







GENNADY BESSONOV

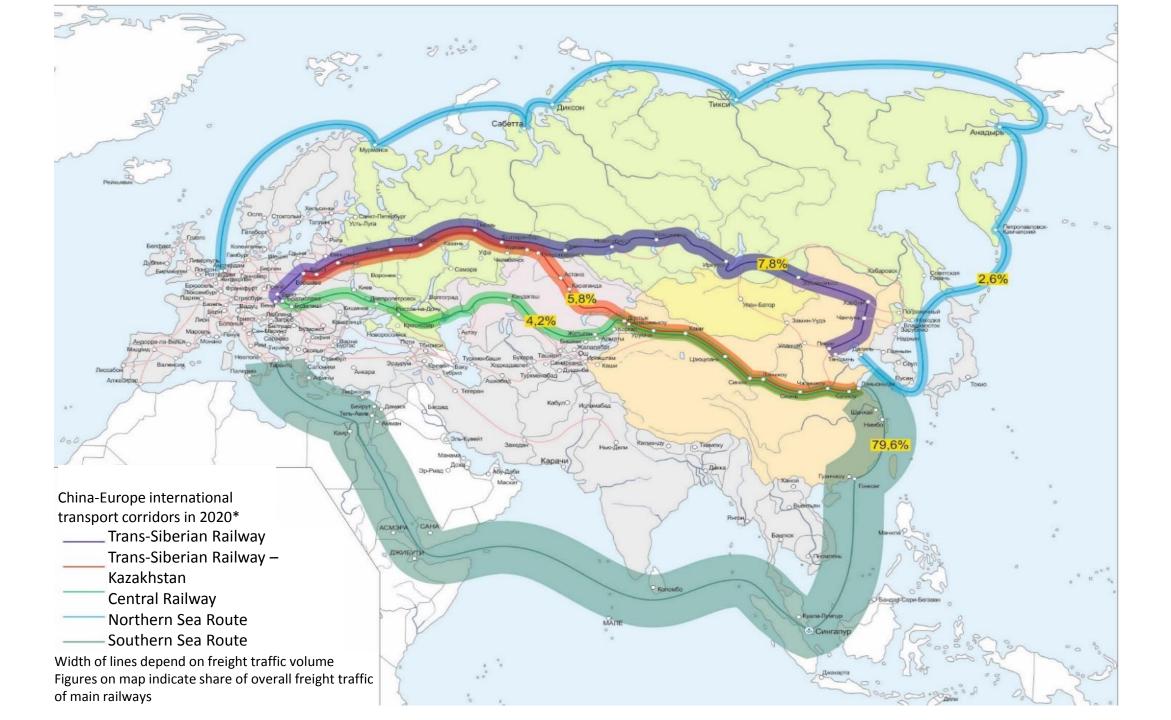
TER Project Manager

Trans-Siberian Infrastructure's Resilience

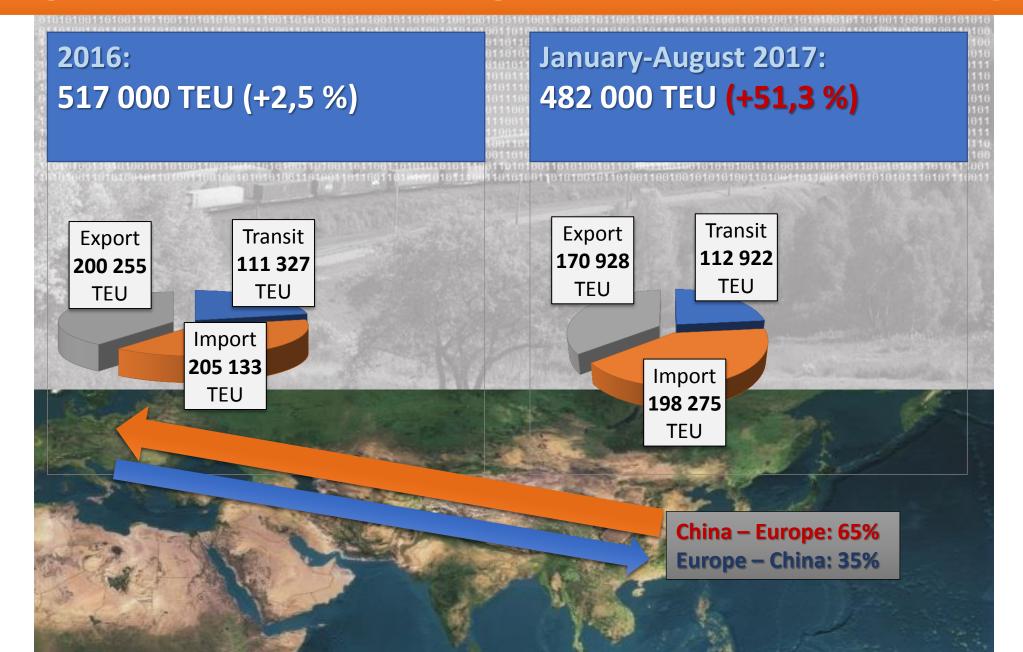
