STATUS OF INLAND CARTOGRAPHY IN RUSSIA

Introduction

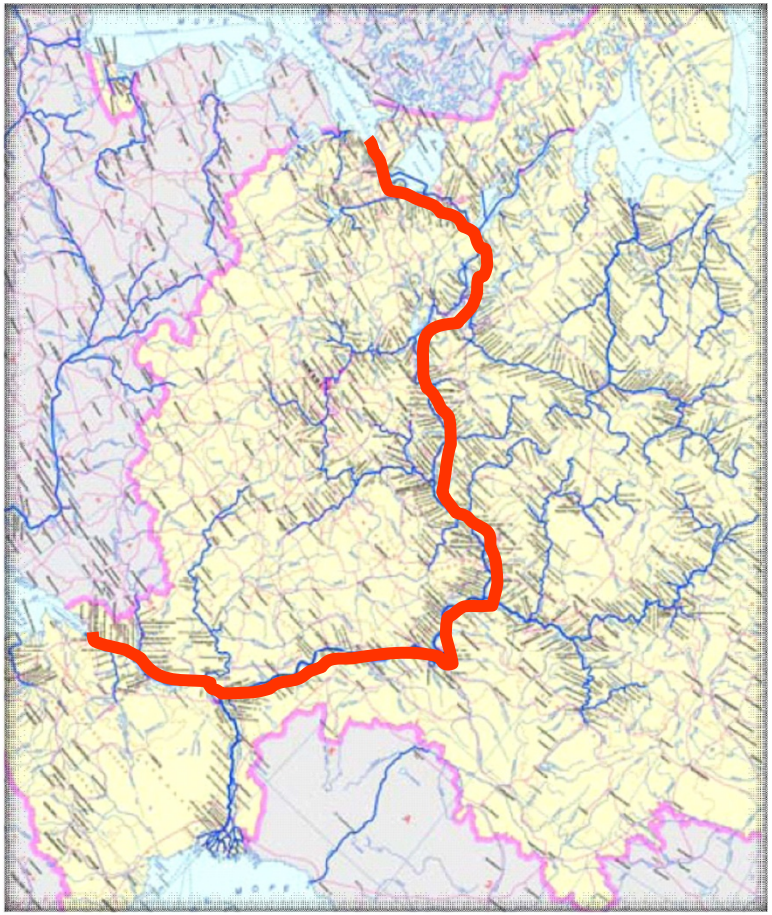
The Concept For Development of Inland Waterway Transport of RF was elaborated and adopted in 2003.

Special attention is paid in the Concept to the development of international navigation over inland waterways of Russian Federation.

Number of measures are undertaking by Ministry of Transport and Federal Agency of Maritime and River Transport of RF for the preparation of Russian Inland waterways to the international navigation.

According to their plans Russian Inland Waterways to be opened for international navigation in 2010.

