



RUSSIAN INLAND WATERWAYS: SPECIFICS, CHALLENGES, SOLUTIONS

RUSSIAN INLAND WATERWAYS: GENERAL OUTLINE AND CHALLENGES



Length: Total length of the inland waterways in Russia is 102 000 km

Unique geography: Russian inland waterways spread across 11 time zones

Life and death matter: 78% of the inland waterways are the only way to deliver cargo and even people to some places

Highly complicated system: 16 000 km of the internal waterways in Russia are artificial, they are equipped with 100 locks, 70 dams and some large pumping stations.

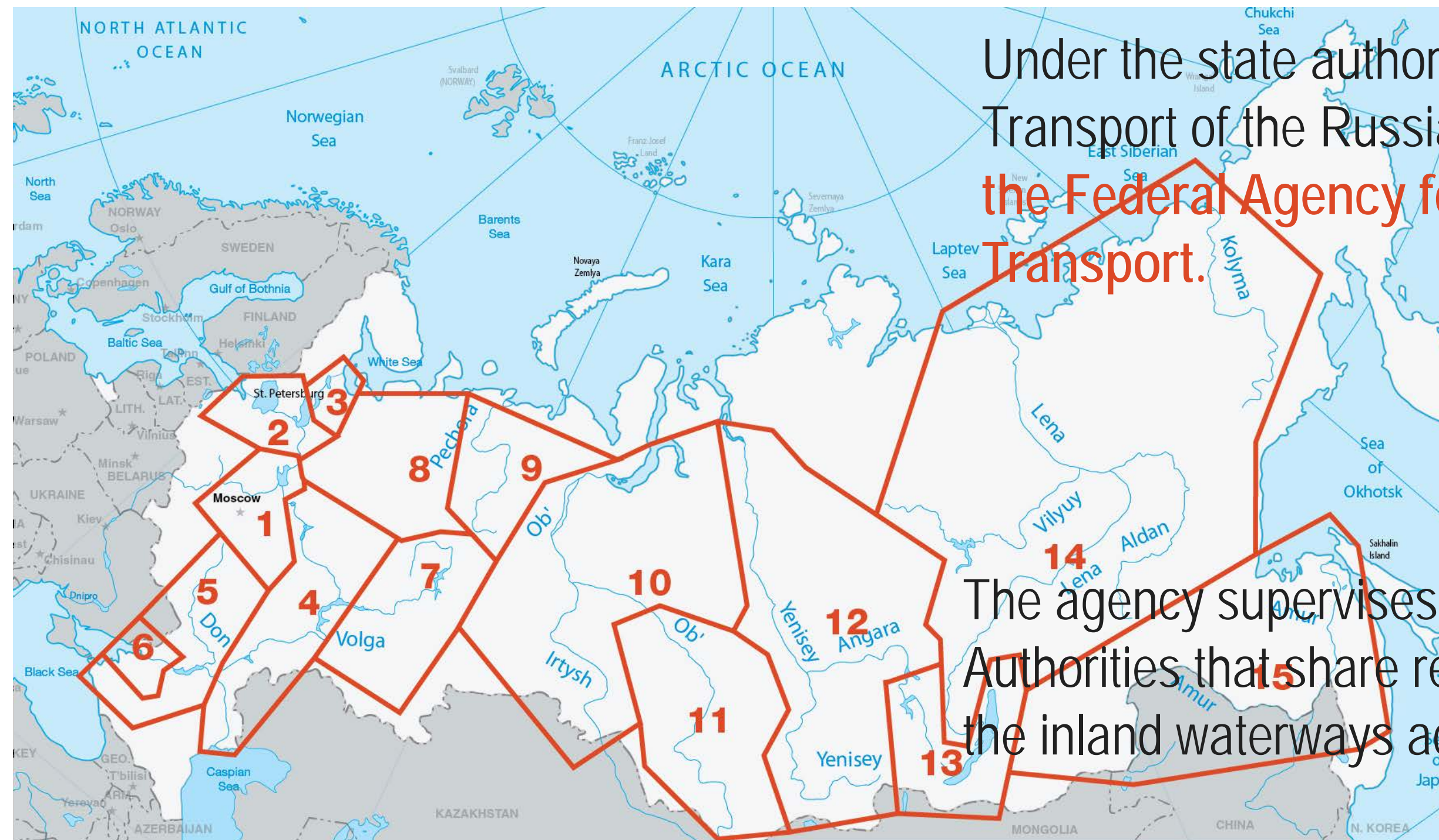
Short navigation period: 2,5 months at worst

UNIFIED DEEP WATER SYSTEM OF EUROPEAN RUSSIA



- Guaranteed depth - 4 m
- Total length - 6 500 km
- Fully functional since 1975
- The shortcut connecting all the European seas

INLAND WATERWAYS MANAGEMENT



Under the state authority of Ministry of Transport of the Russian Federation, there is the **Federal Agency for Maritime and River Transport.**



The agency supervises **15 Regional River Authorities** that share responsibility for managing the inland waterways according to the map.

