

# D4D & IENC

Budapest, 17. September 2019  
Stefan Polhorsky



# Agenda

- D4D Infrastructure  
<https://d4d-portal.info>
- IENCs

# D4D Infrastructure - status before project

## D4D Infrastructure

- Before the project current version supported the INEC charts IE 2.1 – so the updates implementation was really necessary – elaboration of the specification – requested support of IENC in IE 2.3 and 2.4
- Changing of the infrastructure workflow – increasing of the performance
- Reduction of the manual works
  - Paper charts production and updating
  - Atlas of Berth production and updating
- Exchanging of the data and keep the data on portal up to date – implementation of RSS Feed between portal and national webpages

# D4D Infrastructure - actions done

## D4D Web Portal

- Upgrading of the D4D infrastructure, more machines, new database, increasing of the performance
- Migrate and/or update all services i.e.
  - **Atlas of Berth** <https://aob.d4d-portal.info> (for project partner use only)
  - **WMS/WFS**
  - Main Portal (map display, search print, ...) – data presentation
    - <https://d4d-portal.info>

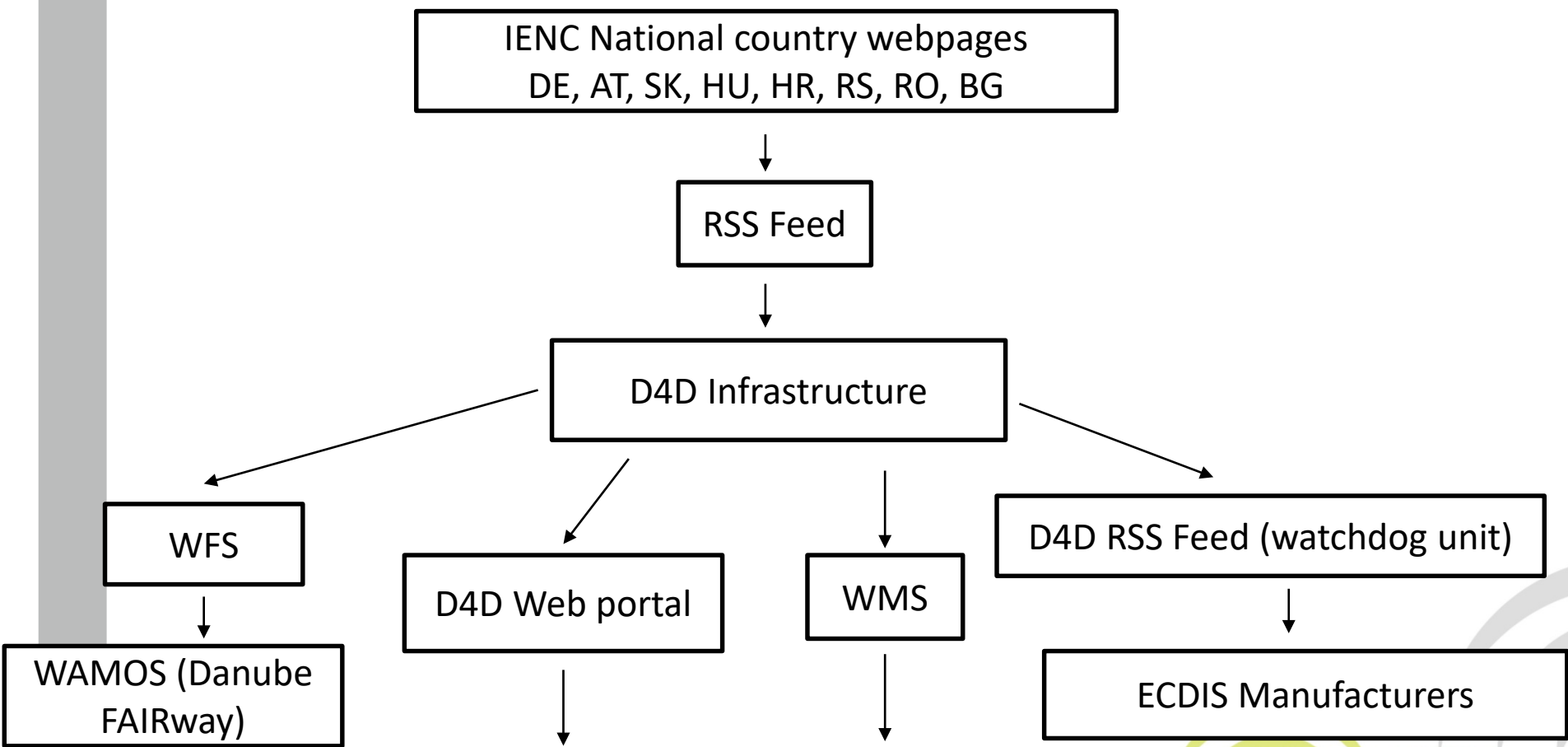
## Paper charts tools

- Creation of the Paper charts out of IENCs + extra info (bridges, locks, authorities, etc.) – regular updating of the charts

