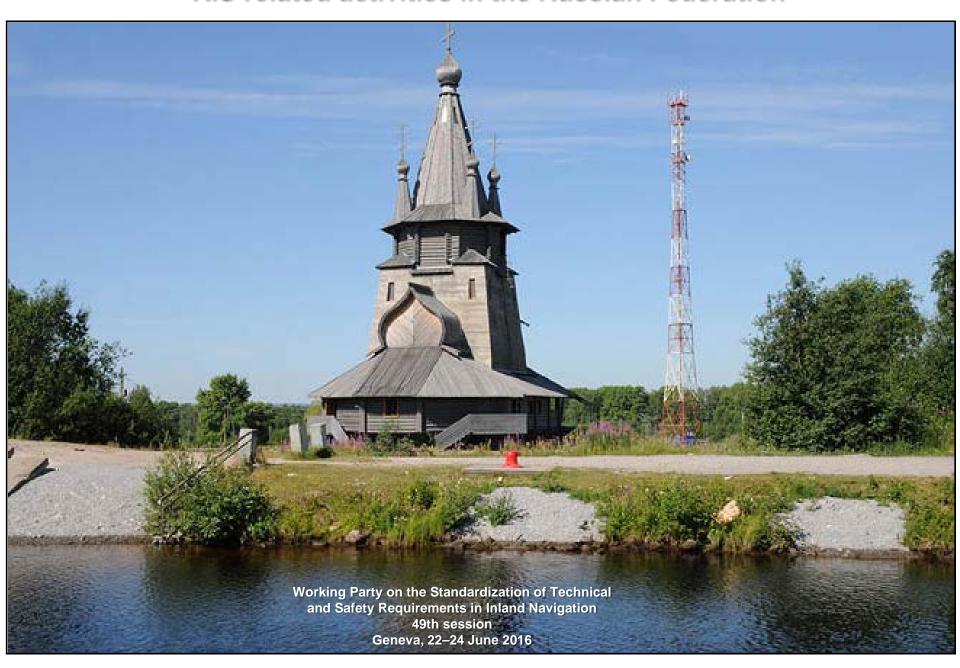
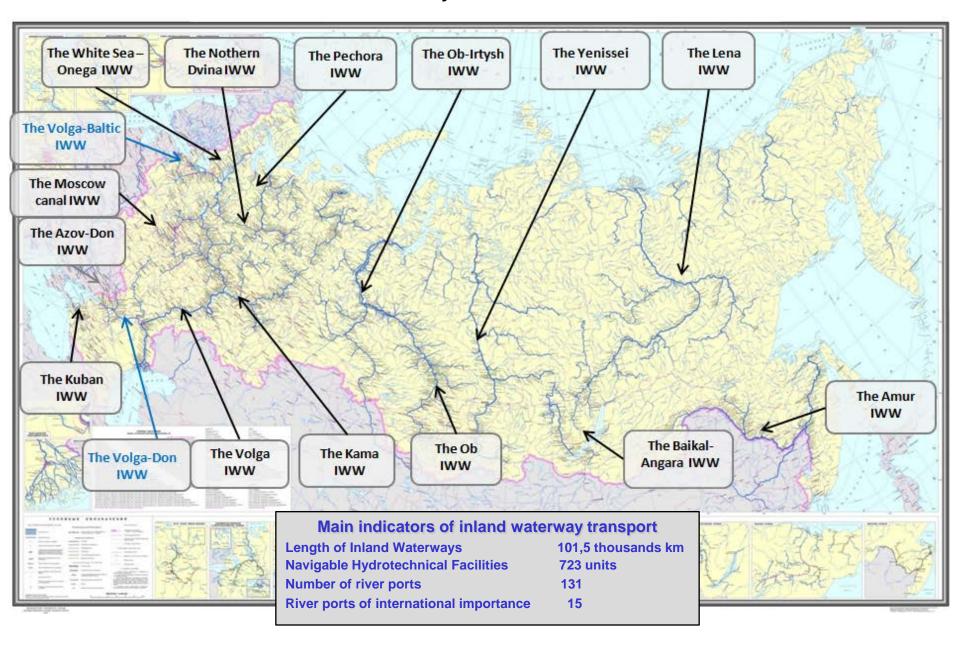
RIS related activities in the Russian Federation