UNECE and EUSDR PA1b WORKSHOP

How to develop resilient infrastructure (Global SDG 9)

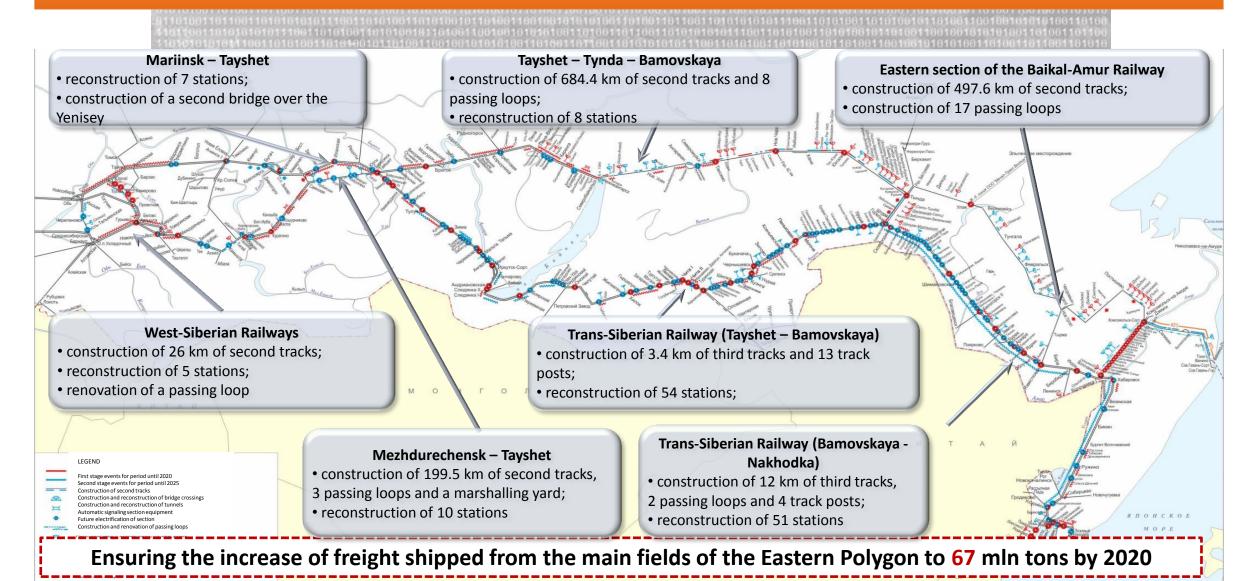
Thursday and Friday, 16-17 November 2017 Ljubljana, Slovenia