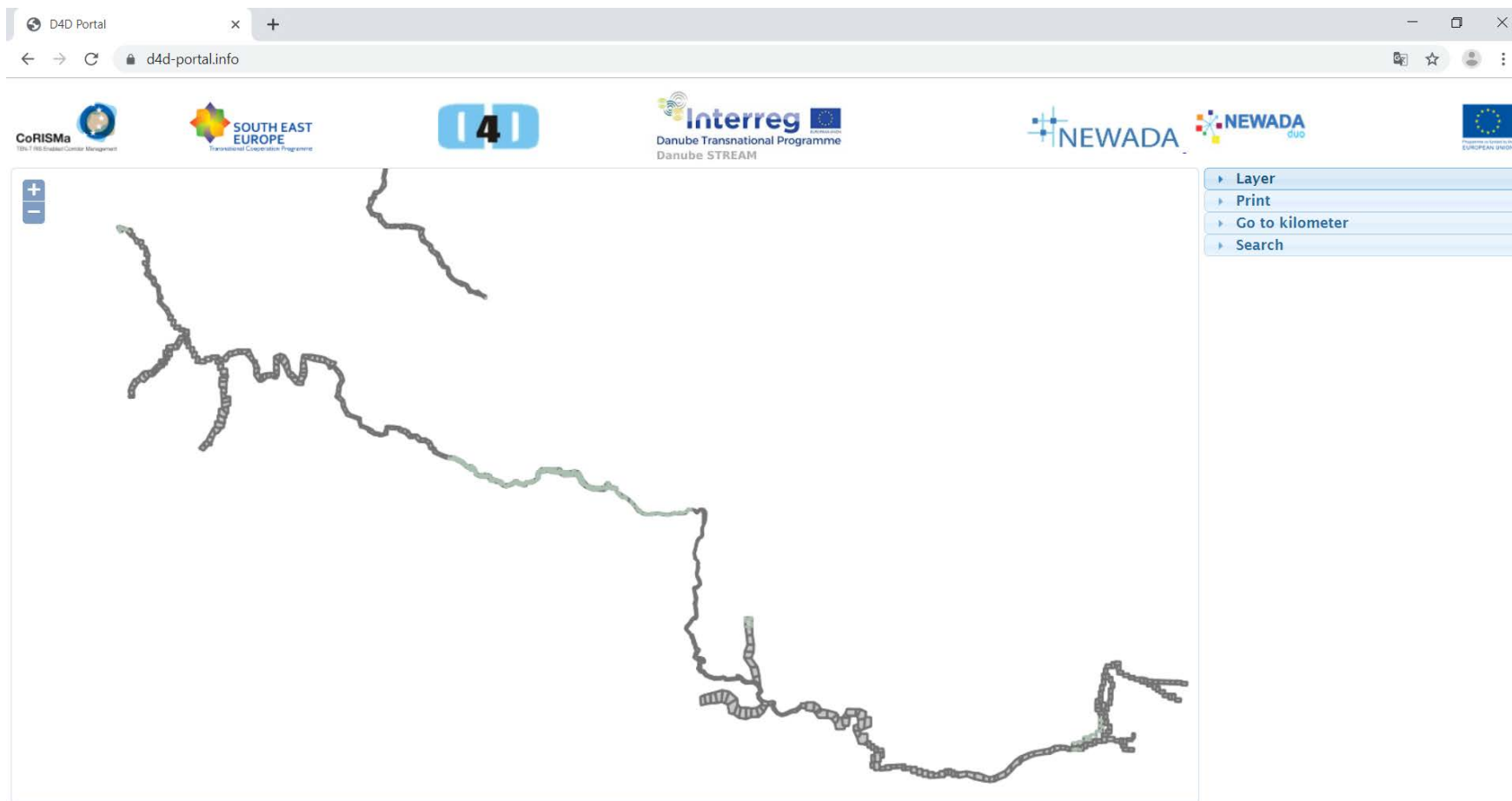
## Automated collection of IENC charts

- Provision of charts per waterway via **RSS Feed** by project partners
- „watchdog“ checks feeds for change on a daily base
- Changes will be downloaded, applied to database and map tiles will be recreated

