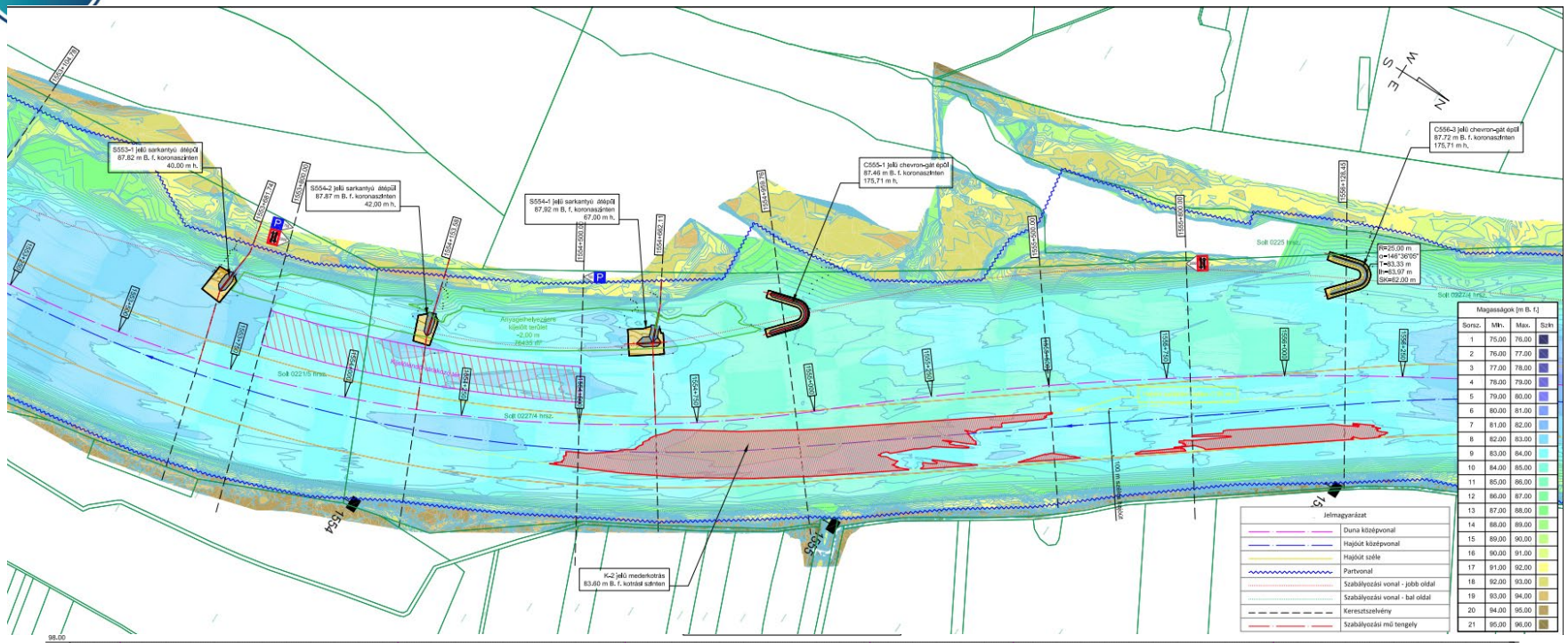
Lower Solt shallow and narrow section



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Lower Dömös shallow section

Present:

- Danube between 1699,3-1697,7 rkm
- Depth at ENR: 19 dm in 80 m

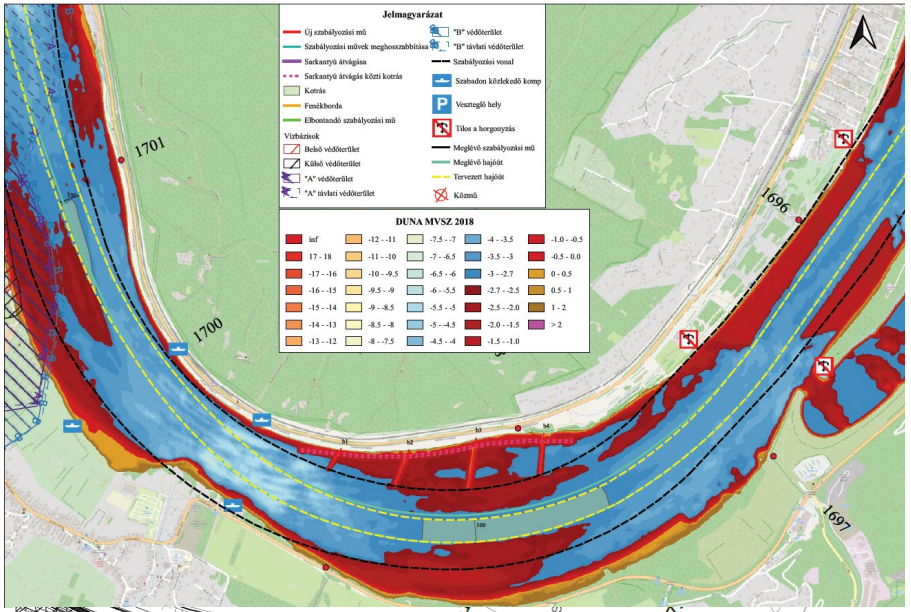
Planned intervention in TEN-T project:

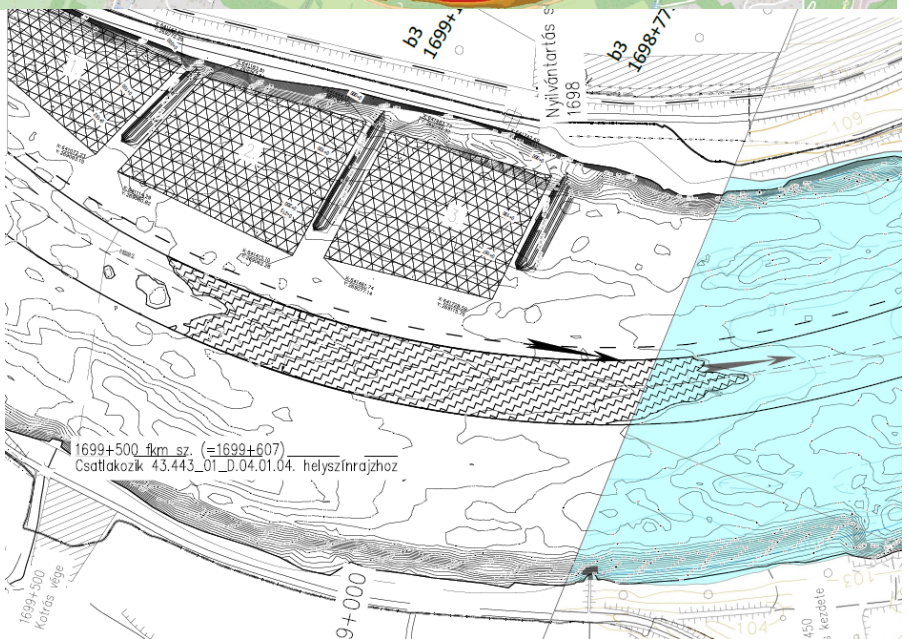
- Hydraulic structures
- Dredging volume: 15 410 m^3

Assumed impact of regulation measures:

Depth at ENR:

25 + 3 dm in 100 m





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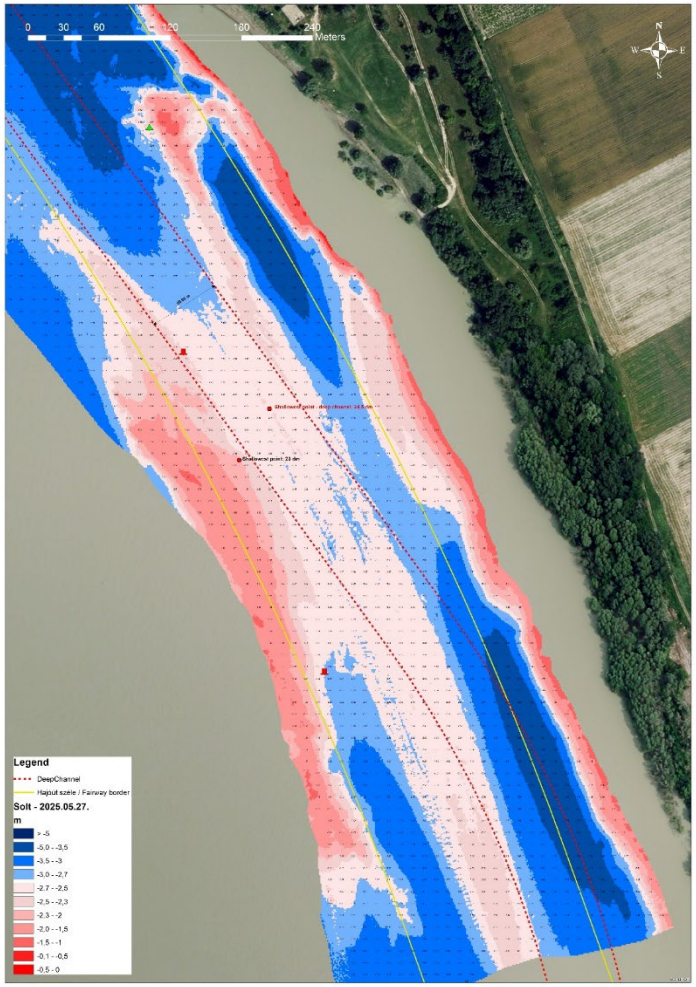
Deep channel designation

