

Danube STREAM

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Key project objective

Harmonized, innovative and pro-active
waterway management along the
Danube and its navigable tributaries

Key project objectives



Agreeing on common approaches for waterway management

- Danube STREAM will further contribute to the overall performance of the Danube waterway by raising the effectiveness of waterway management in the corridor.
- Establishing waterway management tools and by assuring environmentally sound waterway management, which will result in a better and more reliable infrastructure quality.
- Consequently, transport services on the river can be planned more accurately in terms of time reliability and available draught. The ecological footprint of the transport system in the Danube region will be reduced as an important side effect.

Key project objectives



Making required information easily accessible along the entire Danube

- Faced with varying and dynamic fairway conditions, commercial users of the Danube waterway rely on up-to-date and topical information on the fairway for their logistics planning processes.
- Danube STREAM will provide improved user information services by means of transnational web portals and tools, including information on water levels, fairway depth and width, information on shallow water sections, etc.
- These improved information services will result in a better exploitation of the opportunities the Danube waterway offers.

Danube STREAM

KEY PROJECT DATA

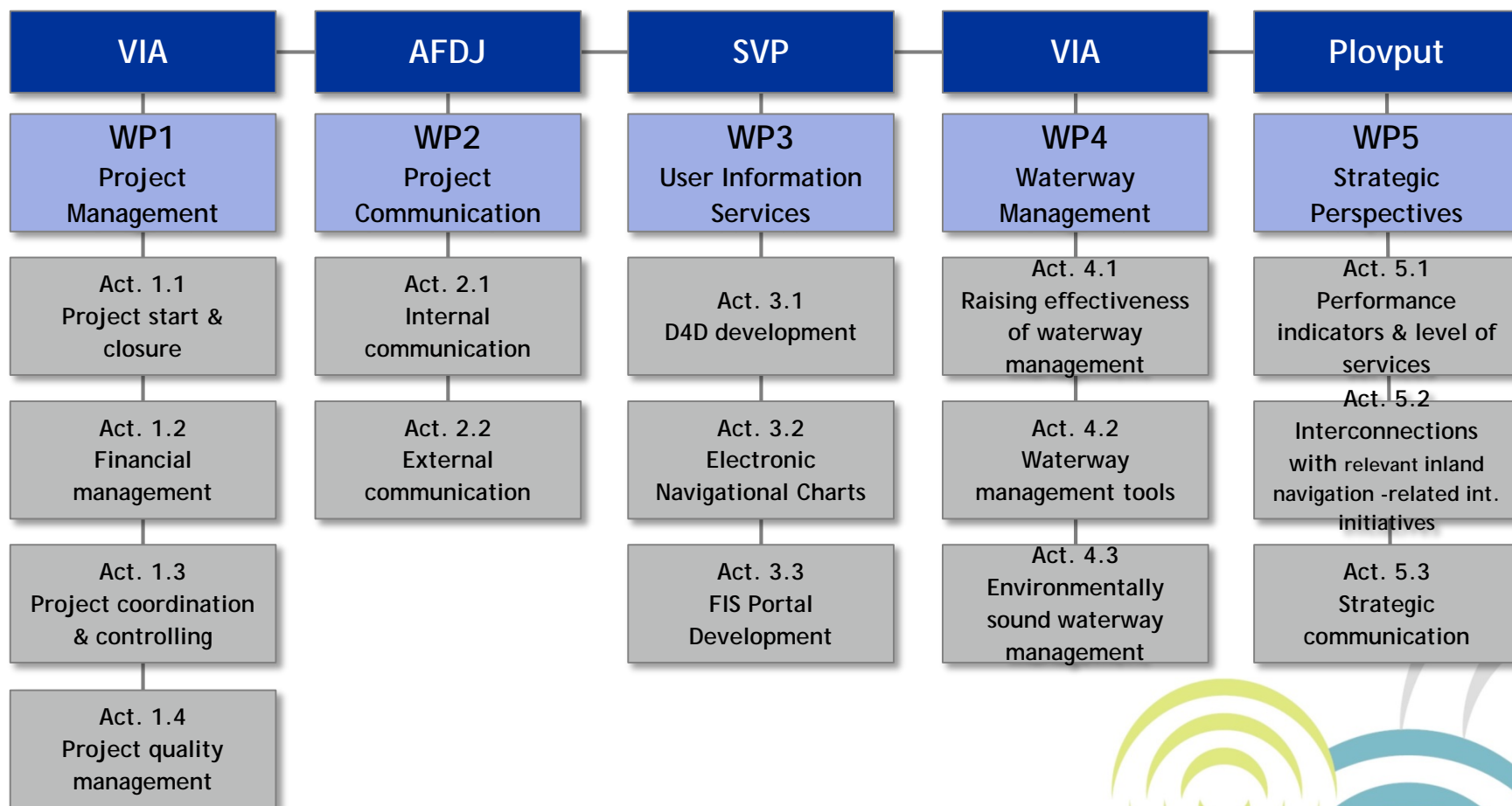
Project partners

Partner no.	Partner name	Short name	Country
LP	via donau - Austrian Waterways Company	VIA	AT
ERDF PP1	Slovak Water Management Enterprise	SVP	SK
ERDF PP2	General Directorate of Water Management	OVF	HU
ERDF PP3	National Association of Radio Distress-Signalling and Infocommunication	RSOE	HU
ERDF PP4	Agency for Inland Waterways	AVP	HR
ERDF PP5	River Administration of the Lower Danube Galati	AFDJ	RO
ERDF PP6	Administration of Navigable Canals S.H.	ACN	RO
ERDF PP7	Executive Agency for Exploration and Maintenance of the Danube River	EAEMDR	BG
IPA PP1	Ministry of Construction, Transport and Infrastructure - Directorate for Inland Waterways	Plovput	RS

Associated Strategic Partners

No.	Name Of associated strategic partner	Short name	Country
ASP 1	German Federal Ministry of Transport and Digital Infrastructure	BMVI	DE
ASP 2	Danube Commission	DC	HU
ASP 3	International Sava River Basin Commission	ISRBC	HR
ASP 4	DANUBEPARKS - Danube River Network of Protected Areas	DANUBEPARKS	AT

WP breakdown structure



Danube STREAM

PLANNED ACTIVITIES DURING PROJECT LIFETIME (SELECTION)

