



Fairway information and water conditions

Plans for 2025

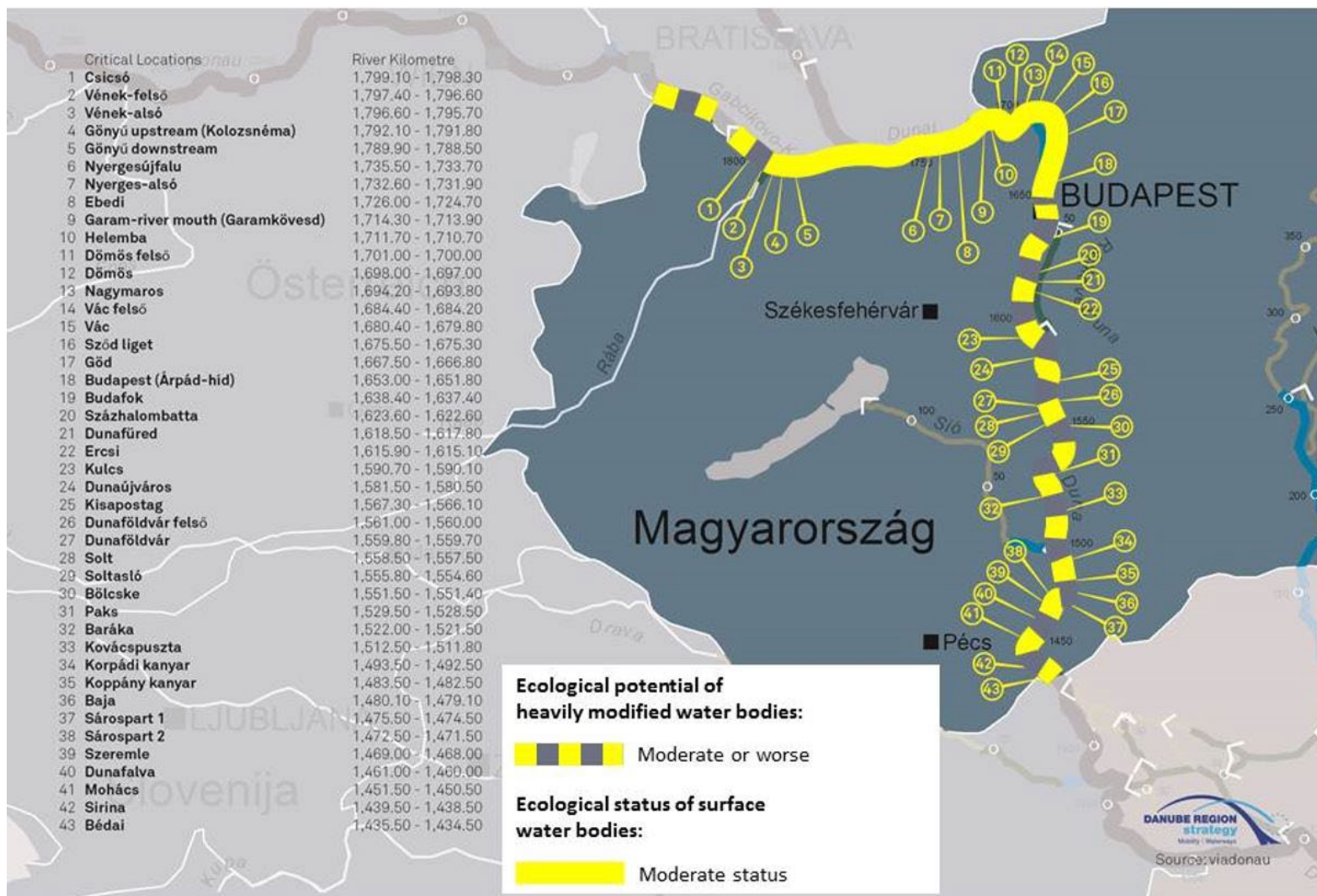


CHARACTERISTICS

International border: 103 rkm – EDUVIZIG

National sections – KDVIZIG & ADUVIZIG: 148 +127 rkm

A MI VÍZÜGYÜNK





CHARACTERISTICS

Szap – southern international border: 433 rkm

EDUVIZIG:

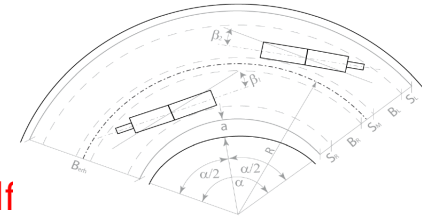
- Bottleneck above ENR: 8 db
- Shallow section above ENR: 1 db
- Bottleneck under ENR: 9 db
- Shallow section under ENR: 1 db

KDVVIZIG:

- Bottleneck above ENR: 9 db
- Shallow section above ENR: 11 db

ADUVIZIG:

- Bottleneck above ENR: 4 db
- Shallow section above ENR: 0 db
- Bottleneck under ENR: 4 db
- Shallow section under ENR: 2 db
- 1 dm safety distance
- And ADN couldn' use the deep chanel -> 123/Du/2022



19 rkm bottlenecks -> pdf
10,7 rkm shallow sections -> pdf

And:

7,9 rkm bottlenecks under ENR -> pdf
1,3 rkm shallow sections under ENR -> pdf
IFAF webservice & hydroinfo too below ENR

- Only free-flowing sections
- Riverbed subsidence – Gönyű area & between Kisapostag and Paks
- Fairway curve difficulties – Dömös (Dunakanyar) & Gönyű & Vének & Nyerges & Vác & Dunaföldvár
- Sediment problems – longitudinal & cross-sectional
- Varied riverbed material: rocky bed, gravel, sand ...



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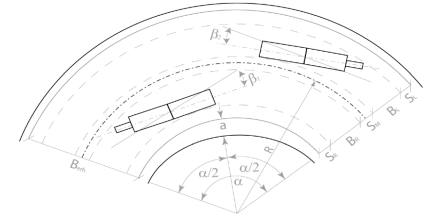
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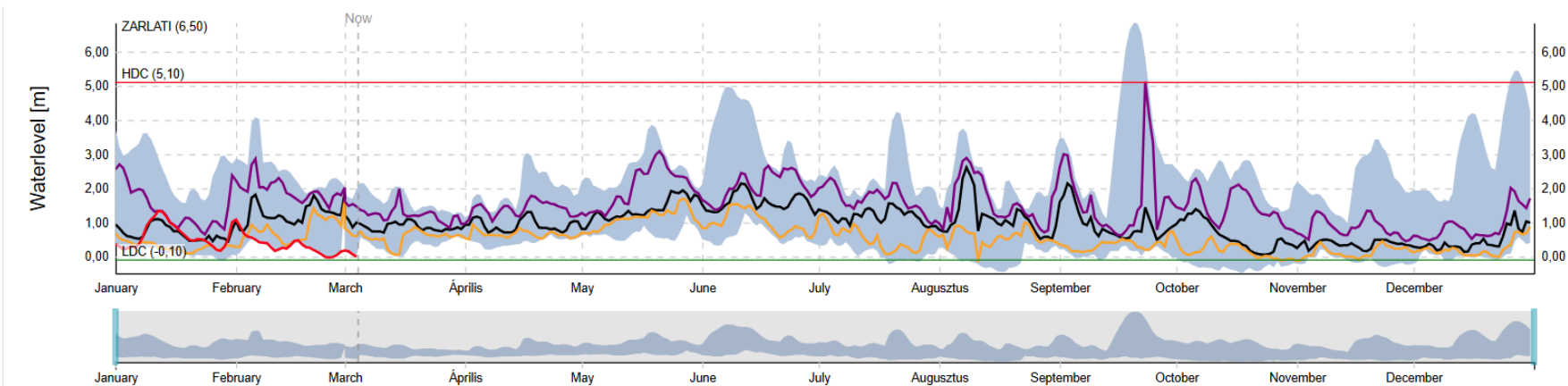