INLAND WATERWAYS VALUES

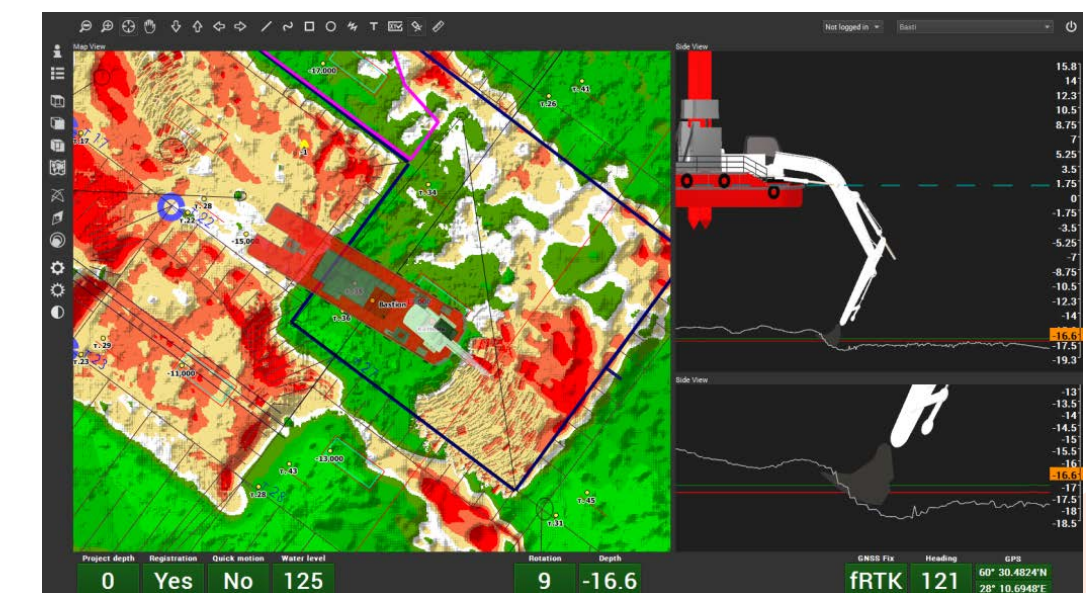
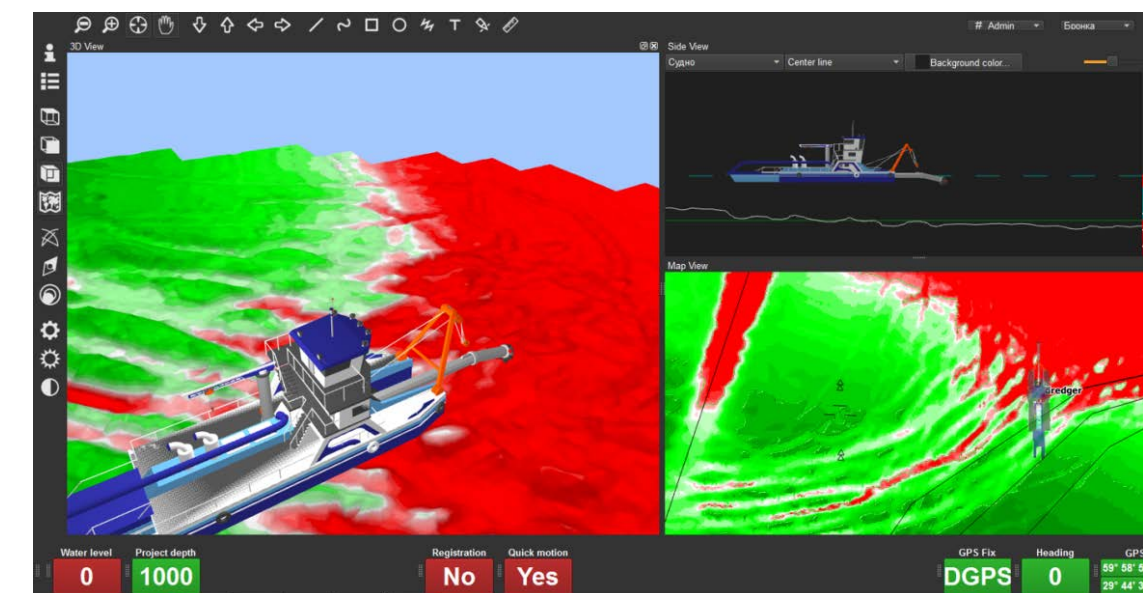
