



The most important current trends of railways and transport development in Russia

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JSC Russian Railways profile

Strategic player on the Russian and international transport market

- **43%** of freight turnover in the Russian transport system (more than **85%** if pipeline are excluded) and **31.5%** passenger turnover
- **79%** of freight turnover and **66%** passenger turnover in the CIS transport system

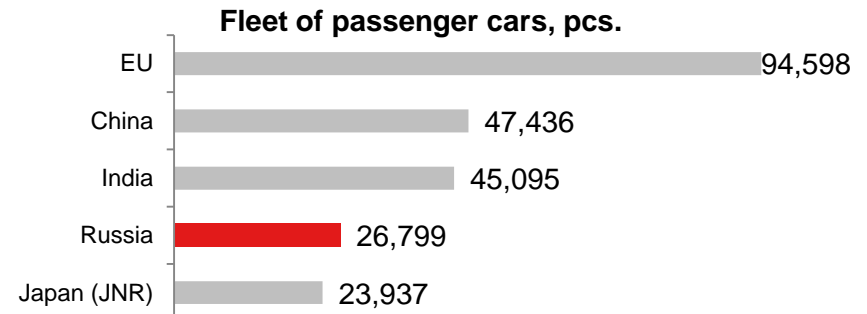
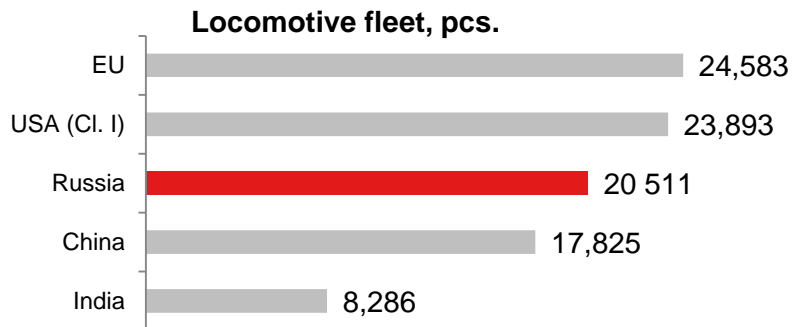
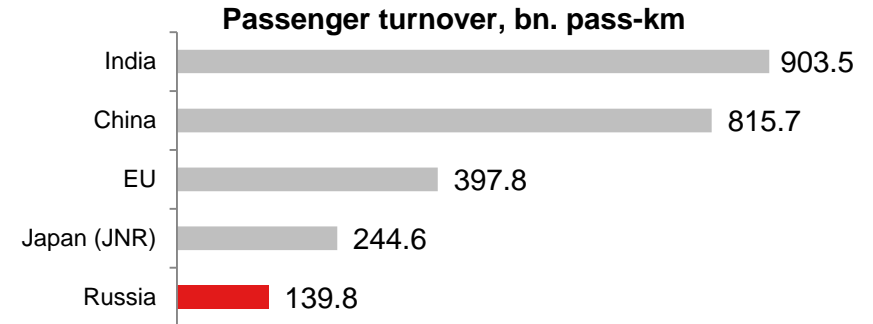
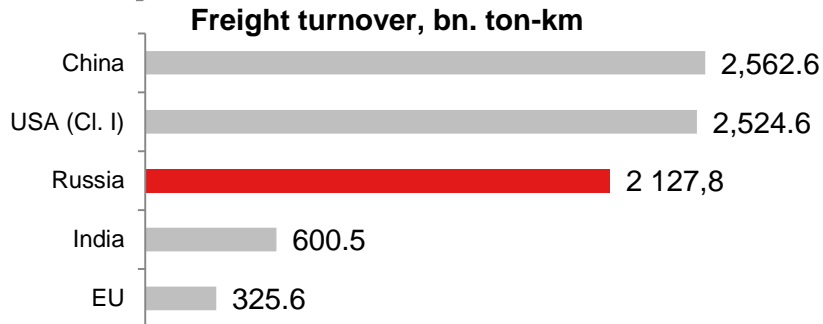
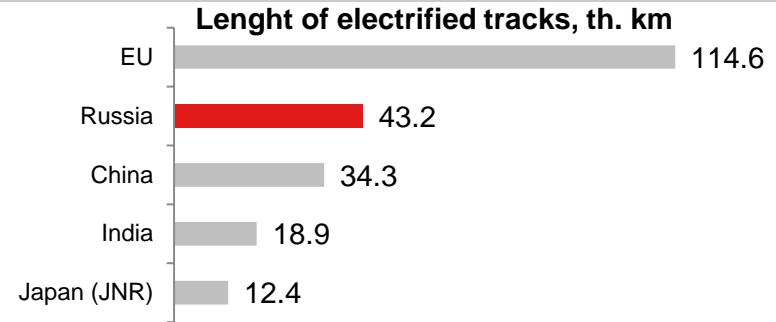
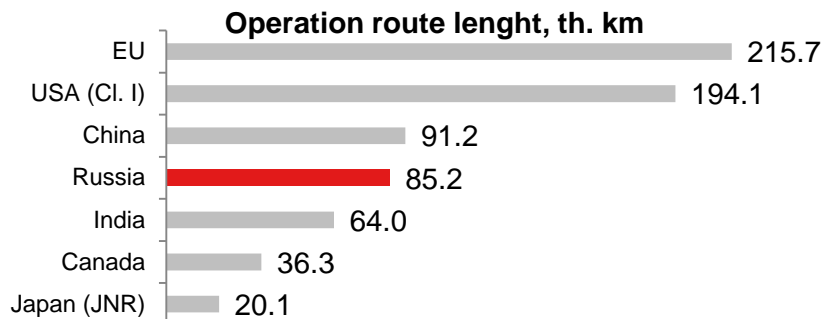
One of the largest railway companies in the world