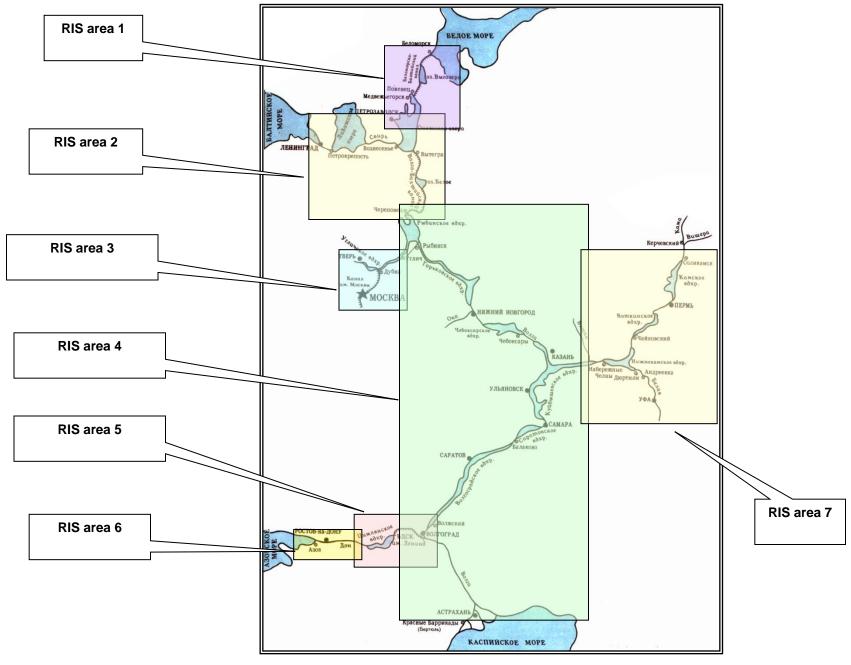


INLAND WATERWAYS OF THE RUSSIAN FEDERATION 16 inland waterway district Administrations



RIS as Strategic Concepts

- 1. RIS concept itself as well as attendant terminology for the services and applications have not been approved by the Ministry of Transport of the Russian Federation. As of today, we do not any RIS related regulations or any RIS implementation plan, similar to the European IRIS
- 2. Nevertheless, Russia supports RIS related UNECE resolutions in the framework of the Working Party on Inland Water Transport (SC.3)
- 3. Estimated 6500 km long, inland waterways network of the European part of Russia is included in the list of inland waterways of international importance ("E" waterways). Evidently, such waterways should be brought to conformity with internationally approved rules and regulations. RIS is a good conceptual framework for such conformity
- 4. Up to 7 RIS areas could be created on the inland waterways of the European part of Russia in future, according to existing executive river basin scheme (see slide 5)
- 5. Mainly traffic related services and supporting technical systems are being implemented by the IWW District Administrations (see slide 6)
- 6. Key RIS technologies Inland ECDIS and Inland AIS are being step-by-step implemented.
 Notices to Skippers and Electronic Ship Reporting are being investigated and tested
- 7. Mainly transport related services, such as *Voyage planning, Transport management*, *Intermodal port and terminal management*, *Cargo and fleet management* are under local study and implementation by Russian major shipping companies and port authorities
- 8. Services such as *Information for law enforcement*, *Statistics, Waterway charges and harbour dues* are provided by IWW District Administrations, in full or in part, but not as a RIS



RIS areas on the European inland waterways of Russia (draft project)

Status of the RIS related UNECE Resolutions in Russia (1)

The services defined in the context of RIS could be considered as mainly traffic related and mainly transport related

Traffic related services are implemented and maintained by the stateoperated and state-funded IWW Administrations.

