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Article



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ON THE IMPACT OF TRANSPORT ON THE EFFECTIVE SOCIO-ECONOMIC DEVELOPMENT OF RUSSIAN REGIONS. MESSAGE 2

Abstract: in the article, the authors proposed a systematic approach to the study of the concept of "movement". We developed a systematic description of this concept, fundamental for the worldview, and determined a place for transport in the traffic system. Transport is a universal tool for the implementation of movement as self-movement, which serves as a sufficient argument to classify transport as a system-forming concept of worldview. It is necessary not only to correct the existing characteristics of transport associated with the limitation of transport by the function of moving goods, but also to supplement it with the function of organizing reality, which well shows its status in the reproduction of the movement of matter. Transport is a universal tool for creating spatial and temporal conditions for development in the system of the movement of matter for the spatial and social development of the regions of the Russian Federation. In the article, the authors set out: the concept of transport science, the basics of technical knowledge, the development and types of transport, the uniqueness of transport as a sphere of economic activity, the problems of transport, the current state of the development of transport in Russia, the stages of development, as well as the methodology of technical and transport sciences; considered the classical technology of research in technical sciences, the methodology of experimental research in technical sciences, in transport, including its technical operation.

Key words: comfort, spatial development, social development, regions of the Arctic Zone and the Far East, regions of the European part and Siberia, movement, the basis for the movement of matter, universality, organization, worldview, «public or social» transport, conceptual thinking.

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Introduction

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Implementation mechanisms of the Transport Strategy include:

- improvement of the legal framework and methods of state regulation of the development of the transport system, ensuring the achievement of the goals of the Transport Strategy;

- creation of an effective system for managing the implementation of the Transport Strategy;

- advancing innovative development of the scientific, technical and technological base of the transport complex on the basis of advanced world achievements and technologies;

- development of providing the industry with labor resources;

- federal and regional targeted programs.

Improving the regulatory framework and methods of state regulation of development transport system, ensuring the achievement of goals Ttransport strategy. The main tasks in the field of improving the legal framework and methods of state regulation of the development of the transport system, ensuring the achievement of the objectives of the Transport Strategy, are:

- increasing the investment attractiveness of the transport industry, including improving the regulatory framework and introducing state regulation methods aimed at increasing the investment attractiveness of the industry, as well as improving economic and financial mechanisms, including public-private partnerships, aimed at increasing the investment attractiveness of the industry;

- formation of a regulatory framework for a competitive market for transport services, including the creation of a regulatory framework and methods for state regulation of the development of the transport services market, the development of a regulatory and legal mechanism that ensures the fulfillment of contractual obligations in terms of the volume and quality of transport services, the development and improvement of methods and mechanisms of state regulation and motivation for the development of transport activity structures in order to ensure the quality of transport services, including motivation for the creation and development of national and international transport companies capable of ensuring innovative development and improving the quality and competitiveness of transport services, creating a regulatory framework that regulates commercial access to transport activities in the region freight transport, as well as promoting the development of

small and medium-sized businesses in the transport sector;

- state regulation of the level of specific transport costs in the price of products, including the development and implementation of state regulation methods that stimulate the reduction of total specific transport costs, as well as the development and implementation of mechanisms for state monitoring of total specific transport costs in the price of final products;

- domestic and international harmonization of the regulatory and legal support of the transport system;

- formation of a legal framework and methods of state regulation aimed at ensuring:

- a guaranteed level of accessibility and quality of transport services for the population, including the development and implementation of minimum social transport standards in relation to the possibility of moving the population across the country (communication model for all types of passenger transport, appropriate rolling stock, purchasing power, affordability, standard for the frequency of transport services for each settlement), as well as the development of a regulatory framework governing commercial admission to transport activities in the field of passenger transportation;

- integration of Russia into the global transport space and the realization of the country's transit potential, including the development of methods of legal regulation that provide assistance in increasing the share of participation of Russian transport organizations in the export-import transportation of Russian goods, as well as in the transportation of goods between third countries, integration into the global system of regulatory ensuring transport activities, standards and technical regulations, as well as improving the regulatory framework aimed at expanding Russia's participation in the system of international agreements and conventions in the field of transport;

- security and sustainability of the transport system, including the improvement of the regulatory framework aimed at ensuring security in the transport industry and the development of the transport system, taking into account the requirements for ensuring the military security of the Russian Federation, as well as improving the regulatory framework governing the harmful effects of transport on the environment and human health, including in terms of determining the conditions for the admission of companies to transport activities.

The state is one of the main participants in the transport services market, acting as a shareholder or

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owner of organizations operating in the industry. The systemic role of the state in matters of management and disposal of its property in the transport complex is to increase the efficiency of all aspects of state property management in the field of transport, as well as to create conditions that ensure the activities and legal relations of participants in the civil circulation of transport property, taking into account the goals and objectives of the Transport Strategy and state policy in the field of property relations.

The main directions for improving the management of state property in transport are:

- improvement of the norms of the legislation of the Russian Federation regulating the issues of registration of ownership rights to state property of the transport industry, as well as issues of the use of land plots by organizations of the transport complex (including the improvement of legal regulation of the procedures for reserving and withdrawing land plots for federal needs);

- improvement of the legislation of the Russian Federation regulating issues of shared ownership of the property of the transport industry;

- improvement of the legislation of the Russian Federation regulating the issues of investment activities in transport;

- improving the forms and methods of transferring state property for use by legal entities and individuals;

- improving the norms of the legislation of the Russian Federation in order to prevent the insolvency of the backbone organizations of the transport industry;

- carrying out the privatization of the property of the transport industry, taking into account the goals and objectives of the Transport Strategy;

- introduction of modern information technologies to solve the problems of accounting for federal property and indicators of the effectiveness of its use;

- improvement of the system of professional training and qualification of heads of state unitary enterprises and state institutions;

- improvement of the procedure for interaction between authorities in the field of state property management.

State regulation of the development and functioning of the Russian transport system should ensure the achievement of the objectives of the Transport Strategy.

Subject to state regulation:

- development and technical improvement of the federal and regional transport infrastructure;

- institutional transformations in transport;

- issues of technological, transport and environmental safety of transport infrastructure facilities and vehicles;

- formation and functioning of the market of transport services;

- ensuring the mobilization readiness of transport;

international activity of transport enterprises and structures;

social sphere and labor relations in transport.

State regulation of transport services should be aimed at creating and maintaining the competitive advantages of Russian transport organizations in the domestic and international markets, at providing consumers with high-quality competitive transport services, as well as at introducing direct action legislative norms and mechanisms that guarantee the implementation of quality indicators by transport enterprises.

In the field of railway transport, for the implementation of the Transport Strategy, it is envisaged:

- development of long-term target programs with the timing and sources of financing measures for the development of railway transport;

- implementation of the mechanism of state participation in the development of railway infrastructure in the Russian Federation until 2035;

- improvement of the system of state regulation of the railway industry and prices (tariffs) for regulated types of products and services, deregulation of competitive sectors, taking into account the degree of development of competition in order to protect the interests of consumers of transport services, increase the efficiency of the industry and create conditions for advanced investment development of railway transport;

- implementation of the Railway Structural Reform Program and the target model of the railway transport services market at the third stage of the structural reform, including the creation of conditions for the development of competition in the field of railway transport services and the growth of private investment in the railway industry;

- ensuring legal, informational and technical interaction between the railway systems of the Russian Federation and other states, taking into account the prospects for Russia's accession to the World Trade Organization, the need to integrate the railway transport of the Russian Federation into the international transportation system and make the most efficient use of its transit potential for these purposes;

- determination of the body (bodies) of state power, the competence of which (which) includes the functions of managing mobilization preparation and civil defense in railway transport, imposing duties on the implementation of certain railway transportation and the use of rolling stock on specific owners of infrastructures, carriers and operators in cases of threats to socio-economic stability, defense capability, security of the state and in other cases provided for by the legislation of the Russian Federation;

- removal of restrictions on the civil law turnover of railway transport property not involved in ensuring defense capability and mobilization preparation and

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expected to be involved in turnover in competitive market segments;

development of a set of measures aimed at ensuring the required level of safety of Russian railway transport facilities;

development of a mechanism for the implementation of socially significant, military and special transportation in peacetime and special periods, the implementation of mobilization plans, the maintenance of a mobilization reserve, the implementation of measures for mobilization training in railway transport and increasing the responsibility of participants in the market of railway transport services for failure to meet the requirements of mobilization and defense tasks;

development of corporate strategies for the development of railway transport organizations in accordance with the Transport Strategy.

Main part

In the field of transport in Russia, in recent years, the necessary modernization of the infrastructure has been carried out, which made it possible to satisfy the growing demand for passenger and freight transportation and create a certain reserve for further development.

Russia has all modern modes of transport, the location and structure of its transport communications generally meet the internal and external transport and economic relations of the country, but need significant improvement.

The length of communication lines of the Russian transport system as of the beginning of 2021 was 85 thousand km of public railways, 42 thousand km of industrial railway transport, 755 thousand km of paved roads (including 597 thousand km of public roads use), 102 thousand km of inland waterways, 2.8 thousand km of tram lines, 439 km of metro lines, 4.9 thousand km of trolleybus lines, 532 thousand km of air routes, of which more than 150 thousand km are international.

Every day, 69.1 million passengers and 33.1 million tons of cargo were transported through these transport communications by all modes of transport.

The growth in the volume of cargo and passenger traffic was reflected in positive changes in the socio-economic situation of the country in recent years.

The volume of cargo transportation in 2018-2021 by all modes of transport (excluding pipelines) increased by 18.1 percent (by public transport - by 23.9 percent). Freight transportation by rail increased most rapidly (by 28.4 percent).

The growth in the volume of cargo transportation was influenced by the revival of the real sector of the economy, the increase in production in the main cargo-forming industries, the development of markets for goods and services, and the favorable external economic situation in the main commodity items of domestic exports.

Railways play an important role in the transport system. Railway transport performs 62 percent of the total volume of freight traffic carried out by public transport, or 84.3 percent of the total freight turnover carried out by all modes of transport (excluding pipelines). Road transport accounts for 47.4 percent of the volume of commercial transportation of goods, and the share of rail transport has been declining in recent years, while road transport has been growing, which indicates an increase in the competitiveness of road transport in certain segments of the transport services market.

Positive changes are observed in the creation of parity between Russian and foreign carriers in the performance of international transportation. The volume of international transportation of goods by road in 2018 reached 40.2 million tons.

The share of automobile (bus) transport in the total volume of passenger transportation by public transport is 57.8 percent. In the structure of passenger traffic, 35.4 percent is occupied by rail transport, 29.4 percent - by road transport and 22.6 percent - by air transport. The decrease in 2018-2021 by 42.5 percent in the volume of passenger transportation carried out by suburban rail transport, road and urban surface electric transport is associated with a decrease in the number of trips of preferential categories of passengers, a change in the accounting system as a result of the introduction of unified social travel tickets, as well as with the transition to personalized accounting.

The constant growth in the number of cars in the personal use of citizens also has an impact on the decrease in the volume of work performed by urban passenger transport. In 2018, the fleet of passenger cars amounted to 29.4 million units.

Since the start of the economic reform program, the non-state sector has dominated the transport sector. Enterprises of non-state forms of ownership currently carry out: in road transport - 94.9 percent of cargo transportation and 18.5 percent of passenger transportation, in sea transport - 88.4 percent and 97.3 percent, respectively, 90.4 percent, by air - 87.1 percent and 77.8 percent, by industrial railway - 85.6 percent of cargo transportation.

Since 2018, the development of the country's transport system has been carried out in accordance with the federal target program "Modernization of the transport system of Russia (2016 - 2021)".

During this period, the construction of the 1st launch complex Tommot - Kerden of the railway line Berkakit - Tommot - Yakutsk, the border railway station Chernyshevskoye of the Kaliningrad railway, a combined bridge over the river. Lena near the city of Yakutsk. The Lagar-Aul Tunnel on the Far Eastern Railway, the Bolshoy Loop Tunnel at the 1855th kilometer of the Belorechenskaya-Tuapse section, a number of checkpoints across the state border of the Russian Federation on the main directions of

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transportation were put into operation. Measures were taken to modernize the railway infrastructure of Sakhalin Island.

