



BULGARIAN PORTS
INFRASTRUCTURE Co.



BULRIS– BULGARIAN RIVER INFORMATION SYSTEM

RIVER INFORMATION SERVICES ON THE
BULGARIAN STRETCH OF THE DANUBE



Dipl. eng.

.....
IT expert, BulRIS





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BuRIS - Bulgarian River Information System established by Bulgarian Ports Infrastructure Company (2012 – 2015)

- Improving safety and efficiency of inland navigation
- Supporting digitalisation of transport
- Contributing to TEN- T connectivity
- Reducing administrative burden

Core Services of BulRIS

- Notices to Skippers (NtS) – navigation information available in 12 languages
- Vessel Tracking and Tracing (VTT) – real-time and historical visualization of vessel traffic based on AIS data (up to 7 days history)
- Electronic Reporting (ERI) – electronic reporting through CEERIS, compliant with the ERI standard



Technical Infrastructure

BuRIS collects and processes data from the following systems:

- VHF communication network
- 8 AIS base stations providing traffic monitoring coverage
- CCTV video surveillance at critical river sections
- Radar Subsystem for real-time navigation monitoring


All operational data are recorded and archived



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RIS Operational Centers

Two RIS centers ensure the operational management of vessel traffic.

- Monitoring of the Bulgarian Danube section 24/7
- Continuous communication with vessels via VHF
- Traffic supervision by trained VTS operators



BulRIS – System Upgrade

BulRIS is currently undergoing a major upgrade including:

- RRL communication network
- AIS base stations with VDES functionality
- CCTV system modernisation
- Radar subsystem upgrade
- Data center and network equipment
- Navigation software
- NtS services
- Power supply systems
- Establishment of a new site location
- Development of a new web platform





Integrating River Information Services across Europe

COMEX² project

Objectives:

- Assessment of EuRIS and related initiatives (DIWA, eFTI)
- Integration of reporting systems across Europe
- Implementation of the “reporting once” principle in inland navigation

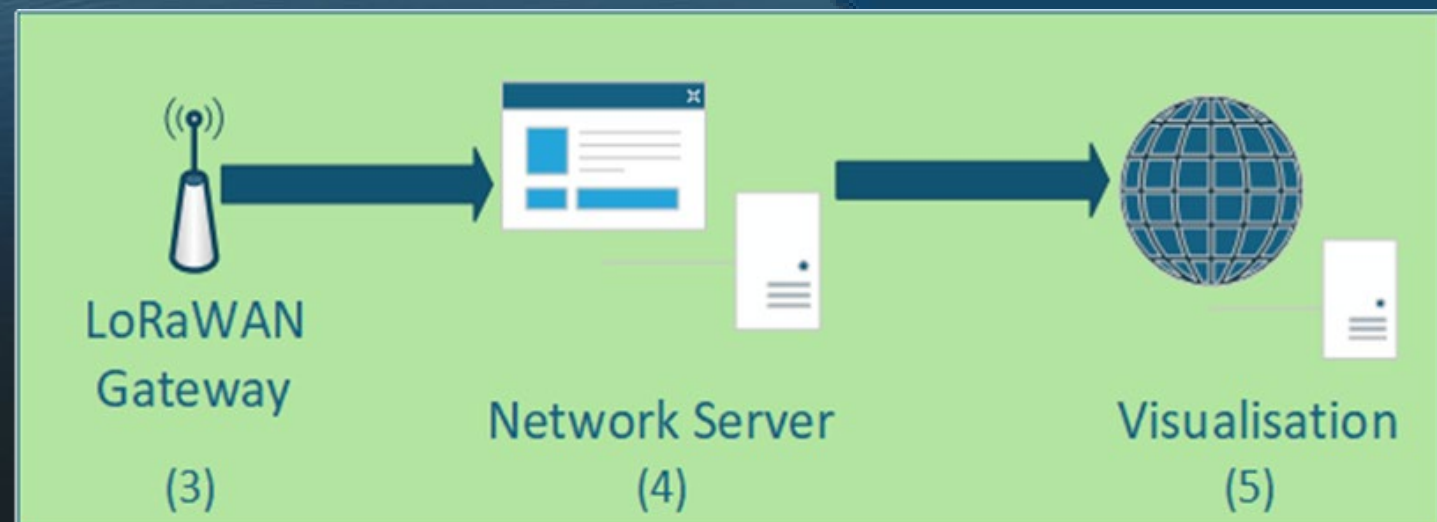
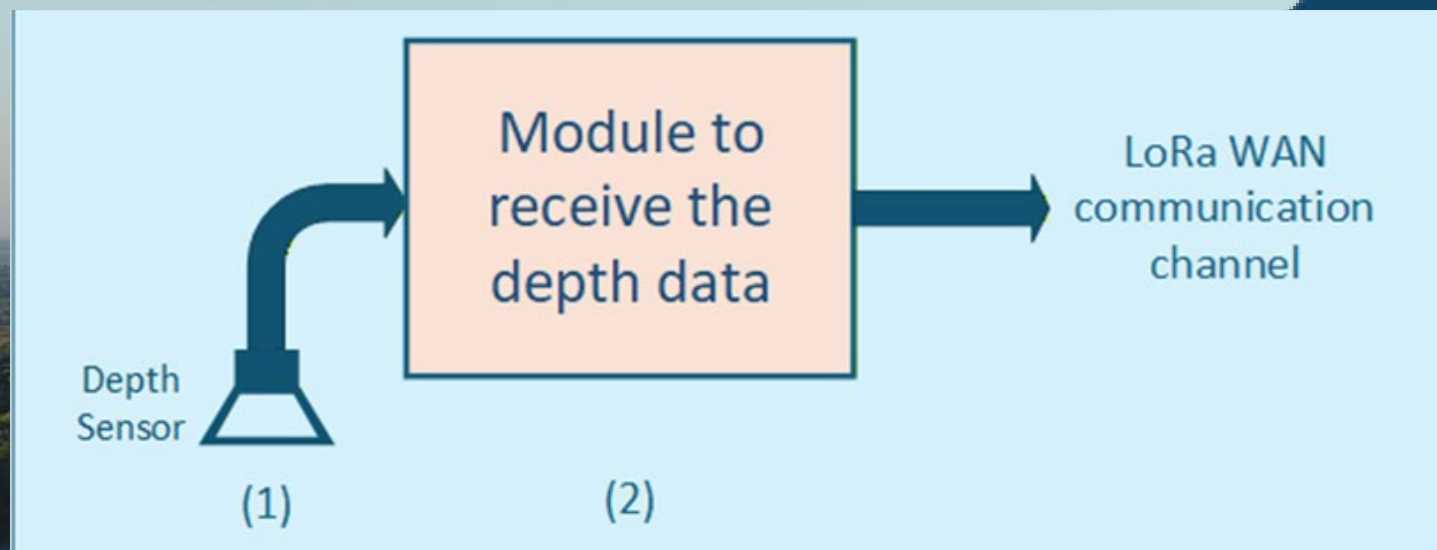
Key Activities

