



Increased institutional capacity in Danube navigation by boosting joint transnational competences and skills in education and public development services

## Act. 4.1. Supply & demand of modal share promotion and Set-up of joint working programme



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## 1. Elaboration of advantages of the Danube FIS portal for Danube logistics

### 1.1 Background

The Danube FIS Portal ([www.danubeportal.com](http://www.danubeportal.com)) concept and first implementation was realised in the NEWADA project ([www.newada.eu](http://www.newada.eu), 2009-2012). The project partners, mainly Danube waterway authorities and service providers, decided to provide fairway information services for the Danube in a harmonised way covering almost the whole river. The waterway authorities are providing the up-to-date data for the users using this transnational Danube webportal.

After the NEWADA project the follow-up project (NEWADA Duo) continued the development of the portal. A new mobile version of the Danube FIS Portal is planned in the frame of the Danube STREAM project.



NEWADA project partners

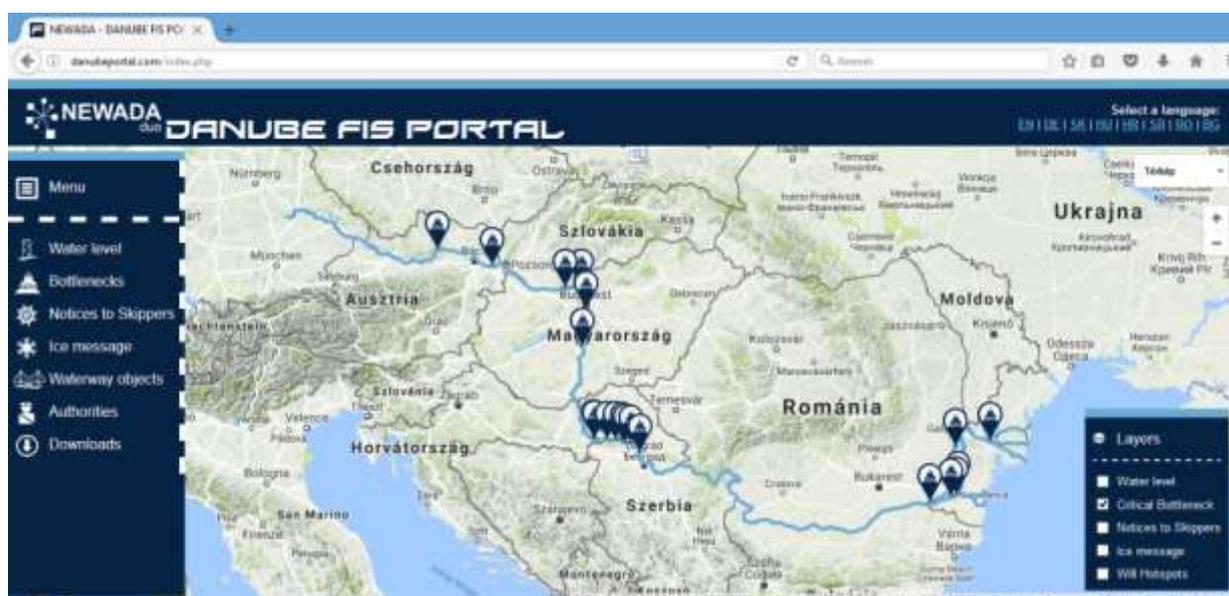
### 1.2 Presentation of services

The information is presented in a Danube-view approach at [www.danubeportal.com](http://www.danubeportal.com), which means the user can search by riverkms and stretches in a transnational approach. All data is available in all Danube languages (except Ukrainian) in a harmonised way.

Danube fairway related information provided on FIS Portal can be divided into two groups: dynamic and static information. The first one is updated automatically (hourly or maximum daily), latter updated manually less frequently.

The information provided is using official data sources, like the „RIS index’ reference data or the national NTS web service dynamic data feeds.

There are two main views to display Danube fairway related information. The map view visualising the Danube with switchable layers such as water level, bottleneck, notices to skippers, ice message and wifi hotspots. The other view is the table view when information can be checked in tables such as gauges, notices, bottlenecks, contact information etc., filtering by riverkm or countries or other criterias.