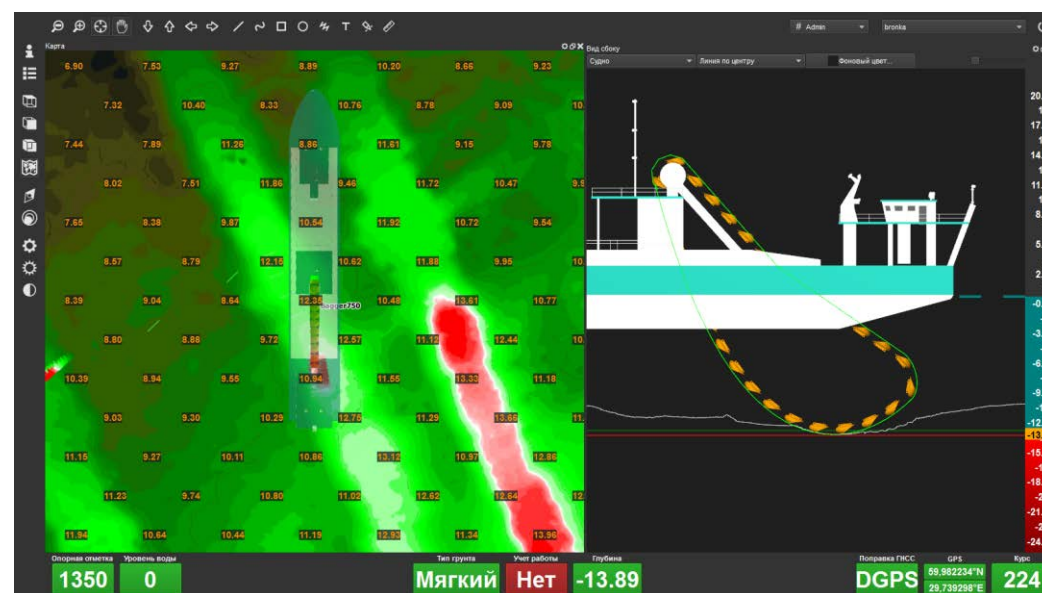
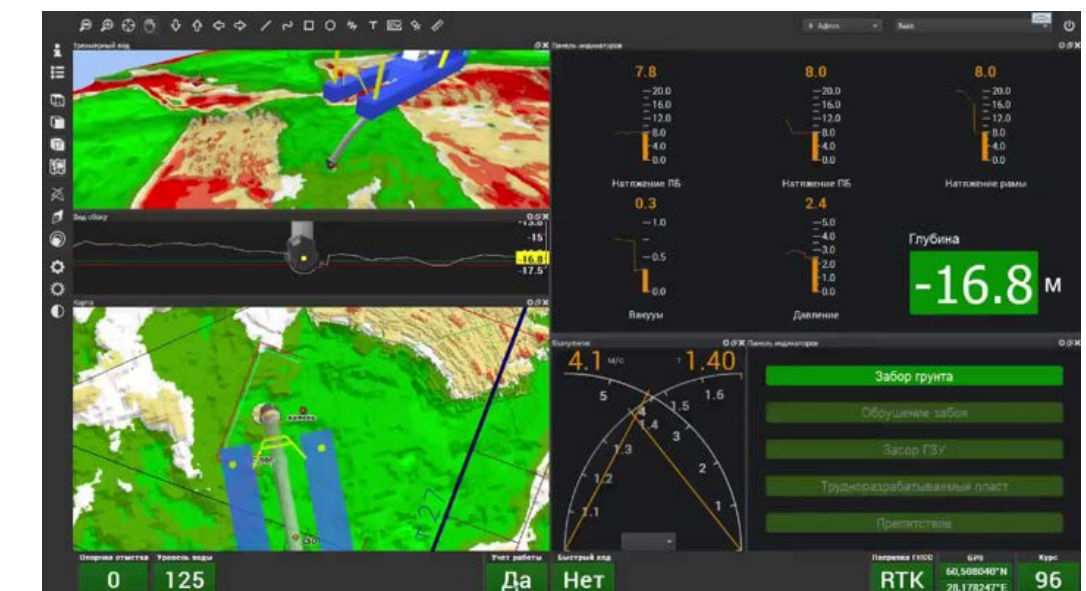
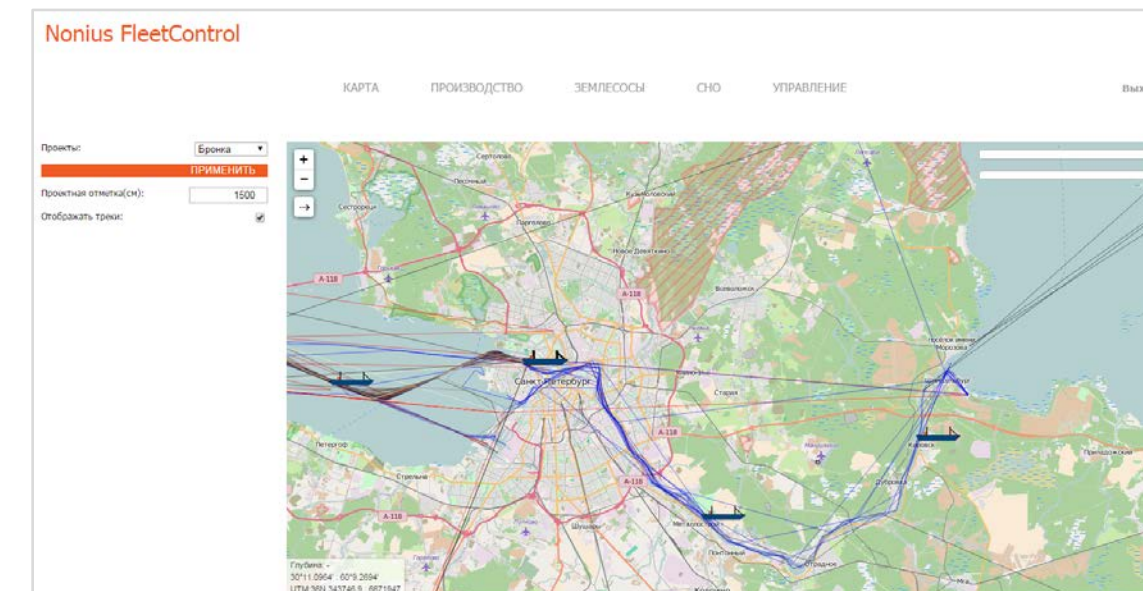