More than 15,000 km of federal and regional roads have been built and reconstructed. More than 100,000 km of federal and regional roads have been repaired. 5,000 km of federal roads were overhauled.

The length of federal highways corresponding to the normative transport and operational indicators is 17.7 thousand km.

Construction and reconstruction of federal highways, including Chita - Khabarovsk, M-4 "Don", M-5 "Ural", M-10 "Russia", transport bypass of St. highway), as well as 4 unique out-of-class bridge crossings. Four-lane traffic was introduced along the entire length of the road from Moscow to Nizhny Novgorod.

The growth of passenger turnover in air transport amounted to 70.2 percent, cargo turnover - 14.5 percent. The share of aircraft meeting the noise requirements of the International Civil Aviation Organization in the structure of the fleet's sold carrying capacity increased from 44 percent to 59.1 percent, the share of modern aircraft in the fleet structure increased from 24 to 35 percent.

Reconstruction of runways at Pulkovo, Krasnoyarsk, Khabarovsk, Blagoveshchensk, Kurgan, Cheboksary airports and replacement of lighting equipment at Pulkovo, Khabarovsk, Barnaul, Kurgan, Ulan-Ude airports was completed. Aviation security equipment was purchased for 53 Russian airports.

The volume of cargo transshipment through Russian commercial sea ports increased 2.6 times and amounted to 451 million tons, which exceeded the maximum volume of cargo transshipment by the ports of the Soviet Union in 1989 by 12 percent.

With the participation of seaports, about 60 percent of Russia's foreign trade cargo turnover is carried out.

Restoration and repair work was carried out at 723 hydraulic structures. The conditions for navigation on waterways for the delivery of goods to the regions of the Far North with a total length of 68,160 km have been provided. In 2006, the complex of works of the first stage for the construction of the second line of the sluice of the Kochetovsky hydroelectric complex was completed.

On the inland waterways of the Unified Deep Water System of the European Part of the Russian Federation, 42 percent of communication systems have been updated.

Actual expenses for the implementation of the federal target program "Modernization of the transport system of Russia (2016-2021)" in 2016-2021 amounted to 1.93 trillion. rubles, including at the expense of the federal budget 0.54 trillion. rubles, or 27.7 percent.

Out of the total volume of financing, expenditures on railway transport amounted to 27.1 percent, on roads - 57.4 percent.

In the volume of financing from the federal budget, the share of roads is 89.9 percent, the share of railway transport is 0.4 percent.

Since 2012, the implementation of 13 major infrastructure projects began on the principles of public-private partnership, including at the expense of the Investment Fund of the Russian Federation.

Transport enterprises are gradually adapting to the new business conditions. However, many issues of the work and development of transport in the conditions of the formation of market relations have not yet received a satisfactory solution.

Among the main shortcomings of Russian transport, the low technical level and the unsatisfactory state of its production base stand out.

The reduction in the volume of reconstruction and construction of infrastructure facilities, as well as the rate of replenishment and renewal of fleets of vehicles and other transport equipment has led in recent years to a significant deterioration in their technical condition (age structure, increased wear, etc.) and efficiency.

At present, the length of problem areas in terms of throughput capacity is 8.3 thousand km, or about 30 percent of the length of railways, which provide about 80 percent of all freight work of railway transport.

To date, the formation of a backbone network of federal highways connecting all regions of Russia has not been completed. Only about 38 percent of federal highways meet the regulatory requirements.

The low level of development of the road network in agricultural areas, as well as in the regions of the Far North, the Republic of Sakha (Yakutia), the Magadan Region, the Chukotka Autonomous Okrug, etc., remains low.

Due to the lack of paved roads, more than 10 percent of the population (15 million people) remain cut off from transport communications in the spring and autumn.

Until now, 39 thousand settlements with a total population of up to 2 million inhabitants (including 7.5 percent of the total number of regional centers and 6.7 percent of the central farmsteads of agricultural organizations) have no connection with the country's transport network through highways with hard coated. The formation of a backbone road network in the regions of the North, Siberia and the Far East has not been completed.

Federal highways have exhausted their capacity. 13,000 km of roads are operated in excess of the standard load, especially on the approaches to the largest cities, which is almost 29 percent of the network length. The local road network is underdeveloped, so a significant part of local traffic is carried out on federal roads. The acceleration of motorization of the country has not yet led to a

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corresponding increase in the volume of construction and reconstruction of the road network, and the repair of roads has even somewhat decreased in recent years. With an increase in the length of public roads by 15 percent over the past 10 years, the car park has grown by almost 75 percent.

Solving the problem of bringing the length and condition of the road network in line with the needs of the economy and the population is significantly complicated by the influence of the outstripping growth of market prices for road construction materials. The rise in prices for these resources over the past 5 years was 1.5 times higher than the rise in price indices in construction over the same period. Up to 60 percent of the funds allocated for road works are spent on the purchase of materials.

The pace of development of civil aviation in Russia is currently 2-3 times higher than international indicators. Not only the international transportation market is developing dynamically, but also the domestic transportation market (growth - 17 percent). This is due to an increase in real incomes of the population, an increase in the competitiveness of air transport compared to rail transport in the long-distance passenger transportation market, as well as the development of consolidation and integration processes for air carriers.

At the same time, over the years of economic reforms, the number of operating Russian airports and civil aviation airfields has decreased by 2.5 times (mainly due to regional facilities). To a large extent, as a result of this, the configuration of the passenger airline network has developed, within which the largest volume of passenger traffic (up to 80 percent) is accounted for by air communications in Moscow.

Many constituent entities of the Russian Federation have almost completely lost both the network of local airlines and the airfields of local airlines. The reduction of local traffic, the closure of airlines, the collapse of the air transport infrastructure and other negative trends can become irreversible, which will lead to the complete collapse of the system of local airports operating regional aviation aircraft, and the creation of a crisis situation in many regions that are not provided with alternative modes of transport.

There is a sharp backlog of airport infrastructure and equipment from the level of development of international civil aviation, a backlog in the implementation of modern means and technologies recommended by the International Civil Aviation Organization in the field of air traffic management, automatic landing systems and other radio systems.

The systems interacting in air navigation services are not interconnected by a single organizational and technical structure, the transition from the Unified Air Traffic Management System of the Russian Federation to the Air Navigation System of Russia has not been completed, which hinders the

improvement of the quality of air traffic services, the dynamic implementation and development of advanced air navigation facilities and systems recommended International Civil Aviation Organization.

The development of Russian ports and related transport infrastructure is uneven. Significant differences have accumulated in terms of the levels of manufacturability and capitalization of port hubs. This is a consequence of the uneven and unstable cargo base, the insufficient development of the adjacent railway, road and pipeline infrastructure, as well as the rear terminal and warehouse infrastructure.

There is a shortage of port capacities focused on transshipment of imported cargo (containers and ro-ro cargo), which is caused by the rapid development in recent years of port capacities aimed at transshipment of export cargo.

The share of inland waterways that limit the capacity of the Unified Deep Water System of the European part of the Russian Federation is currently 4.9 thousand km (75 percent).

The most important problem is the technical and technological lag of the Russian transport system in comparison with developed countries. It is not ready for the widespread use of modern technologies, primarily container technologies. The growing demand for freight transportation is constrained by the underdevelopment of the country's transport and logistics system. Forwarding services for the population and the economy remain at a low level. There is no high-speed rail service in the country.

The innovative component in the development of rolling stock fleets and technical means of transport remains at a low level, especially in domestic transportation. There is a significant lag in the environmental parameters of transport operation.

Urban public transport does not receive proper development, including its modern high-speed types, which could significantly reduce the severity of the problem of transport development of megacities.

Almost in all sectors of the transport complex, the tendencies of aging of fixed assets and their inefficient use persist. Depreciation of fixed production assets for certain groups of fixed assets has reached 55 - 70 percent and continues to grow.

At the beginning of 2018, the depreciation of fixed production assets of large and medium-sized commercial organizations amounted to: in railway transport - 58.6 percent, in sea transport - 51.2 percent, in inland water transport - 69.7 percent, in automobile transport (without road facilities) - 49.6 percent, air - 50.3 percent.

The state of many technical means of transport has reached a critical level. A significant part of them is operated beyond the normative service life, the other is approaching this period. As a result, the safety and economic efficiency indicators of transport operation are significantly deteriorating.

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One of the most significant is the problem of imbalance in the development of a unified transport system in Russia. It includes three most important components:

The first is disproportions in the pace and scale of development of different types of transport. The most striking example is the significant lag in the development of inland water transport and the high growth rates of motorization;

the second is the insufficient development of the existing transport infrastructure, most acutely manifested in the discrepancy between the level of development of roads, the level of motorization and the demand for road transport, in a sharp reduction in the number of regional and local airports, as well as in the presence of numerous "bottlenecks" at the junctions of individual modes of transport;

the third is the territorial uneven development of transport infrastructure.

The most significant differences are between the European part of Russia, on the one hand, and the regions of Siberia and the Far East, on the other. Differences between regions in terms of transport provision are becoming unacceptable. For example, 6 constituent entities of the Russian Federation do not have rail links with other regions of the country.

Due to the insufficient development of transport, the integrated development of new territories and the development of mineral deposits, primarily in Siberia and the Far East, are held back.

The solvent demand of the population for transportation is not fully satisfied. Passenger transportation is not provided on socially significant routes, including due to unaffordability of prices (primarily in the regions of the Far North and the Far East).

In connection with the growth of transport tariffs in recent years, there have been certain restrictions on transport and economic relations. Due to the high transport component, the competitiveness of domestic products is reduced not only in the external, but also in the domestic markets. The weakening of ties between the regions of the Russian Federation undermines its unity and reduces the economic security of the country.

The mobility of the population in non-urban traffic in 1995 - 2007 decreased by 60 percent, mainly due to a reduction in trips related to recreation and tourism. For a significant part of the population, travel over long distances has become practically inaccessible, which causes additional social tension in society.

The level of safety of transport activities remains low, primarily in road and air transport. In road traffic accidents, 23.5 people per 100,000 people die every year, in the countries of the European Union this figure is 9-10 people.

The insufficient level of safety of transportation of goods and passengers by domestic transport

companies negatively affects their competitiveness in the international market of transport services.

Road transport is the main air pollutant in large cities (up to 80 percent of total emissions), its share in the total emissions in the country is 40 percent.

The current state and capabilities of the transport system in the field of ensuring the military security of Russia indicate that the most difficult period in its development is over. However, a number of significant problems remain. The needs of the country's defense in the development of modern types of vehicles, the construction of new and the reconstruction of existing transport communications related to dual-use infrastructure facilities are not sufficiently taken into account. A negative impact is exerted by the insufficient throughput and carrying capacity of transport infrastructure facilities and vehicles, the underdevelopment of the railway and road networks in the north and east of the country, as well as in a number of border regions, the passage of the main transport communications in the east of the country near the state border of the Russian Federation.

The resource intensity of transportation and the transport costs of the economy are growing. The increase in the cost of transportation, in turn, causes an increase in transport tariffs.

Due to the shortage and unsatisfactory condition of the rolling stock, many city and intercity bus routes have been closed, and the frequency of bus traffic has decreased. Due to unprofitability and the lack of state support measures, many air lines and part of river passenger routes are closed, which leads to the dissatisfaction of the population's demand for transportation not in full.

The complexity of the financial condition of transport is exacerbated by the outpacing growth in prices for the resources it consumes. The level of the revenue rate for transportation especially began to lag behind the growth in prices for resources after the Government of the Russian Federation made decisions to curb the indexation of railway tariffs without extending a similar procedure to industries supplying transport with material and technical resources.

Despite the multiple increase in tariffs for the transportation of passengers and goods, the financial situation of transport enterprises could not be normalized. Passenger transportation in domestic traffic on all modes of transport (with the exception of intercity bus transportation and regular air lines) is unprofitable, and the profitability of modes of transport for the carriage of goods is minimal. The share of unprofitable large and medium-sized enterprises in 2018 amounted to 32 percent. On the part of the clientele, receivables to transport organizations also increase.

The main reasons for the low profitability and unprofitability of transportation are a decrease in the

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volume of transportation work while maintaining the entire infrastructure of modes of transport and a slight decrease in the number of production personnel, as well as a lag in the growth of revenue rates from the growth in prices for fuel, electricity, materials and technical equipment consumed by transport. The allocated budget subsidies do not yet fully cover the losses in the income of transport companies resulting from the state regulation of tariffs for passenger transportation.