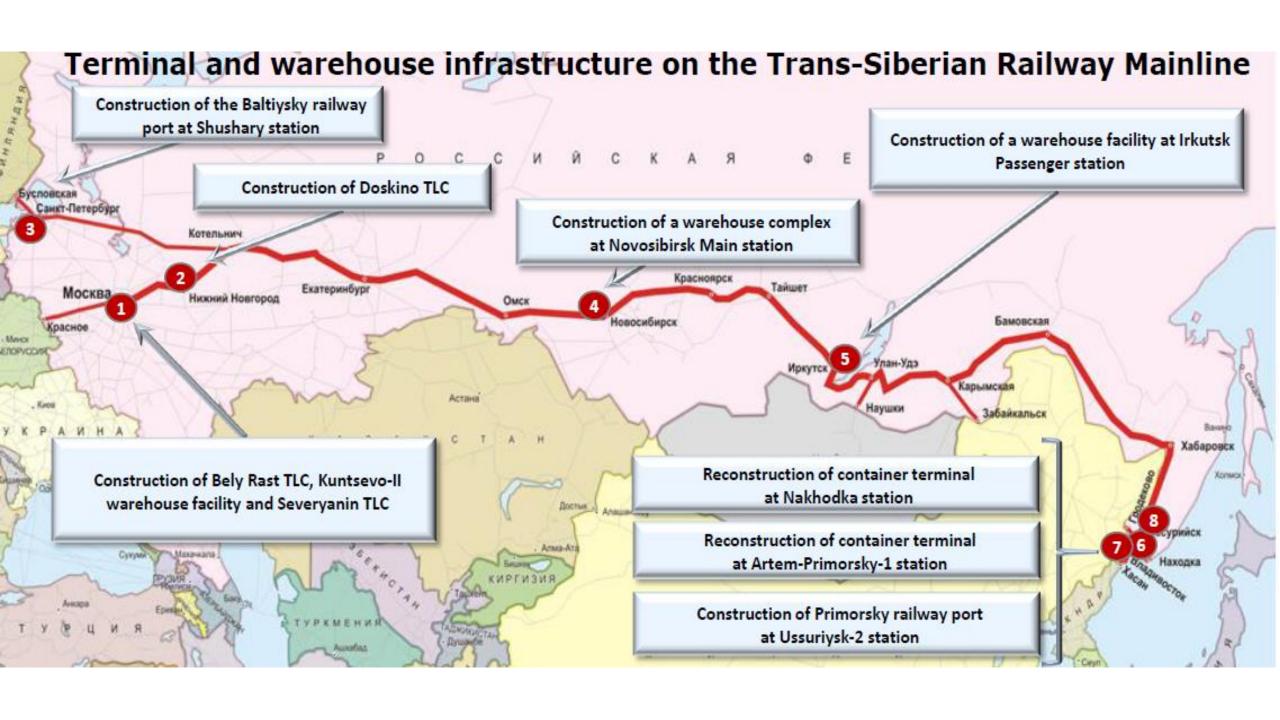


Freight volumes carried along the Trans-Siberian Railway

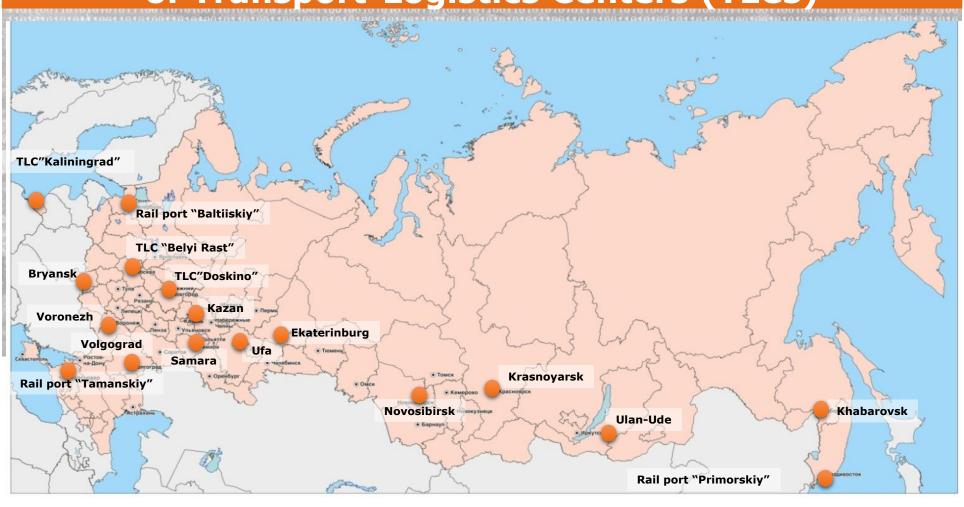


Development of Trans-Siberian and Baikal-Amur Mainlines

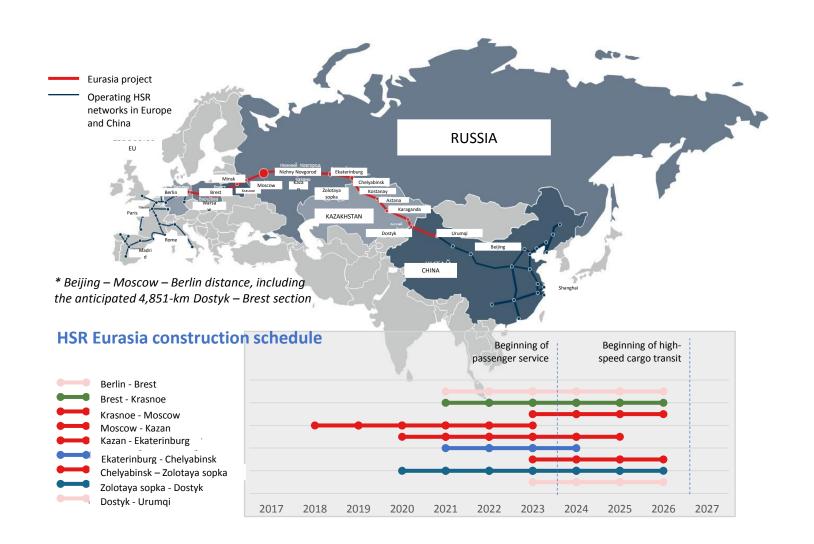




Establishing Integrated Network of Transport-Logistics Centers (TLCs)

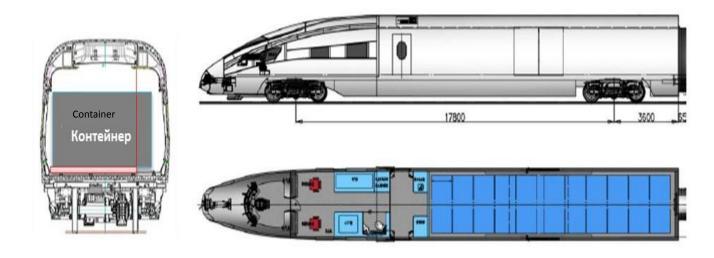


High-Speed Freight Transport



High-Speed Freight Transport

High-speed freight rolling stock

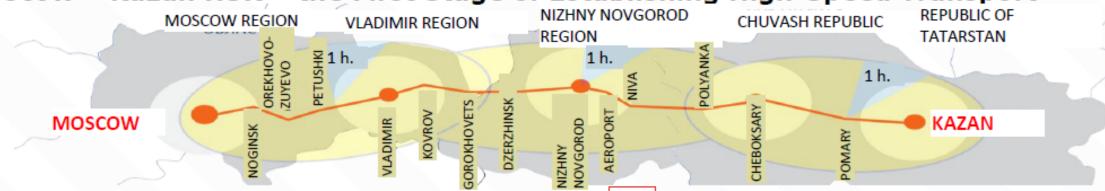


- ✓ Cargo allocation in special containers at freight hubs
- ✓ Convenient and efficient loading and unloading
- **✓** High-speed train:
- 16 wagons
- Speeds of up to 300 km/h
- Payload of up to 600 tons

Moscow - Kazan - Yekaterinburg High-Speed Railway with Extension to Beijing



Moscow - Kazan HSR - the First Stage of Establishing High-Speed Transport



1 PROJECT DESCRIPTION

Promoting the mobilization of the workforce, creating prerequisites to stabilize demographic trends, increasing the mobility of the population and creating new jobs

The project is to be implemented using the Public-Private Partnership mechanism in the form of a private concession initiative.