- **85,200 km** of railway track
- About **1 million employees**
- Affiliated companies and research institutes have significant research capacity
- JSC Russian Railways is among the three largest global railway companies

Stable financial position

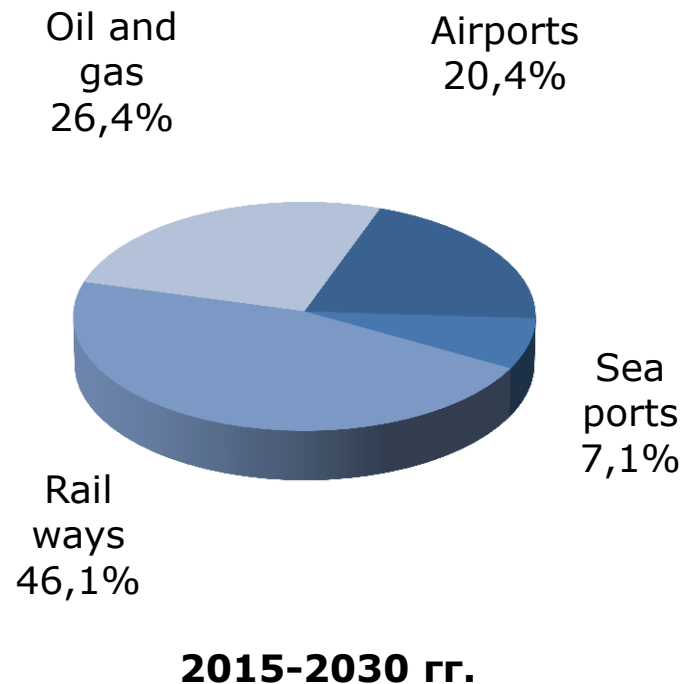
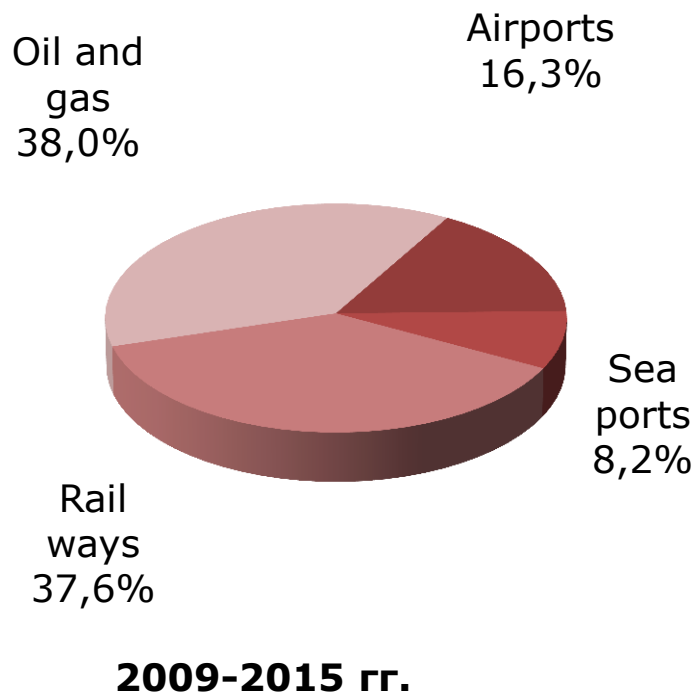
- Authorized capital of **41.6 billion Euros**
- Profitable performance despite the global economic crisis
- Agencies rate JSC Rzd as outlook stable: Moody's (Baa1), Standard & Poor's (BBB), Fitch (BBB)