Planned activities for 2026

1. New digital maps, designation ✓
2. Development of the relevant regulatory framework (set of rules) – under discussion
3. Testing applicability on pilot sections (e.g. Dömös)
4. After succesful tests, update of notice of skippers, publish updated maps and geometry
5. Examination of maintenance dredging



Possible deep channel designation at lower Solt shallow and narrow section

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Improving the publication of bottlenecks and fairway depths

Publication of fairway depths in **centimeters** and at **hourly** intervals on the official website

- Notice to skippers –by Shipping Authority (ÉKM)
- Informing relevant stakeholders appropriately about the change
- Partly supported on the Danube FIS Portal
- Implementation requires modifications to the national hydrological database

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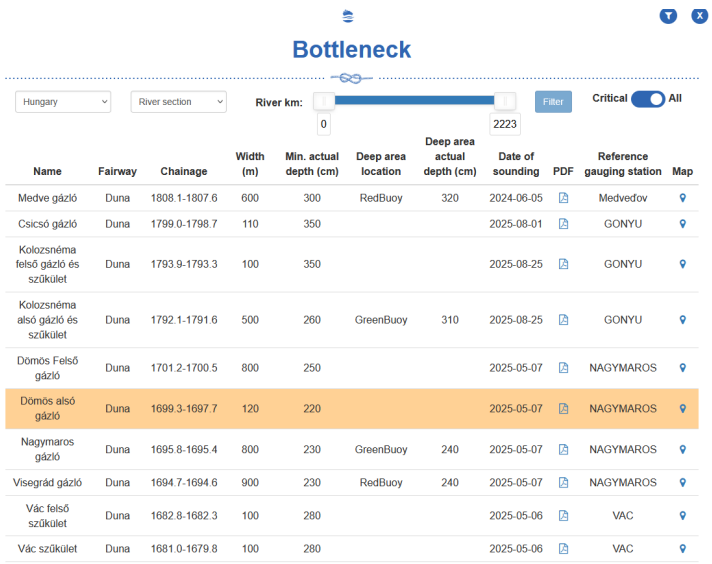