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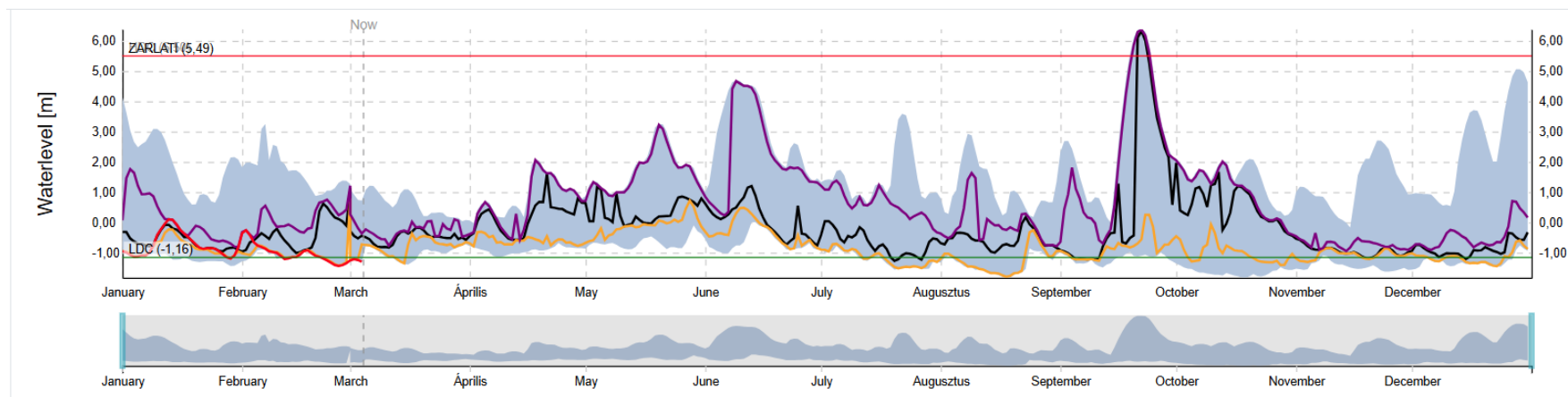


CHARACTERISTICS – WATER REGIME

Nagymaros



Dunaföldvár





CHARACTERISTICS – PROBLEMS

Navigare necesse est, vivere non est necesse -> What makes it harder to navigate ...

Discharge – trend decline

Water level suction by riverbed subsidence below (downstream) natural bottleneck (reef) [n. bottleneck: which riverbed sections higher than surrounding riverbed profil in longitudinal but is not always a problem for navigation]

Riverbed fallout is growing

Continuously formed – n. bottleneck's inflexions

Low water levels are continuously decreasing (by meters) because the Danube riverbed is deepening in specific sections ...

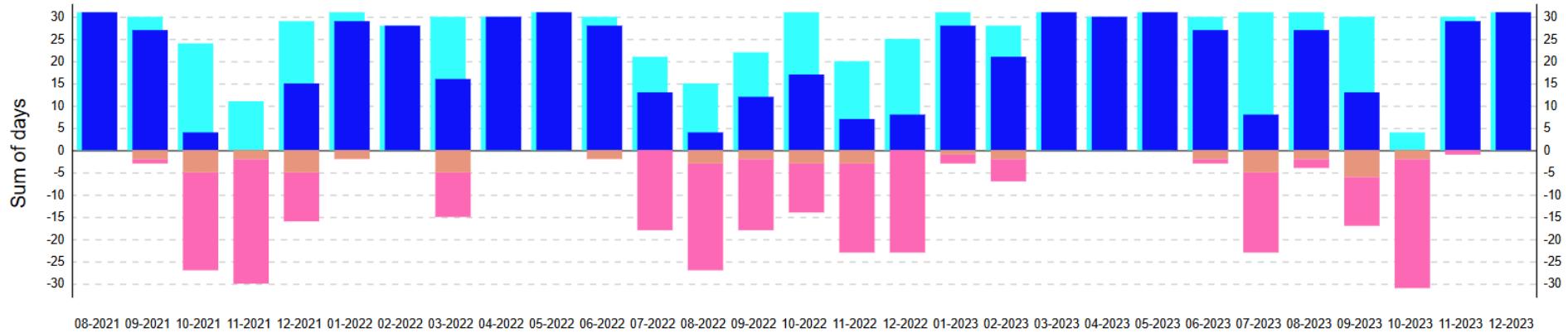
- Same water level – decreasing Q
- Riverbed subsidence – Gönyű area & between Kisapostag and Paks -> same Q – decreasing water level
- Sediments decreasing & riverbed subsidence
- More real bottlenecks and shallow sections