The influence of these causes affects regardless of the form of ownership of transport organizations. The main railway transport, classified as a natural monopoly industry and owned by the state, also operates with low profitability.

There is an acute problem of attracting investments in the development of the transport industry, which is due to the low investment opportunities of transport enterprises, difficulties in attracting long-term borrowed funds, and the underdevelopment of public-private partnership mechanisms. Currently, in most cases, a non-capital-intensive development model is being implemented, in which the volume of services grows due to an increase in the use of existing fixed assets.

The priority problem remains the improvement of the legal framework for the development of the transport system and the transport services market, including the creation of a regulatory framework that regulates the quality of transport services, ensuring the mobilization training of transport organizations and the fulfillment of their military transport duties, the development of public-private partnership mechanisms that ensure a clear legislative distribution of rights, responsibilities and risks between the state and the investor, as well as the definition of priority areas for the application of these mechanisms in transport.

The shortage of qualified professional personnel is increasing in the transport industry.

Another important problem is the insufficient level of competitiveness of domestic companies and the entire transport system of Russia as a whole in the global market of transport services. This is due to both the listed problems and insufficient opportunities for domestic transport organizations to compete in the world market, including the effective use of Russia's geopolitical advantages in international transit traffic.

The technical and technological parameters of international transport corridors do not ensure their competitiveness in the international market.

Integration into the global and regional markets for transport services will mean increased competition, increased access to the Russian market for foreign carriers, removal of administrative and tariff barriers, and will lead to a more difficult situation for domestic transport companies.

An analysis of global trends in the development of transport shows that no country is able to control

the risks of its own economy without having strong transport positions.

World trends in the development of transport show that:

the period of patronage in relation to modes of transport and carriers has ended. The efforts of most countries are aimed at increasing the competitiveness of national transport and abandoning the quota system, as well as tariff and other restrictions. They are replaced by the harmonization of transport legislation;

The market of transport services has become more complex, all segments of the transport process and logistics have begun to be integrated. This led to the development of a new type of transport infrastructure - transport, storage and commodity transport complexes, which formed an integrated system of interaction;

transport centers became the control elements of the system, which made it possible to optimize "through" tariffs. This has led to the transition of the point of profitability from the processes of physical transportation to the field of transport and logistics services. The concept of transport corridors has been transformed. From a set of routes, they turned into a system of transportation control centers and transport hubs, which gradually acquired the functions of managing the tariff policy;

the quality of transport services and competitiveness have reached a high level of development. In segments of the transport market, the services of which are in demand, competition has stepped over the stage of competition for the quality of transport services. It's guaranteed. The struggle is price-based. Against this background, the requirements for the environmental friendliness of transport are increasing. Hence the desire to maintain an acceptable share of the transport component in the price of the final product, while observing strict environmental and safety standards.

For the Russian transport system, these levels of development are not yet achievable. It is necessary to stimulate a gradual improvement in the quality of transport services, the integration of transport service technologies, and an increase in the competitiveness of carriers and operators of transport hubs. Following this, one can expect an optimization of the affordability of transport services. As restrictions, the given levels of safety and environmental friendliness of transport should act.

The main system-wide problems in the development of the transport industry of the Russian Federation are as follows:

Availabilityterritorial and structural disproportions in the development of transport infrastructure;

insufficient level of accessibility of transport services for the population, mobility of labor resources;

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insufficient quality of transport services;
low level of export of transport services,
including the use of transit potential;
insufficient level of transport security;
strengthening the negative impact of transport on
the environment.

Thus, significant restrictions on economic growth have appeared in Russia, due to the insufficient development of the transport system. A new long-term transport strategy is needed, which defines the main strategic directions and targets for the development of the transport system for the period up to 2030.

Predictive qualitative and quantitative parameters for the development of the transport system of the Russian Federations until 2035

Scenario options for the development of the Russian transport system for the period up to 2035 have been developed in three versions:

- inertial;
- energy raw materials;
- innovative.

The inertial option for the development of the transport system involves:

- implementation of large-scale transport projects that ensure the extraction and development of mineral deposits in new production areas (oil in Eastern Siberia, gas on the Arctic shelf, etc.) and the construction of relevant pipelines;

- development of transport infrastructure that ensures the realization of the transit potential of the economy;

- reconstruction and construction of especially important objects of transport infrastructure, primarily objects that ensure the safety of the functioning of transport systems, as well as the modernization and renewal of the fleet of vehicles;

- advance development of transport infrastructure in the areas of export deliveries of goods, primarily the development of seaports and approaches to them;

- growth in the volume of domestic transportation of raw materials in connection with the increase in coal mining, the development of energy, metallurgy and oil refining;

- low dynamics of export traffic and outstripping growth of import traffic,

- continued dominance in imports of food and consumer goods;

- insufficiently high rates of construction and reconstruction of the road network, the persistence of sharp disproportions in its development in the European and Asian parts of Russia;

- maintaining low mobility of the population, primarily in air transport, which is due to insufficient growth in incomes of the population and the continuing aging of the aircraft fleet;

- lack of transportation and infrastructure reserves in the modes of transport necessary to improve the quality of transport services for the

population and production, the introduction of transport and logistics technologies.

The energy and raw material option involves the accelerated development of transport infrastructure, mainly for transport support for the development of new mineral deposits and the increase in fuel and raw materials exports, the realization of Russia's competitive potential in the field of transport and the growth of exports of transport services. In this case, the following features can be distinguished:

- implementation of large-scale transport projects (including within the framework of public-private partnerships) that ensure the development of mineral deposits in new mining areas, mainly in Siberia, the Far East and the continental shelf;

- diversification of directions for export deliveries of Russian hydrocarbons, including to China, and the creation of an appropriate infrastructure;

- development of transport infrastructure that ensures the implementation of the country's transit potential, including joint projects for the production and export of hydrocarbons within the framework of the EurAsEC, as well as with other states;

- increase in domestic transportation of coal in connection with the development of power generating capacities and metallurgical production;

- increase in transportation volumes and assortment of products of fuel processing and raw materials (petroleum products, concentrates, chemical cargoes, metals, etc.), as well as engineering products;

- low growth rates of export shipments and a significant increase in the volume of import shipments of highly processed goods, primarily products of high-tech sectors of the economy;

- continued increase in the number of private passenger cars, with a decrease in the volume of passenger transportation by public transport (mainly by road) in the period up to 2020 and some growth in 2021-2035;

- an increase in the need for the construction and reconstruction of the road network connecting new residential areas in megacities and suburban areas of large cities with places of application of the labor force.

With the implementation of this option, measures to develop the country's transport system will be carried out primarily in the metropolitan agglomerations, as well as in regions with high growth rates - in the South of Russia, Siberia and the Far East.

Rail transport will have to ensure unhindered growth in the transport of raw materials to the main centers of consumption, including transport for export.

Of decisive importance will be the specialization of seaports through the creation of so-called "layered ports" following the Rotterdam model, when the port system will include remote railway junctions and transport and logistics complexes. This will require the development of access roads to ports and port

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production and storage areas focused on the processing of cargo, the formation of port zones that ensure the processing of incoming cargo.

An additional impetus will be given to the development of transport in the Arctic zone (territories located mainly to the north of the 60th parallel).

The development of the country's transport system will become one of the main sources of economic growth. The impetus for technological development will be received by a part of the manufacturing industries associated with ensuring the development of transport.

At the same time, the implementation of the energy and raw material option will have a number of negative consequences for the prospective socio-economic development of the country and ensuring national security, in particular:

- it will be necessary to create significant reserves of the capacity of the transport network in the main directions due to possible sharp fluctuations in demand for the transportation of export bulk cargoes in terms of volumes, nomenclature and directions due to changes in the situation in the world markets for fuel and raw materials;

- a decrease in the economic efficiency of transportation is possible due to an increase in the imbalance in export-import cargo flows. The imbalance will be associated with an increase in exports of bulk and liquid cargoes and imports of finished products. Specialized and universal types of rolling stock will have low performance in terms of the coefficient of mileage with a load, that is, significant flows of empty stock are possible;

- population mobility will grow at a slow pace, which will be one of the reasons for the insufficient dynamics of improving the quality of human capital in the country. The level of passenger traffic will be lower than the level with the innovative option by 14.3 percent, and passenger turnover - by 11.5 percent. This is due to lower rates of growth in real incomes of the population, a decrease in the population and a smaller scale of development of infrastructure and rolling stock of passenger transport. Lower growth in the welfare of the population will cause a slower growth in the number of personal cars;

- there will be significant differentiation in ensuring the availability of transport services for different regions and social groups of society;

- low investment activity will cause a significant burden on the budgetary system associated with financing the construction, repair and maintenance of roads.

The innovative option involves the accelerated and balanced development of the country's transport system, which, along with the achievement of the goals envisaged in the implementation of the energy and raw material option, will provide transport conditions for the development of the innovative component of the economy, improving the quality of

life of the population, and the transition to a polycentric model of Russia's spatial development.

For the innovative option, a number of features characteristic of the energy and raw material option are retained, in particular:

- implementation of large-scale transport projects that ensure the development of mineral deposits in new mining areas;

- diversification of directions for export deliveries of Russian hydrocarbons;

- development of transport infrastructure that ensures the realization of the country's transit potential, including joint projects within the framework of the Eur Az EC, as well as with other states;

- increase in domestic transportation of coal in connection with the development of power generating capacities and metallurgical production;

- an increase in the volume of transportation and the range of products of fuel processing and raw materials, as well as engineering products due to the increase in innovative activity in the energy, fuel and raw materials industries, and related machine-building industries.

At the same time, the distinctive features of the development of the transport system according to the innovative option will be:

- a significant increase in export transportation of highly processed goods, primarily products of high-tech sectors of the economy, the growth rate of which will be 2.5 times higher than the growth rate of transportation of similar imported goods;

- increasing the role of transport and logistics infrastructure in organizing the movement of goods;

- growth in the volume of passenger transportation by public transport. The highest growth rates are expected in air transport, and the main absolute increase will be provided by road transport;

- the emergence of the need to build and reconstruct a road network connecting new residential areas in megacities and suburban areas of large cities with places of application of labor in a significant number of large and medium-sized cities due to an increase in the level of income and quality of life of the population;

- increasing the demand of the economy and the population for high-speed transportation services (with a predetermined delivery time) and passengers (with maximum freedom of movement and the possibility of planning personal time).

When implementing this option, measures to develop the country's transport system will be concentrated, along with metropolitan agglomerations, also in cities where significant innovation and human capital is concentrated. In the east of the country, such a scenario will give a selective impetus to the development of cities with a significant amount of accumulated innovation potential - Tomsk, Novosibirsk, Krasnoyarsk, Irkutsk.

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At the same time, the "infrastructural effect" of the formation of urban agglomerations associated with the implementation of projects for the construction of large transport complexes, multimodal logistics centers and information hubs will be of paramount importance.

Along with the South of Russia, Siberia, the Far East and the Arctic zone, the Volga and Ural macroregions will become zones of priority transport development. Spatial development will become multipolar, not rigidly tied to the established energy and raw materials and financial centers.

Regional aspects of the development of the country's transport system will be related to:

- creation of a network of territorial production clusters focused on high-tech industries (in the aviation industry, shipbuilding, nuclear industry, in the production of new materials, in computer science and telecommunications), with the concentration of such clusters in urbanized regions;

- the creation of territorial production clusters focused on deep processing of raw materials and energy production, ensuring the development of new territories; formation and development of tourist and recreational zones on the Black Sea coast, in Altai, Baikal, Kamchatka, regions of the North;

- the development of large transport, logistics and production hubs in the North-West, the South of Russia and the Far East.

The development of railway and maritime transport, along with the tasks of ensuring the transportation of bulk cargo, including export ones, will increasingly focus on improving the quality of transport services for cargo owners and strengthening interaction in the framework of ensuring efficient logistics chains of goods movement.

An important role will be played by the development of the Northern Sea Route, primarily for commercial transportation, with the creation of an appropriate infrastructure on the northern coast of Russia.

Measures to increase the competitiveness of maritime transport will significantly increase the share of the fleet flying the State Flag of the Russian Federation in the world's maritime fleet and significantly increase the export of transport services.