IENC coverage

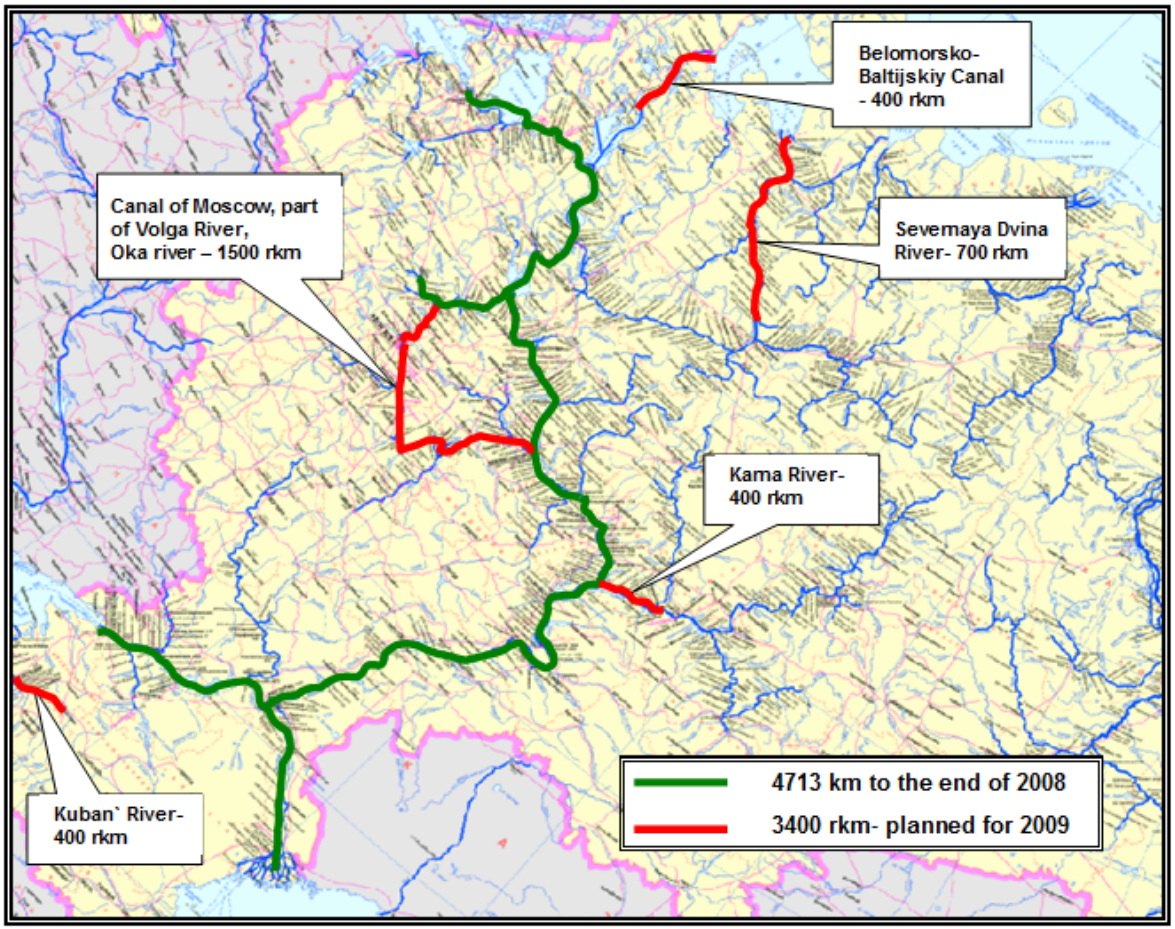


The extensive IENC production took start since the beginning of 2007.

More than 4700 km of inland waterways over European part of the country were covered with Inland ENCs by the end of 2008.

The continuous navigable waterway connected together, in cartographic sense, southern and northern transport flow from Baltic Sea to Sea of Azov and Black Sea.