Position of Russian Railways among the leading global railway systems (as of 2011)



The Russian Railways takes the leading position along with railway main lines of China and USA in terms of traffic volumes and track length and is integrated into the 1,520 mm gauge railway network

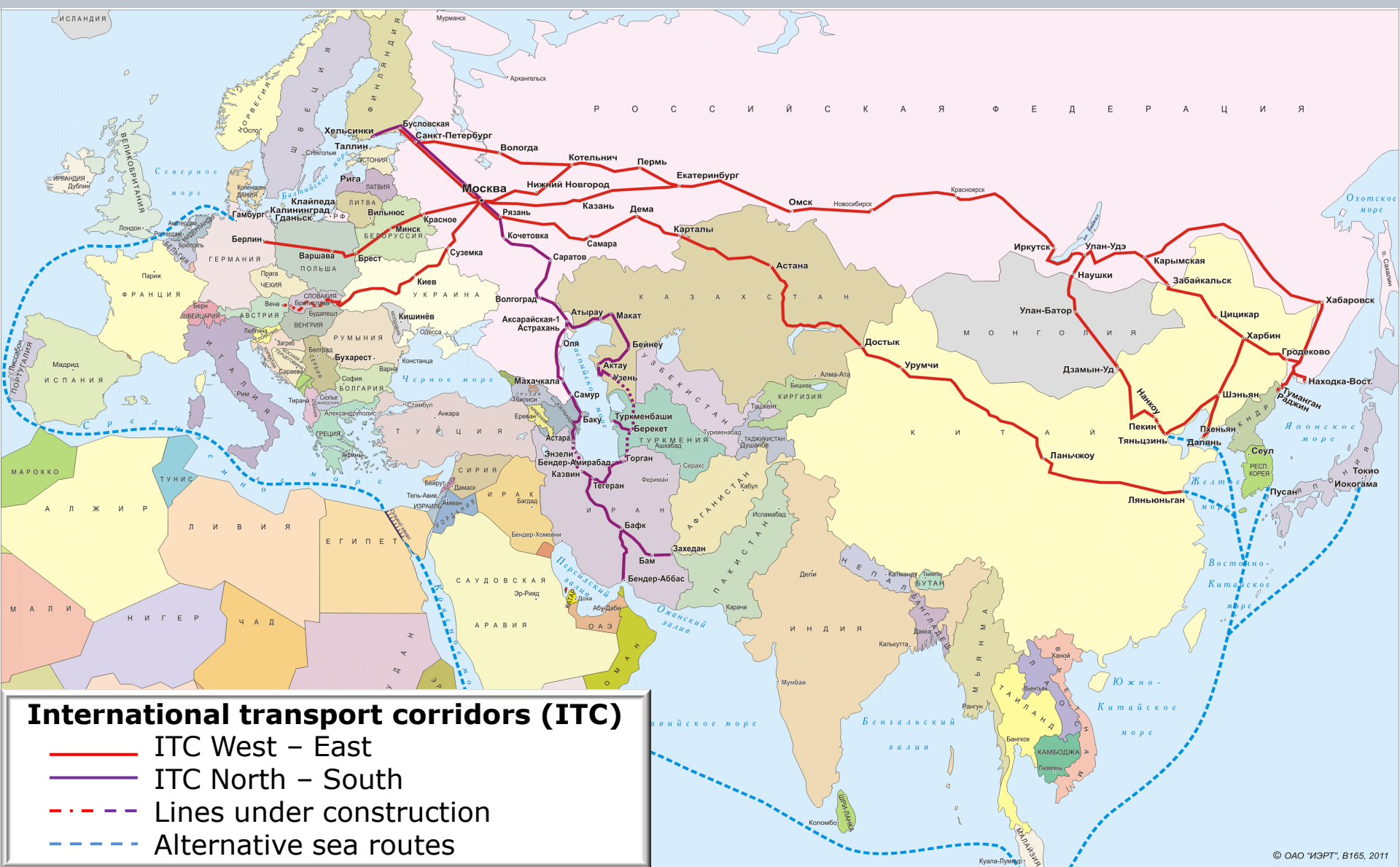
Structure of the world investment needs in transport infrastructure, %*