# D4D Infrastructure

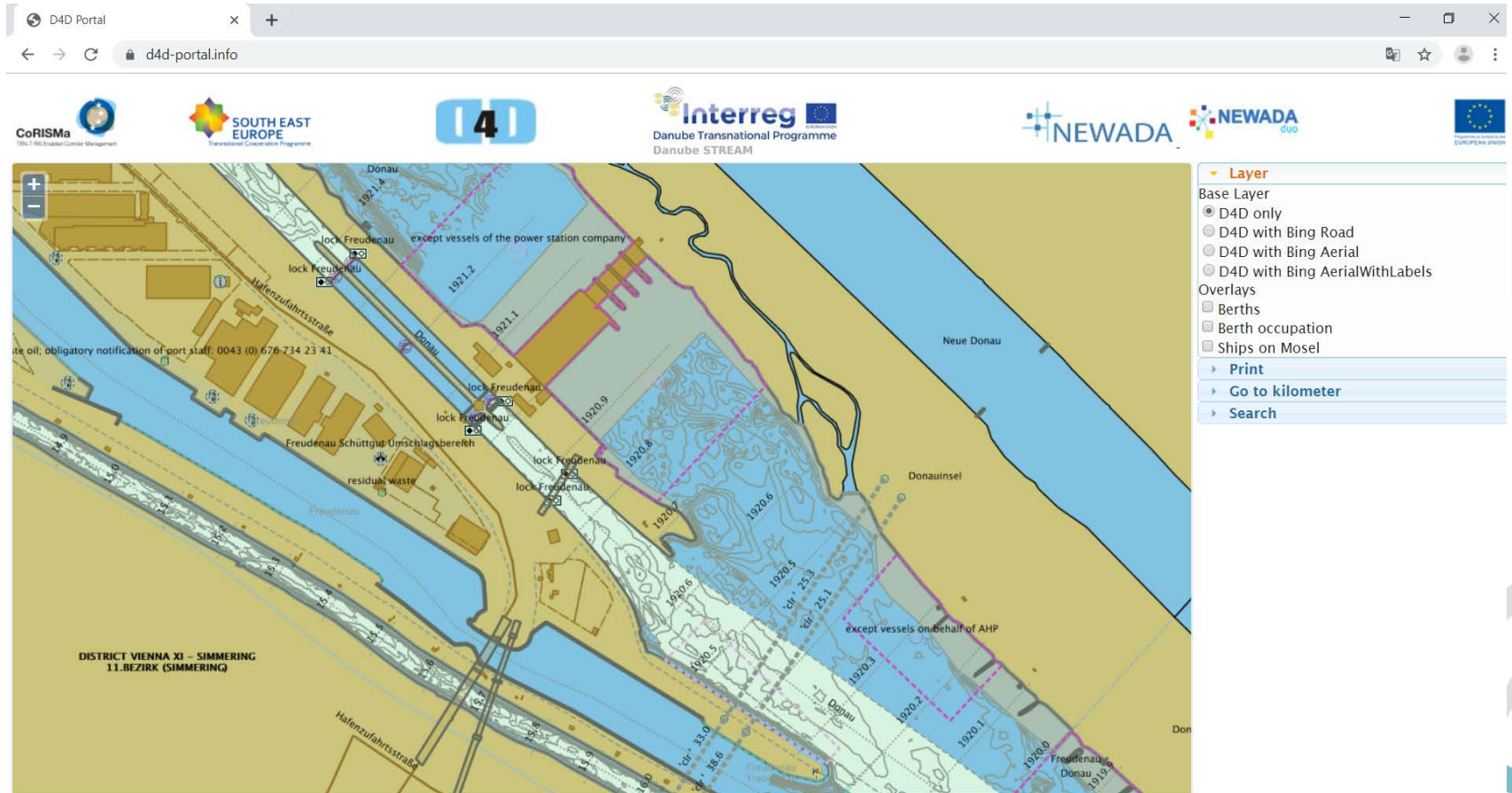


# D4D Infrastructure - portal



The screenshot shows a web browser window with the address bar displaying "d4d-portal.info". The page header includes logos for CoRISMa, SOUTH EAST EUROPE, Interreg Danube Transnational Programme Danube STREAM, and NEWADA. The main content area features a map of the Danube river with a green highlighted section. A sidebar on the right contains a menu with options: Layer, Print, Go to kilometer, and Search. A zoom control is visible on the left side of the map.

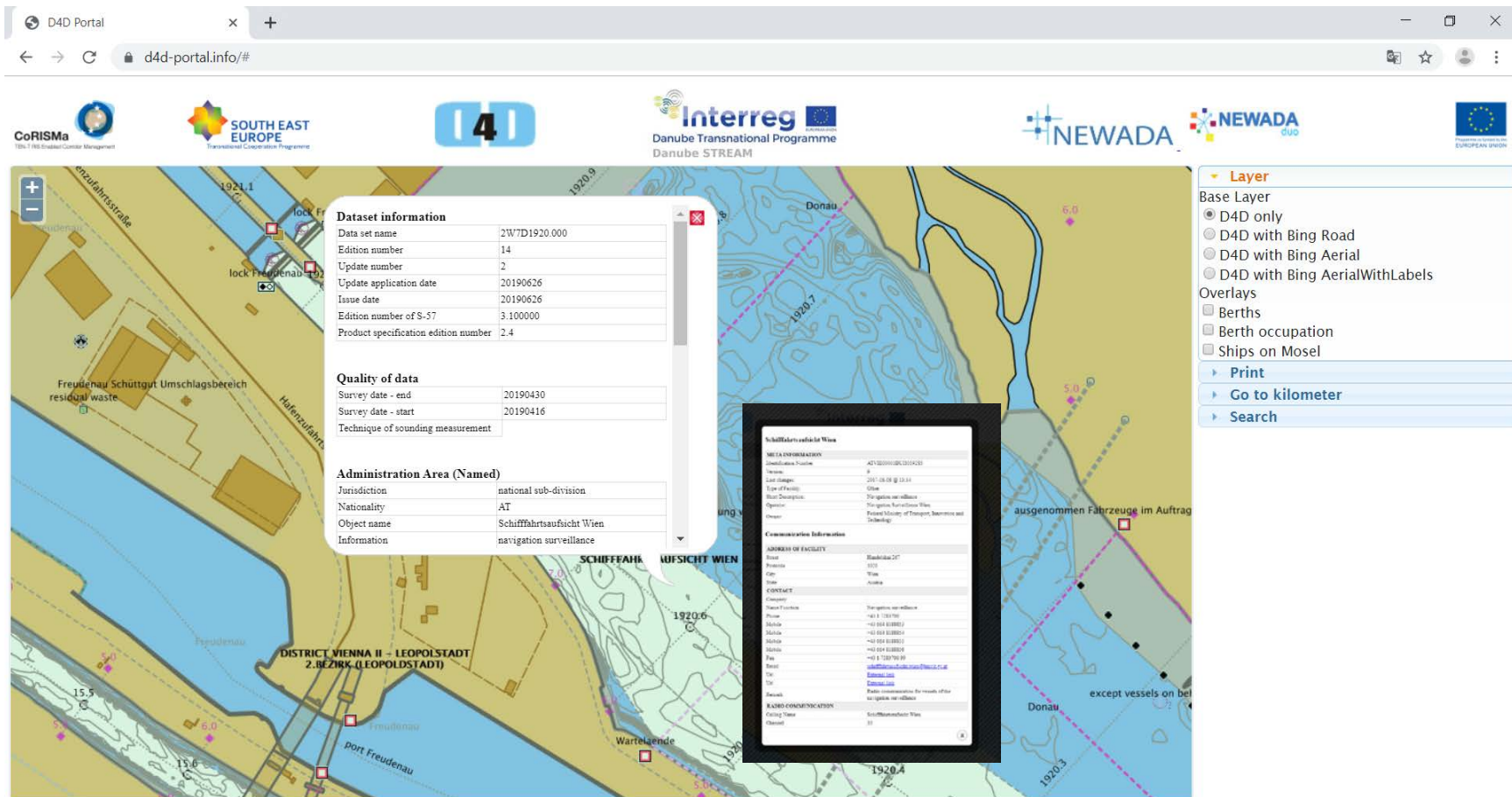
# D4D Infrastructure - portal



The screenshot shows a web browser window with the URL `d4d-portal.info`. The page features several logos at the top: CoRISMa, SOUTH EAST EUROPE Transnational Cooperation Programme, Interreg Danube Transnational Programme Danube STREAM, and NEWADA. The main content is a map of the Danube river area, showing locks (lock Freudenuau), roads (Hafenzufahrtsstraße), and various infrastructure layers. A control panel on the right side of the map includes a 'Layer' dropdown menu with options: 'Base Layer', 'D4D only' (selected), 'D4D with Bing Road', 'D4D with Bing Aerial', and 'D4D with Bing AerialWithLabels'. Below the layer menu are 'Overlays' (Berths, Berth occupation, Ships on Mosel), 'Print', 'Go to kilometer', and 'Search' buttons. The map also displays elevation contours and specific labels like 'DISTRICT VIENNA XI - SIMMERING 11. BEZIRK (SIMMERING)'.



