



Russian Railways

# PRO FUTURE OF THE WORLD TRANSPORTATION SYSTEM:

## GLOBAL TRENDS

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CEO, Chairman of the Executive Board

Sochi | October 2<sup>nd</sup>, 2018



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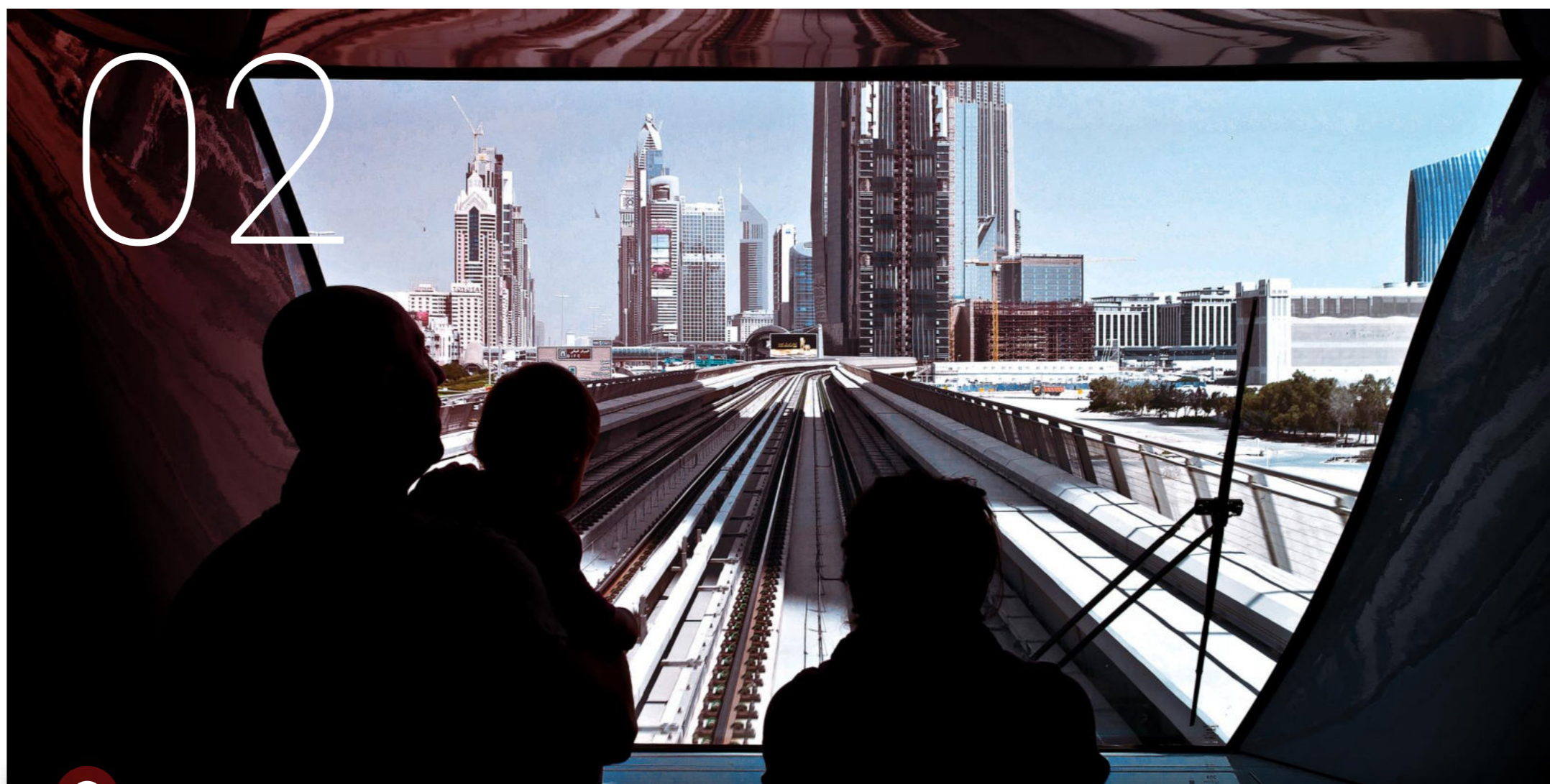


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OF THE WORLD  
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> RAILWAYS – 2050