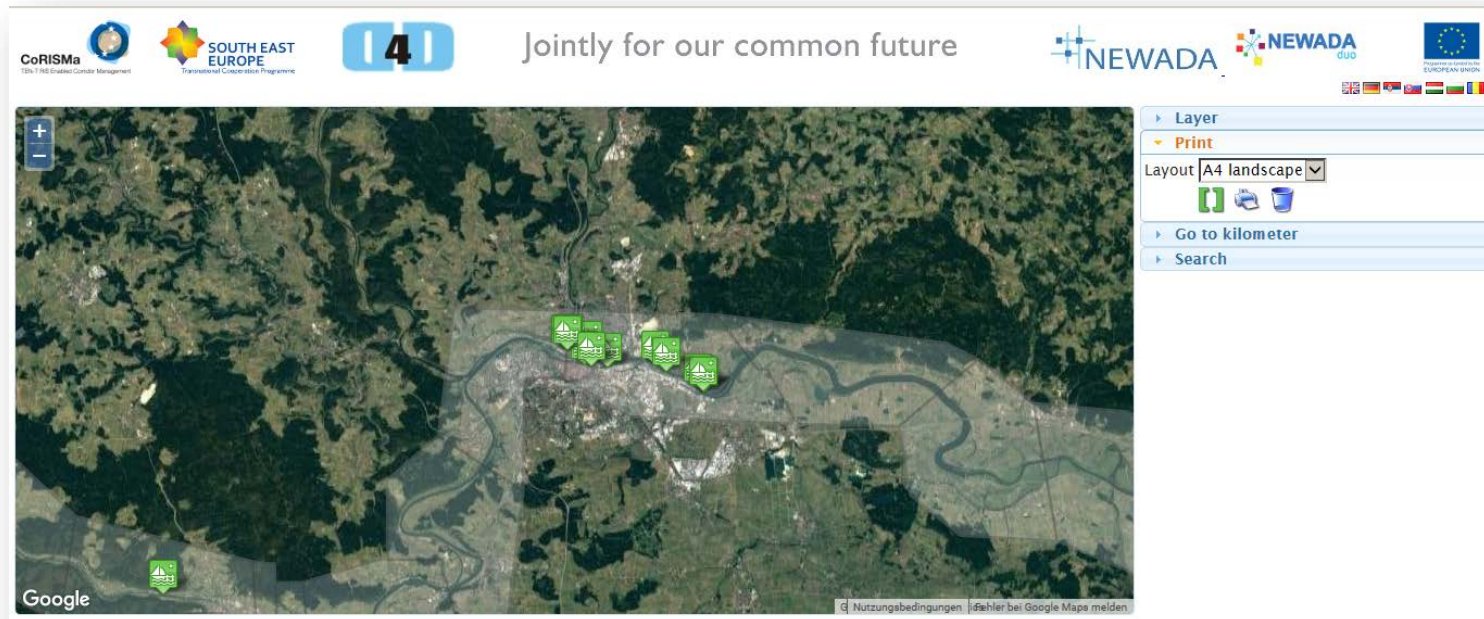
User Information Services

- D4D development
- Electronic Navigational Charts
- FIS portal development

WP Leader: SVP/Stefan Polhorsky

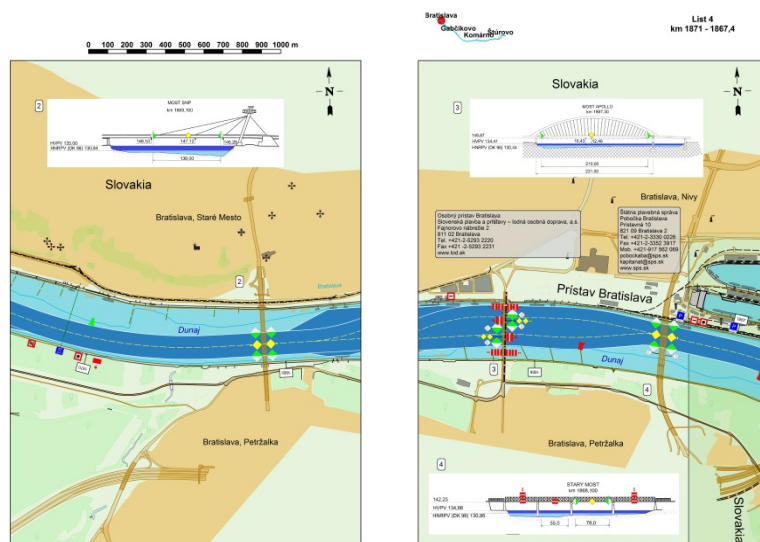
D4D development

- **D4D infrastructure - improvements necessary**
 - Updated and improved D4D infrastructure, improved D4D web portal, maintenance portal, new structure inside
- www.d4d-portal.info

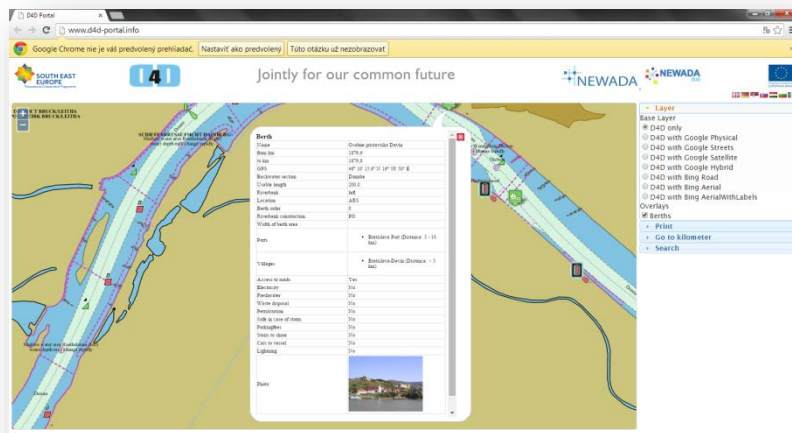


D4D development

- Paper charts – NEWADA duo – tool developed and implemented
 - Updating and providing of the paper charts for entire Danube
 - Carte de pilotage of DC – in future