Welcome page with map view

[www.danubeportal.com](http://www.danubeportal.com)

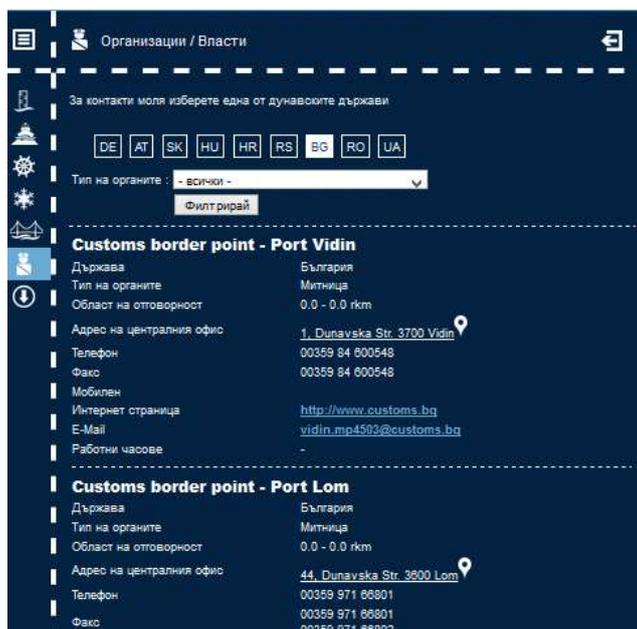
Water level information includes beside actual and forecasted water level the LDC and HDC levels as well for each gauge. A special chart is provided to see the trend of water level. Some countries provide more data, some countries provide less data.

The bottleneck data shows critical and all other potential river sections with actual minimum depth an width information. Beside the reference gauging station of the bottleneck a special PDF file is provided mostly to show the result of the latest riverbed measurement of the critical stretch.

The Notices section provides an overview of all electronically published Notices to Skippers in a harmonised way including limitation type, start and end.

In case of ice period dynamic data will be displayed also.

In the waterway objects section basic static information on bridges and locks (size, contact) are provided. Location and contact information on ports are also available.



Authority information in Bulgarian language

In the Authority contact information, the contact and opening hours are collected and displayed of the following Danube relevant authorities:

- border police,
- customs,
- sanitary authority,
- shipping authority,
- waterway maintenance,
- water police,
- disaster management,
- RIS operator.

It can be filtered by country or authority or both.

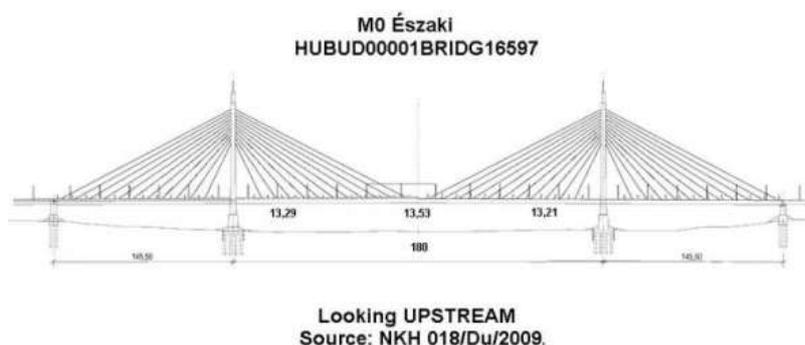
In the Download section it is possible to access all latest electronic navigational charts, paper navigational charts, atlas berth and to check the online marking system (deeplink).

### 1.3 Advantages for logistics

There are different type of logistics users with different needs for fairway related information. This overview provides a general overview.

Water level, bottleneck, notices and ice up-to-date information helps to support the route planning and calculation of estimated time arrival. It also helps to realise if there are obstacles that cause problems or recalculations or shift of cargo. Forecast of water level assist the logistics for more precise route planning. Up-to-date bottleneck information are crucial in the Danube area.

Basic data on bridges and locks support better overview of the route and for planning. In case of bridges the calculation of vertical clearance can be done by using water level and bridge information.



Bridge cross-section view

The collected Danube authority database helps the user to have an overview and contact of the relevant authority for each section of the Danube. The different authorities were categorised and can be filtered by country or type.

Elaboration of PP specific Danube navigation  
promotion related themes

**Project website: [www.interreg-danube.eu/danube-skills](http://www.interreg-danube.eu/danube-skills)**