Bottleneck

Hungary | River section | River km: 0 – 2223 | Filter | Critical / All

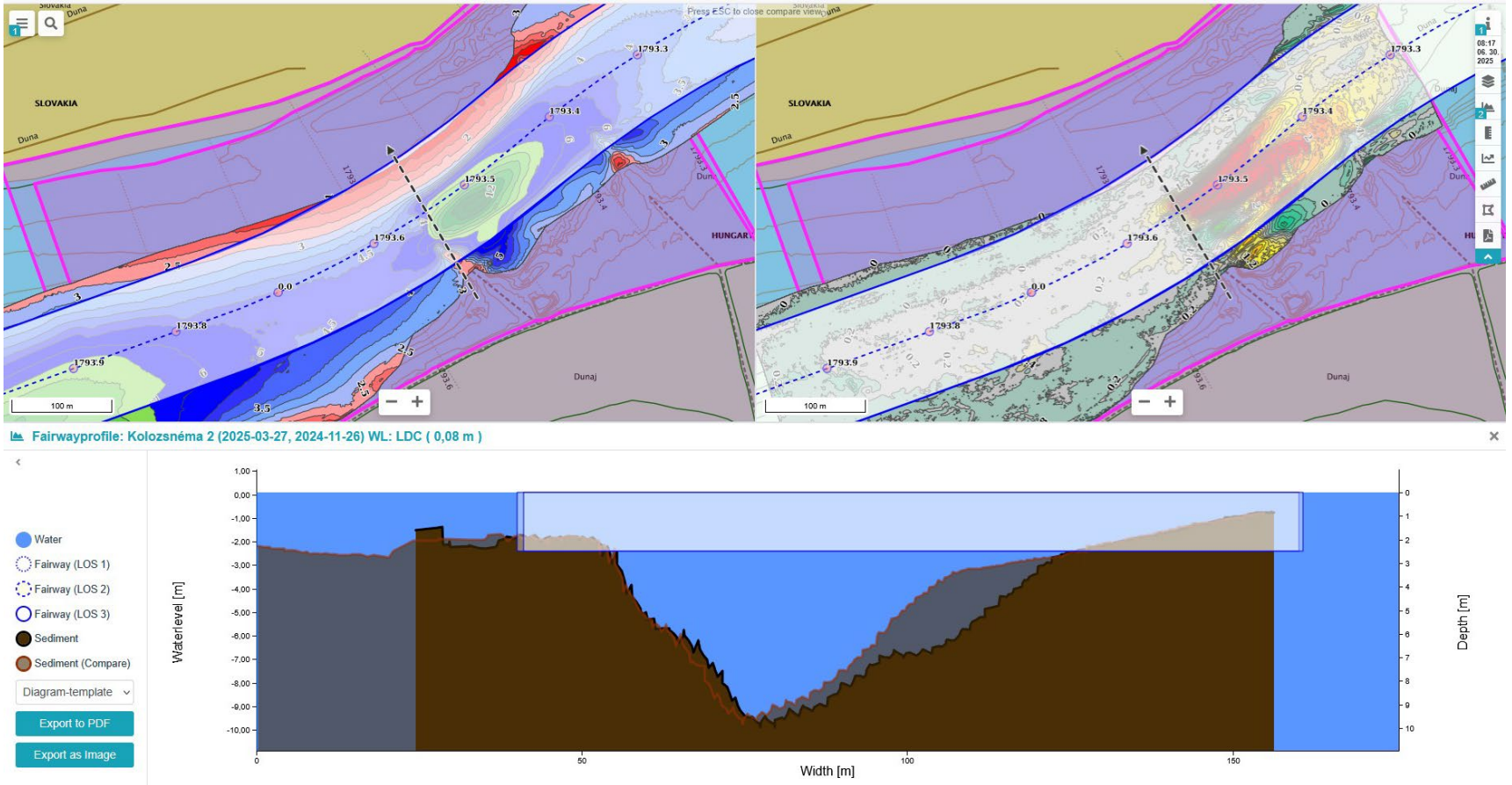
Name	Fairway	Chainage	Width (m)	Min. actual depth (cm)	Deep area location	Deep area actual depth (cm)	Date of sounding	PDF	Reference gauging station	Map
Medve gázló	Duna	1808.1-1807.6	600	300	RedBuoy	320	2024-06-05		Medveďov	
Csicsó gázló	Duna	1799.0-1798.7	110	350			2025-08-01		GONYU	
Kolozsnéma felső gázló és szűkület	Duna	1793.9-1793.3	100	350			2025-08-25		GONYU	
Kolozsnéma alsó gázló és szűkület	Duna	1792.1-1791.6	500	260	GreenBuoy	310	2025-08-25		GONYU	
Dömös Felső gázló	Duna	1701.2-1700.5	800	250			2025-05-07		NAGYMAROS	
Dömös alsó gázló	Duna	1699.3-1697.7	120	220			2025-05-07		NAGYMAROS	
Nagymaros gázló	Duna	1695.8-1695.4	800	230	GreenBuoy	240	2025-05-07		NAGYMAROS	
Visegrád gázló	Duna	1694.7-1694.6	900	230	RedBuoy	240	2025-05-07		NAGYMAROS	
Vác felső szűkület	Duna	1682.8-1682.3	100	280			2025-05-06		VAC	
Vác szűkület	Duna	1681.0-1679.8	100	280			2025-05-06		VAC	