- Development of common services
- Enhancement of national RIS systems
- Integration of geographical reference data
- Development of mobile RIS services
- Support to RIS technical standardisation under CESNI/TI





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COMEX² implementation in Bulgaria

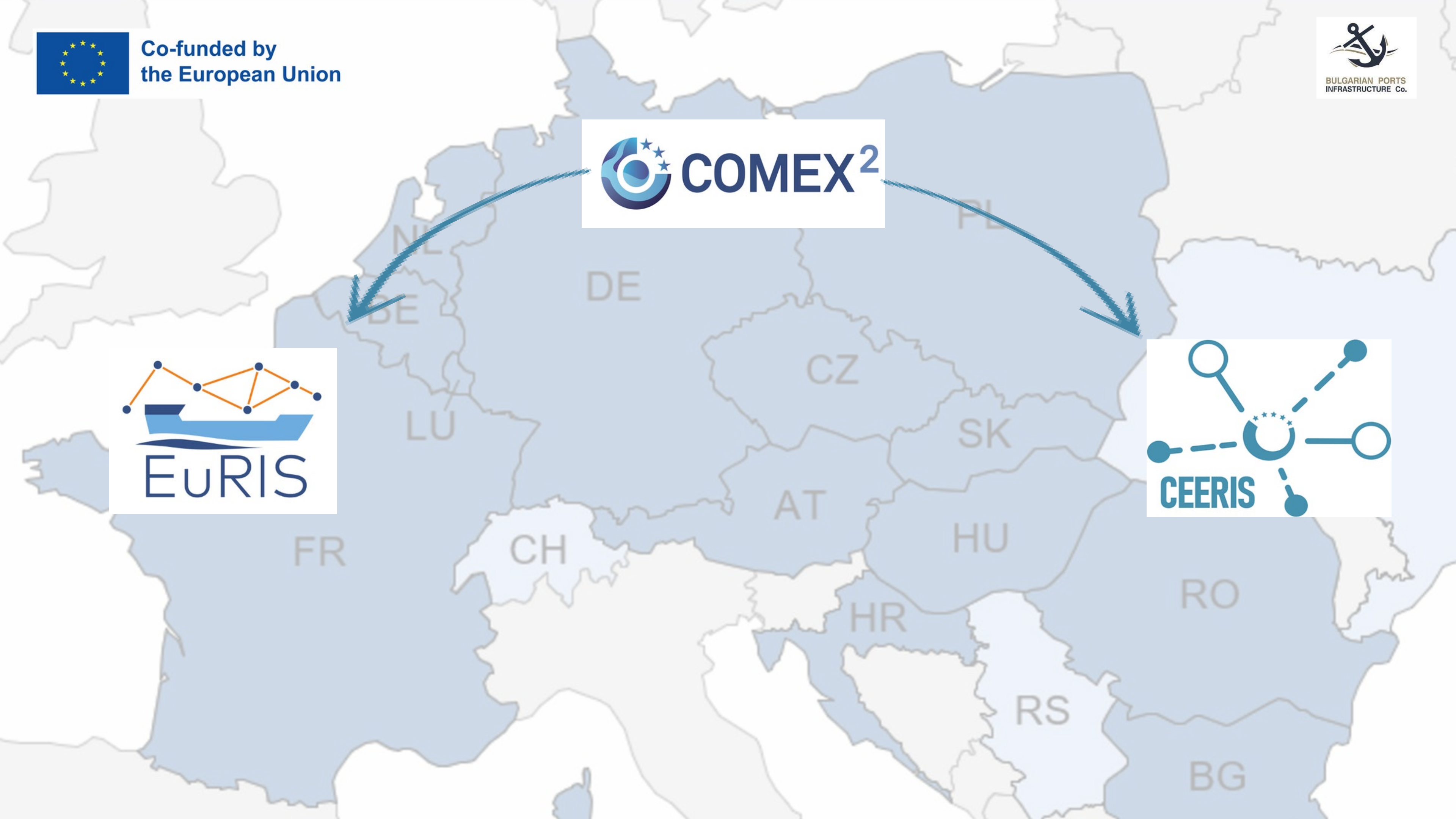
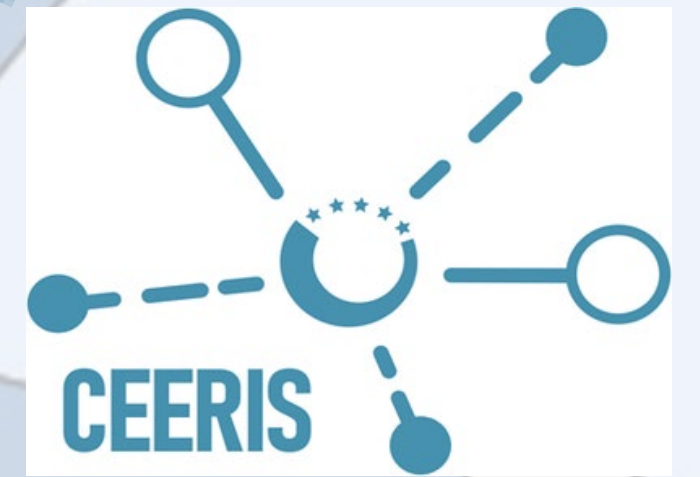
The service provides real-time information on berth depth using:

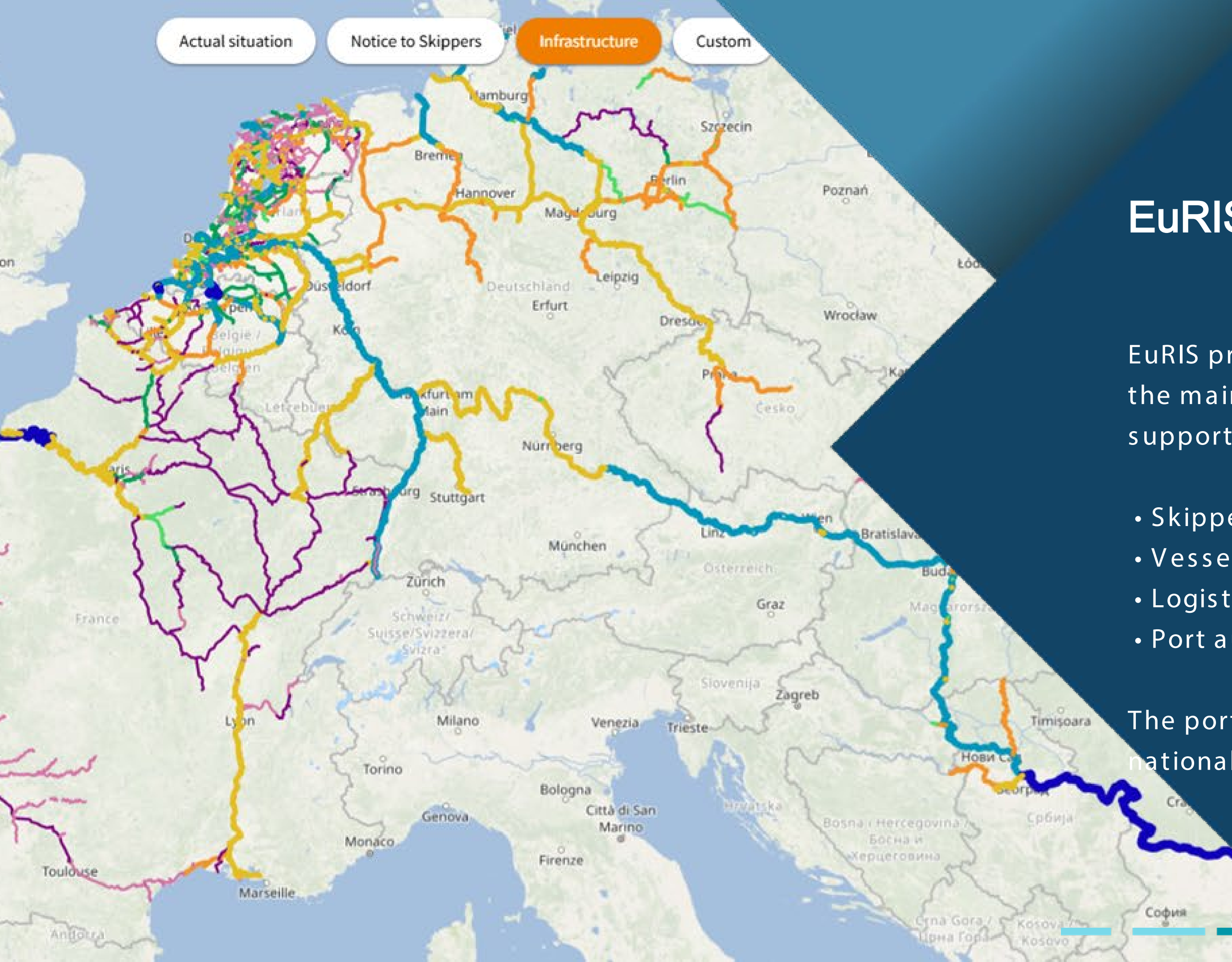
- Depth sensor
- Data acquisition module
- LoRaWAN gateway and network server
- Data processing and visualization platform





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EuRIS Portal

EuRIS provides access to information on the main European inland waterways, supporting:

- Skippers
- Vessel owners
- Logistics operators
- Port authorities

The portal integrates data from national RIS systems

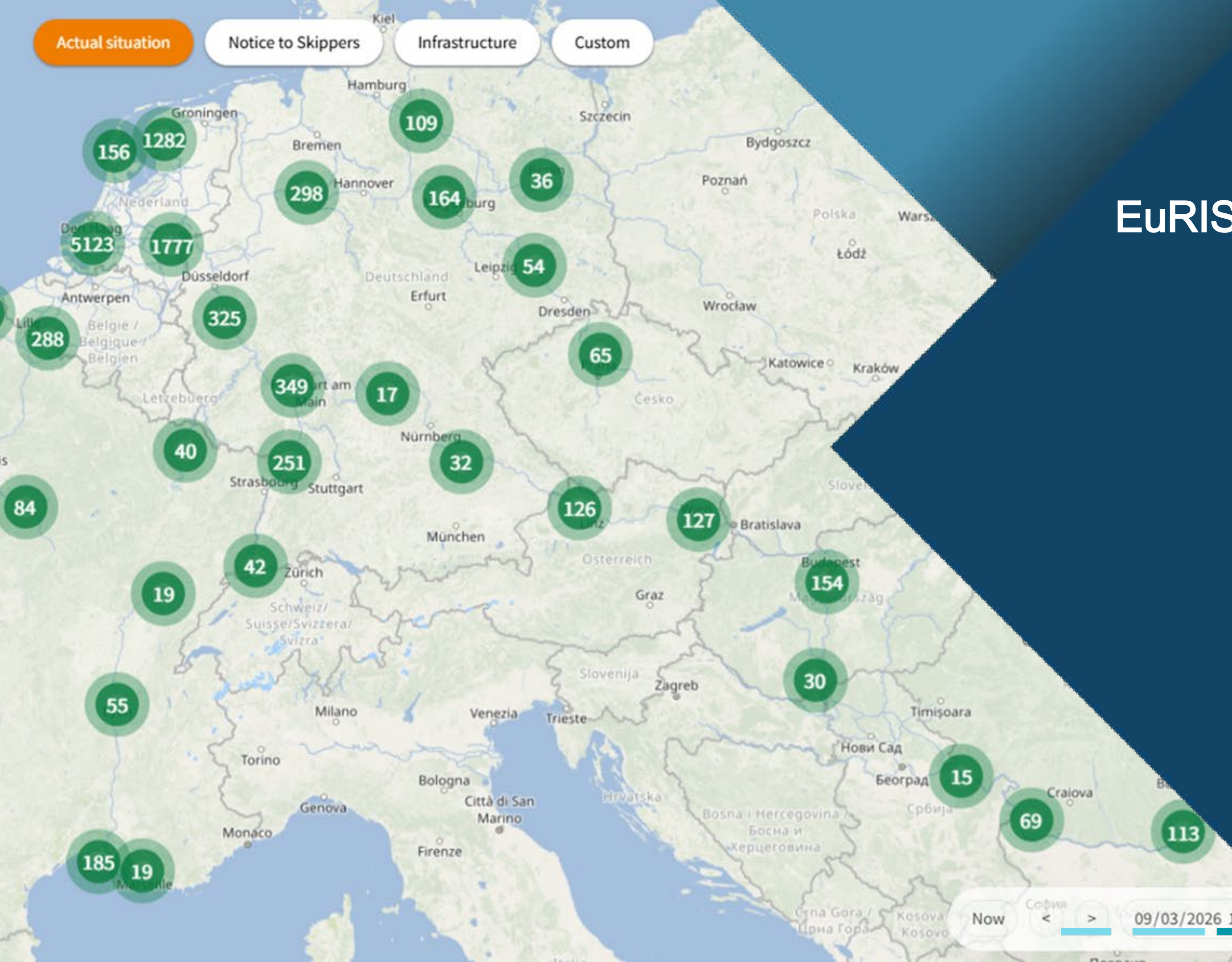


Actual situation

Notice to Skippers

Infrastructure

Custom



EuRIS Portal



Now

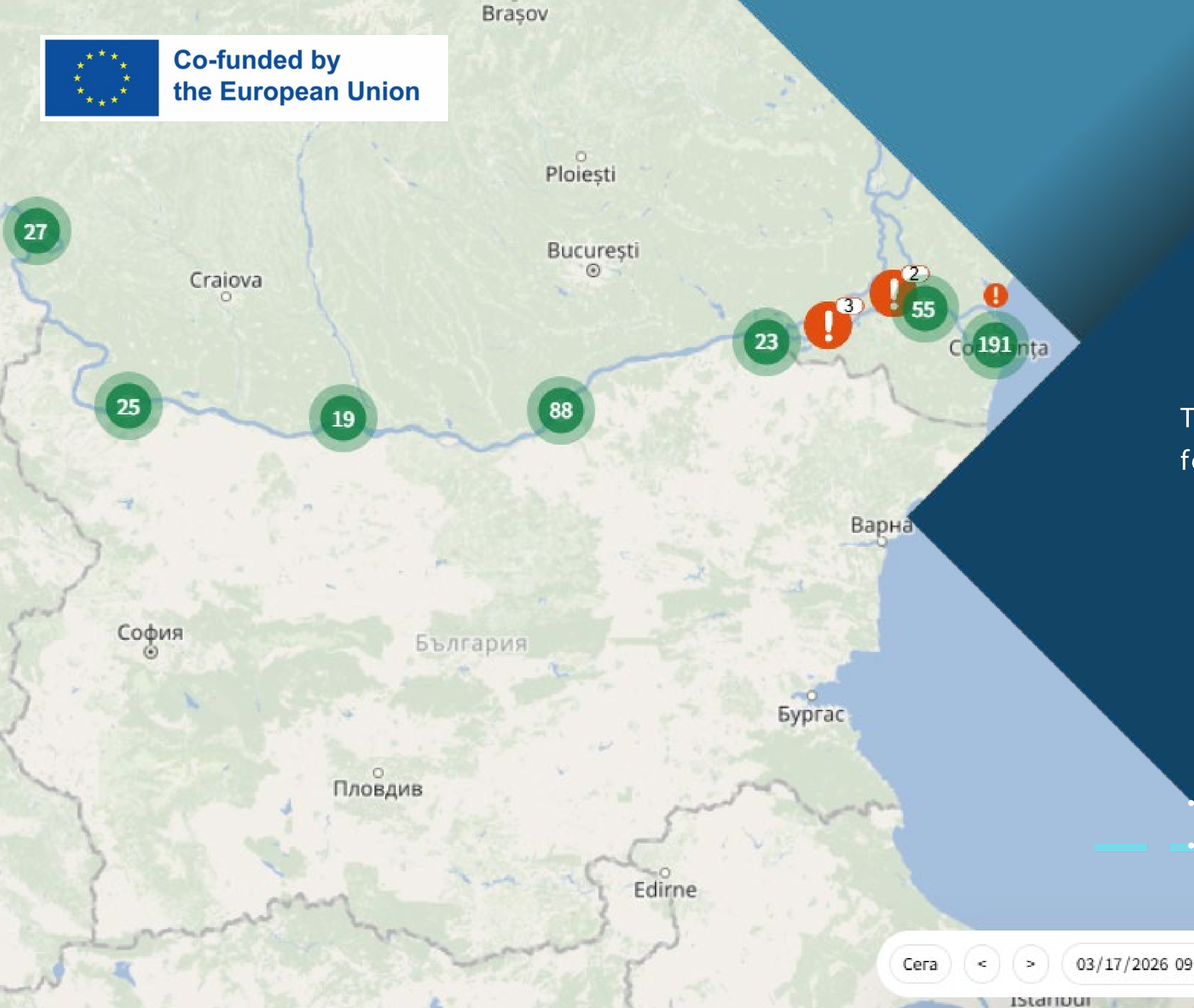
София

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EuRIS data availability in Bulgaria

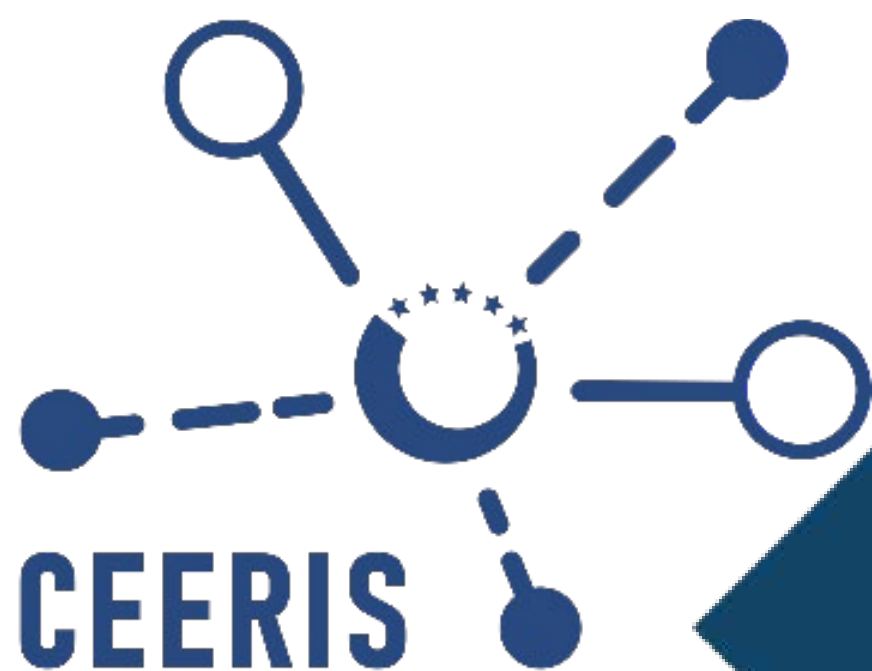
The Bulgarian RIS system provides the following information to EuRIS:

- Class VII fairway network
- AIS vessel traffic data
- Water level information
- Bridges and navigation structures
- Berth information including maximum allowed draught
- Notices to Skippers (NtS)
- Inland ENC charts





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CEERIS– Electronic Reporting System

CEERIS is a common European platform for electronic reporting in inland navigation.