* Source: OECD

Railways are recognized the investment priority type of transport infrastructure in the world

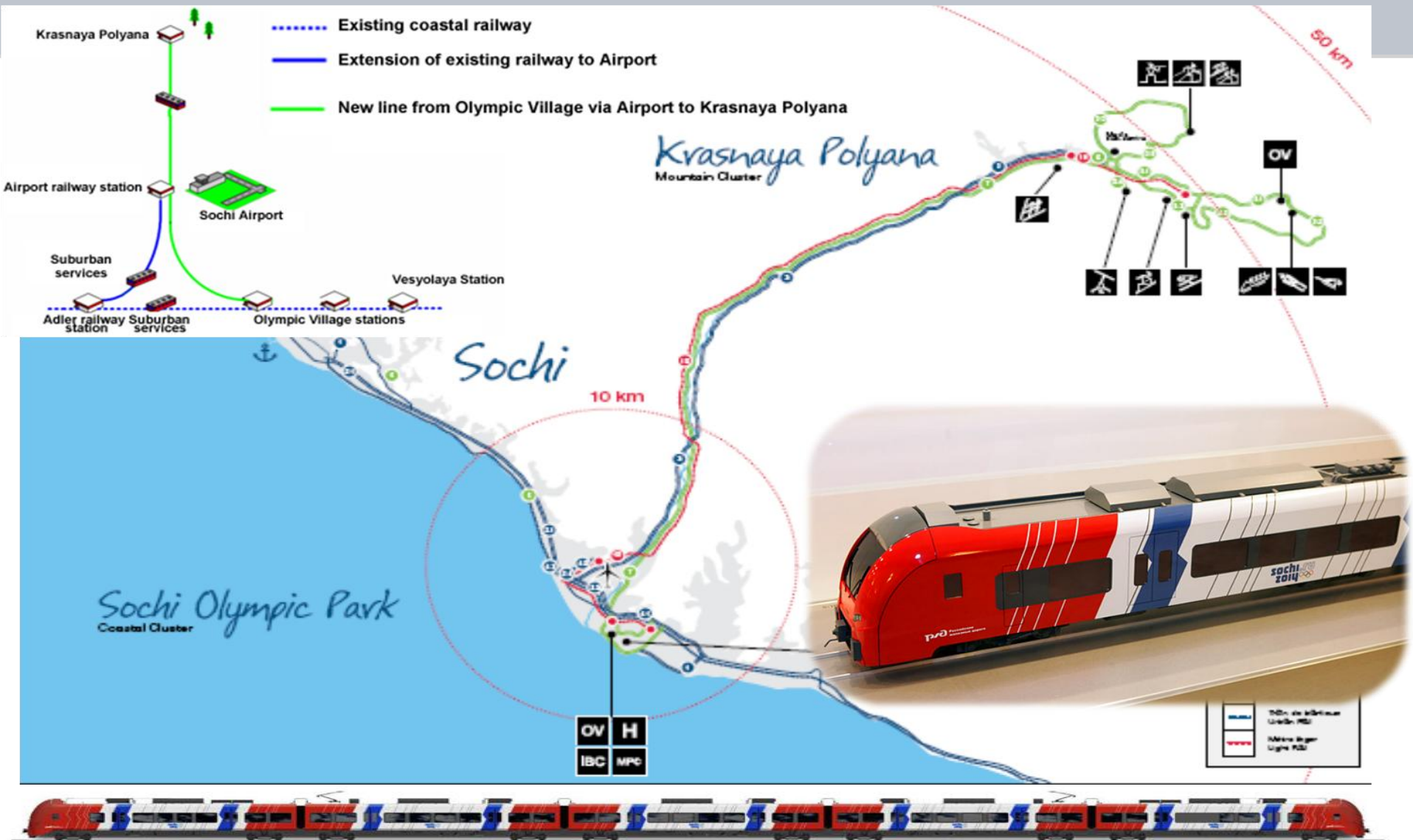
East-West and North-South international transport corridors