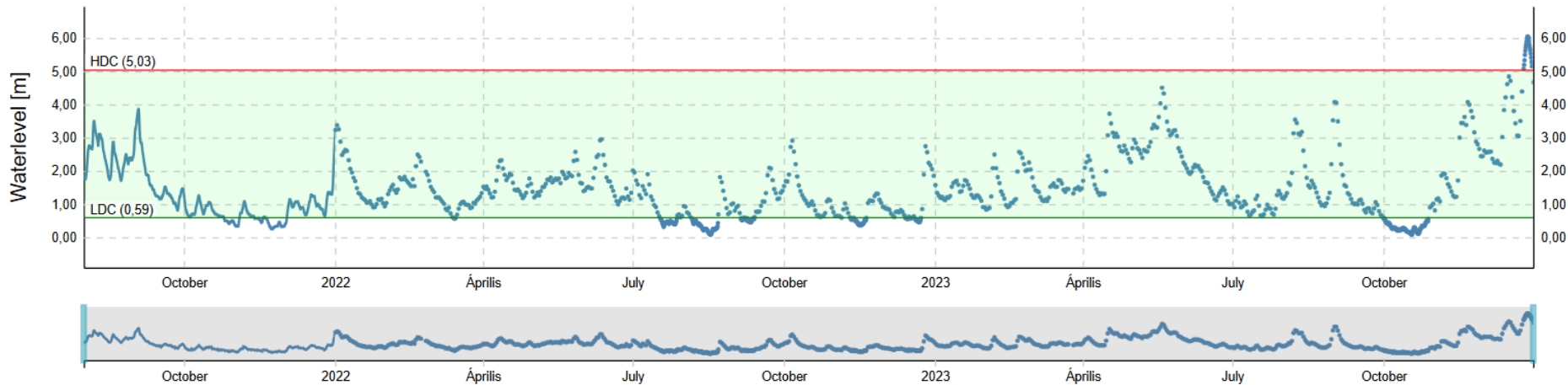
CHARACTERISTICS - BOTTLENECKS

Nyerges Bottleneck

Depth: Nyerges gázló (2021. 08. 01. - 2023. 12. 31.) monthly



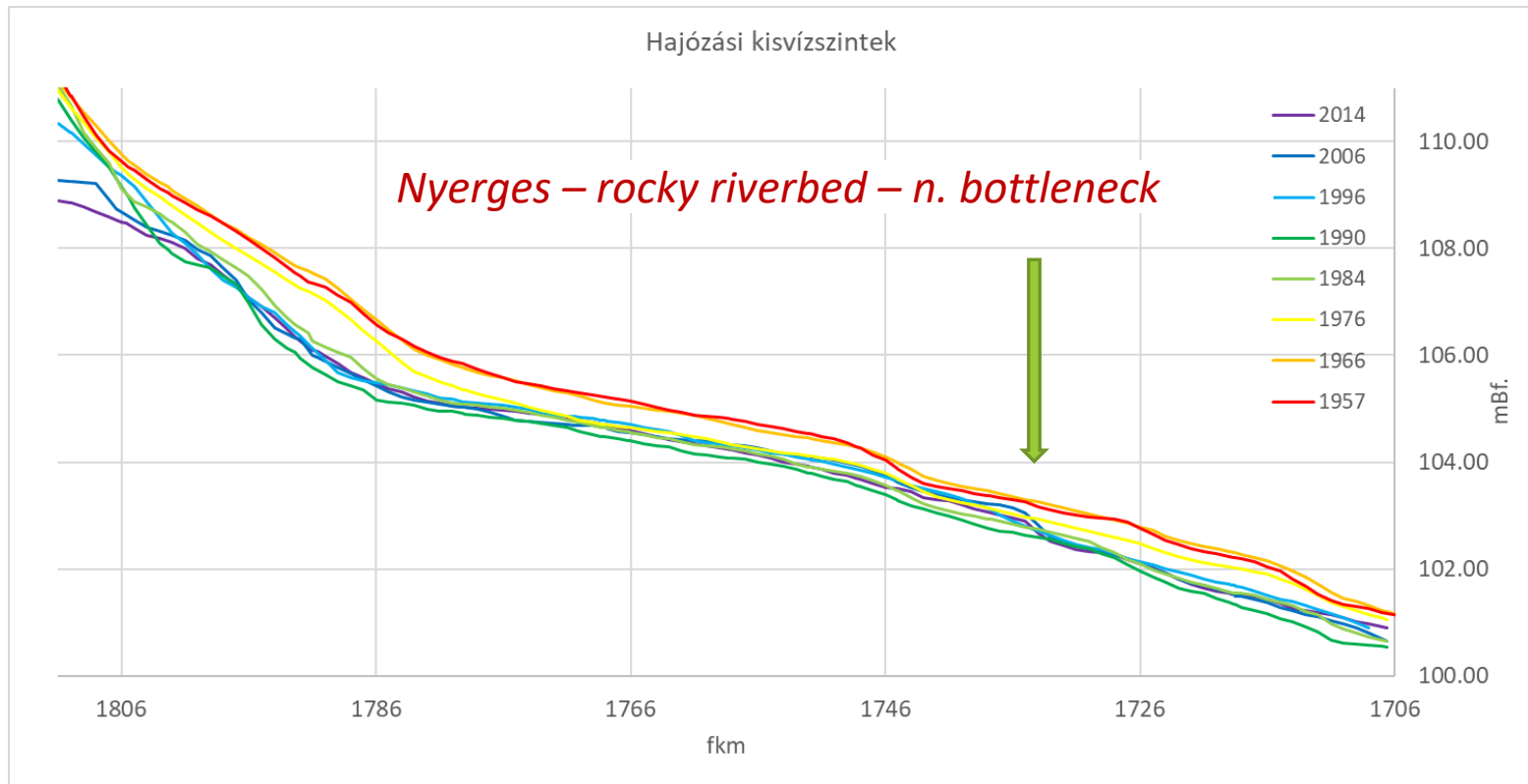
(2021. 08. 01. - 2023. 12. 31.)





PROBLEMS & GUARDIANS – WATER LEVEL

Navigare necesse est, vivere non est necesse -> [What makes it better to navigate ...](#)



Low water levels are continuously decreasing (by meters) because the Danube riverbed is deepening in specific sections



STATE BUDGET

App. ~ 372.000 EUR -> 2024 without dredging

2025 -> plans ~ 760.000 EUR if the Directorates can generate an additional source of income..