2022

- AT 
- BG 
- CZ 
- HR 
- HU 
- RO 
- RS 
- SK 

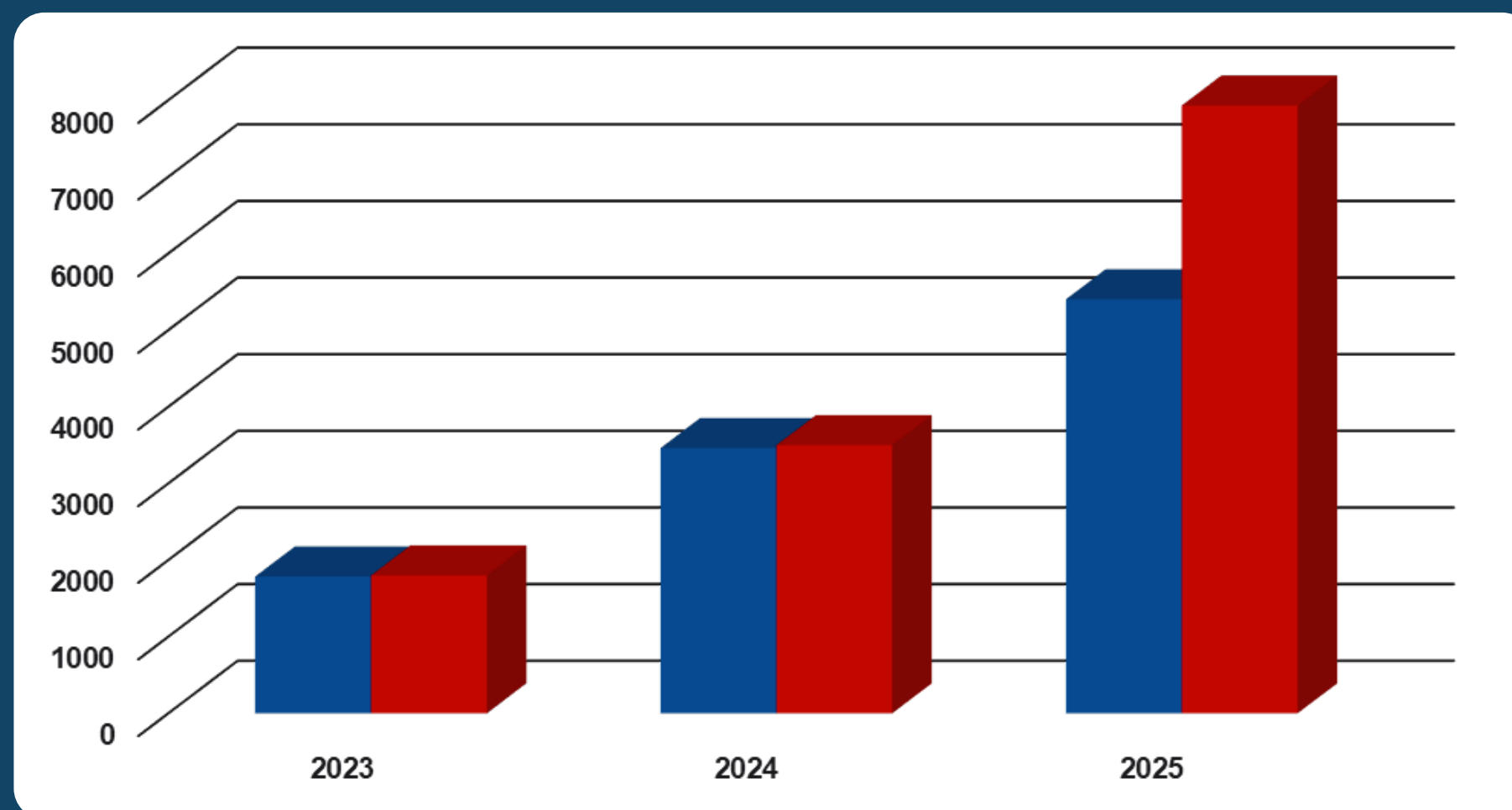
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2026

- DE 
- CH 
- LU 
- PL 

CEERIS implementation in Bulgaria

- 1 April 2025 – parallel operation of Single Window and CEERIS
- 1 September 2025 – CEERIS becomes the single platform for electronic reporting in inland navigation
- CEERIS is fully operational