- **Berth occupation**
 - Updating of Atlas of berths for whole stretch
 - Atlas of berths - tool development and implementation



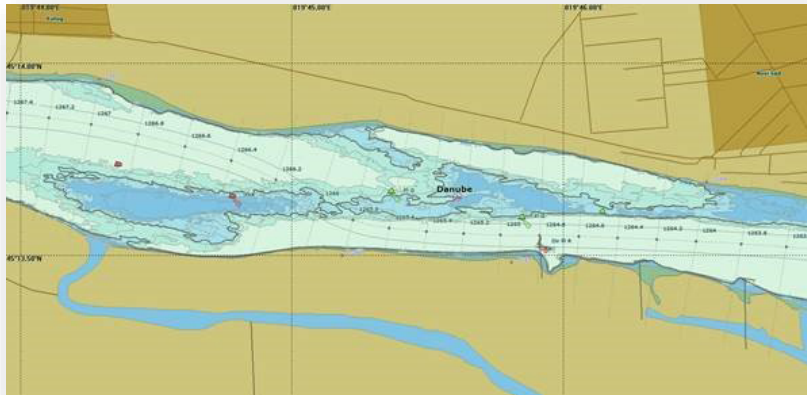
Proje Adı	Proje No	Proje Açıklaması	Proje Durumu	Proje Başlangıç Tarihi	Proje Bitiş Tarihi	Proje Süresi (Gün)	Proje Bütçesi (TL)	Proje Maliyeti (TL)	Proje Karı (TL)
Proje A	001	Proje A Açıklaması	Proje A Durumu	2020-01-01	2020-12-31	365	1000000	800000	200000
Proje B	002	Proje B Açıklaması	Proje B Durumu	2020-02-01	2020-11-30	330	1200000	900000	300000
Proje C	003	Proje C Açıklaması	Proje C Durumu	2020-03-01	2020-10-31	273	800000	600000	200000
Proje D	004	Proje D Açıklaması	Proje D Durumu	2020-04-01	2020-09-30	212	600000	400000	200000
Proje E	005	Proje E Açıklaması	Proje E Durumu	2020-05-01	2020-08-31	154	400000	200000	200000
Proje F	006	Proje F Açıklaması	Proje F Durumu	2020-06-01	2020-07-31	71	200000	100000	100000
Proje G	007	Proje G Açıklaması	Proje G Durumu	2020-07-01	2020-06-30	31	100000	50000	50000
Proje H	008	Proje H Açıklaması	Proje H Durumu	2020-08-01	2020-05-31	31	100000	50000	50000
Proje I	009	Proje I Açıklaması	Proje I Durumu	2020-09-01	2020-04-30	31	100000	50000	50000
Proje J	010	Proje J Açıklaması	Proje J Durumu	2020-10-01	2020-03-31	31	100000	50000	50000
Proje K	011	Proje K Açıklaması	Proje K Durumu	2020-11-01	2020-02-28	31	100000	50000	50000
Proje L	012	Proje L Açıklaması	Proje L Durumu	2020-12-01	2020-01-31	31	100000	50000	50000
Proje M	013	Proje M Açıklaması	Proje M Durumu	2021-01-01	2020-12-31	365	1000000	800000	200000
Proje N	014	Proje N Açıklaması	Proje N Durumu	2021-02-01	2020-11-30	330	1200000	900000	300000
Proje O	015	Proje O Açıklaması	Proje O Durumu	2021-03-01	2020-10-31	273	800000	600000	200000
Proje P	016	Proje P Açıklaması	Proje P Durumu	2021-04-01	2020-09-30	212	600000	400000	200000