IENC coverage



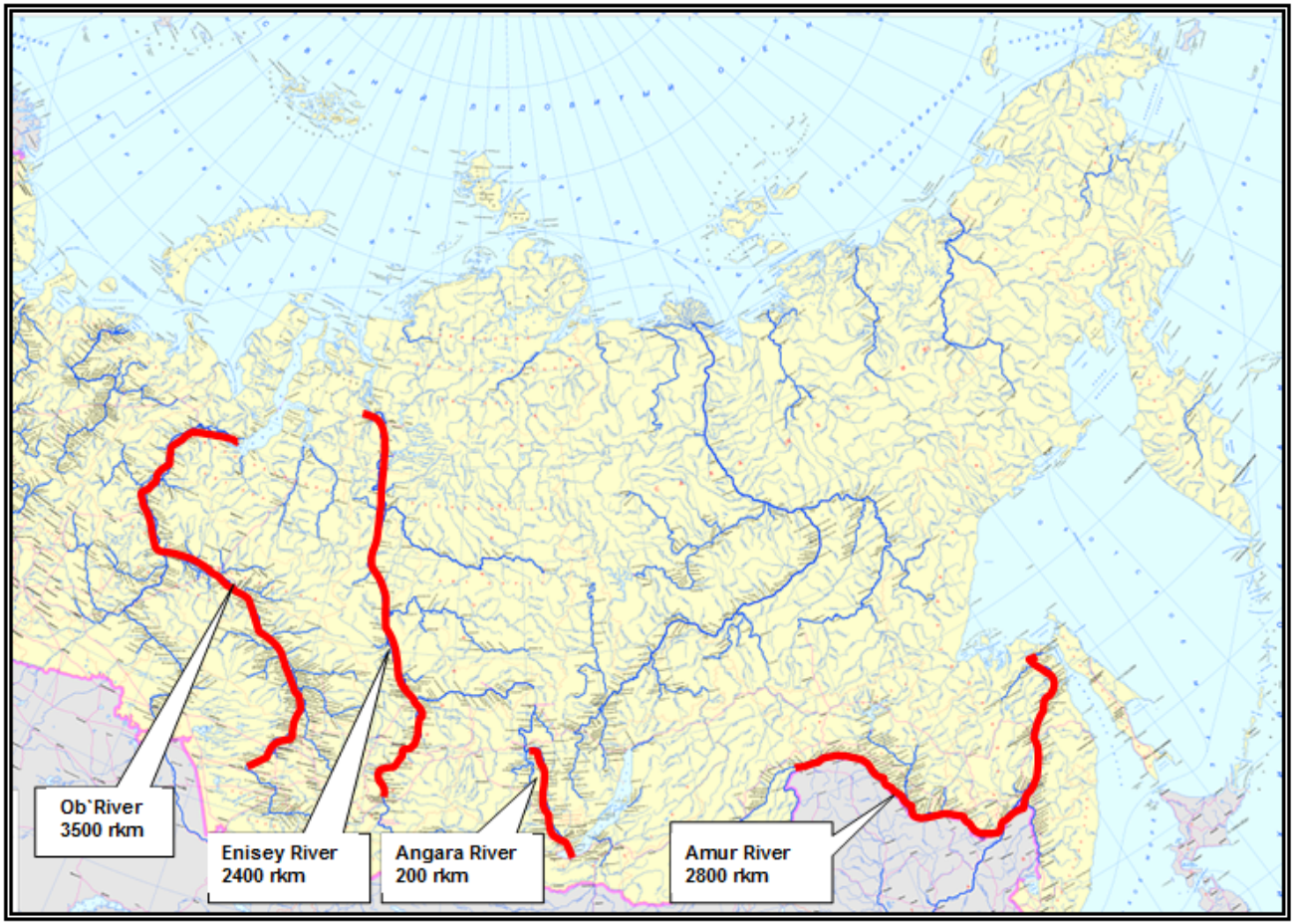
ENC coverage of the European part of the Russian IWW

Additionally, 3400 km of inland waterways will be covered with IENCs till the end of 2009.

The joint waterway network will connect all international maritime areas together.

Safe navigation will be possible from Europe via Black Sea to Caspian Sea, Baltic Sea, White and Barents Seas or to the capital of Russia.

IENC coverage



ENC coverage of the Siberia and the Far East part of the Russian IWW – planned for 2009