Therefore implementation process is generally smooth and positive.

Transport related services, as a rule, are implemented by private bodies, such as shipping companies, port and terminal authorities etc. Process depends on good will and desire for funding..

Obviously, nowadays it's hard to reckon on such good will, thus transport related services are not generally implemented in Russia

The services defined as "Information for law enforcement", "Statistics" and "Waterway charges and harbour dues" are implemented and maintained in Russia beyond the framework of RIS concept

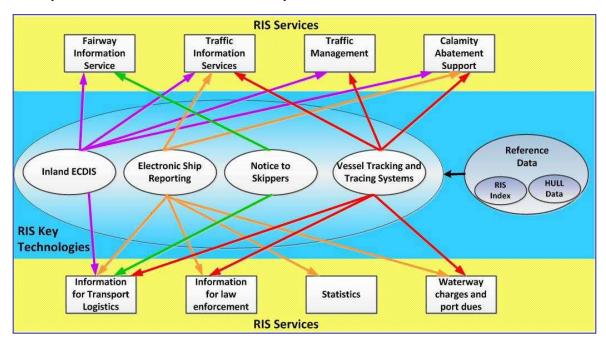
Traffic related services and supporting technical systems are being implemented by the IWW district Administrations, mainly on the European part of Russian IWW

Information Services	Supporting technical systems
Fairway information service (FIS)	Visual Aids to Navigation
	VHF radio / notices to skippers
	Electronic navigational charts
	Internet incl. wireless access onboard
	Mobile phone (voice and data)
	dGNSS for vessel positioning
Traffic information (TI)	VHF radio / ship reporting system / notices to skippers
	Electronic navigational charts
	Shore based radar
	Shore based AIS network
	Shore based CCTV cameras
	Internet incl. wireless access onboard
	dGNSS for vessel positioning
	VHF radio
Traffic management (TM): a) Local traffic management (vessel traffic services - VTS) b) Lock and bridge management (LBM)	Electronic navigational charts
	Shore based radar
	Shore based AIS network
	Shore based CCTV cameras
	Light signals
	dGNSS for vessel positioning

Status of the RIS related UNECE Resolutions in Russia (2)

Resolution No. 57 Guidelines and Recommendations for River Information Services

- ✓ Resolution No.57 could be described as "the implementation guidance".
- ✓ Conclusions and recommendations of Resolution No.57 are used in the stage of project definition and validation, also during the design and construction phases of IWW information and telecommunication systems.
- ✓ The RIS key technologies and the related standards create a background
 of RIS implementation and development.



Status of the RIS related UNECE Resolutions in Russia (3)

Resolution No. 58 Guidelines and Criteria for Vessel Traffic Services on Inland Waterways

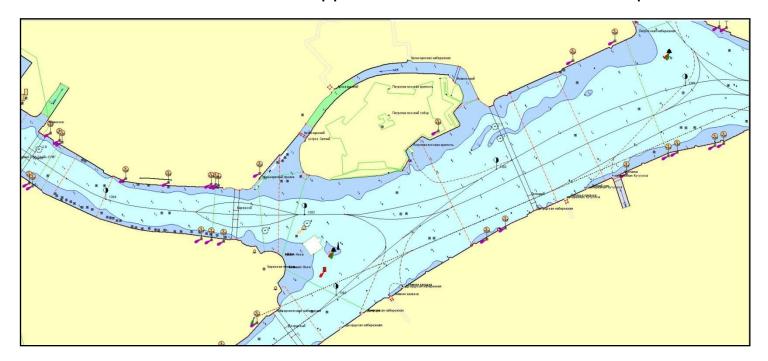
- ✓ All existing inland VTS centres "de facto" operate in accordance with the recommendations of Resolution No.58
- ✓ Generally an information service and a traffic organization service are rendered by a VTS
- ✓ Traffic organization service is especially important and needed in the river-sea navigation areas