# D4D Infrastructure - portal



The screenshot shows the D4D Portal interface. At the top, there are logos for CoRISMa, SOUTH EAST EUROPE, Interreg Danube Transnational Programme Danube STREAM, and NEWADA. The main area is a map of the Danube river with various infrastructure layers. A popup window displays dataset information and quality of data for a specific dataset. Another popup window shows detailed information for a specific facility, including its name, location, and contact details.

**Dataset information**

Data set name	2W7D1920.000
Edition number	14
Update number	2
Update application date	20190626
Issue date	20190626
Edition number of S-57	3.100000
Product specification edition number	2.4

**Quality of data**

Survey date - end	20190430
Survey date - start	20190416
Technique of sounding measurement	

**Administration Area (Named)**

Jurisdiction	national sub-division
Nationality	AT
Object name	Schiffahrtsaufsicht Wien
Information	navigation surveillance

**Schiffahrtsaufsicht Wien**

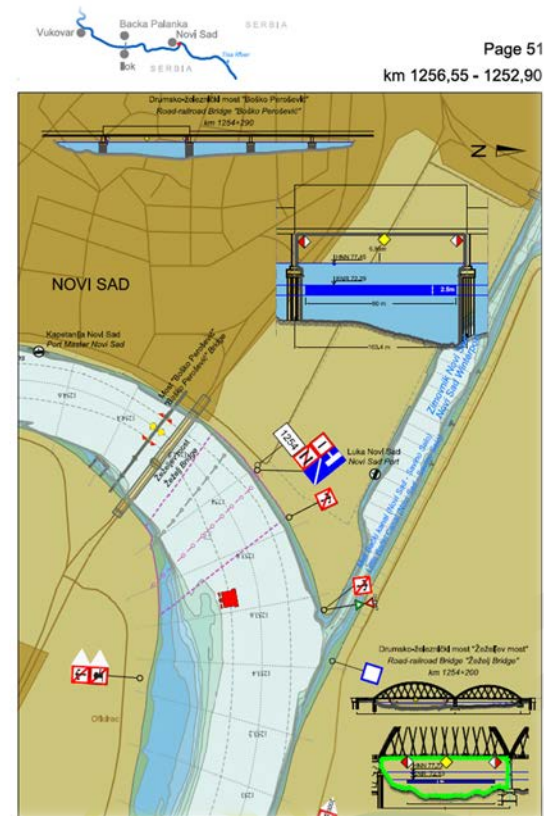
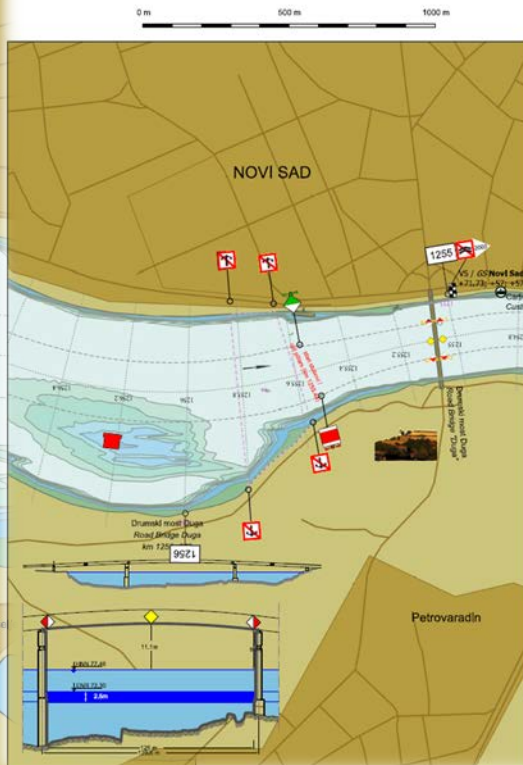
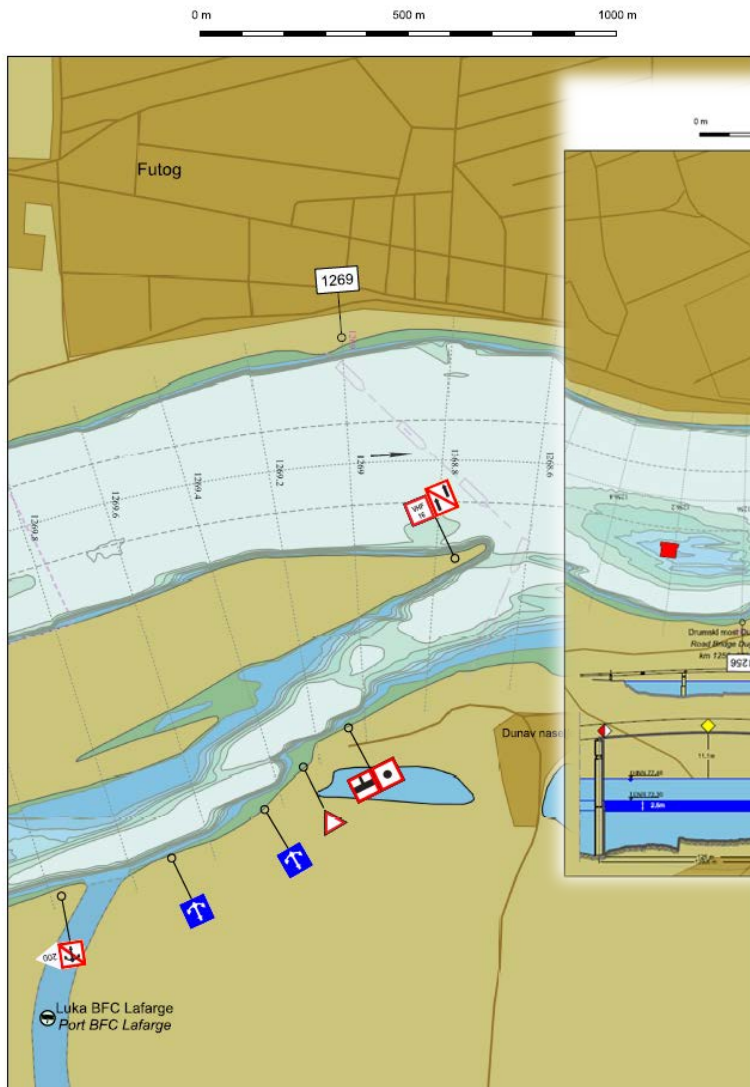
<b>META INFORMATION</b>	
Identification Function	ACT10000000000000000000
Version	1
Last change	2017-08-08 @ 13:34
Type of Facility	Other
River Description	Navigation surveillance
Operator	Navigation Surveillance Wien
Owner	Federal Ministry of Transport, Innovation and Technology
<b>Communication Information</b>	
<b>ADDRESS OF FACILITY</b>	
Street	Bankgasse 2/7
Postcode	1070
City	Vienna
State	Austria
<b>CONTACT</b>	
Category	Navigation surveillance
Name/Function	
Phone	+43 1 708700
Mobile	+43 676 628802
Mobile	+43 676 628803
Mobile	+43 676 628804
Mobile	+43 676 628805
Mobile	+43 676 628806
Fax	+43 1 708700 99
Email	schiffahrt@navigation.wien.gv.at
URL	Navigation.wien
URL	Navigation.wien
Website	Radio communication for vessels of the navigation surveillance
<b>RELATED COMMUNICATION</b>	
Calling Name	Schiffahrtsaufsicht Wien
Channel	H