International transport corridors (ITC)

- ITC West – East
- ITC North – South
- - - Lines under construction
- - - Alternative sea routes

The plan for transport at the Sochi-2014 Winter Olympic games



High-speed passenger traffic

16th March 2010
Dmitry Medvedev,
President of the
Russian
Federation,
signed
**Decree "On
measures to
organise a high-
speed rail
transport
service in the
Russian
Federation"**




High-speed international passenger traffic

— - existing high-speed traffic testing ground (250 km/h)

— - potential testing ground for arrangement of high-speed passenger traffic (140 km/h)





— - potential testing ground for arrangement of high-speed passenger traffic (160-200 km/h)

 - arrangement of intermodal passenger traffic in airport-to-city connections

L - length
 V - potential maximum speed
 T - potential travel time
 N - potential amount of traffic

-  - Sapsan train
-  - Tverskoi carriage plant
-  - Talgo carriage
-  - Allegro train

National population density:

-  - above 200 people/km²
-  - 100 - 200 people/km²
-  - 50 - 100 people/km²
-  - below 50 people/km²



Saint Petersburg – Helsinki
 L = 415 km
 V = 200 km/h
 T = 3 h 30 min
 N - 4 pairs

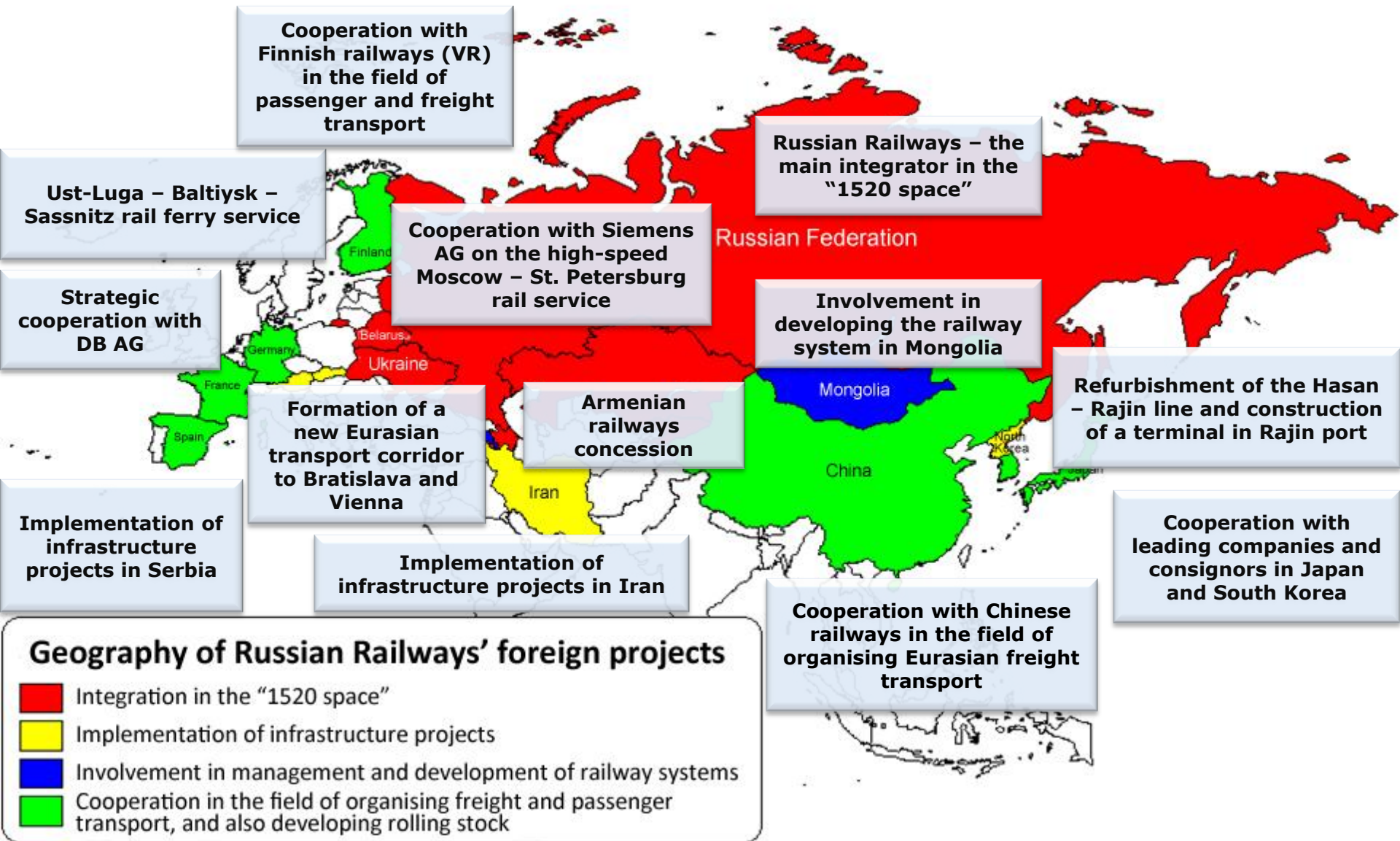
Saint Petersburg – Tallinn
 L = 380 km
 V = 140 km/h
 T = 6 h 30 min
 N - 1 pair