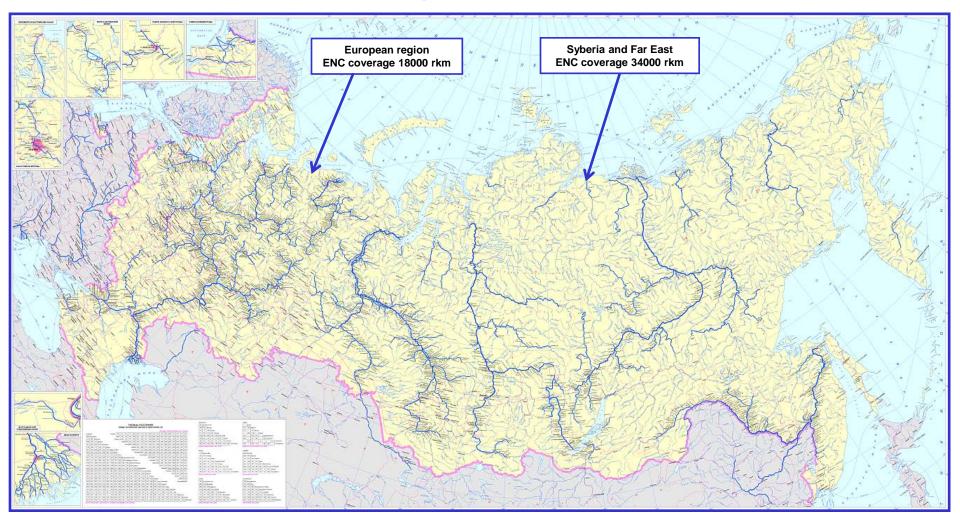
Status of the RIS related UNECE Resolutions in Russia (4)

Resolution No. 48 Recommendation on Electronic Chart Display and Information System for Inland Navigation (Inland ECDIS)

- ✓ National IENCs are available for approx.18000 rkm of the European part of Russian waterways and for approx. 34000 rkm of Siberian and Far East rivers.
- ✓ All IENCs are produced according to S-57 ed. 3.1 Standard and national Regulation Documents for IENCs
- ✓ Inland ECDIS Standard is not approved and is not used for ENC production



ENC coverage to the end of 2015



National IENCs are available for approx.18000 rkm of the European part of Russian waterways and for approx. 34000 rkm of Siberian and Far East rivers. All IENCs are produced according to S-57 ed. 3.1 Standard and national Regulation Documents for IENCs

Status of the RIS related UNECE Resolutions in Russia (5)

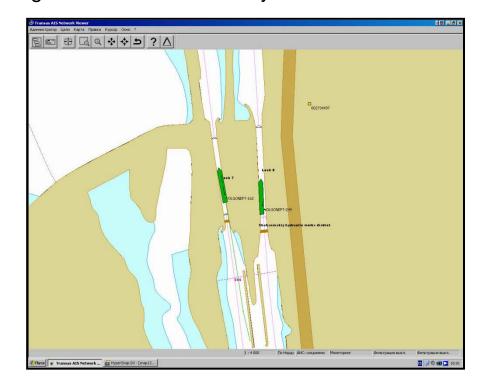
Resolution No. 63 International Standard for Tracking and Tracing on Inland Waterways (VTT)

✓ Almost all Russian inland waterways of international importance ("E" waterways) are covered by AIS shore-based network.