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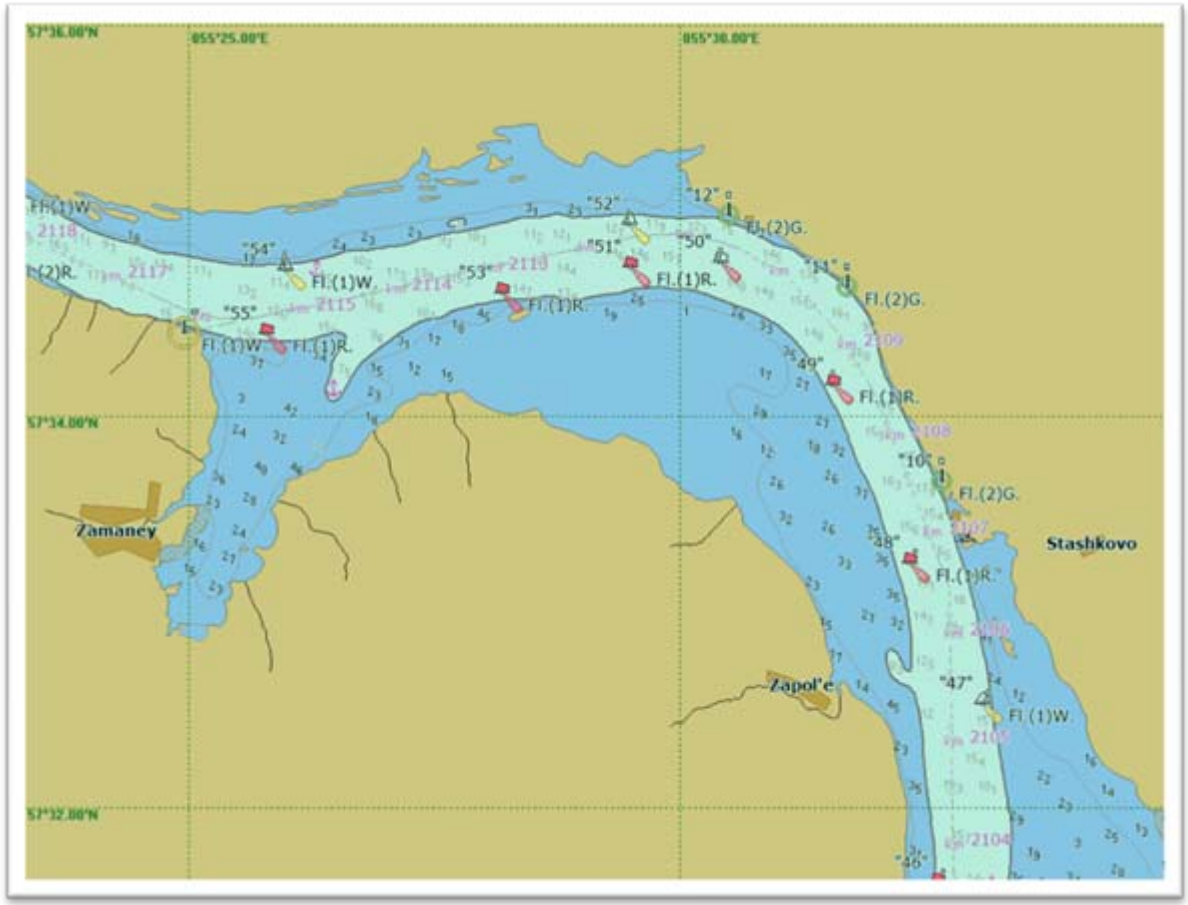
At the same time, several Siberian and Far East rivers (~ 9000 km) of the country is planned to be covered with IENCs in 2009 \mid2010, that will provide transportation from the deep of the country to Arctic and Pacific.

In addition, 12 000 km will be provided with IENCs in 2010 – 2011.

IENC coverage



All IENCs are produced according to Russian Regulation Document RD 152-012-01 that fully complies with IHO S-57 Standard for maritime ENCs. There is an intention to harmonize RD with Inland ECDIS Standard this year. Bathymetry is a mandatory part of Russian IENCs.