Transportation by road will grow at a high rate, which provides the most flexible response to the demands of the economy, especially the sectors of high- and medium-tech industries.

Measures aimed at the development of air transport and the use of significant advantages (primarily environmental) of inland water transport will significantly increase their share in the country's transport balance.

Of decisive importance for the formation of a modern commodity distribution network in Russia will be the creation of an integrated network of transport and logistics complexes that provide a wide

range of competitive services, the accelerated development of intermodal transportation and the formation of territorial production clusters.

The development of public passenger transport will receive a significant impetus. First of all, this applies to the development of high-speed and high-speed rail transportation, all types of air transportation, urban and suburban transport.

When implementing this option, the country's transport system should develop at a faster pace than the sectors of the economy and the social sphere in order to remove the infrastructural restrictions on the country's future socio-economic development, which depend on transport.

The implementation of an innovative option for the development of the transport system will solve the main tasks facing the country, namely:

- indicators of population mobility will approach the level of developed countries, which will be one of the most important factors in improving the quality of human capital in the country;

- differentiation in ensuring the availability of transport services for different regions and social groups of society will decrease;

- the competitiveness of domestic goods and services in world markets will increase due to the balanced development of the country's transport system;

- the growth of the economic efficiency of passenger and freight traffic will optimize the transport costs of the economy and increase the availability of transport services for the population.

Comparison of scenario options leads to the conclusion that the innovative option acts as a target for the long-term state transport policy, since it fully allows to realize the strategic interests of Russia.

When moving to an innovative option, the requirements for the nature and directions of development of the transport system are most determined by the following fundamental factors:

- strengthening of global competition covering the markets for goods, services, capital, and other factors of economic growth. Structural restructuring of the world economy associated with a change in the balance between economic centers, an increase in the role of regional economic unions, the expected spread of new information, nano and biotechnologies. This will entail a change in national and world cargo and passenger flows, an increase in the requirements for the quality of transport services;

- exhaustion of sources of export-raw material type of development, based on increasing fuel and raw material exports, the need for a transition to intensive innovative development.

On the agenda is the need to diversify the Russian economy, increase the share of products with high added value in the structure of the gross domestic product, and the share of the processing industry.

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As a result, the question arises of the transition from a predominantly extensive to an intensive model of development of the transport system based on innovative breakthrough technologies that improve the quality of transport services.

The second important trend is the globalization of the economy and Russia's entry into the World Trade Organization. This factor causes an increase in international and intra-industry competition, which requires an increase in the competitiveness of the transport industry.

Considering these factors and the current state of the Russian transport system, we can conclude that transport is a priority point for the growth of the national economy.

When switching to an innovative option for the development of the transport system, it is necessary to ensure:

- development of a competitive market for transport services;

- availability of transport services for the population;

- an increase in the share of domestic transportation and transportation of finished products in the overall transport balance of the country;

- expanding the range and improving the quality of transport services based on the use of modern transport, logistics and infocommunication technologies, the development of new forms of organizing the transport process and interaction between modes of transport;

- multiple increase in labor productivity and energy efficiency in transport;

- revitalization of the activities of domestic transport organizations in the world market of transport services, transnationalization of their activities, the transformation of Russia into the largest exporter of transport services;

- integration of the transport system of Russia into the Eurasian transport space, development of multi-vector transport links with world economic centers;

- transport support for new centers of socio-economic development of the country;

- high territorial mobility of the population;

- increasing the innovative activity of transport companies, a radical renewal of transport and technical means, taking into account the development of domestic transport engineering, strengthening the role of scientific and technical support in the development of the transport industry;

- increase in the level of professional training and qualifications of transport workers, improvement of their material and social security, creation of safe working conditions;

- ensuring the reliability and safety of the functioning of the transport system, including in the field of ecology, reducing the number of accidents and disasters, injuries and deaths in transport accidents;

development and application of effective mechanisms for state regulation of the functioning and development of transport;

improvement of the investment climate in the transport industry.

At a new stage, the transport strategy should determine the active position of the state in improving the transport system of Russia as a key factor in the socio-economic development of the country. This concerns, first of all, improving the quality of transport services, reducing the total costs of society dependent on transport, increasing the competitiveness of the domestic transport system, strengthening the innovative, social and environmental orientation of the development of the transport industry.

Based on this, the goals, priorities and objectives of the strategic development of transport are formulated.

The main task of the state in the field of functioning and development of transport is defined as creating conditions for economic growth, increasing the competitiveness of the national economy and the quality of life of the population through providing access to safe and high-quality transport services, turning the geographical features of Russia into its competitive advantage.

The strategic goal of the development of the transport system is to meet the needs of innovative socially oriented development of the economy and society in competitive high-quality transport services.

The achievement of this strategic goal will be ensured through the effective development of a competitive environment in the transport industry, the creation of optimal reserves in the development of infrastructure, the achievement of an advanced level of development of engineering and technology, increased attention to social and environmental factors, and an increase in the national, economic and other types of security of the country, depending on transport.

To create an efficient competitive transport system, 3 main components are needed:

- competitive high quality transport services;

- high-performance, safe transport infrastructure and vehicles, which are needed to the extent that they will provide competitive high-quality transport services;

- creation of conditions for exceeding the level of supply of transport services over demand (otherwise there will be no competitive environment).

For the formation of high-quality transport services, it is necessary, first of all, to determine the parameters and quality standards, to provide incentives for their implementation and the creation of highly efficient technologies that meet quality standards, to work out the elements of technologies, the regulatory framework and methods of state

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regulation, to introduce a number of pilot highly efficient technologies in the regions.

It is necessary to create conditions for the development of both internal competition (between carriers, modes of transport) and external competition (with international transit systems). Internal competition will increase the rhythm and speed up the movement of goods, reduce transport costs, increase the availability of transport services, improve the investment climate and develop market relations. This will have a positive impact on the external competitiveness and realization of the country's transit potential.

Creating a market for competitive transport services involves:

- development of the regulatory framework in the field of transport services (safety, environmental friendliness, quality of transport services, development of methods of state regulation of the market). At the same time, the creation of effective feedback in the form of a system of control and supervision is of paramount importance for regulation;

- development of a high-performance transport and logistics infrastructure that ensures a competitive level of transport services (primarily commercial speed and reliability);

- achievement of the advanced level of engineering and technology that provides standards of safety, environmental friendliness, efficiency and quality of transport services.

The most important strategic direction in the development of the transport system is the balanced development of the transport infrastructure. The implementation of this direction means the coordinated integrated development of all elements of the transport infrastructure based on a comprehensive analysis of statistics and the use of mathematical methods for predicting the needs of sectors of the economy and the population in transport services, developing a statistical accounting system, building a transport and economic balance, predicting the dynamics of the cargo base, analyzing models of transport development. systems in order to select optimally balanced options.

The development of the regulatory framework should provide for the harmonization of transport legislation, integration into the global system of standards and communications, the definition of standards for the quality of transport services, responsibility for their observance, as well as consumer rights. Improving the quality of transport services will require the creation of reasonable reserves in the transport system, and this, in turn, will allow developing competition in the main directions of freight and passenger traffic.

Of particular importance for the transport strategy is the improvement of the system for providing the transport industry with labor resources,

which should ensure the design and implementation of projects for the development of transport systems, the operation of transport infrastructure and vehicles, the provision of transport and logistics services, etc.

An important role in the implementation of the transport strategy is played by increasing the manageability and controllability of transport development by increasing the efficiency of state regulation and management methods, and developing project management mechanisms.

In accordance with these main strategic directions of development, the structure of the main targets of the Transport Strategy of the Russian Federation for the period up to 2035 (hereinafter referred to as the Transport Strategy), its goals, priorities, tasks and implementation mechanisms is being formed.

The main targets of the Transport Strategy are: general social, general economic, general transport and by type of transport activity.

General social guidelines are:

- the mobility of the population and the availability of transport services;

- reduction of accident rate, risks and security threats by means of transport;

- reducing the share of transport in environmental pollution.

General economic guidelines are:

- provision by the transport industry in full of high-quality transport services that ensure the planned growth rates of the gross domestic product;

- competitive level of specific transport costs in the price of final products;

- increasing the commercial speed and rhythm of the promotion of consignments of goods;

- use of innovative technologies for the construction and maintenance of transport infrastructure;

- implementation of an effective state tariff policy;

- use of modern mechanisms for the development of an economic competitive environment, including public-private partnerships;

- coordination with strategies and programs for the development of related industries.

General transport landmarks are:

- development of the transport network in accordance with the needs of the economy and society;

- increasing the productivity and profitability of transport systems;

- increasing the return on assets of the transport infrastructure;

- reduction of energy intensity;

- creating priority competitive conditions for national carriers and increasing their competitiveness;

- innovative commodity transport technologies corresponding to the best world achievements;

- preparation for transportation of high-tech products;

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formation of the necessary conditions for investing in the transport industry, ensuring its development at a faster pace;

development of transport engineering and allied industries - suppliers of resources to the level necessary for the implementation of the Transport Strategy.

By type of transport activity, the guidelines are:
until 2035 - addressing issues related to the elimination of "bottlenecks", the development of throughput and transportation capabilities in accordance with federal targeted programs, as well as strategies and concepts for the development of various types of transport;

from 2024 - adjustment of these strategies and concepts, development of federal targeted programs in accordance with the results achieved, new conditions and the Transport Strategy in order to develop a single comprehensive integrated balanced transport system that meets the needs for high-quality competitive transport services.

The main targets by types of transport activities for the period 2024-2035 are determined by the federal target program "Development of the transport system of Russia (2024-2035)" and its subprograms by types of transport. It is envisaged that the main targets for the types of transport activities should be updated in accordance with the goals and objectives of the Transport Strategy. It is advisable to carry out these adjustments in 2024, taking into account the results achieved and new features of transport development. The objectives of the development of the transport system in Russia are as follows.

Goal 1. Formation of a single transport space in Russia based on the balanced development of an efficient transport infrastructure.

Achieving this goal will ensure the dynamic growth of the Russian economy, social development and strengthening of ties between its regions by eliminating territorial and structural imbalances in transport, involving new territories in the economic turnover by creating additional transport links, increasing the competitiveness and efficiency of other sectors of the economy by providing opportunities unhindered entry of business entities to regional and international markets, the growth of entrepreneurial and business activity, which directly affects the quality of life and the level of social activity of the population.

The single transport space of Russia should ensure the functioning of a single balanced system of transport communications, an integrated system of commodity transport technological infrastructure for all modes of transport and cargo owners, the use of uniform standards for the technological compatibility of various modes of transport that optimize their interaction, uniform standards for the technical compatibility of various modes of transport and vehicles, as well as create a unified information

environment for the technological interaction of various modes of transport.

Thus, within the framework of this goal, the development of transport infrastructure refers not only to the development of transport communications and hubs. A qualitatively new level of system development is assumed within the framework of a single transport space in combination with a commodity transport technological infrastructure, transport infrastructure of cargo owners, technical compatibility standards, as well as an information environment for the interaction of various modes of transport.

Within the framework of this goal, at the first stage of the implementation of the Transport Strategy, the construction and reconstruction of the main directions of roads and railways, the infrastructure of sea and river ports, inland waterways and airports, the elimination of the most significant gaps and "bottlenecks" of the transport network, including in the Asian parts of Russia. The development of transport approaches to border checkpoints and large transport hubs will be ensured, their comprehensive development in the main directions of transportation will be ensured. Infrastructural conditions will be created for the development of potential points of economic growth, including the integrated development of new territories and the development of mineral deposits, primarily in Siberia and the Far East.

At the next stage of the implementation of the Transport Strategy, within the framework of this goal, a transition to the formation of a single transport space in Russia will be ensured. Based on the differentiated development of communication routes for all types of transport, the creation of a single balanced system of transport communications of the country will be ensured. The throughput and speed parameters of the transport infrastructure will be raised to the level of the best world achievements, the share of high-speed communications will be increased. In order to form a modern commodity distribution network that ensures the volume and quality of transport services, an interconnected integrated system of commodity transport technological infrastructure for all types of transport and cargo owners, an integrated system of logistics parks will be created on the territory of the country, as well as a unified information environment for the technological interaction of various modes of transport and participants in the transport process. During the development of the transport system, innovative technologies for the construction, reconstruction and maintenance of infrastructure will be mastered.