**Layer**

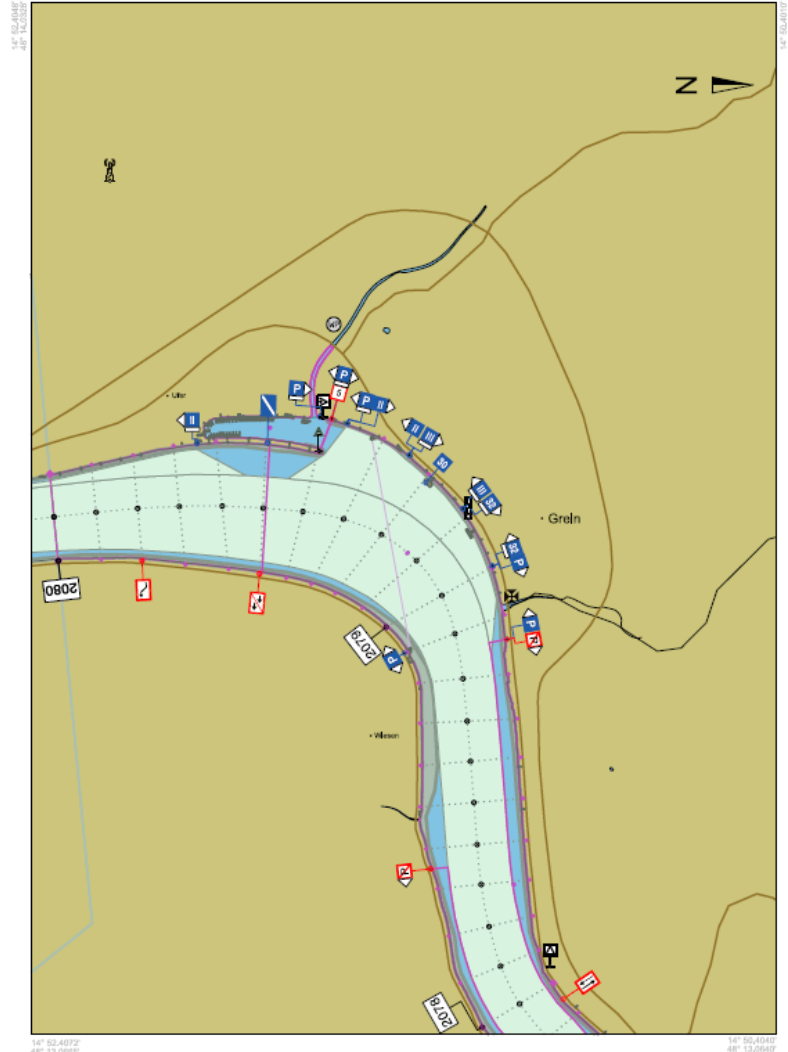
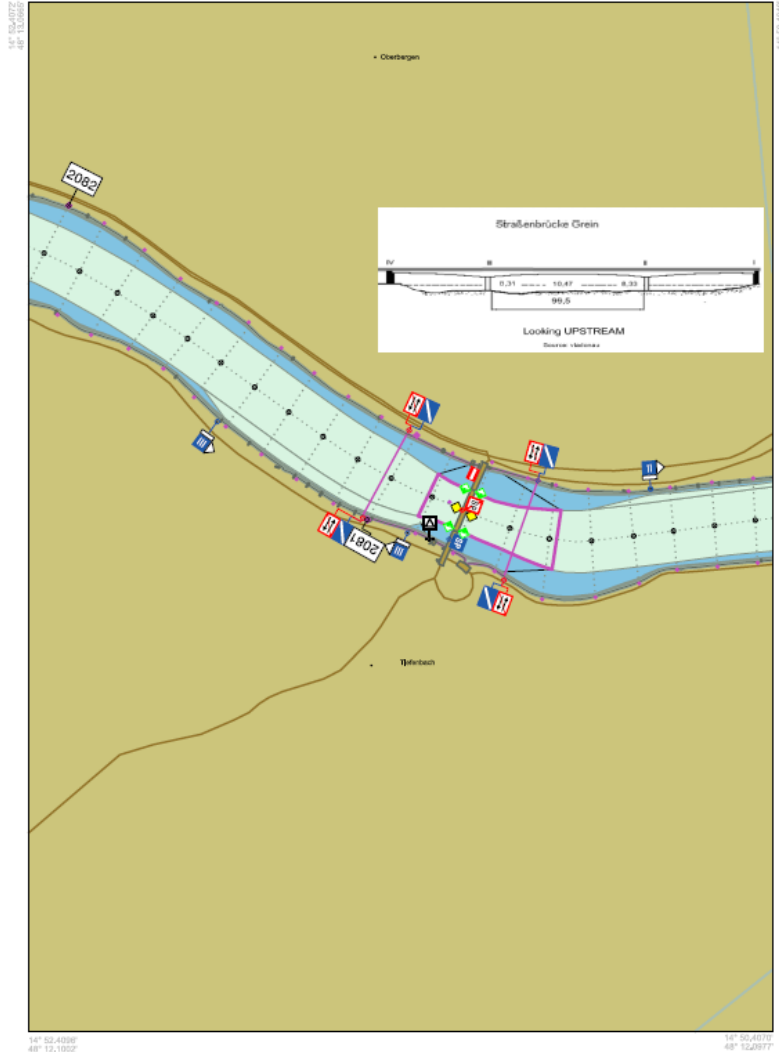
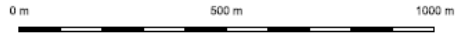
- Base Layer
- D4D only
- D4D with Bing Road
- D4D with Bing Aerial
- D4D with Bing AerialWithLabels
- Overlays
- Berths
- Berth occupation
- Ships on Mosel
- [Print](#)
- [Go to kilometer](#)
- [Search](#)