2025 -> state budgets was increased by the new minimal salary which is a fix and ensured salary by state

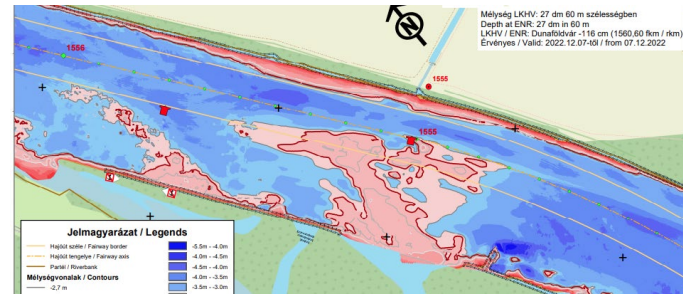
760.000 EUR -> can still only mean an improvement in the marking and better (planned) maintenance of the fleet, better informations; no dredging

(TEN-T projekt budget – river regulations and dredgings: app. ~ 87.805.000 EUR nettó – 2021 ---→ 155.900.000 EUR bruttó – 2025; Dunaföldvár - Solts' – 39.000.000 EUR bruttó)

We have only received the designer plans and associated rights from the Ministry of Construction and Transport in mid-February (2025). So that we can continue from this point to develop the designer plans and use its to obtain a water permit for the Solt-Dunafölvár area.