Proje Q	017	Proje Q Açıklaması	Proje Q Durumu	2021-05-01	2020-08-31	154	400000	200000	200000
Proje R	018	Proje R Açıklaması	Proje R Durumu	2021-06-01	2020-07-31	71	200000	100000	100000
Proje S	019	Proje S Açıklaması	Proje S Durumu	2021-07-01	2020-06-30	31	100000	50000	50000
Proje T	020	Proje T Açıklaması	Proje T Durumu	2021-08-01	2020-05-31	31	100000	50000	50000
Proje U	021	Proje U Açıklaması	Proje U Durumu	2021-09-01	2020-04-30	31	100000	50000	50000
Proje V	022	Proje V Açıklaması	Proje V Durumu	2021-10-01	2020-03-31	31	100000	50000	50000
Proje W	023	Proje W Açıklaması	Proje W Durumu	2021-11-01	2020-02-28	31	100000	50000	50000
Proje X	024	Proje X Açıklaması	Proje X Durumu	2021-12-01	2020-01-31	31	100000	50000	50000
Proje Y	025	Proje Y Açıklaması	Proje Y Durumu	2022-01-01	2020-12-31	365	1000000	800000	200000
Proje Z	026	Proje Z Açıklaması	Proje Z Durumu	2022-02-01	2020-11-30	330	1200000	900000	300000
Proje AA	027	Proje AA Açıklaması	Proje AA Durumu	2022-03-01	2020-10-31	273	800000	600000	200000
Proje AB	028	Proje AB Açıklaması	Proje AB Durumu	2022-04-01	2020-09-30	212	600000	400000	200000
Proje AC	029	Proje AC Açıklaması	Proje AC Durumu	2022-05-01	2020-08-31	154	400000	200000	200000
Proje AD	030	Proje AD Açıklaması	Proje AD Durumu	2022-06-01	2020-07-31	71	200000	100000	100000
Proje AE	031	Proje AE Açıklaması	Proje AE Durumu	2022-07-01	2020-06-30	31	100000	50000	50000
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Proje AG	033	Proje AG Açıklaması	Proje AG Durumu	2022-09-01	2020-04-30	31	100000	50000	50000
Proje AH	034	Proje AH Açıklaması	Proje AH Durumu	2022-10-01	2020-03-31	31	100000	50000	50000
Proje AI	035	Proje AI Açıklaması	Proje AI Durumu	2022-11-01	2020-02-28	31	100000	50000	50000
Proje AJ	036	Proje AJ Açıklaması	Proje AJ Durumu	2022-12-01	2020-01-31	31	100000	50000	50000