# D4D Infrastructure - Paper charts


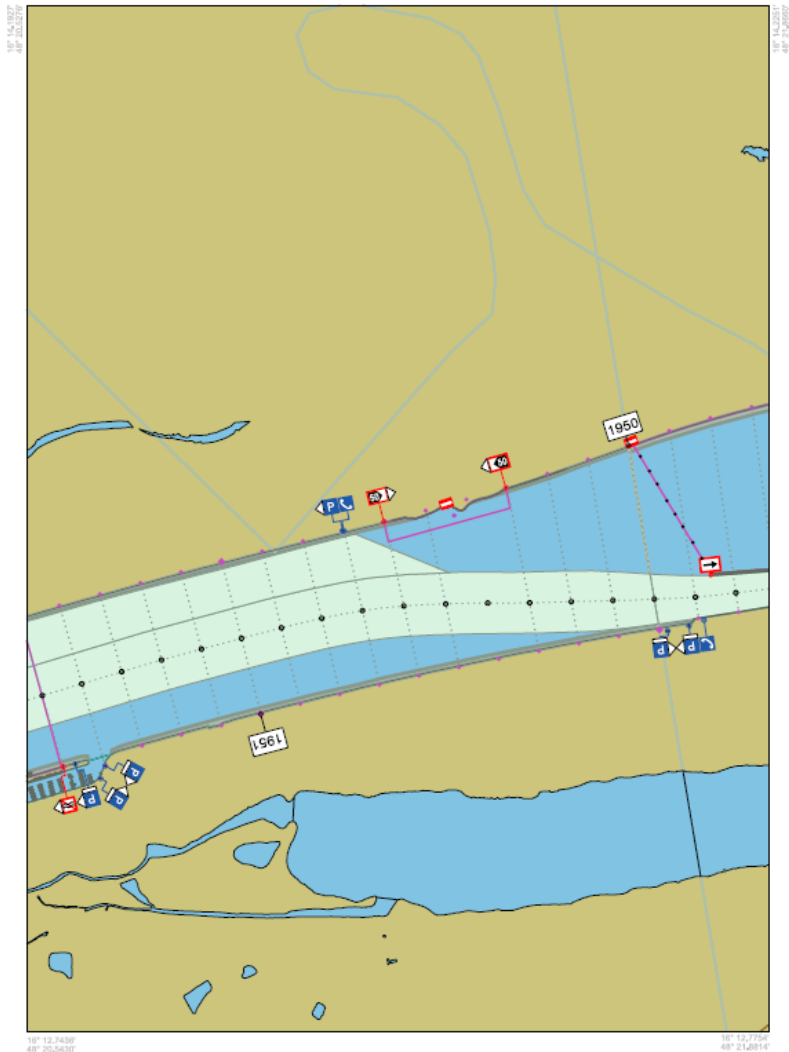


# D4D Infrastructure - Paper charts

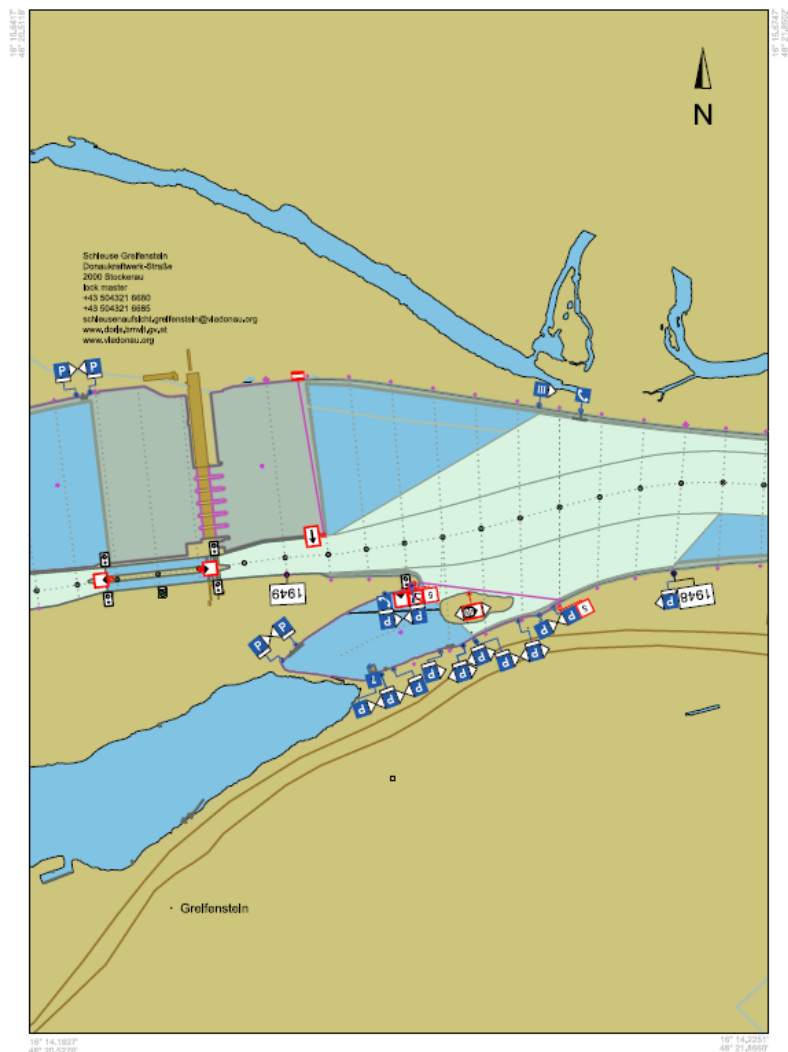


# D4D Infrastructure - Paper charts

0 m      500 m      1000 m

Page 71  
km 1947.8 - 1951.5



# D4D Infrastructure - AoB



The screenshot displays the D4D Portal web application. The browser address bar shows "d4d-portal.info". The page header features logos for CoRISMa, SOUTH EAST EUROPE, Interreg Danube Transnational Programme Danube STREAM, and NEWADA. The main content area shows a map of the Danube river with numerous green icons representing infrastructure points. A layer control panel on the right side of the map includes the following options:

- Layer
  - Base Layer
    - D4D only
    - D4D with Bing Road
    - D4D with Bing Aerial
    - D4D with Bing AerialWithLabels
  - Overlays
    - Berths
    - Berth occupation
    - Ships on Mosel
  - [Print](#)
  - [Go to kilometer](#)
  - [Search](#)