Goal 2. Ensuring the availability, volume and competitiveness of transport services according to quality criteria for cargo owners at the level of the needs of the innovative development of the country's economy.

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Achieving this goal will make it possible to fully meet the needs of the population and business entities in high-quality transport services through the introduction of advanced transport technologies and the development of passenger and freight rolling stock fleets, as well as to ensure the provision of transport services of social and economic significance of proper quality and at affordable prices.

Achieving this goal involves, first of all, the development and implementation of a model of the transport services market for the needs of all sectors of the economy. This model is innovative for the domestic transport system. It should define the parameters of the quality of transport services, the framework of quality standards for various categories of goods and sectors of the economy, the requirements for the development of the regulatory framework in the field of transport services and technological models for ensuring the quality of transport services.

In order to form a market for competitive transport services, it is necessary to create conditions for the excess of the supply of transport services over demand, as well as launch the "price - quality" mechanism, which will ensure the formation of a competitive environment and the growth of competitiveness.

Motivation mechanisms for the structural modernization of existing transport systems should be developed and put into effect in order to ensure the quality of transport services, leading, in particular, to the creation of national and international competitive transport companies.

Realization of this goal presupposes the achievement of the commercial speed of movement of goods and the rhythm of their delivery "from door to door" at the level of the best world achievements. Due to this, the economy of the country is expected to reduce the costs of circulation of goods, expressed in large volumes of working capital, as well as in significant amounts of crediting goods in transit and in stock. In seaports and checkpoints across the state border of the Russian Federation, as well as in the entire terminal network, the time for processing consignments of goods will be reduced to the level of the best world achievements.

To do this, it is necessary to introduce mechanisms to motivate the use of innovative logistics technologies, develop a system of related services and fleets of freight rolling stock that provide the specified criteria for the volume and quality of transport services at the level necessary for the implementation of the Transport Strategy. It is necessary to develop and experimentally develop highly efficient commodity transport technologies that provide quality criteria for the entire range of transport services and increase the productivity of the transport system. An important role will be played by the expansion of the use of container transportation

technologies, including for regional and interregional transportation, small and medium-sized businesses.

Goal 3. Ensuring the availability and quality of transport services for the population in accordance with social standards.

Achieving this goal means meeting in full the growing needs of the population for transportation, as well as special requirements, in particular from citizens with disabilities, ensuring a stable connection of settlements with the main network of transport communications, as well as ensuring the affordability of transport services of social importance.

First of all, within the framework of this goal, it is supposed to ensure the transportation of passengers on socially significant routes, including ensuring their affordability, including in the regions of the Far North, the Far East, Transbaikalia and the Kaliningrad region.

It is planned to develop systems of urban and suburban passenger transport, fleets of passenger rolling stock, comparable in technical and economic parameters with the world level, as well as the development of systems that provide high-speed and high-speed transportation of passengers.

At the next stage of the implementation of the Transport Strategy, the industry should take part in the development of minimum social transport standards to ensure the possibility of movement of all segments of the population throughout the country. These standards in terms of their transport component should determine the requirements for the development of the necessary communications for all types of passenger transport, the corresponding rolling stock, indicators of the affordability of transport services for the population, as well as requirements for the frequency and schedule of transport services for each settlement.

The state policy in the field of ensuring the availability and quality of transport services for the population involves the fixing of minimum social transport standards at the legislative level and the use of mechanisms to compensate for losses in the income of transport companies resulting from state regulation of tariffs for passenger transportation.

The development and implementation of a program for the implementation of minimum social transport standards throughout the country should be ensured. At the same time, these minimum standards should provide for a progressive scale, taking into account the gradual improvement in the conditions of transport services to the population.

Goal 4. Integration into the global transport space and realization of the country's transit potential.

Achieving this goal will mean laying a solid foundation for Russia's successful integration into the global transport system, expanding the access of Russian transport service providers to foreign markets, strengthening Russia's role in shaping international transport policy, and turning the export

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of transport services into one of the country's largest sources of income.

The implementation of this goal involves, first of all, the development of technical and technological parameters of international transport corridors that ensure their competitiveness at the level of world analogues. This requires monitoring the market for the export of transport services, studying the advantages of competitors, developing a set of measures to improve the technical and technological parameters of international transport corridors, planning their development and harmonizing within the framework of international cooperation on transport corridors.

Integration into the international transport space, first of all, can be effectively implemented within the framework of the EurAsEC and the countries of the Shanghai Cooperation Organization. One of the promising ways to implement this initiative is the formation of container "bridges". In addition, integration into the global transport space involves the development of international cooperation with other international transport organizations and other trading partners of Russia, the expansion of participation in the system of international agreements and conventions in the field of transport, as well as in major international transport projects. It is also expected to develop and put into effect appropriate mechanisms of state regulation, motivating the creation of national and international competitive transport companies.

An increase in the share of participation of Russian transport organizations in the transportation of domestic export and import cargo, as well as cargo between third countries, requires the development and implementation of appropriate legislative and other regulatory methods that ensure the competitiveness of Russian transport.

In order to increase the receipt of foreign exchange funds from the export of transport products, taking into account international experience and economic interests in the protection of transport services in the national and international markets, it is planned to develop legislative standards that provide for:

- preferential (and in some cases exclusive) admission of Russian carriers to the carriage of goods for the needs of the state, constituent entities of the Russian Federation and municipalities, as well as strategic cargo;

- advantages of national carriers and forwarders over foreign ones when investing in the construction of facilities in Russia, as well as in the development of raw materials, including those developed in accordance with the Federal Law "On Production Sharing Agreements".

Goal 5. Increase the level of safety of the transport system.

The implementation of this goal will improve the safety of traffic, flights and navigation, ensure the

efficient operation of emergency rescue services, civil defense units, special services, achieve a safe level of functioning of transport infrastructure facilities, increase the level of compliance of the transport system with the tasks of ensuring the country's military security and thereby create the necessary conditions for an appropriate level of national security and reduction of terrorist risks.

Within the framework of this goal, due to a set of measures, it is supposed to achieve a level of traffic, flight and navigation safety that meets international and national requirements.

Ensuring transport security will improve the state of protection of transport infrastructure facilities and vehicles from illegal actions, including terrorist activities, that threaten the safe operation of the transport complex.

The activity of specialized emergency rescue services in cooperation with the Ministry of the Russian Federation for Civil Defense, Emergency Situations and Elimination of Consequences of Natural Disasters will be carried out at the level of international and national requirements.

The level of protection of the transport infrastructure and vehicles from acts of unlawful interference will be increased, a higher level of security for the transport of goods requiring special conditions will be ensured.

The implementation of measures to ensure the military security of the Russian Federation in order to timely meet the needs of the military organization of the state in transport services will make it possible to achieve the required level of mobilization readiness of public transport (including dual-use facilities), stocks of state and mobilization reserves, preparation of a set of measures for technical cover and restoration all types of transport communications, preparation and maintenance of all types of vehicles.

In addition to the means and measures of direct transport security, the development of means and effective systems of supervision in the field of transport is of great importance in achieving this goal. Without their improvement, management in the field of ensuring the safety of the transport system will be deprived of effective feedback.

The level of safety of the transport system within the framework of this goal will be increased through the development of systems for professional admission to transport activities through licensing or declaration (notification).

An important role in achieving a high level of safety should also be played by meeting the needs of the transport complex for specialists with a high level of professional training that meet the requirements for the safety and stability of the transport system.

Goal 6. Reducing the harmful impact of transport on the environment.

Achieving this goal will contribute to creating conditions for reducing the level of technogenic

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impact of transport on the environment and human health and ensuring compliance with international environmental standards for the industry.

To this end, it is planned to develop and put into effect mechanisms of state regulation that provide motivation for the transfer of vehicles to environmentally friendly fuels, as well as a decrease in the level of energy intensity of transport to the level of indicators of advanced countries.

An important reserve for reducing the volume of impacts, emissions and discharges, the amount of waste in all modes of transport is the professional training of personnel operating vehicles. Another reserve for reducing the harmful effects of transport on human health within the framework of this goal is the rationalization of traffic routes.

The implementation of these goals involves the implementation of a set of research subprograms that ensure the development of new models, methods, technologies, tools and systems. These works form the scientific support of the Transport Strategy. The introduction of developments, the implementation of projects and activities is provided for within the framework of a set of subject subprograms aimed at achieving the specified general economic, general social and general transport strategic targets, as well as within the development subprograms by modes of transport and subprograms aimed at putting into operation the main mechanisms for the implementation of the Transport strategies.

Goals for the development of the Russian transport system for the period up to 2035 and the values of the indicators for the implementation of the Transport Strategy, for which statistical information is currently available.

In addition, it is planned to carry out research work on the creation of statistical tools, monitoring and evaluation of values for such new indicators as:

- reserve capacity of the transport network by type of transport in the main directions of freight and passenger traffic;

- commercial speed of movement of main commodity flows;

- urgency of cargo delivery;

- the level of containerization of transported goods;

- development of transport and logistics technologies;

- specific transportation costs in the final price of products;

- ensuring the affordability of transport services for the population;

- the level of security of the state of transport infrastructure facilities;

- reducing the energy intensity of the transport system.

The implementation of the goals of the Transport Strategy will ensure the satisfaction of the needs of the innovative socially oriented development of the

Russian economy and society in high-quality competitive transport services. The main expected results of the implementation of the Transport Strategy were assessed by groups of main targets.

The general social results of the implementation of the Transport Strategy are:

- ensuring the availability and quality of transport services for all segments of the population in accordance with social standards that guarantee the possibility of movement throughout the country;

- increasing the mobility of the population to 13.2 thousand km per person per year, which is 2.2 times higher than in 2018 (the current level of developed countries is more than 10,000 km);

- ensuring a permanent year-round connection of all rural settlements with development prospects via paved roads with a network of public roads;

- reducing the proportion of the population without access to public transport services to 2 percent by 2035 (up to 10 percent in 2010);

- ensuring the affordability of transport services for all segments of the population in accordance with social standards, including through an effective flexible state tariff policy. The coefficient of availability of air transportation will increase in 2010 - 2035 - from 1.75 to 5;

- a significant reduction in accidents, risks and security threats for all modes of transport. The number of deaths per year in road traffic accidents per 100 thousand people will be reduced from 23.5 people to 8 people, that is, almost 3 times. The number of air crashes per 100,000 flight hours on regular flights in 2035 will decrease from 0.18 to 0.008 (0.01 in the USA);

- a significant reduction in the harmful effects of transport on the environment. The volume of emissions and discharges of harmful pollutants from the motor transport complex will be reduced by 40 percent, in railway transport - by more than 3 times.

The general economic results of the implementation of the Transport Strategy are:

- reduction in the level of specific transportation costs in the price of products by 2035 by 30 percent;

- increase in the commercial speed of promoting goods by road transport up to 1400 km/day, and by rail transport (container transportation) - up to 1000-1200 km/day;

- increasing the timeliness (urgency, rhythm) of the delivery of goods will reach the level of developed countries, which will reduce stocks for guaranteed commodity production to 3-6 days;

- increase in the export of transport services by 2035 by 7.8 times. Transit traffic through the territory of Russia will increase from 28 million tons to 100 million tons;

- ensuring the planned growth rates of the gross domestic product by providing organizations and the population with the full volume of necessary high-quality transport services;

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providing incentives for the intensive development of related industries in the country's economy through coordination with strategies and programs for the development of related industries - suppliers of resources for the development and operation of transport.

The general transport results of the implementation of the Transport Strategy are:

significant (by 2 - 4 times) increase in the productivity of transport systems. The share of time for the movement of goods in transit will increase to 16 - 20 hours a day (by road transport in international and intercity traffic);

increasing the return on assets of transport infrastructure and increasing profitability;

reduction by 30 percent of the level of energy intensity of transport;

creation of a backbone network of public roads of federal significance, connecting all administrative centers of the constituent entities of the Russian Federation along a paved road network, transformation of the structure of the road network from radial to network;

ensuring the passage of vehicles with an axle load of 11.5 tons along federal highways that are part of international transport corridors along their entire length;

ensuring the increase of competitiveness of national carriers. The share of Russian carriers in the volume of international road transport of goods will increase from 41 percent in 2021 to 50 percent in 2035, and the share of foreign trade transportation by ships under the Russian flag will increase from 6 to 40 percent. The share of Russian-flagged ships in the total deadweight of the Russian-controlled sea transport fleet will increase from 38.5 percent in 2021 to 70 percent in 2035. The share of exports in the total volume of air transport services of Russian airlines will increase from 14 percent in 2018 to 29 percent in 2035;

introduction of innovative commodity transport technologies that correspond to the best world achievements, ensuring the optimization of technological interaction between various modes of transport and all participants in the transport process. By 2035, the delivery time of goods in multimodal (mixed) traffic will be reduced by 25 percent compared to 2017;

development of a competitive environment, public-private partnerships, purposeful formation of conditions for investment will ensure an intensive growth of the investment attractiveness of the industry.