Total investment (in the prices of the corresponding years)	RUB 1.289 trn
Concession period	40 years
Construction period	2017 - 2022
Project efficiency indicators (in the prices of the corresponding y	ears)
Subsidy repayment/debt obligation servicing (2022-2037)	RUB 789.4 bln
Net present value	RUB 226.5 bln
Discounted payback period	32.5 years
Budget efficiency (first 12 years of operation in 2016 prices)	
Total GRP growth	RUB 7.1 trn
Consolidated budget revenue growth	RUB 2.3 trn

2 FINANCING STRUCTURE

Source	Amount
Equity capital	254.0
Loans from the Development Bank of China	400.0
NPF funds	90.0
Infrastructure bonds	140.0
Loans from development banks	100.0
Commercial loans	304.9
Total	1,288.9

CURRENT STATUS

- The project is being implemented in accordance with the network schedule of events approved by Decree No. 5-r of the Russian Government dated January 13th, 2016
- At present, design is under way, matters concerning the construction of rolling stock are being resolved and work to raise financing is in progress

Innovative Rolling Stock

Growth of network carrying capacity 8-15%

Reduction of the locomotive traction costs

Reduction of the impact on the track

Reduction of the wagon maintenance costs







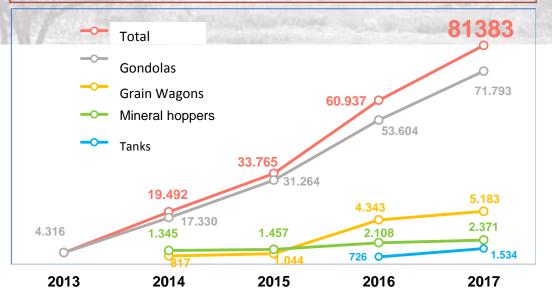


Overall dimensions of wagons 1-BM Unhindered loading and unloading throughout the network

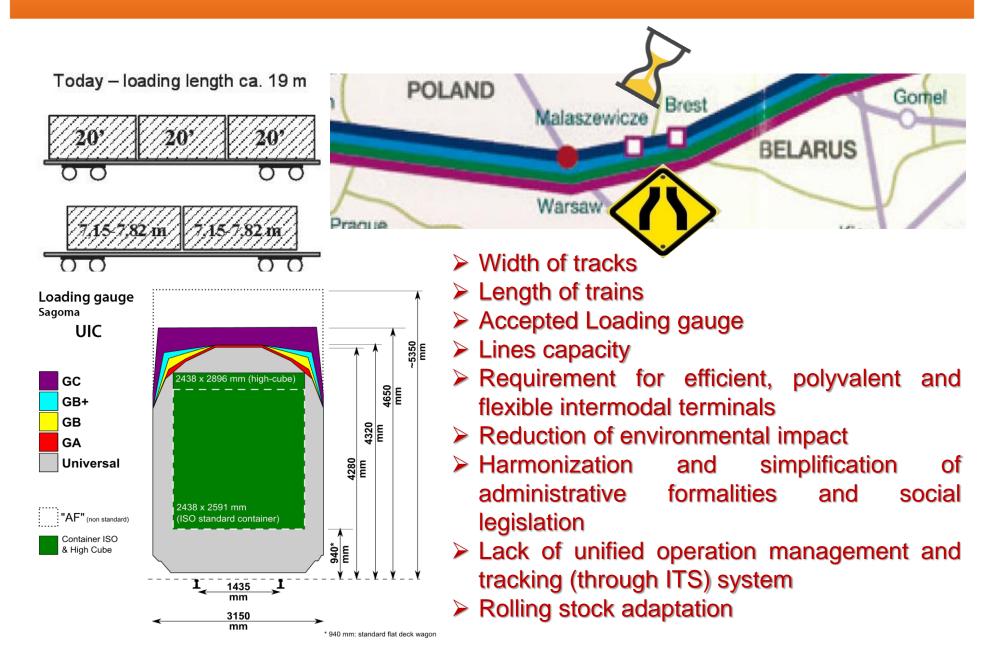




Innovative park growth rates on the network of the JSC "Russian Railways"



Challenges in Trans-Eurasian Rail Network



Eurasian Transportations via Trans-Siberian Mainline











Thank you for your attention!