# D4D Infrastructure - AoB










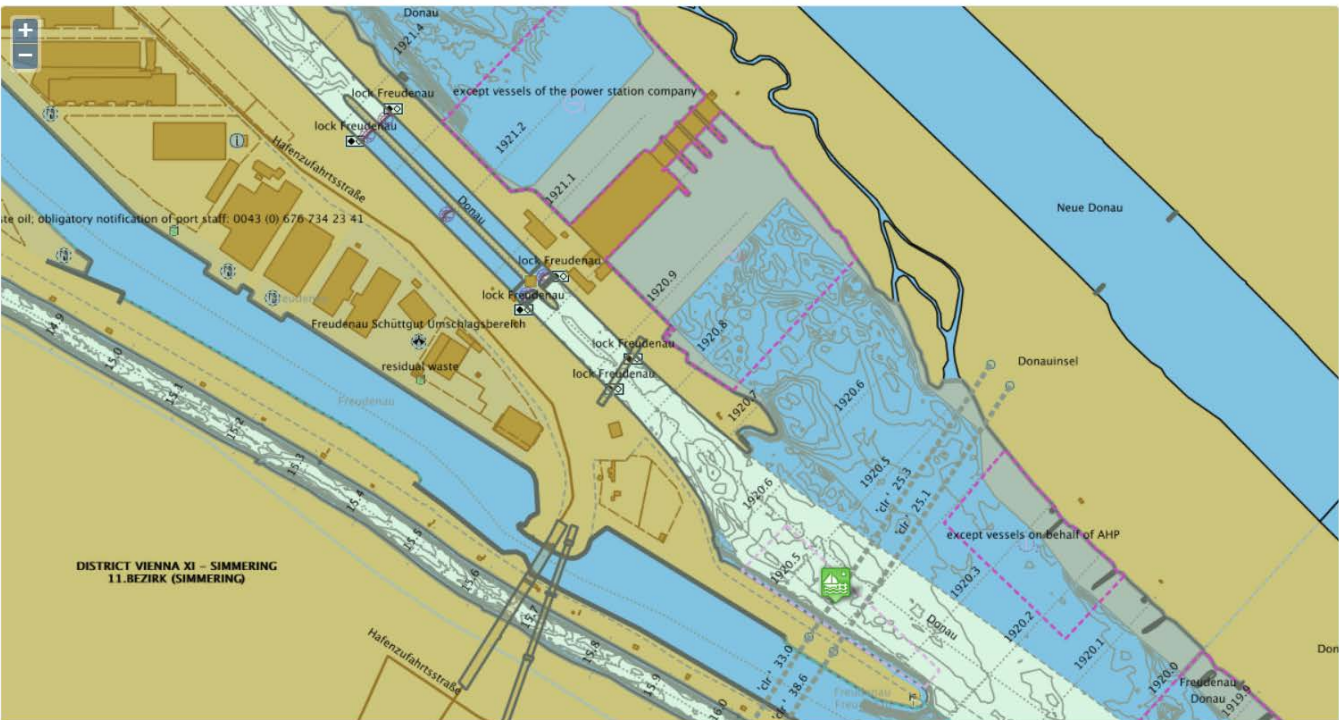
The screenshot shows a web browser window with the URL `d4d-portal.info/#`. The page features several logos at the top: CoRISMa, SOUTH EAST EUROPE Transnational Cooperation Programme, Interreg Danube Transnational Programme Danube STREAM, and NEWADA. A central map displays the Danube river flowing through Vienna, with various districts labeled such as DISTRICT VIENNA I - INNERE STADT, DISTRICT VIENNA II - LEOPOLDSTADT, DISTRICT VIENNA III - LANDSTRASSE, DISTRICT VIENNA XI - SIMMERING, DISTRICT VIENNA IX - SIMMERING, DISTRICT VIENNA XXII - DONAUSTADT, and DISTRICT WIEN-UMLAND. Green icons representing infrastructure are placed along the river. On the right side, a 'Layer' control panel is visible, listing options like 'D4D only', 'D4D with Bing Road', 'D4D with Bing Aerial', and 'D4D with Bing AerialWithLabels'. Other options include 'Berths', 'Berth occupation', and 'Ships on Mosel'. The panel also includes buttons for 'Print', 'Go to kilometer', and 'Search'.