Moscow - Riga
 L = 922 km
 V = 140 km/h
 T = 11 h 30 min
 N - 2 pairs

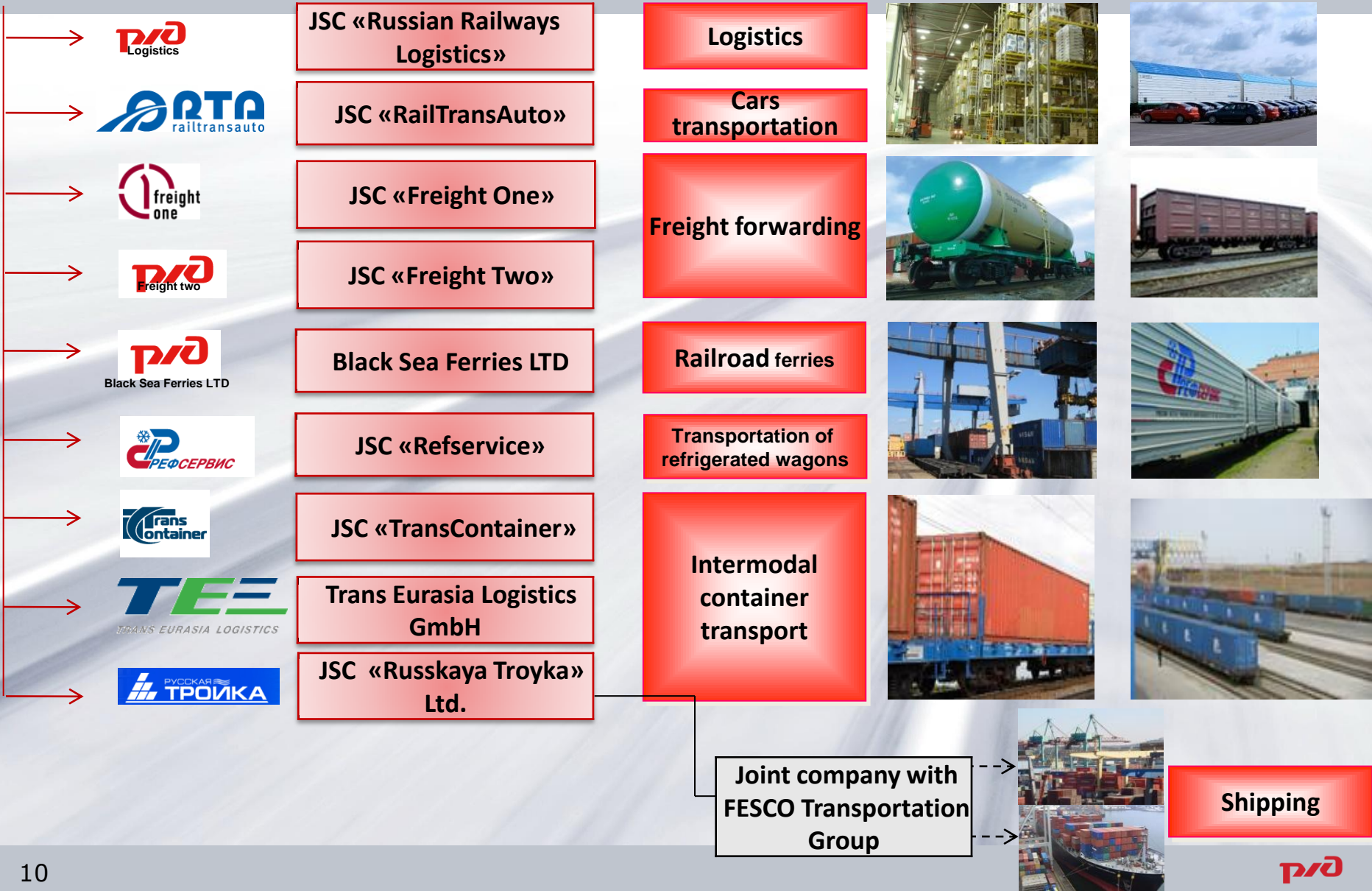
Moscow - Berlin
 L = 1898 km
 V = 160 km/h
 T = 18 h 00 min
 N - 5 pairs