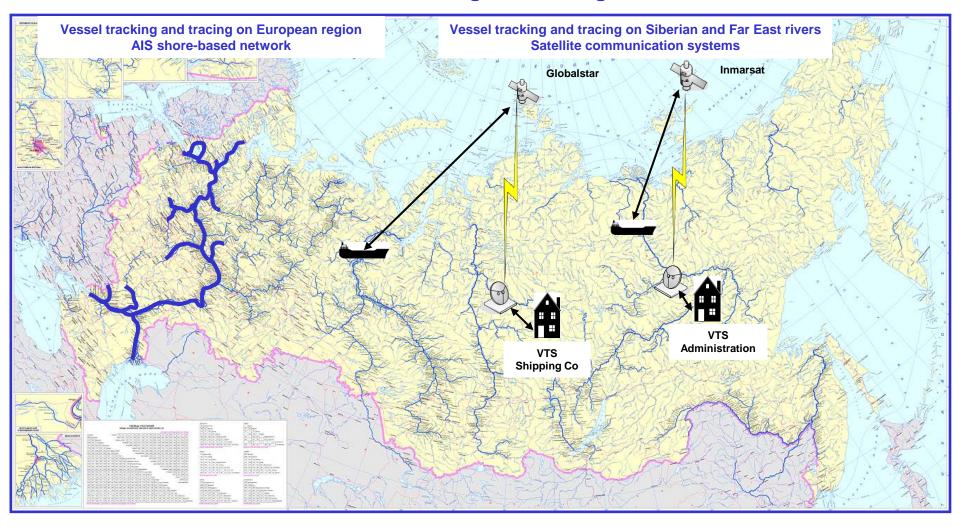
✓ All ships more than 300 gt, all passengers ships and tankers must be equipped with AIS Class A or B (CS,SO) complied with Recommendation ITU-R M.1371.

✓ Inland AIS Standard in general is not mandatory for Russian vessels (but is not

forbidden)



Vessel Tracking and Tracing



Almost all Russian inland waterways of international importance ("E" waterways) are covered by AIS shore-based network. All ships more than 300 gt, all passengers ships and tankers must be equiped with AIS Class A or B complied with ITU-R M.1371. Inland AIS Standard generally is not approved for Russian ships (but is not forbidden)

Status of the RIS related UNECE Resolutions in Russia (6)

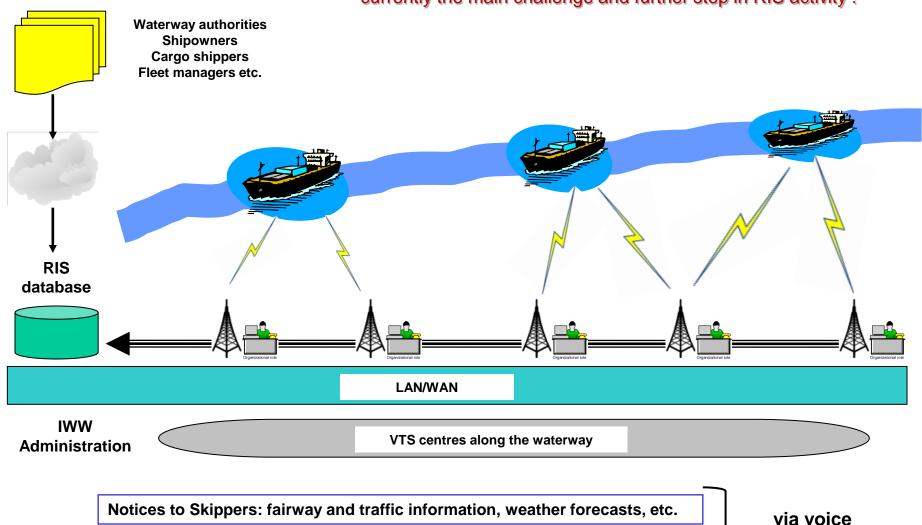
Resolution No. 79
International Standard for Electronic Ship Reporting in Inland Navigation Resolution No. 80
International Standard for Notices to Skippers in Inland Navigation

- √ Provisions and recommendations of both resolutions have not currently been employed and are not in use in Russia
- √R&D and preparatory work for future implementation is in progress
- ✓ Certain IWW Administrations have created website with fairway and traffic information, weather forecasts, other attendant information. Onboard wireless access to the database is also available

The implementation of International Standards for Notices to Skippers and Electronic Ship Reporting in inland navigation is currently the main challenge and further step in RIS activity and development

The implementation of International Standards for Notices to Skippers and Electronic Ship Reporting in inland navigation is currently the main challenge and further step in RIS activity!

UHF radio



Ship reporting: strategic traffic information (to be downloaded to database)

Thank you for your kind attention!



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