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Activity 3.2 Electronic Navigational Charts

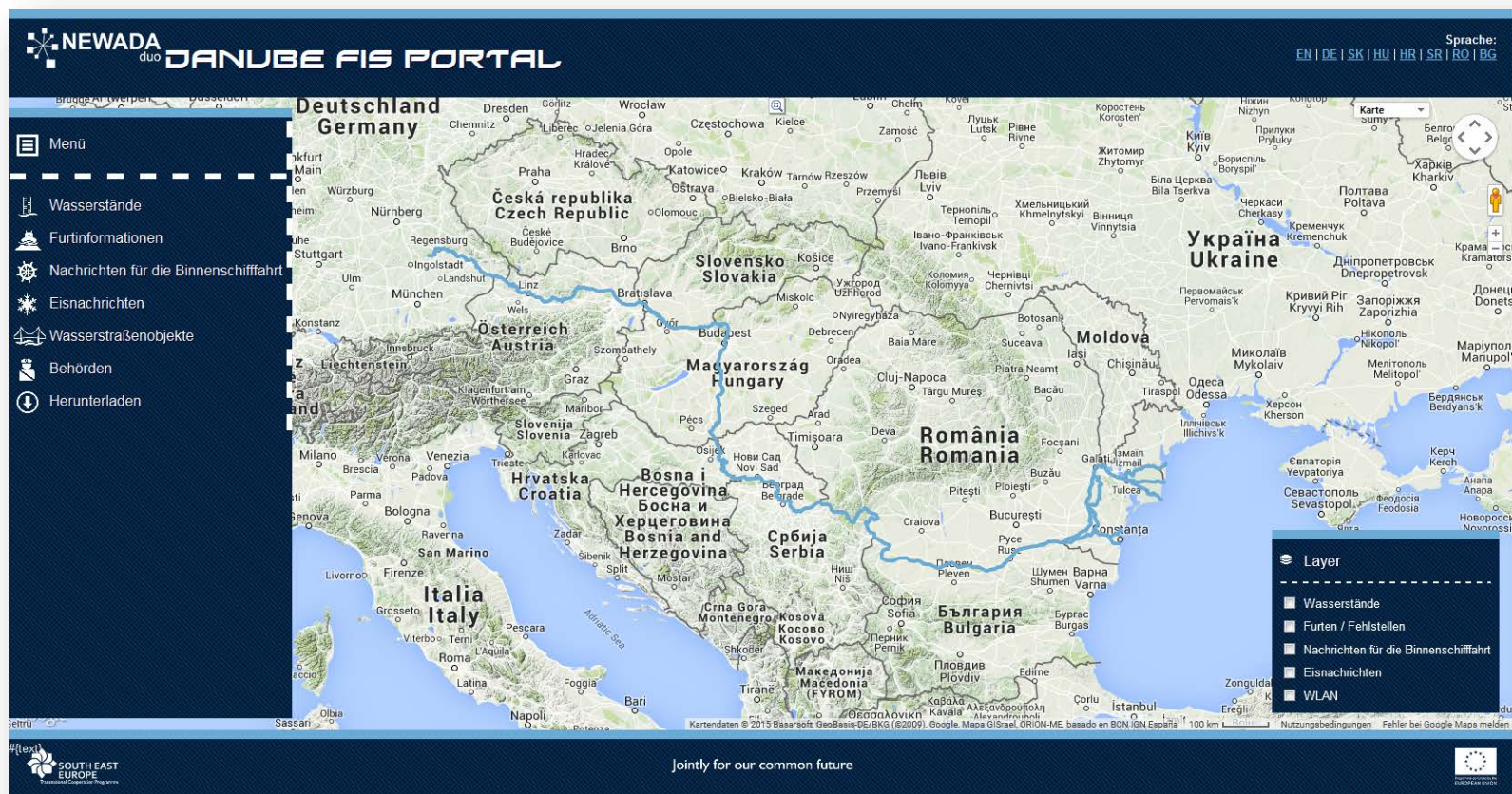
- IENC – latest valid IE standard (IE 2.3) – entry
 - IENC charts with depth information
- Depth information
 - for all critical sectors



- Uploading of the IENC to the D4D web portal

Activity 3.3 FIS portal development

- Fairway Information Service portal
 - www.danubeportal.com



Activity 3.3 FIS portal development

- **Planned improvements**
 - **Backend**
 - Implementation of NtS standard latest version
 - cooperation with national RIS providers
 - NtS interconnection with FIS portal
 - Harmonisation of content of NtS and minimum dataset for message
 - Automatic monitoring
 - **Mobile App/version of FIS portal**
 - Technical specification, design and development

Activity 3.3 FIS portal development

- **Planned improvements**
 - **Frontend**
 - Bottleneck information
 - automatization
 - harmonisation and improvement
 - Restructuring of the welcome map
 - IENC inclusion