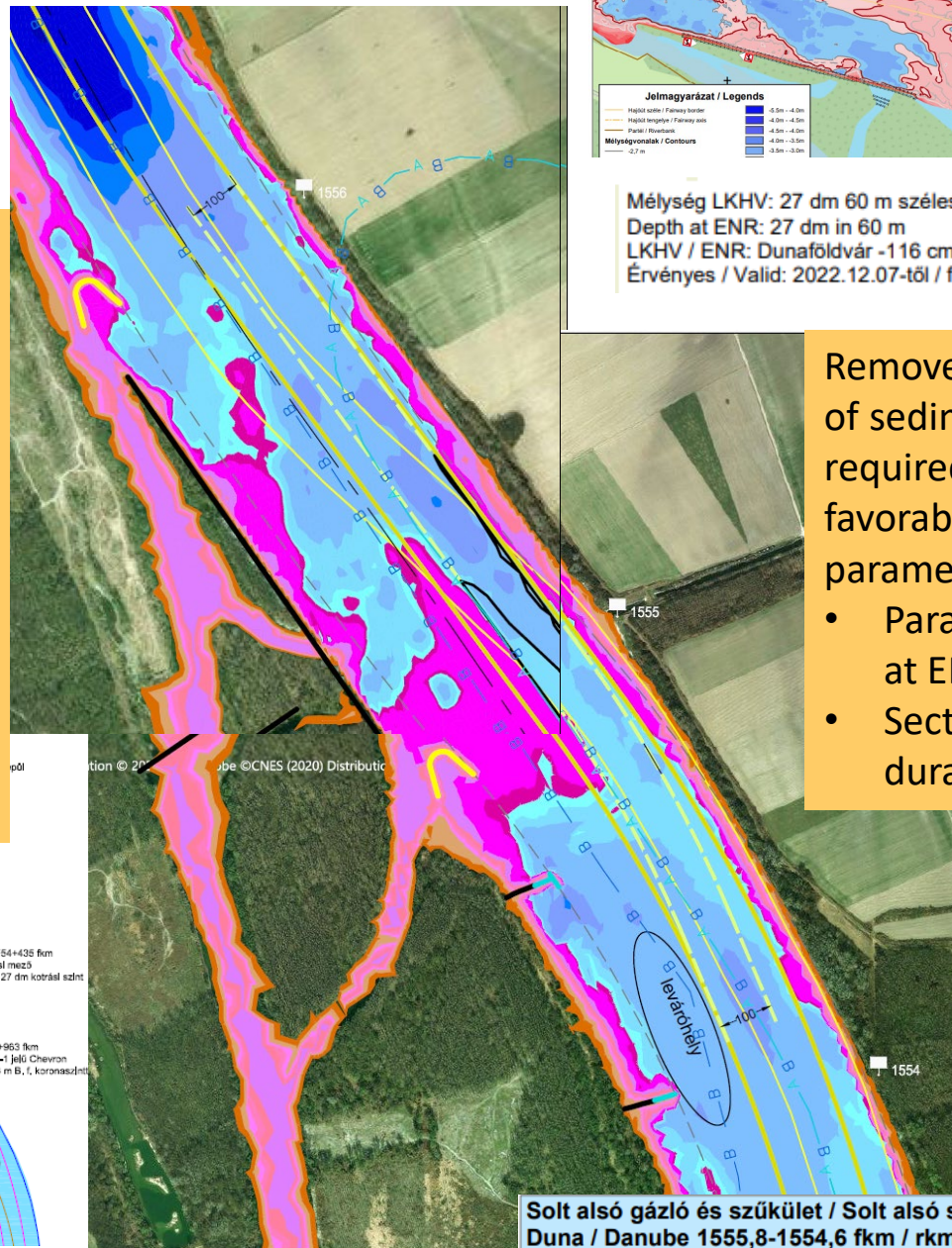
Intervention plan 2025



Mélység LKHV: 27 dm 60 m szélességben
 Depth at ENR: 27 dm in 60 m
 LKHV / ENR: Dunaföldvár -116 cm (1560,60 fkm / rkm)
 Érvényes / Valid: 2022.12.07-től / from 07.12.2022