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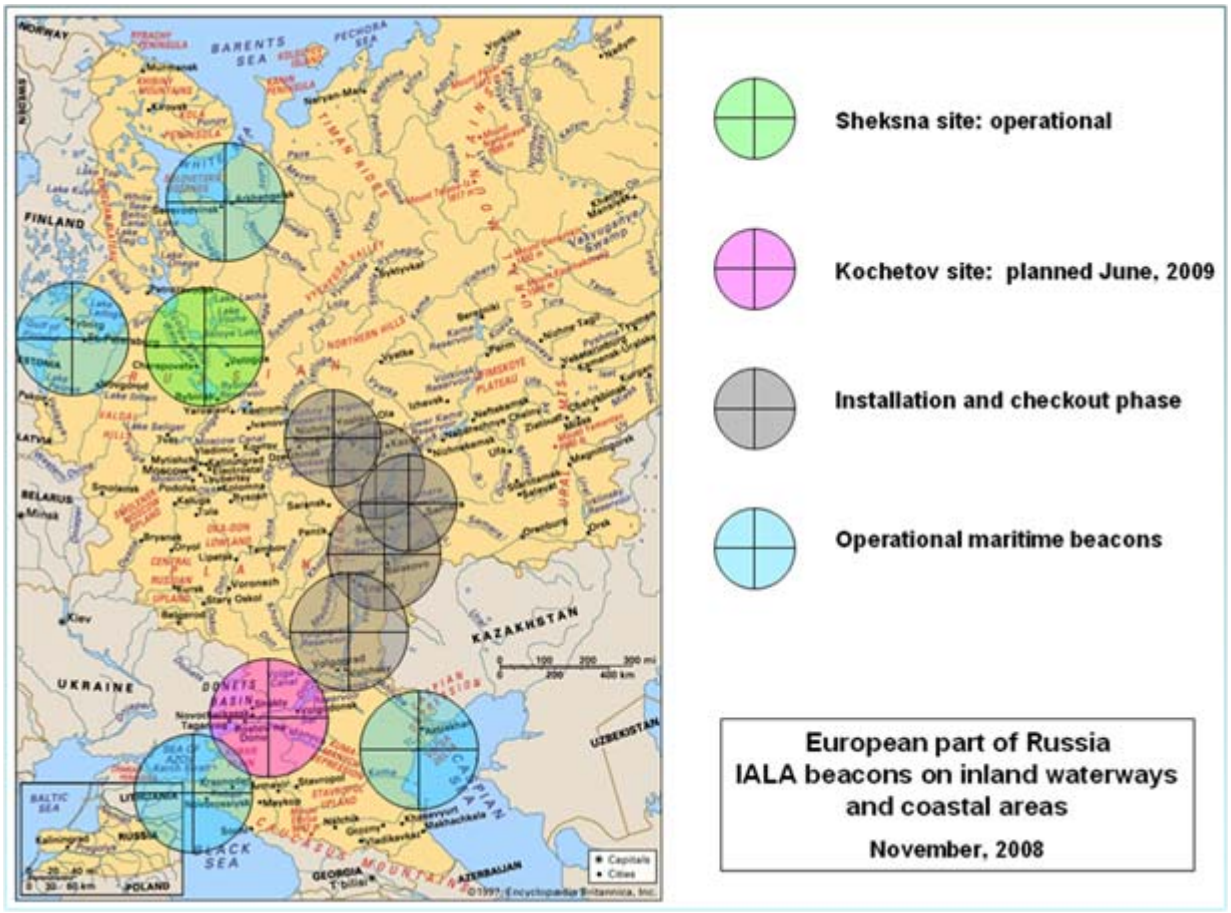
IALA beacons



Among other components of RIS Russian MoT undertakes the measures of IALA beacon installations to provide more precise navigation by future international inland waterways. To the end of 2010 all waterways to be opened for international navigation will be fitted with IALA beacons and possibility of differential GLONASS/GPS positioning.