DEVELOPMENT OF  
“WHEEL-RAIL” SYSTEM’S POTENTIAL



IMPLEMENTATION OF UNMANNED  
TECHNOLOGIES



IMPROVEMENT OF PROPULSION  
TECHNOLOGIES



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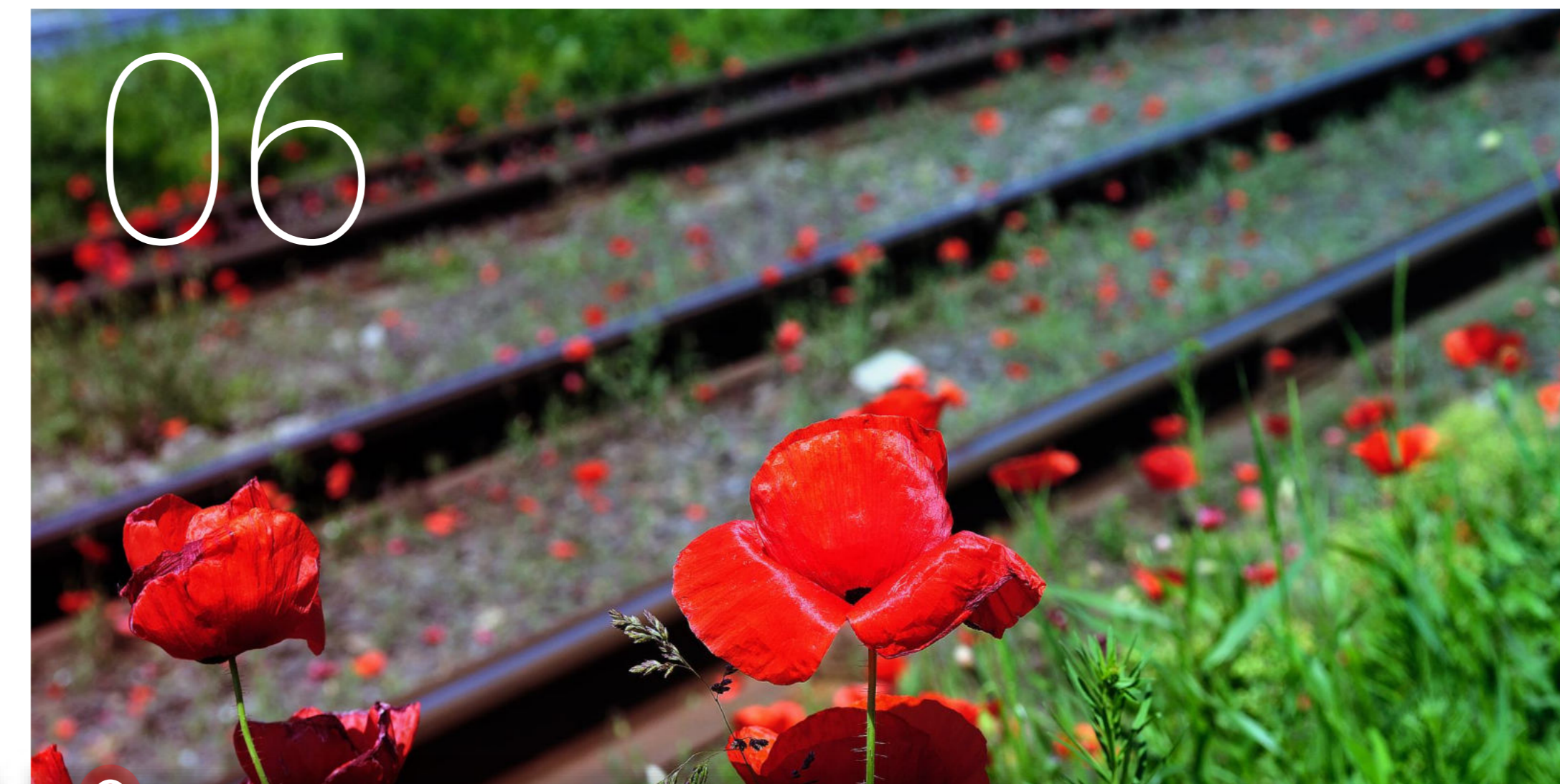
> RAILWAYS – 2050