The transport industry at the turn of 2035 will become a backbone industry, growing at a rate that outpaces the growth rate of the national economy. The industry will come to a competitive position in terms of the level of specific transport costs, safety, environmental friendliness and quality of transport

services. The level of developed countries will be reached in terms of commercial speed and timeliness of delivery of goods, availability of transport services for the population. The formation of a unified transport system in Russia, its integration into the world transport system will ensure an increase in the efficiency of transport services within the country, the growth of their exports, a more complete realization of the transit potential, and the satisfaction of the needs of the economy and society in high-quality and competitive transport services. Tasks for the development of the transport system Russian Federation for the period up to 2035.

1. Formation of a single transport space Russia on the basis of balanced development of effective transport infrastructure.

The main objectives of the Transport Strategy in the formation of a single transport space of Russia based on the balanced development of an efficient transport infrastructure are:

elimination of gaps and "bottlenecks" in the transport network, including in the Asian part of Russia;

development of transport approaches to major transport hubs and border checkpoints;

integrated development of large transport hubs in the main directions of transportation;

formation of a single road network, year-round accessible to the population and business entities;

creating conditions for economic growth, including the integrated development of new territories and the development of mineral deposits, primarily in Siberia and the Far East;

creation of a unified balanced system of transport communications of the country on the basis of a differentiated development of communication routes for all types of transport;

increasing the capacity and speed parameters of the transport infrastructure to the level of the best world achievements, taking into account the creation of reasonable reserves, increasing the share of high-speed communications;

creation of an integrated system of logistics parks on the territory of the country as the basis for the formation of a modern commodity distribution network;

creation of an interconnected integrated system of commodity transport technological infrastructure of all types of transport and cargo owners, ensuring the volume and quality of transport services;

development of innovative technologies for the construction, reconstruction and maintenance of transport infrastructure;

creation of a unified information environment for the interaction of various types of transport, participants in the transport process, customs and other state control bodies.

Improvement of the infrastructure is supposed to be carried out in relation to all modes of transport.

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In the field of railway transport, it is necessary to carry out measures to modernize and develop infrastructure to eliminate bottlenecks.

Until 2025, it is envisaged:

construction of second tracks with a length of 2407.9 km, including 1478.6 km on the main routes;

construction of third and fourth tracks on the main routes with a length of 348.5 km;

development of railway approaches to seaports and border stations;

construction of bypasses for St. Petersburg, Krasnodar, Omsk, Saratov, Chita and Yaroslavl railway junctions;

electrification of sections with a length of 3918 km (including the sections Syzran - Sennaya, Trubnaya - Aksaraiskaya, Rtishchevo - Kochetovka, Yurovsky - Temryuk - Kavkaz - Taman, etc.);

equipping sections with an automatic blocking system with a length of 1851 km;

development of stations and nodes;

reconstruction of the Ulaanbaatar railway, including the electrification of the main passage with the equipment of an automatic blocking system, the laying of second tracks (100 km) and other activities.

In relation to the Moscow railway junction, it is planned:

strengthening of the head sections of the main directions of the main railways;

development of suburban and interregional transportation of passengers in luxury trains in all radial directions in communication with the regional centers of the Moscow region and neighboring subjects of the Russian Federation;

development of railways bypassing the city of Moscow for the withdrawal of transit freight traffic;

development of container technologies for the transportation of goods, the creation of a network of container terminals and transport and distribution centers that provide the supply of Moscow and the Moscow Region with goods and the formation of network cargo flows;

organization of railway communication between the airports of the Moscow Aviation Hub and the railway stations of Moscow;

organization of passenger traffic along the small ring of the Moscow railway with the organization of transfer points to radial railway lines and metro stations.

In 2025 - 2035, it is envisaged:

construction of second tracks with a length of 3055.6 km;

construction of bypasses of the Irkutsk, Perm, Novosibirsk railway junctions, a deep bypass of the Moscow railway junction (third ring), a northern bypass of the Sverdlovsk railway junction;

electrification of sections with a length of 3580 km (including sections Kandra - Inza, Ulyanovsk - Syzran, Sonkovo - Dno - Pechory-Pskov, etc.);

equipping sections with an automatic blocking system with a length of 3128 km;

strengthening and reconstruction of railway lines and sections;

liquidation of restrictions on the capacity of network sections caused by the defectiveness of large artificial structures, through their reconstruction and construction of new ones;

replacement and modernization of power supply facilities equipment for 50.9 thousand km of the extended length of the contact network, for 40.7 thousand km of main directions, including the modernization and reconstruction of 763 traction substations, modernization of the automatic blocking system with a length of 1171.4 km;

equipment of double-track and multi-track hauls on the main directions with a length of 11,515 km with permanent devices for organizing traffic along the "wrong" track according to the signals of a locomotive traffic light;

modernization and increase in the capacity of the digital technological communication network at the 12,600 km test site;

replenishment and renewal of materials and structures for the technical cover of railway transport facilities, restoration of the railway infrastructure in the Chechen Republic;

organization of intermodal communication on the section airport Mineralnye Vody - Mineralnye Vody - Kislovodsk with the reconstruction of railway lines;

modernization of the section Ussuriysk - Grodekovo with laying of second tracks 48 km long on the limiting section;

modernization of the section Ulan-Ude - Naushki to ensure transportation in the direction of the Ulan-Bator railway.

In order to ensure the safe and uninterrupted movement of trains with established speeds and loads until 2025, it is necessary to carry out:

reconstruction of the tunnel under the river. Cupid near the city of Khabarovsk;

construction of a second bridge across the river. Ob in the section Ryama - Kamen-on-Obi, in the section Sayanskaya - Koshurnikovo to reconstruct 3 tunnels - the First Dzhebsky, Krolsky and Mansky;

reconstruction of the Kiparisovsky, Obluchinsky, Vladivostok, Lagar-Aulsky tunnels on the Trans-Siberian Railway;

reconstruction of bridges across the rivers Zeya, Bureya and the bridge at 125 km of the section Uglovaya - Nakhodka;

reconstruction of the Bolshoi and Maly Novorossiysk tunnels;

reconstruction of tunnels at the sections Krivenkovskaya - Belorechenskaya and Tuapse - Adler;

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reconstruction of bridges across the river. Volga in the section Aksaraiskaya - Astrakhan, across the river. Kamu in the Perm Knot;

build a second bridge across the river. Shuya on the stretch Myagrenka - Kem direction St. Petersburg - Murmansk;

reconstruction of the bridge over the river. the Volga in the Ulyanovsk-Tsentralny - Akbash section of the Bugulma passage, as well as the bridge in the Syzran - Bezenchuk section due to the heavy load of the Kropachevsky passage;

reconstruction of the bridge over the river. Turu on the section Egorshino - Tavda;

reconstruction of bridges across the river. Oka on the section Zhilevo - Necklace, across the river. Don on the Liski - Rossosh section and the bridge on the Lev Tolstoy - Yelets section.

In 2025 - 2035 it is necessary to carry out:

construction of the second bridge crossings over the river. the Volga in the Ulyanovsk - Dimitrovgrad, Anisovka - Saratov sections and the third bridge crossing in the Kinel - Syzran section;

construction of the second bridge crossings across the rivers Ob, Bolshoi Salym, Demyanka to increase the throughput capacity of the Tobolsk-Surgut cargo-forming line;

construction of the second bridge crossing near the city of Blagoveshchensk on the section Belogorsk - Blagoveshchensk.

In the field of railway transport, it is necessary to carry out a significant amount of work on the arrangement of border crossings for the effective implementation of measures to implement border, customs and other types of control. For this, the construction of buildings and structures, the development of access roads, the installation of lighting, and the installation of fences are envisaged.

In addition, it is necessary to create reserves for the capacity of railway checkpoints to ensure the stable operation of railway transport in the face of fluctuations in freight traffic, which may be caused by market changes in world commodity markets.

It is possible to implement these measures only on the basis of an integrated program approach to the development of the state border, taking into account the use of funds from both budgetary and non-budgetary sources.

The solution of the problem of improving the efficiency of the functioning of railway border crossings should be carried out until 2030 as part of the implementation of federal targeted programs for the development of the state border of the Russian Federation for the relevant periods.

As part of the implementation of international activities by the open joint-stock company Russian Railways, the following major projects are expected to be implemented:

organization of a direct railway connection Moscow - Bratislava - Vienna (1520 mm gauge) and

the creation of a logistics and provider center in the region of Vienna;

creation of logistics centers at the junction points of lines with different gauges and in the seaports of the Far East to ensure trade between the Russian Federation and Japan, the Republic of Korea and other states of the Asia-Pacific region;

reconstruction of a section of the North Korean railway Khasan - Rajin (gauge width 1520 mm) with access to the Trans-Siberian Railway and the creation of a container terminal in the city of Rajin (Korean Democratic People's Republic).

In the field of railway transport, it is necessary to build 20,730 km of new lines by 2035, of which the length of high-speed railway lines by 2030 may be more than 10 thousand km, and high-speed lines - more than 1,500 km.

The priority areas for organizing high-speed and high-speed traffic until 2015 include Moscow - St. Petersburg (with a maximum speed of 200 km/h at the first stage, and later up to 250 km/h), St. stage 160 km / h, and later up to 200 km / h), Moscow - Nizhny Novgorod (with a maximum speed of 160 km / h).

After 2025, it is planned to organize high-speed traffic (140 - 160 km / h) in the directions Moscow - Smolensk - Krasnoye, Moscow - Kursk, Moscow - Kaluga - Bryansk (Suzemka), Moscow - Yaroslavl, Moscow - Ryazan - Michurinsk - Saratov, Rostov - Krasnodar, Rostov - Mineralnye Vody, Krasnodar - Mineralnye Vody, Novosibirsk - Omsk, Novosibirsk - Tomsk, Novosibirsk - Kemerovo, Novosibirsk - Barnaul, Novosibirsk - Novokuznetsk, Yekaterinburg - Chelyabinsk, Samara - Saransk, Samara - Penza, Samara - Saratov, Saratov - Volgograd, Ussuriysk - Vladivostok, Vladivostok - Khabarovsk.

One of the most priority areas for organizing high-speed passenger train traffic is the direction Center - South (Moscow - Adler). In order to organize high-speed traffic in this direction, it will be necessary to modernize the infrastructure of railway lines to ensure a speed of 160-200 km/h, as well as to build a connecting line with the Voronezh passage (Prokhorovka-Zhuravka section), the Zhuravka-Chertkovo section and a bypass of the Rostov railway junction with the construction bridge over the river Don.

To meet the growing needs of the population in transportation, it is planned to build socially significant lines with a total length of more than 1.2 thousand km. It is planned to build the Volgograd - Elista line in the Southern Federal District, the Khanty-Mansiysk - Salym line in the Urals Federal District, the Biysk - Gorno-Altaysk line in the Siberian Federal District, and the Tygda - Zeya and Selikhin - Nysh lines in the Far Eastern Federal District.

It is envisaged to carry out measures to develop railway infrastructure facilities that ensure the functioning of the passenger complex (primarily railway stations and railway stations), in order to

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ensure high-quality train preparation, passenger traffic safety and a high level of comfort and service. These works should be carried out as part of the development of general schemes for the development of passenger complexes of large transport hubs.

To meet the growing demand for passenger transportation to the southern regions of the country, it is planned to carry out a phased modernization of the infrastructure of the main directions of the Russian railway network to organize the regular circulation of passenger trains up to 22-24 wagons in length.