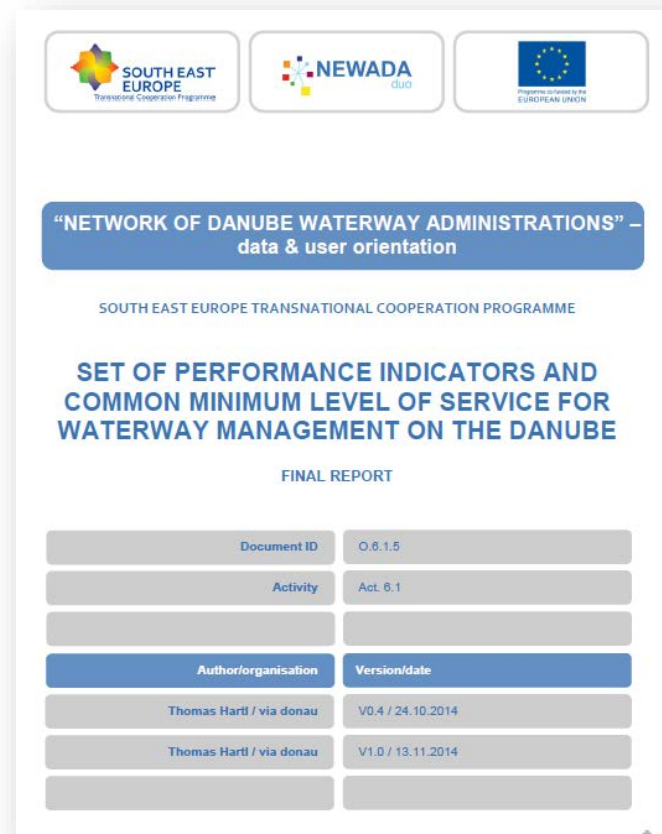
Waterway Management

- Raising the effectiveness of waterway management
- Waterway management tools
- Environmentally sound waterway management

WP Leader: viadonau/Gert-Jan Muilerman

Raising the effectiveness of waterway management

1. What is the problem?
 - Different data sets and sources
 - Collecting data and keeping them up to date is time-consuming
2. Where do we stand today?
 - Basic set of Performance Indicators already developed in NEWADA duo



Raising the effectiveness of waterway management

3. What do we intend to improve in Danube STREAM?

- Review and update of Levels of Service and waterway management related performance indicators (incl. RIS related indicators)
- Specification of quality management device to automatically generate performance indicators
- Best practices in
 - waterway maintenance procedures
 - contracting of maintenance services
 - environmental assessments

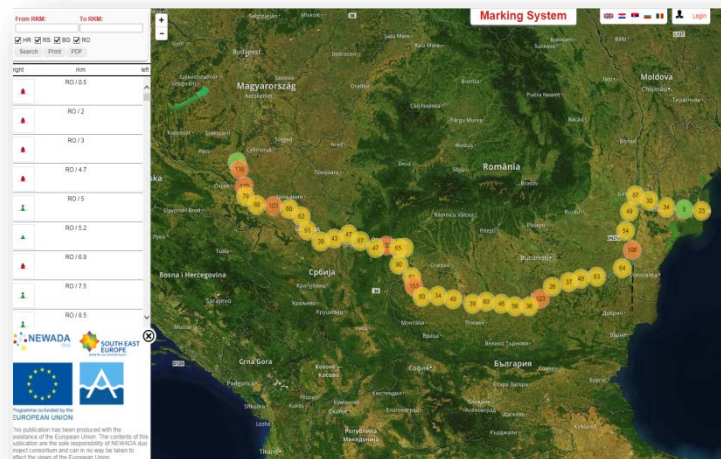
Waterway management tools

1. What is the problem?

- Vertical clearance measurements not up to date/accurate
- Data on fairway marking available only in HR, RS, RO, BG
- Status of river training works largely unknown

2. Where do we stand today?

- Working marking database for Lower Danube (HR, RS, RO, BG)
- Databases on river training works in their infancy



Waterway management tools

3. What do we intend to improve in Danube STREAM?

- Pilot on vertical clearance measurement (RS+RO)
- Enhance marking application (HU+SK)
- Specify GIS database for river training works (Danube)
- Establish interconnections with international waterway asset management system, as developed in FAIRway Danube project (RS)

Environmentally sound waterway management

1. What is the problem?

- Waterway projects have to be in line with Water Framework Directives and other relevant environmental law
- Environmental requirements are sometimes inhibitive

2. Where do we stand today?

- Joint Statement / planning guidelines for integrative approach
- Several good practice documents available
- Existing cooperation with Danube Parks



Environmentally sound waterway management

3. What do we intend to improve in Danube STREAM?

- Continued meetings/exchanges between waterway administrations and protected areas on national level
- Learn from best practices in Western Europe
- Preparation of report on environmentally sound waterway management
- Intersectoral conferences (to be jointly organised with DANUBE parks CONNECTED)