DIGITALIZATION



MANUAL LABOR SUBSTITUTION



GREEN TRANSPORT



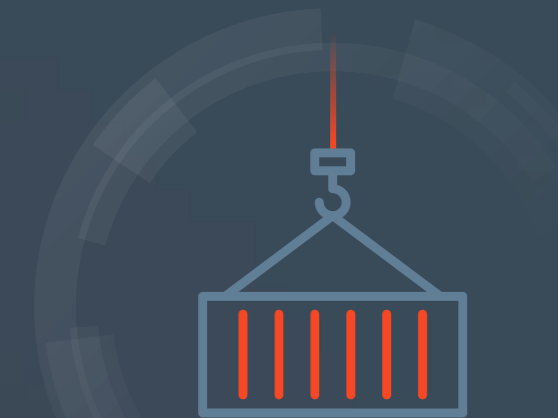
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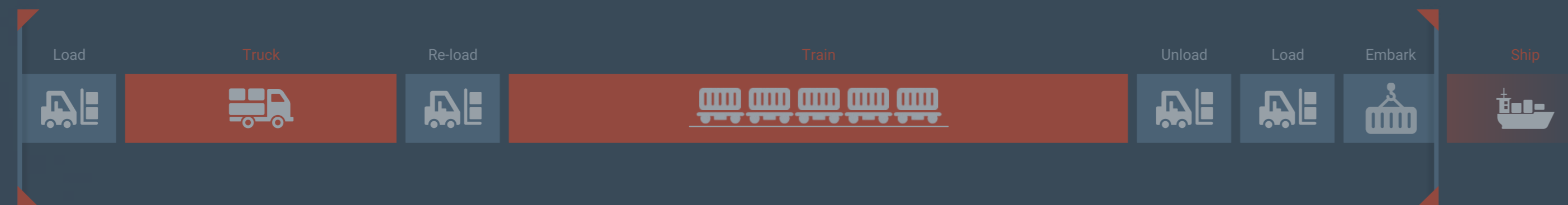
> FUTURE OF RAILWAY BUSINESS



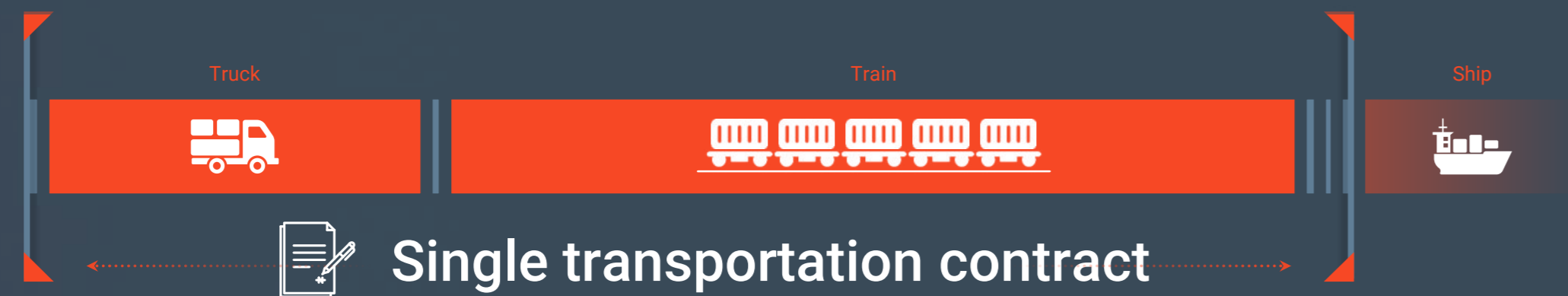
Freight transportation and logistics:

**DEEP INTEGRATION**

2018



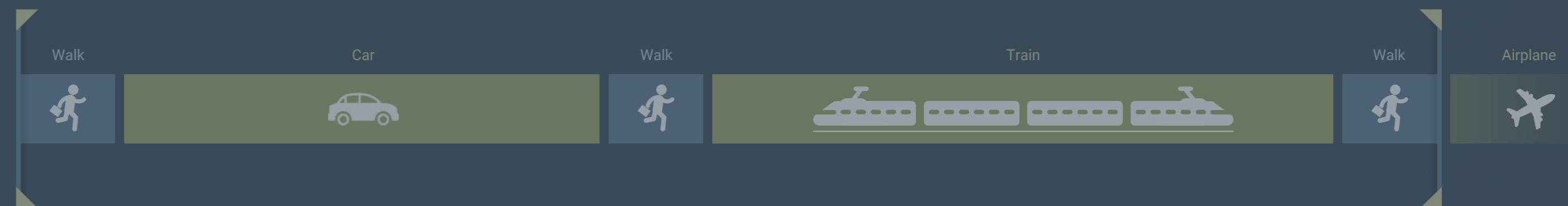
2050



Passenger transportation:

**SEAMLESS INTERMODALITY**

2018



2050



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## > DEVELOPMENT OF RAILWAY INFRASTRUCTURE

01 Presidential Address to the Federal Assembly  
(March 1<sup>st</sup>, 2018)

02 Presidential Decree №204 on national objectives and strategic tasks of Russian  
Federation's development until 2024 (May 7<sup>th</sup>, 2018)



Up to **180** million tons

Increase of capacity of Baikal-Amur Mainline and Trans-Siberian Railway by 2024



**x4**

Growth of transit container traffic



**7** days

Reduced time of shipment from the Far East to the Western Border of the Russian Federation



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## > HIGH-SPEED RAIL NETWORK DEVELOPMENT

### MAIN ROUTE OF PROJECTED HIGH-SPEED RAILWAY LINE "EURASIA"



-  Alternative route through Altai
-  Alternative route through Mongolia
-  Alternative route including Sakhalin
-  Functioning high-speed networks in Europe and China
-  Port facilities



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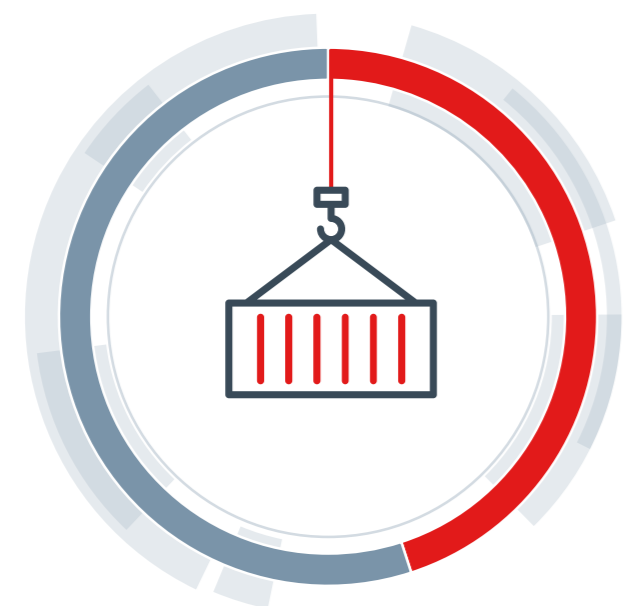
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## > 15 YEARS OF RUSSIAN RAILWAYS: OUTCOMES



> **45%**

of total Russia's  
freight turnover

87%

excluding pipeline  
transport

↗ **80%**

growth of traffic to sea ports  
(over the last 15 years)

↗ **44%**

growth of delivery speed  
(over last 15 years)



> **25%**

of total Russia's  
passenger turnover



> **3%**

of total investment  
in Russia

**1.2%**

of all employed in Russia work for  
JSC "Russian Railways"

**17**

industries are directly affected by  
innovation-driven growth of Russian Railways

State-owned company  
carrying out ambitious  
infrastructure and logistics  
projects

Among the global leaders by  
the key production  
indicators



# PRO FUTURE OF THE WORLD TRANSPORTATION SYSTEM: GLOBAL TRENDS

## > INTERNATIONAL PROJECTS OF RUSSIAN RAILWAYS



### INFRASTRUCTURE CONSTRUCTION PROJECTS

01

#### IRAN

Electrification of railway line Garmsar – Inche Burun  
Electrification of railway line Tabriz-Azarshahr (*completed*)