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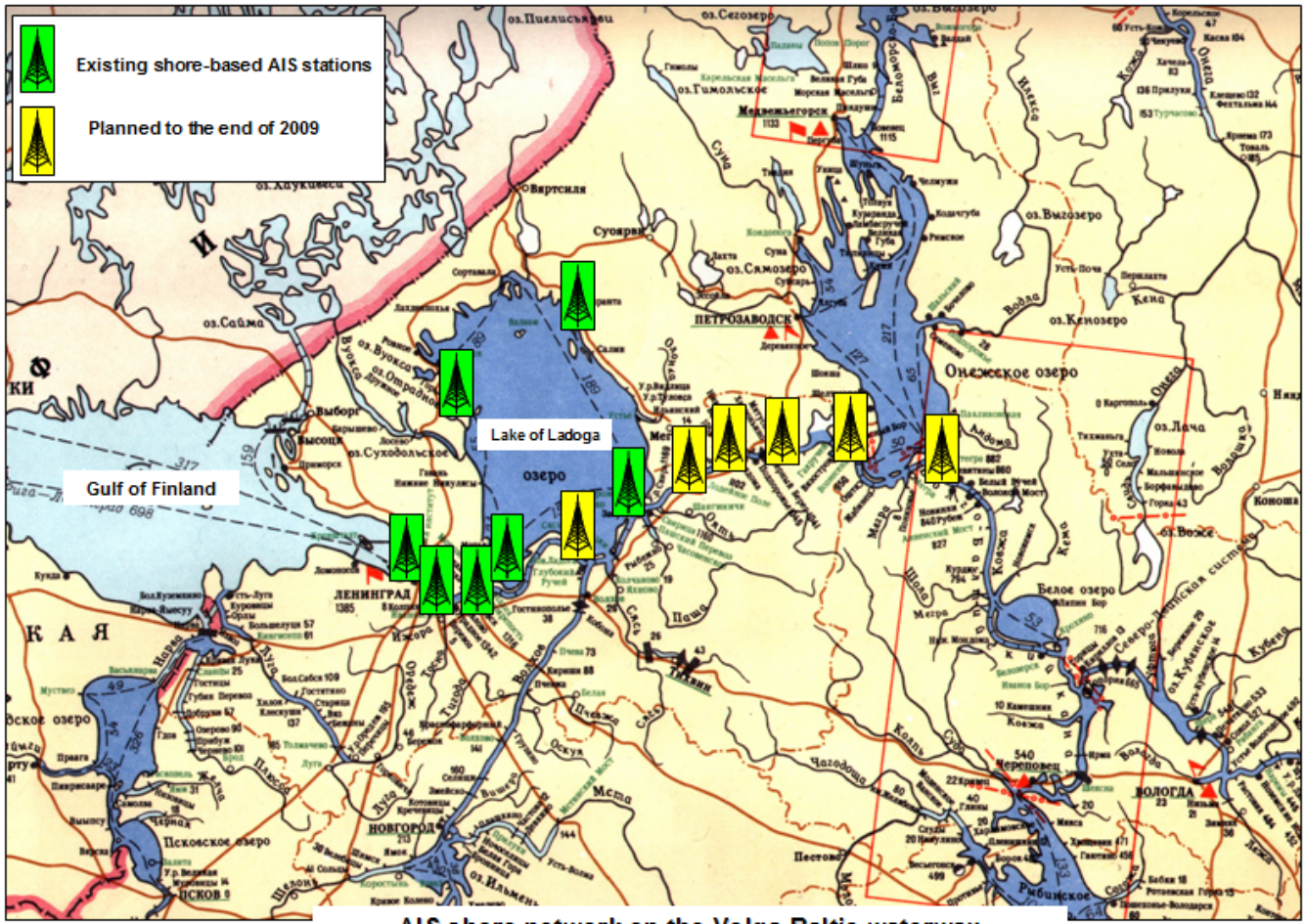
shore-based AIS