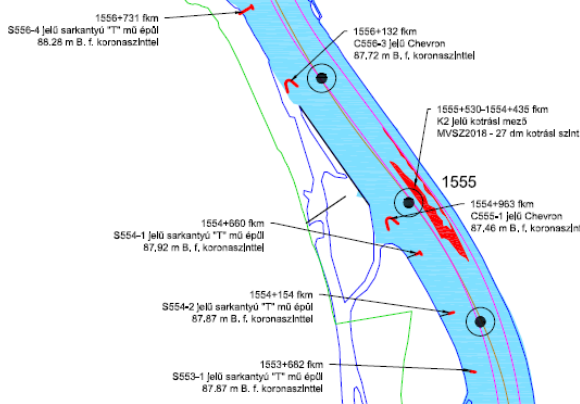
Remove only the quantity of sediment what is required to reach favorable fairway parameter

- Parameters are critical at ENR
- Section' water level durability is very low



Solt alsó gázló és szűkület / Solt alsó shallow and narrow section
 Duna / Danube 1555,8-1554,6 fkm / rkm

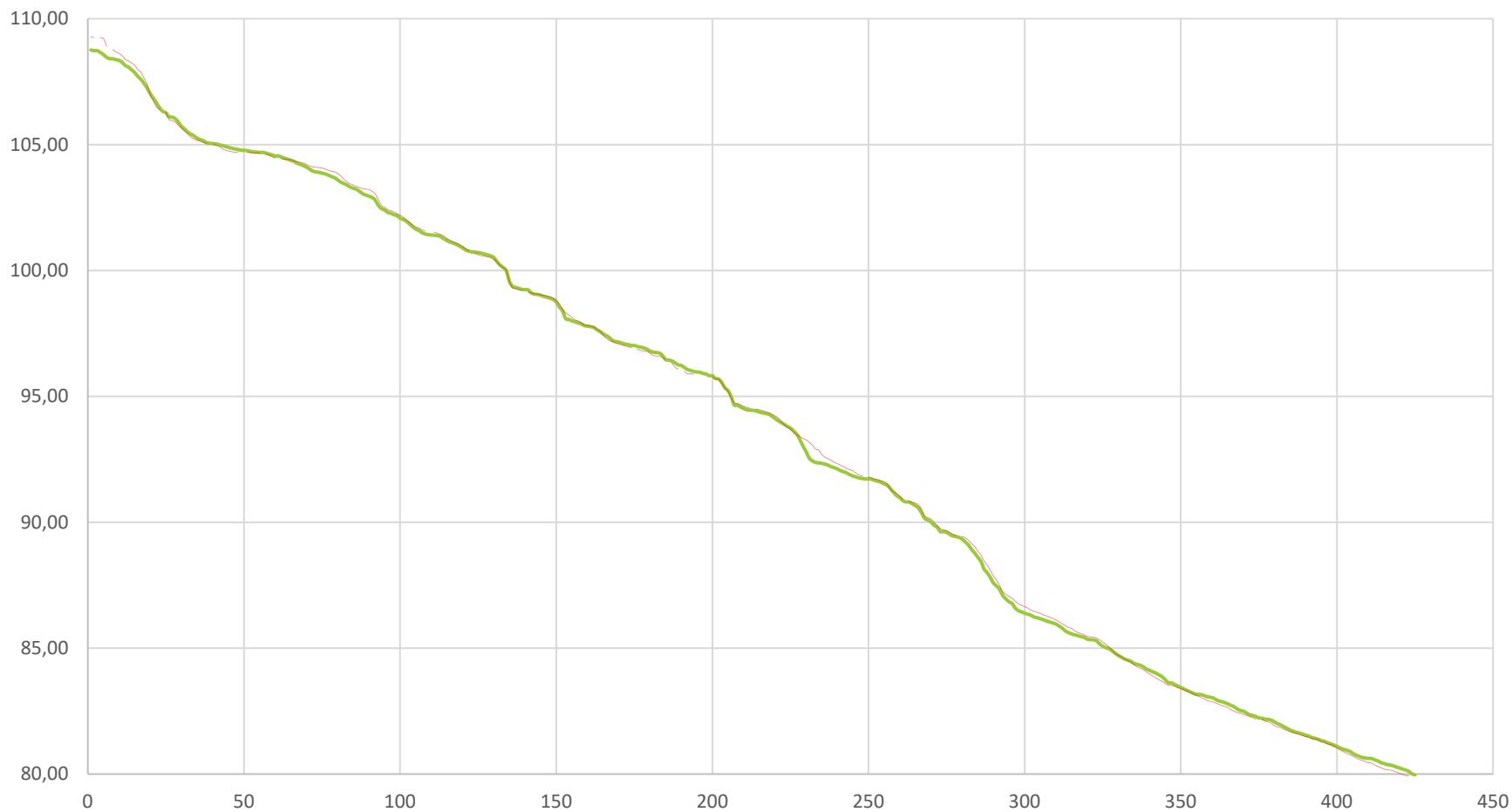
- A:**
- Fairway width will be reduced: 100 m
 - Groynes will be reduced
 - Dredging volume will be reduced
 - Waiting Berth- authority decision
- B:**
- Chevrons – ecological need
 - Water level surface will be higher in sidearm