02

#### SERBIA

Construction and modernization of several lines  
Supply of Russian-built trains

03

#### INDIA

Modernization of railway line Nagpur - Secunderabad

04

#### AUSTRIA, SLOVAKIA, UKRAINE, RUSSIA

Projected construction of the New Eurasian transport corridor

05

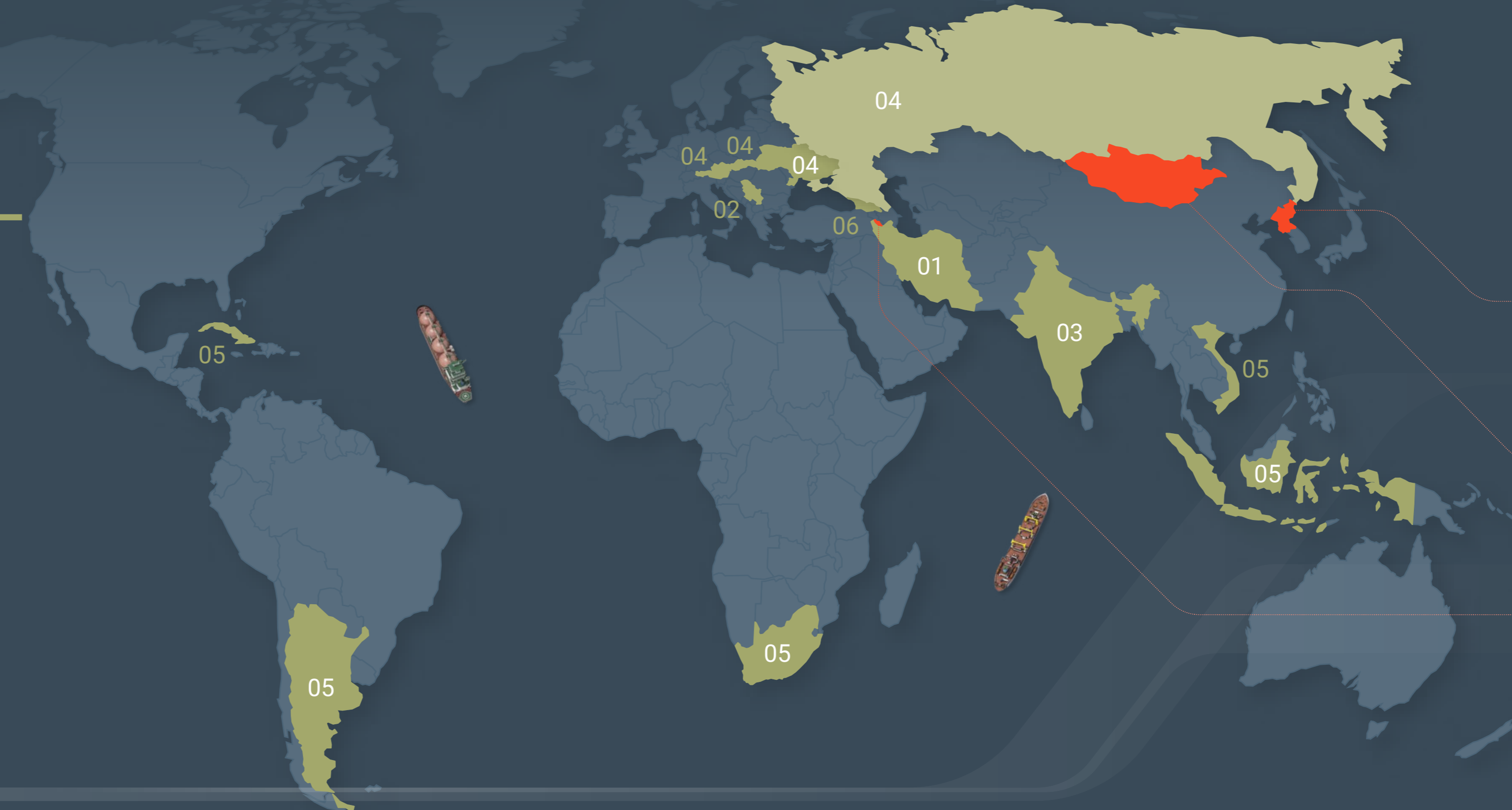
#### VIETNAM, INDONESIA, ARGENTINA, CUBA, SOUTH AFRICA

Potential implementation of joint projects

06

#### ABKHAZIA

Modernization of rail infrastructure (*completed*)



### RAILWAY SYSTEMS MANAGEMENT PROJECTS



#### DPRK

Khasan - Rajin railway line



#### MONGOLIA

Management of Russia-owned equity stake of JSC «Ulaanbaatar Railways»



#### ARMENIA

Concession of Armenian railway network



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# JSC «RUSSIAN RAILWAYS» IS LOOKING FORWARD TO COOPERATION



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