



**Admiral Makarov State University of Maritime and Inland Shipping**

**THE INLAND WATERWAY TRANSPORT OF  
THE RUSSIAN FEDERATION:  
BOTTLENECKS, POTENTIAL AND  
GROWTH POINTS**

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# The general description of the Russian inland waterway transport

## THE INFRASTRUCTURE OF THE INLAND WATERWAYS



- 723 hydraulic structures
- 108 locks

101

[thousand km]

## CARGO VOLUME



- 137 million tons
- 81,3 billion ton-kilometres

137

[million tons]

## FLEET



- 13,6 thousand ships
- Overall fleet cargo carrying capacity 8 130 thousand tons

13,6

[thousand]

## RIVER PORTS



- Over 130 ports with approach roads
- 828 quay cranes and 247 floating cranes

130

[units]

## PERSONNEL



- The number of people on the staff is about 100 000

100

[thousand]

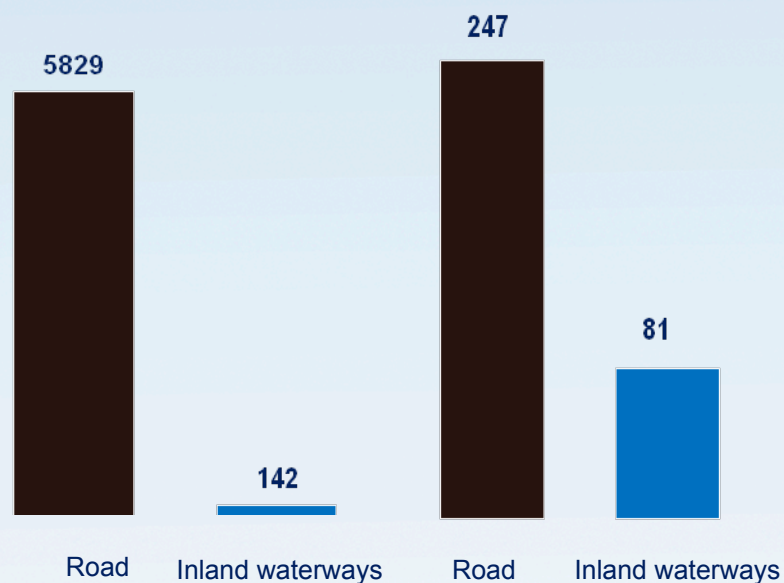


# The cargo turnover of the inland waterway transport is 3 times less than that of the road transport

The cargo volume in 2012 [million tons]

The cargo turnover in 2012 [billion ton-kilometres]

The change of the inland waterway cargo volume, million tons



## Infrastructure of the inland waterways and cargo fleet



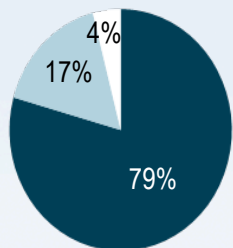
The length of the inland waterways with guaranteed dimensions of navigable fairways decreased from 67034 km to 48388 km in comparison with 1991.



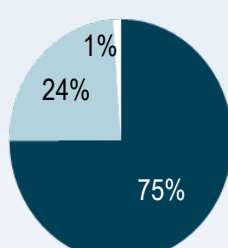
The guaranteed dimensions of navigable fairways declined at the length of 27500 km of the inland waterways

### CARGO FLEET [%]

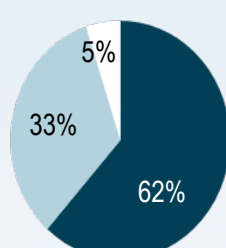
Self-propelled vessels



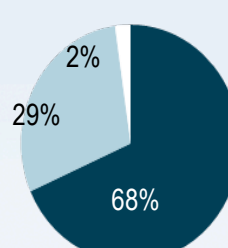
Tugboats



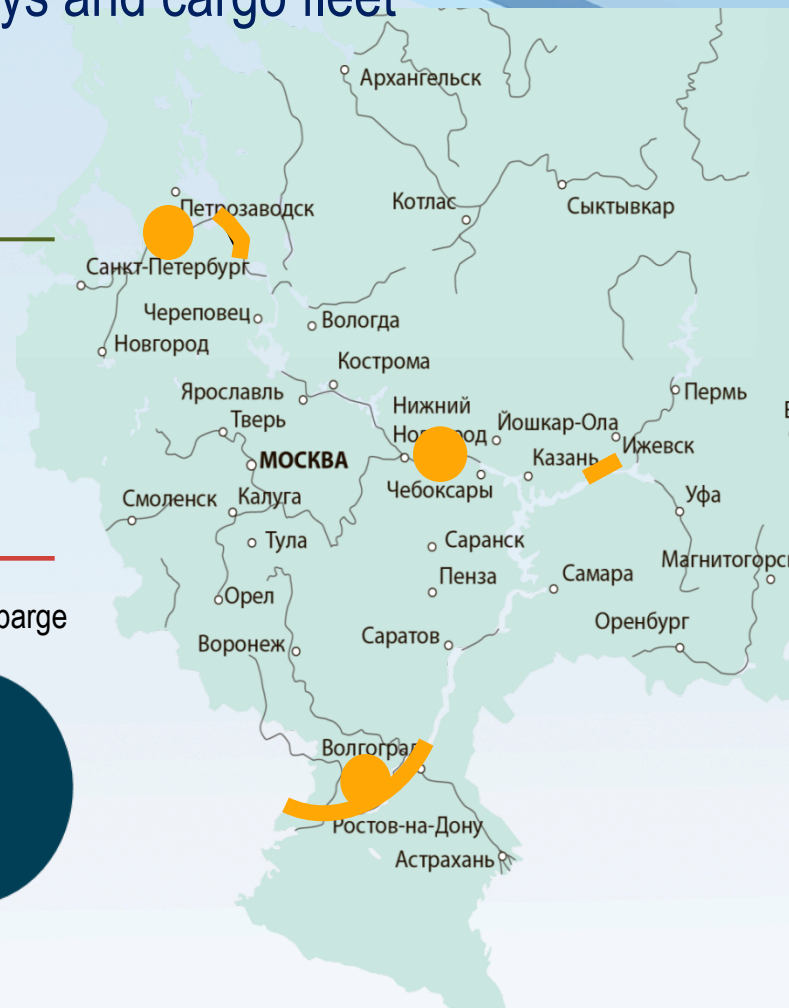
Tank barge



Dry cargo barge



Above 27 years old
  Above 12 years old
  Under 12 years old





## The bottlenecks on the inland waterways of the Unified Deep Water System of European Russia

- Low Svirskiy lock on the Volgo-Baltic waterway
- The stretch Gorodetz – Balakhna on the middle Volga near Nizhniy Novgorod
- Saralevskiy stretch on the lower Volga
- The stretch from Kochetovskiy hydroelectric complex to village Aksay on the Low Don

The length of the inland waterways of the Unified Deep Water System of European Russia is 6500 km, the bottlenecks limit the traffic capacity at the length of 4900 km.

According to the target program “ The development of the Russian transport system (2010 – 2020)” the following projects will be implemented:

1

**The construction of the second line of Low Svirskiy lock (2012-2017)** , in 2014 the first two stages have been completed

2

**The reconstruction of the Saralevskiy stretch (2013-2015)**

as a part of a complex reconstruction of hydrotechnical objects on the Volga basin waterways, now extensive channel dredging is carried out

3

**The construction of Nizhnegorodskiy low-pressure hydroelectric complex (2016-2020)**

Since 2014 the design project has been carried out