# D4D Infrastructure - AoB

D4D Portal x +

d4d-portal.info

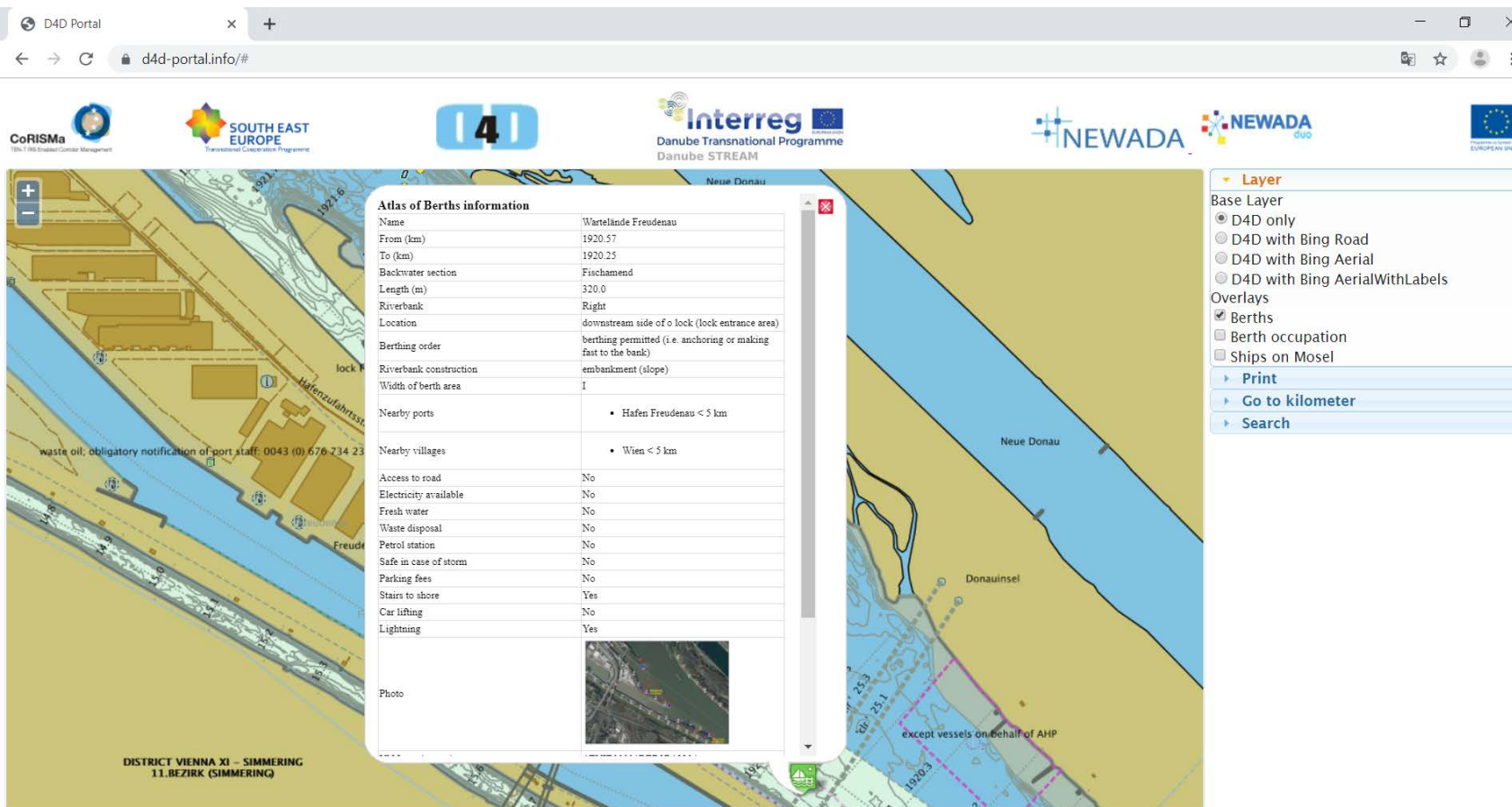


DISTRICT VIENNA XI - SIMMERING  
11. BEZIRK (SIMMERING)

**Layer**  
 Base Layer  
 D4D only  
 D4D with Bing Road  
 D4D with Bing Aerial  
 D4D with Bing AerialWithLabels  
 Overlays  
 Berths  
 Berth occupation  
 Ships on Mosel  
[Print](#)  
[Go to kilometer](#)  
[Search](#)




# D4D Infrastructure - AoB



The screenshot shows the D4D Portal interface. At the top, there are logos for CoRISMa, SOUTH EAST EUROPE, Interreg Danube Transnational Programme Danube STREAM, and NEWADA. The main content area features a map of the Danube river with a detailed information window for 'Atlas of Berths information' and a layer control panel on the right.

**Atlas of Berths information**

Name	Wartelände Freudenau
From (km)	1920.57
To (km)	1920.25
Backwater section	Fischamend
Length (m)	320.0
Riverbank	Right
Location	downstream side of a lock (lock entrance area)
Berthing order	berthing permitted (i.e. anchoring or making fast to the bank)
Riverbank construction	embankment (slope)
Width of berth area	I
Nearby ports	<ul style="list-style-type: none"> <li>Hafen Freudenau &lt; 5 km</li> </ul>
Nearby villages	<ul style="list-style-type: none"> <li>Wien &lt; 5 km</li> </ul>
Access to road	No
Electricity available	No
Fresh water	No
Waste disposal	No
Petrol station	No
Safe in case of storm	No
Parking fees	No
Stairs to shore	Yes
Car lifting	No
Lightning	Yes

Photo: 

**Layer**

Base Layer

- D4D only
- D4D with Bing Road
- D4D with Bing Aerial
- D4D with Bing AerialWithLabels

Overlays

- Berths
- Berth occupation
- Ships on Mosel

[Print](#)  
[Go to kilometer](#)  
[Search](#)

# IENCs

- All IENC charts in IE 2.3, preparation for IE 2.4 standard (and publishing)
- Depth information from latest measurement – involvement – at least for all critical sections (entire stretch also) – updating of the depth data after each measurement
- Coding of the critical sections – as restricted area (harmonization of the data quality)
- Coding of the berth places and updating of the Atlas of Berth document
- RIS Index involvement (latest version)
- Facility Files production & involvement (using Facility Data Editor)
- Publishing of the IENC charts on D4D Portal via RSS Feed – same information on national web pages and D4D Portal

# Thank you for your attention

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