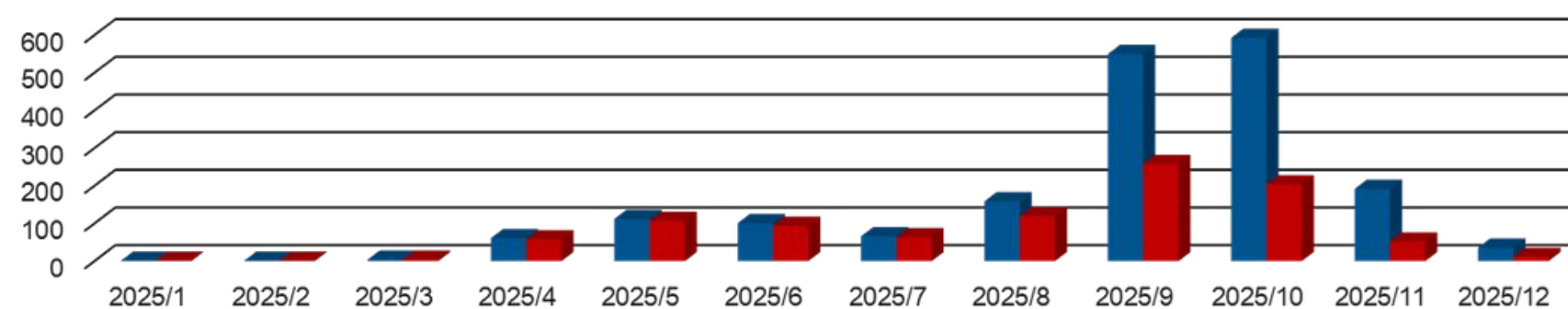


CEERIS in Bulgaria

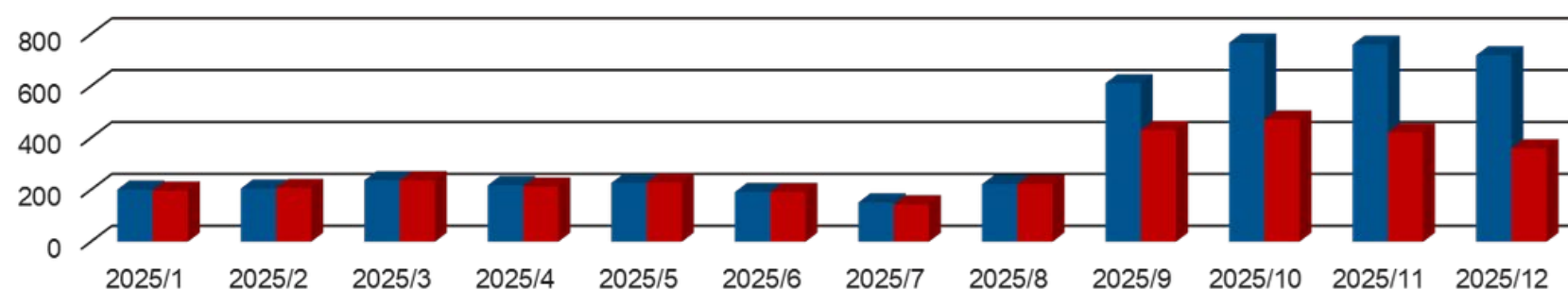
Authorities involved

- River Supervision
- Customs
- Border Police
- Emergency and Rescue Services
- Port Operators
- RIS Center

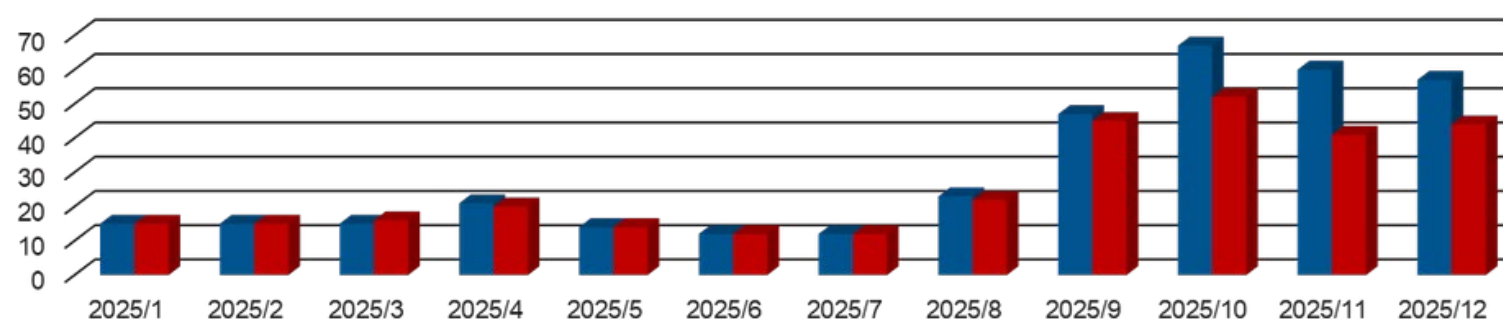
Passenger



Cargo



Dangerous





THANK YOU

FOR YOUR ATTENTION

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