ENR 2020

A MI VÍZÜGYÜNK



Section	DC 2020	Discharge Q _{94%}	Water Level Gauge Station	"0,, point of Gauge	Water Level Value of Gauge for DC 2020	Change of DC Value
fkm	mBf	m ³ /s		mBf	cm	m
1809.97	108.73	1000	Szap	108.10	63	-
1806.40	108.41	1000	Medve	107.38	103	-
1805.60	108.35	1000	Vámosszabadi	108.40	-5	-
1801.00	107.86	1000	Nagybajcs	107.40	46	-0.14
1792.37	106.32	1075	Kolozsnéma	104.65	167	-
1790.61	106.09	1075	Gönyű	106.04	5	0.10
1779.10	105.05		Aranyos	103.92	113	-
1768.30	104.71	1075	Komárom	103.88	83	0.00
1767.88	104.69	1075	Komarno	103.40	129	-
1763.96	104.55	1200	Izsa	103.58	97	-
1751.80	103.90	1200	Dunaalmás	103.12	78	-
1748.25	103.73	1200	Radvány	102.92	81	-
1718.60	101.41	1200	Párkány	100.94	47	-
1718.50	101.40	1200	Esztergom	100.92	48	-0.11
1707.20	100.74	1200	Szob	100.98	-24	-
1694.60	99.33	1200	Nagymaros	99.43	-10	0.05
1679.50	98.06	1200	Vác	98.12	-6	-0.17
1671.00	97.65		Göd	97.48	17	-0.02
1646.50	96.03		Budapest	94.97	106	0.13
1642.20	95.71		Kvassay-zsilip	94.82	89	0.02
1636.90	94.65		Budafo	94.39	26	-0.07
1613.20	92.38		Ercsi	92.56	-18	-0.53
1598.11	91.72		Adony	91.68	4	-
1586.20	90.81		Tass	89.24	157	-
1580.60	90.09		Dunaújváros	90.30	-21	-0.09
1571.70	89.40		Pentele híd	90.30		-
1560.60	87.47		Dunaföldvár & Beszédes József híd	88.86	-139	-0.23
1531.30	85.34		Paks	85.38	-4	-0.11
1506.80	83.62		Dombori	83.52	10	0.10
1478.70	82.17		Baja	80.99	118	0.10
1460.00	81.24		Dunaszekcső	79.92	132	0.04
1446.90	80.62		Mohács	79.20	143	0.18

Thank you for your attention!

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