Gázlóviszonyok a Dunán
Kiadva: 2025. november 18. 08:27

#	Fkm-től	Fkm-ig	mélysége [dm]	szélessége [m]	hossza [m]	információ	helye	mélysége [dm]	szélessége [m]	hossza [m]	helyszínrajz
1	1808.1	1807.6	26	120	500		piros úszó mellett	28	60	500	
2	1799.0	1798.7		100	300	hajóútszűkület					
3	1797.4	1796.6		80	800	hajóútszűkület					
4	1796.3	1795.5		110	800	hajóútszűkület					
5	1795.5	1795.2		80	300	hajóútszűkület					
6	1793.9	1793.3		70	600	hajóútszűkület					
7	1792.1	1791.6	22	100	500		zöld úszó mellett	27	50	500	
8	1789.2	1788.3	25	120	900		piros úszó mellett	27	80	900	
9	1786.7	1785.9	25	120	800		zöld úszó mellett	28	80	800	
10	1735.2	1733.3	21	100	1900		piros úszó mellett	24	60	1900	
11	1732.6	1732.2	22	130	400		zöld úszó mellett	27	90	400	
12	1726.0	1724.4	26	120	1600						
13	1711.5	1710.7	22	100	800		piros úszó mellett	24	70	800	

Increasing the frequency of riverbed survey

Bed Changes at Kolozsnéma in 4 Months – dynamic section



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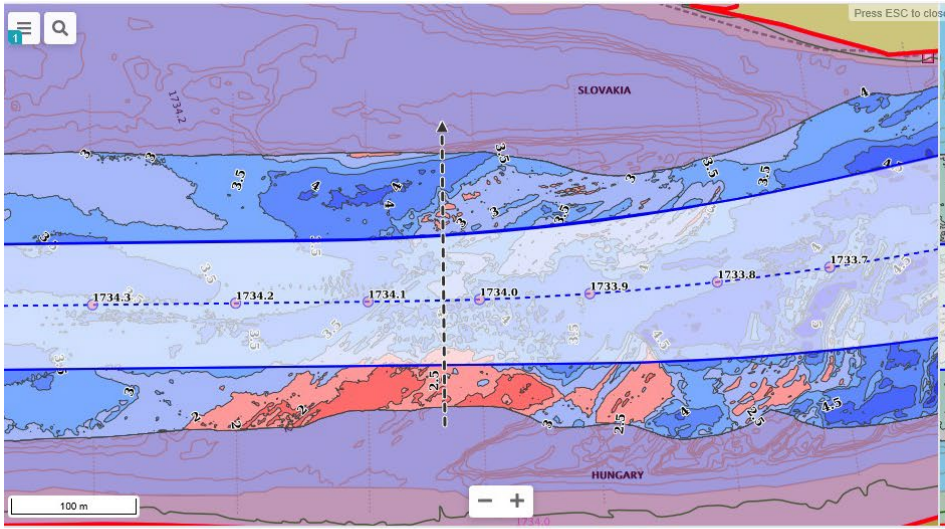
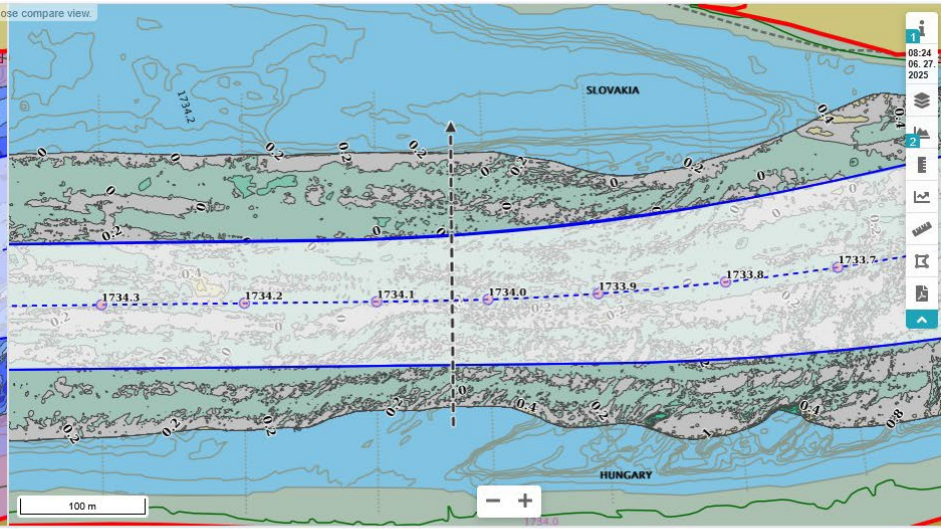
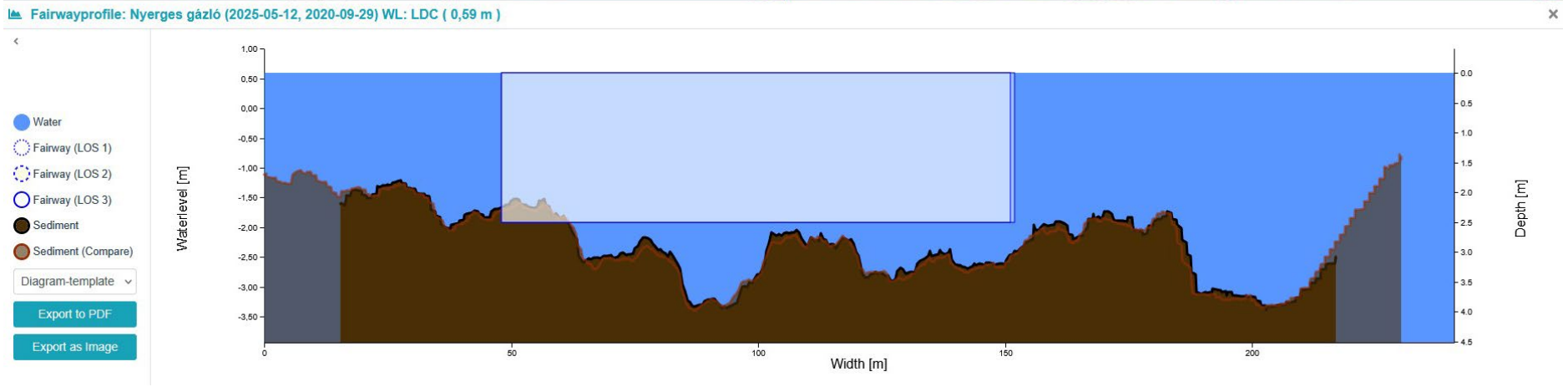
Increasing the frequency of riverbed survey