Moscow - Kiev
 L = 856 km
 V = 160 km/h
 T = 6 h 30 min
 N - 3 pairs

Russian Railways' international projects



Freight business of Russian Railways group



Russian Railways' group logistics projects

✓ Strengthening cooperation between Russian Railways and the Ministry of Railways of China in the field of transportation of goods, including container transit from China to Europe and back. In 2011 was started a new container train Chongqing (China) - Duisburg (Germany)



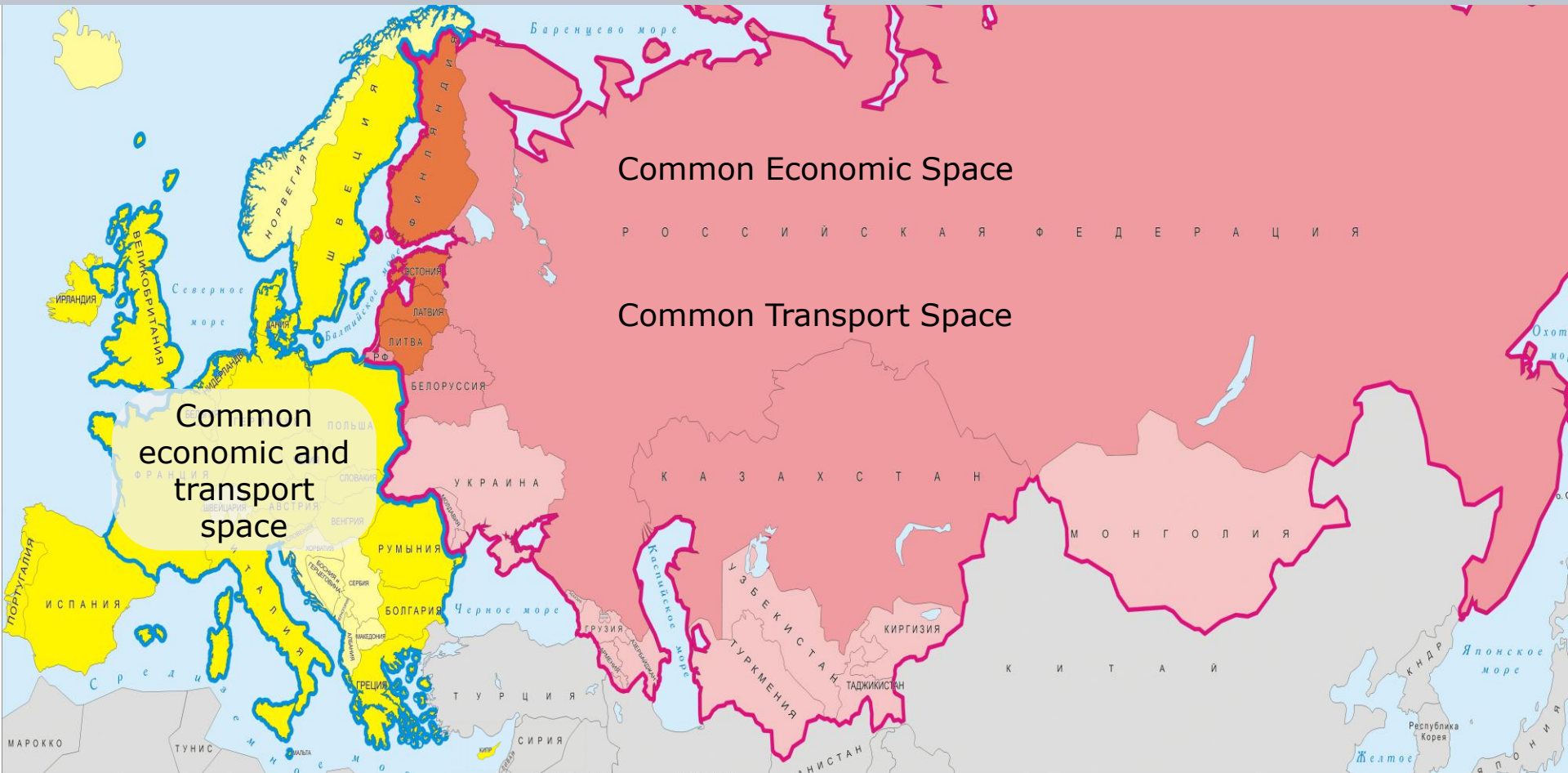
✓ Rail ferry connection Sassnitz - Baltiisk and Sassnitz – Ust-Luga