AIS shore network on the Volga-Baltic waterway

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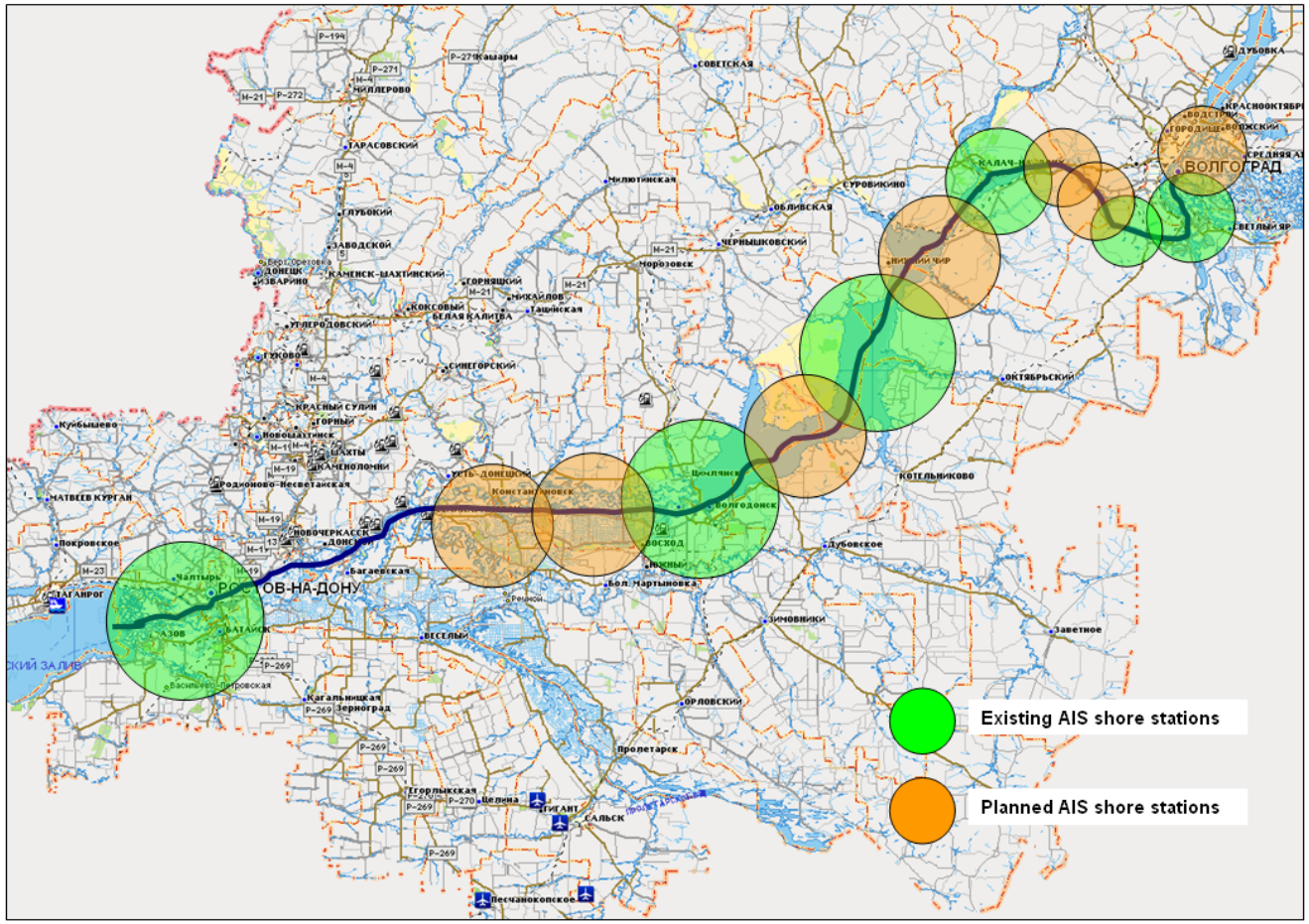
shore-based AIS



Prospective AIS shore stations (planned for 2009)

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locks, ports

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Continuous work is undertaking for reconstruction and reinforcement of hydraulic constructions. Some of them are more than 75 years old.

128 large river ports are operating on Russian inland waterways. Many of them are needed to be reequipped with modern shipment facilities. This activity is also in the agenda.

equipping

Taking into account severe climate and hydrological conditions as well as fast development of cargo and pleasure crafts, Russian Inland Authorities undertake efforts to equip river transport with modern conventional onboard installations such as AIS, Inland ECDIS, radars, GNSS receivers etc.

Federal Target Program on development of GLONASS and its functional applications was adopted by the Government in 2001.

The Government's Decree No 641 on provision all transport facilities and systems with GLONASS or GLONAS/GPS equipment was put into power on 25. 08.2008.

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THANK YOU FOR ATTENTION

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