Enhancing energy efficiency of the freight transport sector in Asia and the Pacific

Digital data sharing to support sustainable, resilient and energy efficient transport

DIGITAL TOOLS TO INCREASE THE EFFICIENCY OF INTERNATIONAL TRANSPORT CORRIDORS

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The goals of the growth of the transport and logistics system of the Russian Federation on the basis of the approved national Transport Strategy:

- **Goal 1** «Improving the territorial connectivity and transport accessibility»;
- **Goal 2** «Increasing the mobility of the community and the development of domestic tourism»;
- **Goal 3** «To increase the quantity and speed of cargo transportation, including transit, and the development of multimodal logistics technologies»;
- **Goal 4** «Digital and low-carb transformation of the transport sector and accelerated introduction of new technologies». 
DIRECTIONS OF DIGITALIZATION OF TRANSPORT AND LOGISTICS

Directions of digitalization of transport and logistics in the Russian Federation:

- Digitalization of passenger transportation;
- Digitalization of freight transportation;
- Digitalization of the life cycle of infrastructure and vehicles;
- Digitalization of transport complex management;
- Ensuring security at critical information infrastructure facilities in the transport industry;
- Increasing the level of technological development and decarbonization of the transport complex.
The order of the President of the Russian Federation on the formation of a National digital transport and logistics platform (NDTLP)
EXPECTED EFFECTS OF CREATING NDTLP

1. Reduction of the part of transport and logistics costs in the gross domestic product of the Russian Federation
   ↓ up to 10%

2. Increase in the average delivery speed of freight shipments
   ↑ 1.3-1.5 times

3. Increasing the capacity of the main directions of the transport infrastructure
   ↑ at 25%

4. The growth of freight traffic in the directions of international transport corridors
   ↑ at 23%

5. An increase in the share of transportation documents issued in electronic form
   ↑ up to 100%

6. Reducing the costs of transport and logistics companies by submitting documents once in a single window
   ↓ up to 10%

7. Increasing labor productivity in the transport and logistics industry
   ↑ at 20%
EXPECTED EFFECTS OF CREATING NDTLP

Business
- improving the speed, safety and security of freight transportation;
- reduction of transportation costs;
- growth of the freight transportation market and increasing the competitiveness of Russian enterprises;
- increasing the availability of transport and logistics infrastructure, including for small businesses.

Government
- ensuring the socio-economic development of the Russian Federation and the country’s transport and logistics complex;
- increasing the capacity of transport infrastructure and developing transit potential, increasing exports of transport services;
- reducing transportation costs and improving logistics efficiency;
- growth of employment and incomes of the population;
- improvement of transport security.

Society
- reducing the cost of final products by reducing transportation costs;
- expanding services and improving the quality of transport services;
- expanding business opportunities;
- reducing the negative impact of transport on the environment.
THE USE OF INTERNATIONAL AND RUSSIAN STANDARDS AND REGULATIONS FOR INFORMATION EXCHANGE WITHIN THE FRAMEWORK OF NDTLP
THE BASIC ARCHITECTURE OF NDTLP

NDTLP

PORTAL OF SERVICES FOR THE GOVERNMENT
- Analytical and statistical reporting (BI)
- Management of priority delivery of socially significant goods
- Incident Management
- Modeling and forecasting the development of transport infrastructure

BLOCK OF FUNCTIONAL SUBSYSTEMS

SUPPORTING SUBSYSTEMS

UNIFIED DATA MODEL

UNIFIED GEOINFORMATION SYSTEM

SUBSYSTEM OF PLATFORM INFORMATION INTERACTION
- Subsystem of information interaction with external IT systems
- Subsystem for collecting data on transport infrastructure objects
- Subsystem of information interaction with foreign IT systems

EXTERNAL IT SYSTEMS
- ЕАИС ТО(ФТС)
- АС «Налог-3»
- ЕПУ
- ГИС ЭПД
- АС ДИПС
- КПС «Портал Морской Порт»
- МИАИС
- ЕСИА (ГОСУСЛУГИ)
- АСУТК
- и др.

ПОРАЛ КОММЕРЧЕСКИХ СЕРВИСОВ
- Personal account
  - Single Window
  - Digital profile of the platform participant
  - Traceability of transportation
  - Data on transport infrastructure facilities
  - Monitoring and modeling of traffic flows
  - Transport analytics
  - Related and optional services

- Data exchange service between participants of transport and logistics activities

FOREIGN LOGISTICS IT PLATFORMS
- LOGINK (China)
- ULP (India)
- The SAEU Digital Platform

Operators of transportation and transport and logistics infrastructure (ports, airports, warehouses)

Shipper
Consignee
Carrier
Logistics operator

Federal and Regional authorities
The main NDTLP services

Priority services to be implemented in 2024

01. Single Window for the issuance of transportation, shipping and permits

02. Digital profile of the platform participant

03. Traceability of transportation

04. Monitoring of transport infrastructure facilities

05. Data exchange between participants in transport and logistics activities

06. Analytical assessment of cargo transportation options

07. Modeling of goods and transport flows

08. Providing information about related services

09. Analytical and statistical reporting

10. Modeling of the state and development projects of transport infrastructure facilities

11. Incident management

12. Managing the delivery of social goods

UNIFIED DATA MODEL

Data from transportation documents and permits
GOAL:
- refining basic NDTLP services for planning and support to multimodal container transport with an experimental legal treatment

TASKS:
- refining the target data model for the NDTLP
- refining the process of issuing authorization documents in an electronic form within a Single Window mode
- refining communication between the NDTLP and state information systems of federal agencies
- refining technology for tracking and tracing goods at all stages of their journey

PARTIES:
- Ministry of Transport of Russia
- Commercial companies

ROUTE:
- Vladivostok - Saint Petersburg

TIMEFRAME:
- 2024: creation of basic NDTLP services
- 2025: implementation of the pilot project

LEGAL BASE:
- experimental legal treatment