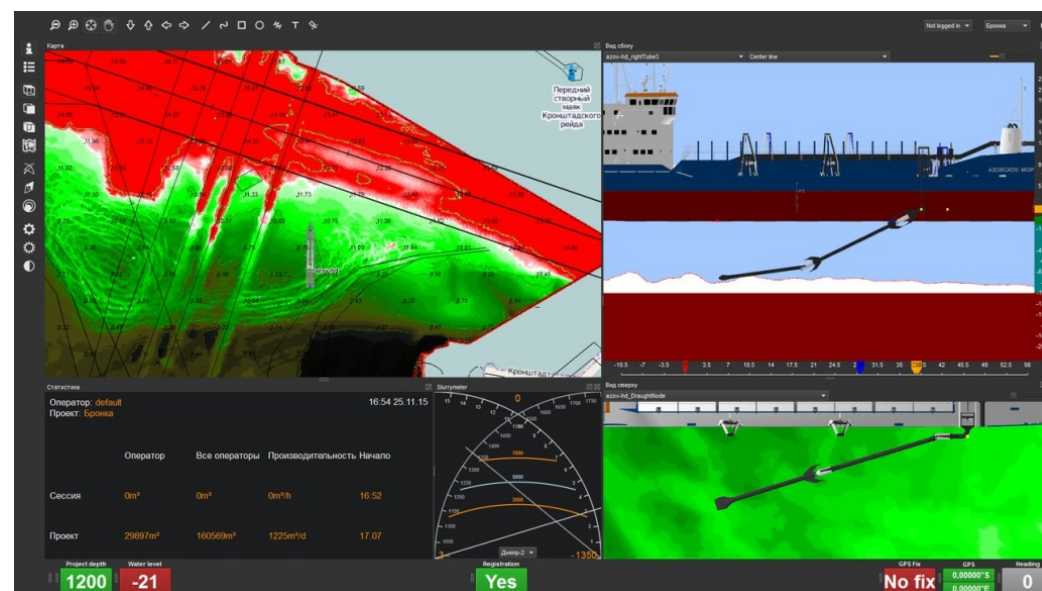
The things you need to think about when it comes to Inland Waterways:

- Security
- Safety
- Control
- Environment
- Innovation implementation



NONIUS ENGINEERING SOLUTIONS

For the past 10 years, **Nonius Engineering Ltd.** has been working on optimization of the inland waterways managing processes by developing and introducing new automation equipment. Our products help to create **safe, controllable** and **very efficient** working environment for inland infrastructure. Committed to **safety, sustainability** and **modernization**.



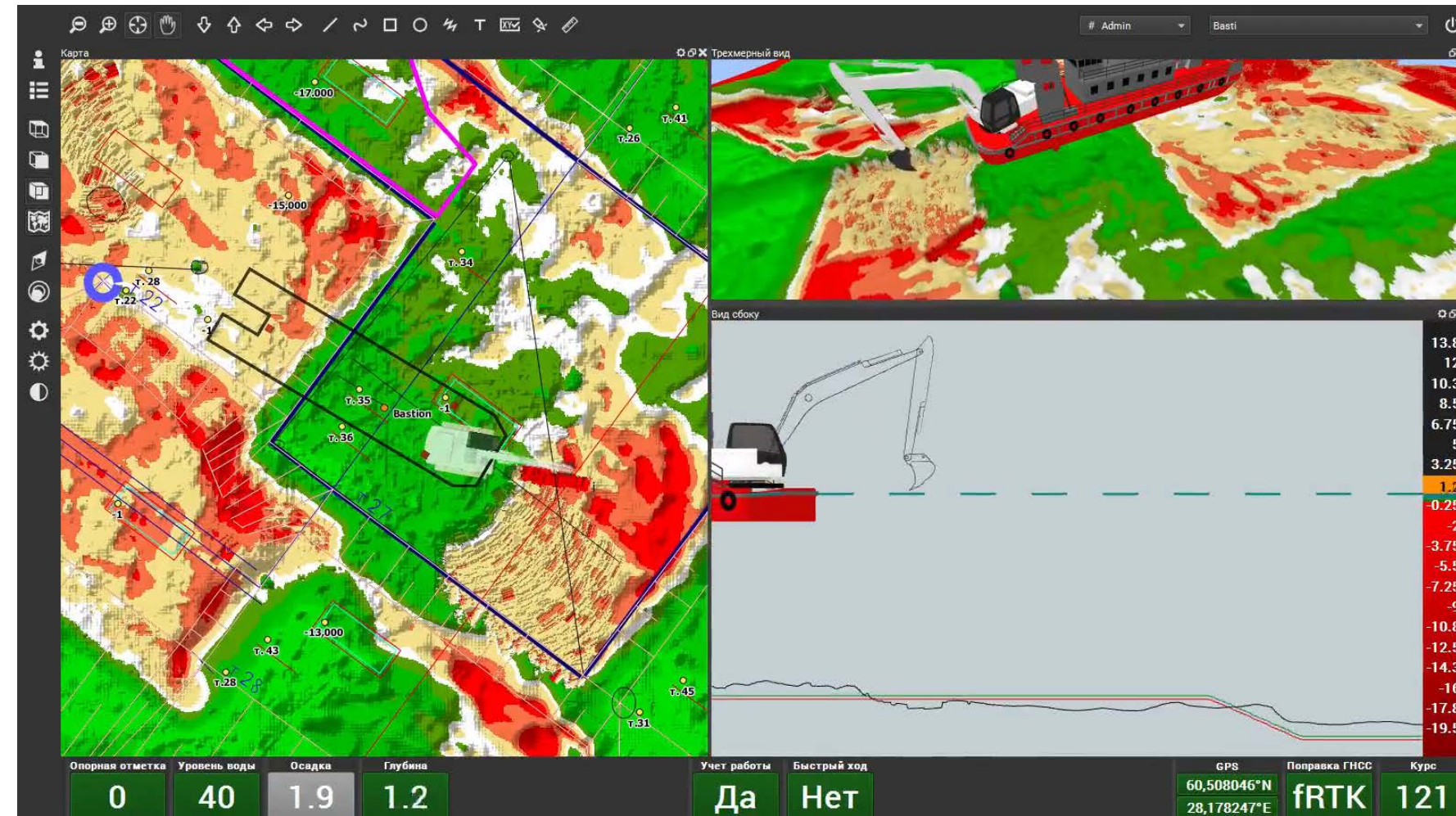
Unique products, **high standards** of service and maintenance.