The priority directions for running passenger 2-deck cars include St. Petersburg - Moscow, St. Petersburg - Vologda - Kirov - Sverdlovsk, Moscow - Nizhny Novgorod, Moscow - Kazan, Moscow - Ryazan - Samara, Moscow - Tambov - Saratov, Moscow - Voronezh - Rostov - Adler (Anapa - Novorossiysk), Rostov - Kislovodsk.

The tasks in the field of development of the road network are:

- creation of a system of motorways and express roads, primarily in the directions of international transport corridors;

- construction of new and reconstruction of existing roads to increase the capacity of the road network, taking into account the predicted traffic intensity;

- development of motor roads of federal importance on the approaches to international automobile checkpoints on the state border of the Russian Federation, to sea and river ports, airports, major transport hubs;

- elimination of "bottlenecks" on the network of federal highways through the reconstruction of artificial structures, the construction of interchanges at different levels, the elimination of soil gaps and a transitional type of pavement;

- the inclusion of new routes in the network of federal highways with the expansion, if necessary, of their composition at the expense of highways of regional, intermunicipal and local significance;

- creation of a road network to ensure the development of potential points of economic growth, including the integrated development of new territories and the development of mineral deposits, primarily in Siberia and the Far East;

- development of the road network in large transport hubs;

- Arrangement of sites for service and repair of vehicles, parking lots and rest areas for drivers.

The development of a network of federal highways that are part of international transport corridors will be focused on ensuring free passage of vehicles with a load on the drive axle of 11.5 tons and a total weight of up to 44 tons.

In 2025 - 2035, it is envisaged:

- construction and reconstruction of about 8 thousand km of public roads of federal significance,

- including 3.5 thousand km of roads that are part of international transport corridors;

- construction and reconstruction of 1.9 thousand km of toll highways and express roads, including the Moscow-St. Petersburg express highway, the Central Ring Road in the Moscow Region, the M-4 "Don" highway Voronezh region);

- construction and reconstruction of 190 km of roads at the entrances to 32 automobile checkpoints;

- conducting engineering surveys to justify the phased creation of a number of new international and interregional road routes, including:

- St. Petersburg - Vologda - Kazan - Orenburg and further through the Republic of Kazakhstan to Western China;

- Moscow - Saransk - Ulyanovsk - Yekaterinburg; Perm - Ivdal - Khanty-Mansiysk - Tomsk (Northern latitudinal corridor);

- construction and reconstruction of 10,000 km of regional roads with co-financing from the federal budget;

- providing 3.3 thousand rural settlements with hard-surfaced entrances (all settlements with a permanent population of more than 125 people and the absence of a year-round connection with the network of public roads over the shortest distance of no more than 5 km);

- solution of priority transport problems of Moscow, St. Petersburg and Sochi transport hubs.

The formation of a promising road network in Russia in 2016 - 2035 provides for the inclusion in the network of federal roads:

- new directions of highways that are part of the routes of federal importance, providing interregional communication and allowing the integration of a disconnected road network of individual regions into a single transport system of Russia:

- Center - Ural (Moscow - Saransk - Ulyanovsk - Yekaterinburg);

- "Europe - Western China" (St. Petersburg - Vologda - Yoshkar-Ola - Kazan - Orenburg - border with the Republic of Kazakhstan);

- "North-West - Siberia" (St. Petersburg - Kotlas - Syktyvkar - Perm - Khanty-Mansiysk - Tomsk);

- "North-East - Polar Urals" (Syktyvkar - Vorkuta with an entrance to Naryan-Mar);

- "Ural Industrial - Ural Polar" (Tyumen - Salekhard);

- highways connecting the administrative centers of the constituent entities of the Russian Federation over the shortest distance, including the highways Syktyvkar - Arkhangelsk - the border of Finland, Kazan - Perm, Abakan - Gorno-Altai - Barnaul, Pskov - Smolensk and others;

- regional highways that are part of international transport corridors and provide access to automobile checkpoints "Mamonovo-2", "Ubylinka", "Krupets", "Ozinki", "Karaozek" and others;

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highways providing motor transport connection of subjects located in the north-east of the country with the road network of Russia: Khabarovsk - Nikolaevsk-on-Amur (with an entrance to Komsomolsk-on-Amur), Yuzhno-Sakhalinsk - Tymovskoye - Okha - Moskalvo port;

highways providing access from the federal network of Russia to the seaports of Olya, Vanino, Vostochny and others;

highways that ensure the unloading of large transport hubs (for example, the creation of roads connecting, bypassing Moscow, the administrative centers of the subjects of the Russian Federation neighboring the capital, for example, Kaluga - Tver - Vladimir - Ryazan - Tula, which will significantly relieve the Moscow transport hub).

Modernization of existing and construction of new roads in the regions of the North and new development of Kolyma, Lena, Vilyuy, Salekhard - Novy Urengoy - Surgut are envisaged, which will help ensure Northern delivery and improve the socio-economic situation in the region.

A comprehensive modernization and development of the road network is planned in the largest transport hubs in Russia - the cities of Nizhny Novgorod, Kazan, Yekaterinburg, Perm, Rostov, Novorossiysk, Murmansk, Vladivostok and others.

It is planned to build and reconstruct in 2016-2035 more than 7,000 km of roads that form a system of toll highways and express roads, including:

construction of a high-speed highway Moscow - Rostov-on-Don - Novorossiysk;

reconstruction of the highway M-10 "Scandinavia" on the section St. Petersburg - Vyborg - the border of Finland with the organization of paid travel;

construction and reconstruction of road sections forming the road route, Moscow - Tula - Orel - Kursk - Belgorod - border with Ukraine;

construction and reconstruction of road sections forming the road route, Moscow - Smolensk - border with the Republic of Belarus;

construction and reconstruction of road sections that form the road route, Moscow - Nizhny Novgorod - Kazan - Chelyabinsk - the border with the Republic of Kazakhstan with a branch Chelyabinsk - Yekaterinburg;

construction and reconstruction of road sections forming the road route, Moscow - Yaroslavl - Vologda;

construction and reconstruction of road sections that form the road route St. Petersburg - Pskov - the border with the Republic of Belarus (automobile checkpoint "Lobok").

The implementation of measures to develop the road sector in 2025 - 2035 will achieve the following results:

increase in the density of the public road network from 5.1 km per 1000 people in 2021 to 10 km per

1000 people in 2030 and from 42.6 km per 1000 sq. km in 2021 to 79 km per 1000 sq. km in 2035;

an increase in the length of public roads of federal significance that meet the regulatory requirements for transport and operational indicators from 37.5 percent in 2021 to 80 percent in 2035;

an increase in the share of the length of public roads of the highest categories (I and II) in the total length of federal roads from 47.8 percent in 2021 to 80 percent in 2035;

an increase in the length of public roads of federal significance serving traffic in the overload mode will increase from 12.8 thousand km in 2021 to 14.2 thousand km in 2035 (from 27.3 percent to 15 percent of the total length of federal roads values);

providing about 20 thousand prospective rural settlements with permanent year-round communication with the network of public roads on paved roads by 2035;

transformation of the configuration of the federal highway network from radial to network, which will create additional bandwidth reserves.

In the field of road transport, it is necessary to carry out measures to develop the infrastructure for passenger transportation, including the creation of high-speed connections.

The placement and arrangement of infrastructure facilities for public passenger transport (terminal and intermediate stopping points, bus stations, bus stations, interchange nodes, dedicated lanes and streets for the movement of route transport, etc.) should have an advantage in solving land use issues.

In order to reduce the time of transport communication in 10 cities of Russia, development and implementation of pilot projects will be carried out to separate traffic flows and bus transport in space by allocating special lanes and streets for the movement of fixed-route passenger transport, as well as to separate these flows in time through the use of traffic control methods that provide priority for public transport traffic.

Until 2035, it is planned to develop a dedicated infrastructure for public passenger transport, including the development of new for Russia projects for the construction of route bus routes.

The main projects for the construction of new interchange hubs integrated into the transport communications of other modes of transport (railway, air, water) will be implemented by 2020. By this period, it is planned to build up to 60 new bus stations and about 900 bus stations. As part of the development of private investment projects, the network of specialized service centers will expand.

It also provides for the construction of cargo terminals and transport and logistics centers, service stations and repair of vehicles, parking lots, as well as campsites and hotels in the roadside zone.

In the field of air transport, it is planned to increase the number of operating airports to 357 by

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2020, if by 2025 it is possible to reverse the trend towards a reduction in the airfield network and maintain at least 315 airfields as a result of an active investment policy. By 2035, the airfield network should include more than 500 airports, mainly due to the development of regional air transport infrastructure.

A special place in the modernization and development of the ground infrastructure of air transport will be occupied by the national backbone network of airfields, consisting of airfields of international and domestic hub airports and non-hub airports that ensure network connectivity, strategic unity and security of aviation communications. It is envisaged to form a three-level network of airfields according to the types of served lines, including airfields of federal, regional and local significance.

The organization of air transportation on the basis of hub airports, which ensure the concentration and distribution of passenger and cargo flows, will allow optimizing the route network, increasing the efficiency of transportation, and specializing airports. Regional and local airports are an integral part of the nodal scheme for servicing air transportation.

The development of socially significant airfields (airports) is envisaged, a significant part of which is located in the northern regions and the Far East.

Until 2035, it is planned to implement:

- development of the ground infrastructure of airports included in the national core airport network;
- construction and reconstruction of facilities at major international hub airports of the Moscow Aviation Hub (Domodedovo, Vnukovo, Sheremetyevo), in the cities of Yekaterinburg, Novosibirsk, Khabarovsk, Krasnoyarsk, Samara, St. Petersburg, Kaliningrad and others;

- construction and reconstruction of facilities at the airports of Volgograd, Omsk, Blagoveshchensk, Nizhny Novgorod, Ufa, Perm, Chelyabinsk, Sochi, Anapa, Mineralnye Vody, Astrakhan, Penza, Saratov, Nizhnevartovsk, Barnaul, Magnitogorsk, Kemerovo, Novokuznetsk, Bratsk, Voronezh, Vorkuta, Khanty-Mansiysk, Bykovo airport and others;

- equipment of airfields in accordance with the requirements of I, II and III categories of the International Civil Aviation Organization;

- creation of infrastructure for business aviation;

- creation of 12 consolidated air traffic management centers (Moscow, St. Petersburg, Rostov, Samara, Yekaterinburg, Tyumen, Novosibirsk, Krasnoyarsk, Irkutsk, Yakutsk, Khabarovsk, Magadan) and modernization of the Kaliningrad integrated air traffic management center;

- modernization of the air traffic management system, development of meteorological support for air navigation and a unified system of aerospace search and rescue.

In 2025 - 2035, it is planned to develop the infrastructure of airports that are not part of the core

network, and maintain the operational readiness of the airports of the core network.

Further development of the infrastructure of the air navigation system of Russia is envisaged through the construction of new and reconstruction of existing facilities.

An important task is to ensure a balanced development of the entire air transport infrastructure - ground air transport infrastructure, civil aviation fuel support systems, aircraft maintenance and repair infrastructure, air navigation services and meteorological support for aircraft flights, aerospace rescue systems, medical support for flights and non-aviation airport business.

It is necessary to implement systematic measures to adapt airports in the regions of the North, Siberia and the Far East of the country in order to operate modern aircraft for regional transportation at low temperatures, complete the range of aviation fuels and lubricants, create centralized aircraft refueling systems and equip them with technological equipment for processing air ships with anti-icing fluids that ensure the safety and regularity of flights.

In the field of maritime transport, it is necessary to develop the capacities of seaports, taking into account the creation of economically justified reserves to ensure the increasing volumes of cargo transshipment.

Until 2035, it is planned to implement:

- in the Northern basin - reconstruction of the approach channel of the port of Arkhangelsk, development of the port of Murmansk, construction of a seaport in the city of Belomorsk;

- in the Baltic basin - the development of federally owned infrastructure facilities in the ports of St. Petersburg, Vysotsk, Ust-Luga, Baltiysk, the development of the ports of Vyborg and Kaliningrad, the construction of new transshipment complexes in the ports of the basin, including to ensure the operation of the Baltic pipeline system, creation of a modern international passenger complex in the seaport of St. Petersburg;

- in the Azov-Black Sea basin - the development of the ports of Novorossiysk, Taganrog, Kavkaz, Temryuk, Azov, Rostov-on-Don, the construction of the port of Taman, the creation of a modern international passenger complex in the seaport of Sochi;

- in the Caspian basin - the completion of the infrastructure facilities of the port of Olya, the development of the ports of Makhachkala and Astrakhan;

- in the Far East basin - the development of the ports of Vanino, Petropavlovsk-Kamchatsky, Nakhodka, Magadan, Kholmsk, Anadyr, port points of the Kamchatka Territory and the Sakhalin Region, the construction of a port near the village of Nabil and terminals that ensure the operation of the pipeline system, Eastern Siberia - the Pacific Ocean.