✓ On the base of subsidiary of the group of companies «Black Sea Ferries» (BSF) preparing a project of rail-ferry service on the Black and Baltic Seas

✓ JSC «Russian Railways» and «Deutsche Bahn AG» continue cooperation on creating a terminal and logistics center «White Rust» (Moscow Region)

Developing of logistics and intermodal transportation service - one of the key areas of Russian Railways group activity

Integration of the railway systems of 1520 mm and 1435 mm



-  -Borders of the 1520 mm Domain
-  - Borders of the European 1435 mm Domain
-  -Member states of the Common Economic Space
-  -Member states of the European Union
-  -States of the 1520 Domain – members of the European Union

Interaction of JSC Russian Railways with international organisations



Working group on automobile and railway transport within the framework of transport dialogue Russia – EU



Contact group within the **Organisation for Co-operation between Railways (OSJD)** and **European Railway Agency (ERA)**



The International Union of Railways (development of international transport corridors and making of standards of quality and certification)



Participation in the activities of the **ITC UNECE** (working group on railway transport, intermodal transportations and logistics, transportation of dangerous goods, customs issues)

Official representative of the Russian Federation in the UNECE project of the **Trans-European Railway network (TER)**



Participation in the development of Intergovernmental agreement on the Trans-Asian Railway network within the framework of the **UN Economic and Social Commission for Asia and Pacific (ESCAP)**

Formation of a new Eurasian transport corridor to Bratislava and Vienna

States, which are economically tending towards the project: **Germany, Switzerland, Austria, Slovenia, Czech Republic, Hungary, Slovakia, Serbia, Croatia, Italy**



- Creation of a competitive direct railway link between the countries of Europe, Russia and the Asia-Pacific region
- Elimination of the need to reload the goods at the jointing stations of the railway gauges in Europe with the gauge widths 1520/1435 mm
- Reduction of the cost and time frame of transportation, as well as of the transport component in the final price of the transported goods

International scientific and technical cooperation of JSC Russian railways with foreign partners

Passenger locomotive with an asynchronous traction drive



ALSTOM

Производитель



ТРАНСМАШХОЛДИНГ

Freight locomotive with an asynchronous traction drive



SIEMENS

Производитель

СТМ

СИНАРА ТРАНСПОРТНЫЕ МАШИНЫ

New generation freight car (boxcar)



TATRAVAGÓNKA
POPRAD

Производитель



ТРАНСМАШХОЛДИНГ

Systems of railway automation and telemechanics



BOMBARDIER

Производитель
Совместное предприятие

ЭЛТ ЗА

Объединенные электротехнические заводы

Systems of train traffic safety management and provision of security ITARUS-ATC



FINMECCANICA

Производитель



Passenger trains with an automatic width adjustment to the railway gauge



Talgo

Федеральная пассажирская компания



Thank you for attention!