NONIUS ENGINEERING MAIN PRODUCTS

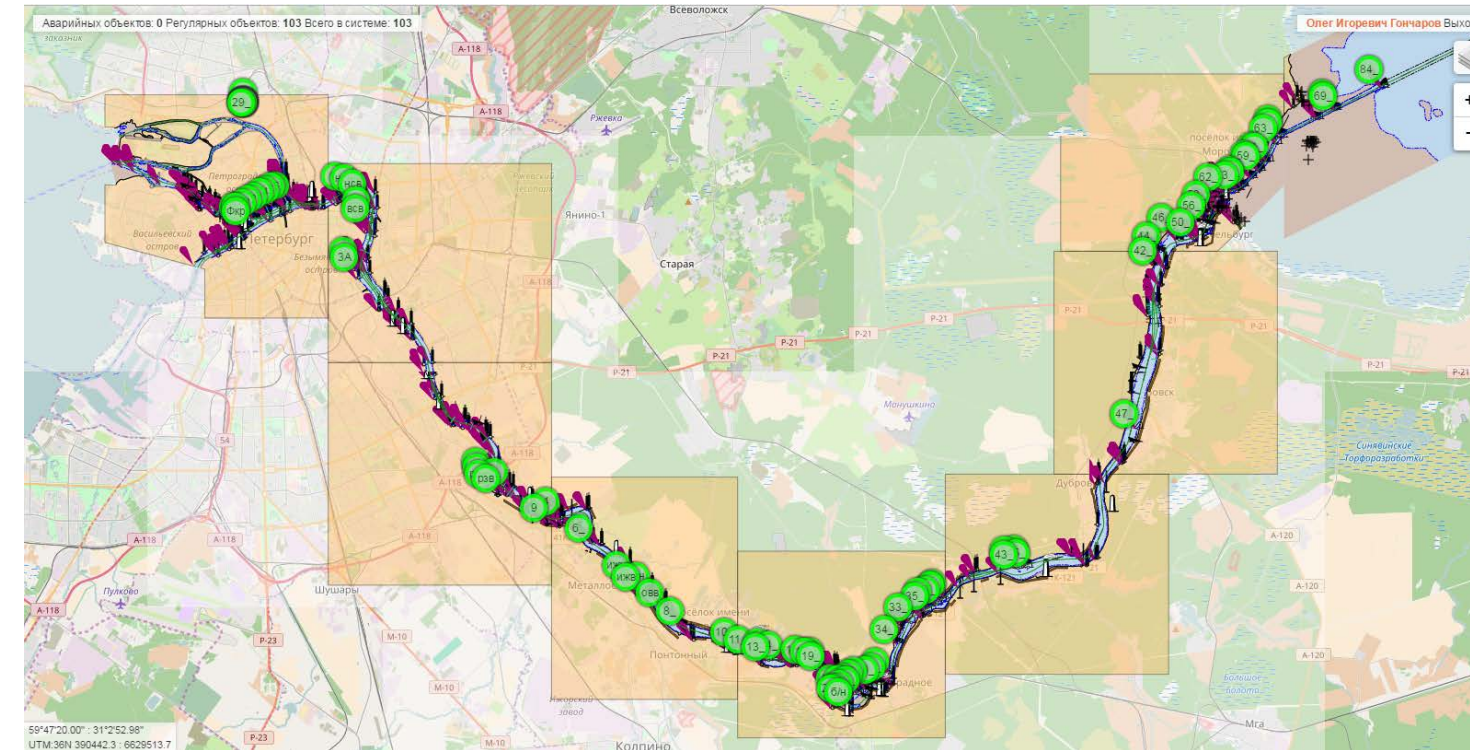
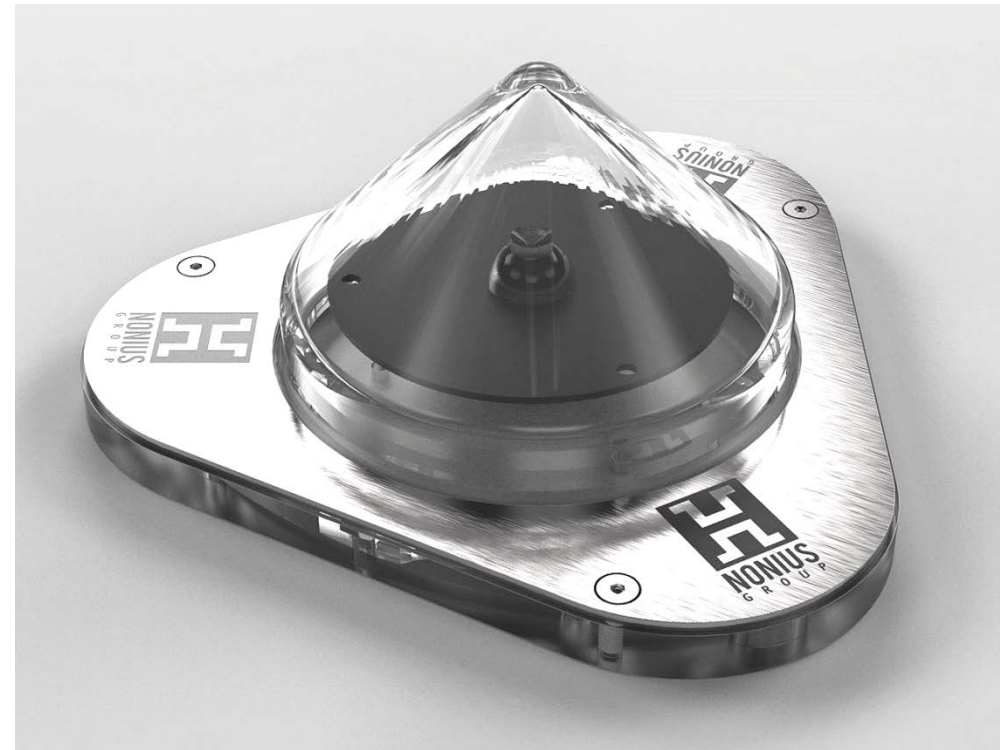
List of products:

- Positioning and production monitoring systems for dredgers
- Positioning systems for suction dredgers, bucket dredgers, backhoe dredgers and split-barges
- Remote monitoring systems
- Geodesic data software
- Ship systems monitoring software

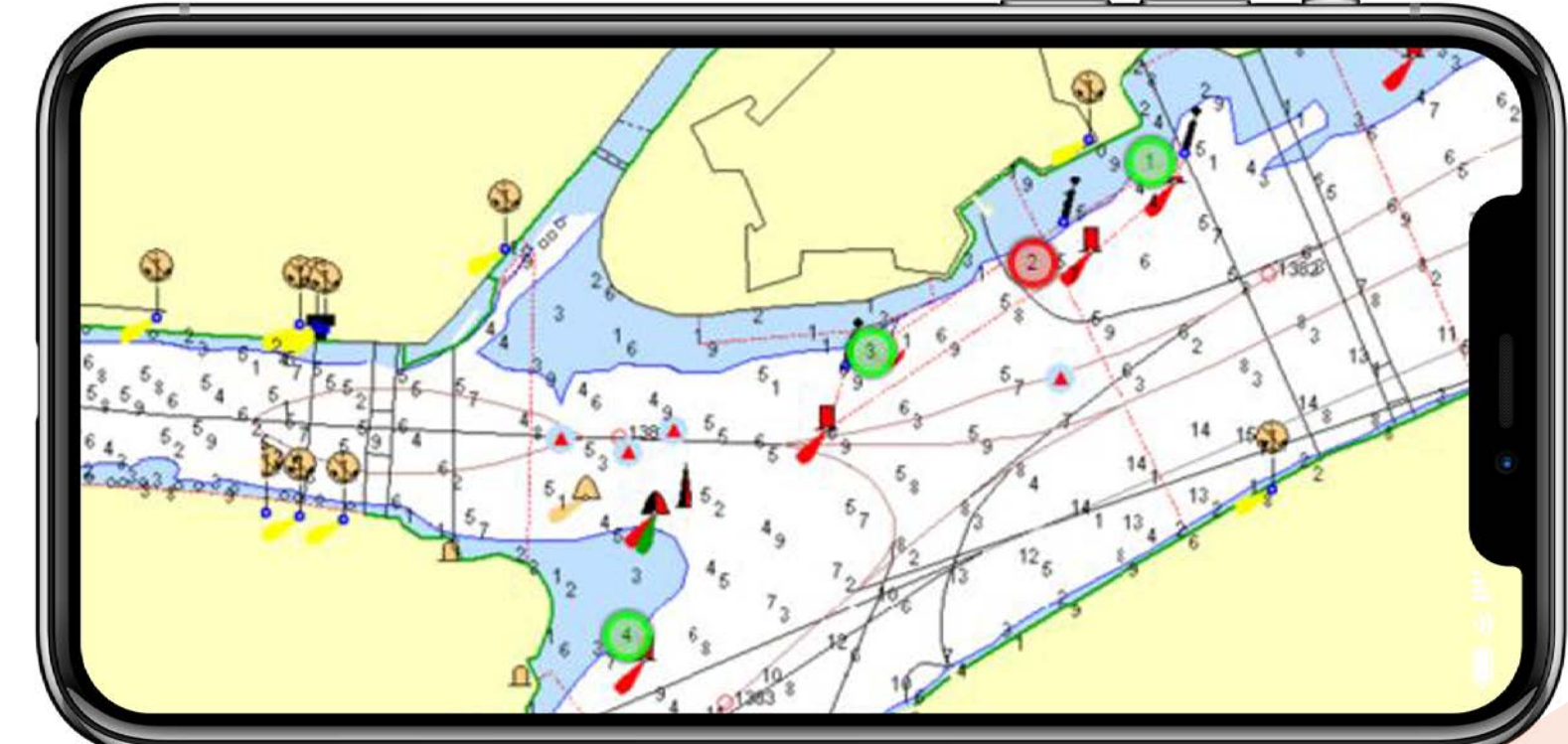
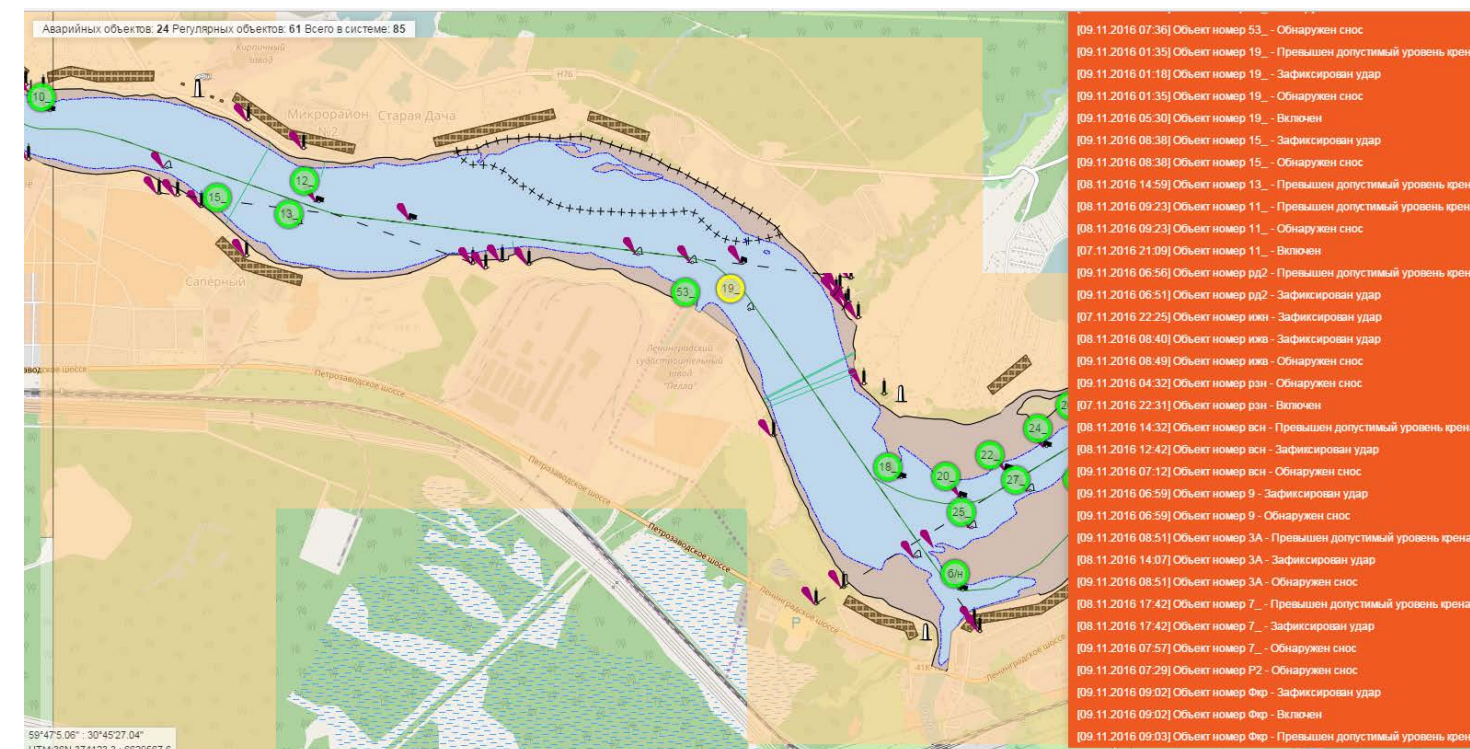
More than 70 dredgers equipped with our products



AtoN MONITORING AND REMOTE CONTROL



- River LED AtoN with monitoring function
- GSM, Satellite, radio channels
- AIS compatible
- Special data transmission protocol
- Cloud monitoring and control service





LET US GO FORWARD **TOGETHER!**