Bed Changes at Nyergesújfalu in 5 years – stable section







Operational expenditures for conducted activities in 2025 and budget needs in 2026

Need area	Operational expenditures 2025 [€]	Required operational budget 2026 [€]	Secured operational budget 2026 [€]	Remaining financing gap 2026 [€]
Minimum fairway parameters (width/depth) – maintenance dredging	40 000	40 000	40 000	0
Surveying of the riverbed	49 743	58 874	57 874	1 000
Water level gauges	10 204	10 240	10 240	0
Marking of the fairway	644 023	697 287	697 287	0
Availability of locks / lock chambers	0	0	0	0
Information on water levels and forecasts	18 927	21 454	21 454	0
Information on fairway depths	2 802	3 110	3 110	0
Information on marking plans	13 527	16 529	16 529	0
Meteorological information	0	0	0	0
Other needs	200	200	200	0
Sum [€]	**779 426**	**847 694**	**846 694**	**1 000**

Other budget needs in 2026

Need area	Required budget 2026 [€]	Secured operational budget 2026 [€]	Remaining financing gap 2026 [€]
Updating and improving the TEN-T plans, permitting (Solt and Dömös)	52 000	52 000	0
Improving the publication of bottlenecks and fairway depths	5 000	0	5 000
Increasing the frequency of riverbed surveys	80 000	0	80 000
Sum [€]	**137 000**	**52 000**	**85 000**

The estimated expenditure for the physical intervention at Solt and Dömös: 7 500 000 EUR

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Summary, planned activities for 2026

Planned Activities

- Update of the TEN-T Plans
- Deep Channel Designation & New Digital Maps
- Development of the Regulatory Framework
- Improved Publication of Bottleneck Data
- Increased Frequency of Riverbed Surveys

Financial & Legal Support

↓

Ministry of Energy

↓

Government Submission

Thank you for your attention!