MINISTRY OF TRANSPORT OF THE RUSSIAN FEDERATION

UNITED NATIONS ESCAP
Economic and Social Commission for Asia and the Pacific



High-level Meeting on Deepening Digitalization of International Rail Transport in Asia-Pacific

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2030 TRANSPORT STRATEGY: KEY DIRECTIONS

Adopted in November 2021 by the Government of the Russian Federation

Fundamental document for national transport sector

- Increasing the level of technological development of the transport sector
- Development of digital solutions for customer interaction and information support
- Increasing the level of digital technologies' implementation across the transport infrastructure and vehicles
- Increasing the level of digitalization in transport management systems

2030 TRANSPORT STRATEGY: ACTIONS



Integrated digital transport services (MaaS, FaaS)



Digitalization of cargo flows (e.g. tracking)



Digitalization of vehicles (e.g. driver-assistance systems)



Digitalization of transport infrastructure (e.g. digital twin)



Digitalization of cargo flows (e.g. tracking)

2030 TRANSPORT STRATEGY: IMPACT

Digital planning and management of cargo and passenger flows	Increasing the speed of multimodal transportation **by 4 times**
Introduction of autonomous driving technologies	Increasing the labour productivity **by at least 2 times**
Digital cross-border exchange of information	Decreasing the waiting time at borders crossing points **by 10 times**
Introduction of digital ticketing systems	Decreasing the waiting time of control procedures **by 5 times**

KEY PROJECTS AIMED AT DIGITAL TRANSFORMATION

"Digital management of the transport system"



"Green" digital passenger corridor"



"Seamless freight logistics"



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INDUSTRY COMPETENCE CENTER

Goals

Ensure the transition to the use of Russian software for the smooth operation of the transport industry

Stakeholders

Transport sector enterprises

Software developers

Legislative/regulatory bodies

Projects already implemented

- ✓ automated system of operational transportation management
- ✓ automated system for centralized preparation and execution of transportation documents
- ✓ software system for modeling and forecasting passenger flows
- ✓ the main rail passenger ticketing system

On-going projects

- > locomotive number accounting systems
- > railroad infrastructure management systems
- > sub-systems for management of current uncoupling car repair
- > railcar management systems

DIGITALIZATION

Problem

Lack of a unified mechanism for exchange of documents

Each foreign cargo transportation requires **>100 paper documents**

Waiting time for each container at the port is **up to 5 days**

Significant losses of time and money

Increased cost of goods for the final recipient

Solution – "GOSLOG"

National digital transportation and logistics platform

Single window of document flow between business and the state

E-document flow

Tracing of cargo and e-queue service at border crossings

2024 – **test shipments on 11 routes**, incl. intermodal and international

Average speed of cargo delivery will increase by 20% by 2030

Saving $2 billion by reducing paper costs alone

Reducing transportation and logistics costs in GDP by 16,5%

Further integration of GOSLOG with similar digital platforms in other countries could provide seamless e-document flow along ITCs

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DRIVERLESS TECHNOLOGIES

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2024 – start of driverless truck operation between Moscow and Saint-Petersburg

50% reduced round-trip time (from 3 to 1,5 days)

67 driverless trucks are now in operation

Contactless payment on toll roads supports driverless operations

2025 – start of driverless truck operation on Central Ring Road (Moscow bypass highway)
End 2025 – 93 driverless trucks on Moscow – Saint-Petersburg highway
2026 – launch of driverless trucks on highway between Moscow and Kazan



DRIVERLESS TECHNOLOGIES

Summer 2024 – first automated Lastochka train on Moscow Central Circle (GoA3 level)

Train driver only operates the doors and drives the train in case of emergencies

2x nighttime obstacle detection range

3x faster reaction time

2026 (expected) – launch of GoA4-level driverless train





THANK YOU FOR YOUR ATTENTION!