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Reconstruction and construction of terminals that ensure the operation of the Northern Sea Route are envisaged.

In 2016 - 2035, the development of seaports in all sea basins of the country continues. New transshipment complexes are being built, primarily in the North and Far East of the country in connection with the development of hydrocarbon deposits, including those on the continental shelf, and their export to foreign countries.

To increase the efficiency of work and increase the throughput of seaports, it is planned to link their development with the creation of a logistics system, which includes both port terminals for various purposes and terminals in large transport hubs of the country, including dry ports.

The socio-economic development of the regions of the North and the Far East of the country requires measures to strengthen the infrastructure of the Northern Sea Route.

In the field of inland water transport, the reconstruction of river ports and the reform of port activities will be carried out by:

- improving the technical condition of berthing facilities in ports, equipment of berthing and coastal facilities in cities, places of "green" parking on tourist routes;

- modernization and replacement of morally and physically worn-out handling equipment and other technical means and devices;

- creation of specialized port facilities for the development of new types of cargo flows;

- construction of new berths and terminals, primarily for the processing of containers, mineral fertilizers, chemical cargoes and liquefied gas;

- creation in river ports (in Moscow, Yaroslavl, Nizhny Novgorod, Samara, Togliatti, Volgograd, Novosibirsk, Omsk, Krasnoyarsk, Osetrovo, etc.), serving international transport corridors and working with foreign trade cargo, container terminals and logistics centers;

- overhaul and development of port railway and automobile access roads.

The development of the system of inland waterways of Russia will be carried out by:

- elimination of limiting sections of the throughput capacity of inland waterways of the Unified deep-water system of the European part of the Russian Federation;

- development of a water transport connection of the Azov-Black Sea and Caspian basins;

- complex reconstruction of inland waterways and hydraulic structures of the Ob - Irtysh, Yenisei, Lena and Amur basins;

- increasing the length of inland waterways with guaranteed dimensions of ship passages and illuminated conditions;

- creating navigable conditions for the delivery of goods to newly developed hard-to-reach areas,

primarily to the regions of the Far North, including along small and rapidly shallowing rivers;

- modernizing the technical fleet and increasing the intensity of its use to improve the parameters of waterways;

- development of communication and navigation through the modernization of existing and the introduction of new means of communication, satellite navigation and informatization.

In the field of industrial transport, it is necessary to modernize non-public tracks to ensure the processing of promising types of rolling stock of the federal railway transport with increased carrying capacity and axle loads and to improve the technology for transporting rock mass from deep pits.

Ensuring availability, volume and competitiveness transport services for cargo owners in accordance with the needs of innovative development of the country's economy.

In order to ensure the availability, volume and competitiveness of transport services for cargo owners in accordance with the needs of the innovative development of the country's economy, the following activities will be carried out:

- development of a model of the transport services market to meet the needs of all sectors of the economy, including the parameters of the quality of transport services, quality standards for transport services for various categories of goods and sectors of the economy, requirements for the regulatory framework in the field of the transport services market, technological models for ensuring the quality of transport services;

- providing motivation for the structural modernization of transport systems in order to ensure the quality of transport services, the creation of national and international transport companies that can compete in the world market, and the improvement of procedures for admission to the implementation of freight traffic;

- bringing the commercial speed of movement of goods and the rhythm of their delivery "from door to door" to the level of the best world achievements, thereby reducing the costs of circulation of goods, expressed in large volumes of working capital, as well as in significant amounts of crediting goods in transit and in stock;

- reduction in the processing time of consignments in the terminal network, including at seaports and checkpoints across the state border of the Russian Federation, to the level of world indicators;

- motivation for the use of innovative logistics commodity transport technologies, development of technologies for the transportation of goods, including the use of logistics parks;

- development of forwarding services and a system of transportation operators;

- development of a system of related services;

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development and implementation of highly efficient technologies that improve the quality of the entire range of transport services and the productivity of the transport system;

use of modern information and telecommunication technologies to ensure the quality of transport services.

The development of the transport services market requires, first of all, the formation of new transport services that meet quality requirements. To do this, it is necessary to define the parameters and standards for the quality of transport services and provide incentives for the implementation of such standards in transport. This will require market participants to create highly efficient technologies that meet quality standards, as well as quality management systems. The participation of the state in this process will require the development of an appropriate regulatory framework and methods of state regulation.

The development of a competitive market for transport services will require the creation of conditions for exceeding the level of supply of high-quality transport services over demand, as well as ensuring publicity and information openness of the market in terms of prices and quality of services. This will provide consumers with the opportunity to freely choose transport services, make the "price-quality" mechanism work, and make price and quality a subject of competition. Such a mechanism will ensure a continuous increase in the productivity of transport companies, which will contribute to their self-sufficiency. The mechanism "price - quality" will stimulate market participants to study the demand for various categories of services and analyze the level of competitors, improve the quality of transport services provided, and find the optimal balance between their price and quality.

The state policy for the formation of a competitive market for transport services provides for administrative and economic methods.

Administrative methods should ensure the regulation of the activities of natural monopolies, the access of vehicle owners, as well as freight forwarders and carriers to professional activities using licensing or declaration mechanisms (notice of obligations of a market participant).

Economic methods should stimulate the creation of freight forwarding and transport companies of all types and levels in the field of freight and passenger traffic, which could provide competitive transport services in the field of freight and passenger traffic. In particular, it is advisable to consider a mechanism for stimulating the creation of sufficiently large transport companies capable of investing in the development of highly efficient transport technologies and modern vehicles. It is necessary to provide state support for increasing the competitiveness of national transport companies.

The tariff policy should provide for a combination of free pricing mechanisms with control functions in the interests of protecting consumers from unreasonable discriminatory tariffs, and market participants from dumping tariffs.

The investment policy should be aimed at creating an efficient transport and logistics infrastructure and re-equipping companies with modern rolling stock, technical means and information systems, including on the basis of public-private partnerships.

The development of administrative methods for regulating the transport services market, as well as mechanisms for tax, tariff and investment policy of market formation, is included in the scientific support for the implementation of the Transport Strategy, and their final development, taking into account the relevant changes in the regulatory framework, should be carried out in the process of implementing pilot projects.

It is envisaged to implement measures aimed at significant structural changes in the market of transport services of railway transport, the regulatory legal framework for its functioning. This stage is an investment and innovative stage of transformations in the field of railway transport.

The main principles of formation of the market of railway transport services are:

- maintaining the network carrier as a single economic entity providing services in terms of infrastructure and transportation services;

- presence in the rail transportation market of local carriers that carry out transportation on the terms of a public contract in certain segments of the rail transportation market;

- separation of services for the provision of wagons and containers for the implementation of rail transportation from the complex service for rail transportation while maintaining the services for the provision of locomotives as part of this complex service;

- ensuring the organization of railway transportation with the participation of 2 or more railway infrastructures, and carriers;

- formation of the institution of owners of railway rolling stock (locomotives, wagons, containers, etc.) and determination of the requirements for them, as well as the legal basis for their interaction with the owners of the railway transport infrastructure, carriers, users of railway transport services;

- formation of a competitive market for passenger and cargo terminal services;

- formation of a competitive market for freight forwarding services;

- the possibility for business entities to carry out certain works and services at the request of infrastructure owners, carriers, owners of cargo and passenger terminals.

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In the field of improving the quality of transport services, it is envisaged:

an increase in the speed of delivery of freight shipments up to 350 km per day, or by 23 percent, including containers - up to 1000 km per day, or 3.5 times, containers in transit traffic - up to 1200 km per day, or 2 times, route shipments - up to 420 km per day, or by 29 percent;

increase in the share of shipments delivered within the standard (contractual) period up to 97 percent.

As new railways of general and non-public use are being built, it is necessary to form a system for regulating tariffs for their services, to improve the system of interaction between the owners of adjacent infrastructures of general and non-public use.

In the field of air transport, the main directions for improving market relations are:

reduction of monopoly areas of activity with the gradual replacement of direct regulation by market methods of regulation and control;

involvement of organizations of operators, users and their associations in the formation of requirements in terms of the provision of services and conditions for their access;

exclusion of restriction by government bodies of operators' access to the market when they meet the established requirements.

Improving the regulation of the activities of natural monopolies will be carried out in the following main areas:

completion of the separation from the market of air transport transportation and airport services, which have different characteristics and strategies for the development of competition;

improving the methods and procedure for establishing the norms and conditions for establishing the boundaries of the natural monopoly of airport activities within the framework of the core network of airports (airfields), based on ensuring the sustainable functioning of the air transport of the Russian Federation;

improving methods of real control and assessment of the actual level of competition in the airport services market;

improvement of methods of tariff regulation of natural monopolies;

limiting the competition of airport activities with the expansion of differentiation by subjects of regulation of airport charges;

introduction of regulatory procedures that make it possible to form requirements and conditions for access to the provision of airport services with the involvement of organizations of operators, users and their associations;

regulation of interaction between airports and the air traffic management system;

development of competition in potentially competitive areas of airport activity (fuel refueling,

aircraft maintenance, baggage, cargo and mail handling);

regulation of the activities of refueling companies of all airports to prevent discrimination in the service of airlines and other fuel owners, as well as to ensure transparency in the formation of aviation fuel prices and their reduction by organizing purchases through auctions involving at least 3 suppliers.

In the field of road transport, in order to improve the quality of transport services, it is planned to accelerate the movement of goods during the transportation and storage of finished products, which requires:

development, approval and implementation of new rules for the carriage of goods by road;

development and implementation of complex projects for the organization of cargo transportation on intercity routes in the most cargo-intensive directions (with the time of movement of freight vehicles on these routes at least 20 hours a day);

development of rational systems for the transportation of goods in large transport hubs to reduce empty runs, reduce vehicle downtime at loading and unloading points, increase the utilization rate of vehicle load capacity (by 2030, these transportations should account for up to 40 percent of intra-hub traffic by road).

For the development of a competitive market for transport services, it is necessary to ensure the priority development of public road transport, which has a modern production and technical base and an optimal structure of the fleet of vehicles, taking into account the increase in its share in the transportation performed.

The share of commercial transportation of goods in the total volume of transportation of goods by road by 2035 should double, or up to 60 percent.

In the field of tariff regulation, in order to increase the availability of road transport services for consumers of road transport, it is necessary to ensure:

prevention of short-term sale of motor transport services below cost in order to obtain competitive advantages (dumping);

improvement of mechanisms for financing road safety activities.

In the field of maritime transport, in order to develop a competitive market for transport services, it is necessary to:

to increase the throughput capacity of Russian seaports and the carrying capacity of the marine transport fleet, which will make it possible to satisfy the predicted quantitative and qualitative demand for transshipment of Russian export-import cargo and international transit cargo in Russian seaports, increase the potential of foreign trade, and significantly increase the volume of exports of transport services;

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to carry out the transition in the tariff regulation of natural monopolies from the full reimbursement of all reasonable costs, taking into account the provision of profitability, to the determination of the maximum price level for a long period;

gradually abandon the regulation of tariffs for loading and unloading operations due to the development of competition in the markets.

In the field of inland water transport, in order to improve the quality of transport services, improve the safety of goods, increase the speed of delivery and reduce costs, it is planned to introduce and develop transport and technological systems adapted for intermodal transportation (container ships, ro-ro ships, universal barge towing trains).

For the development of a competitive market for transport services, it is necessary to establish economically viable and investment-attractive shipping companies by stimulating the processes of restructuring and reforming enterprises in the industry, increasing their efficiency, facilitating integration processes and the formation of large companies that can compete in the market of inland water transport services.

In the field of tariff regulation, further differentiation of tariffs is envisaged to bring the base tariff closer to objective costs. In this part, the main tasks are:

- reduction of tariffs for the transportation of bulk cargo through the use of route technologies;

- improvement of tariffs that determine the economy of progressive transportation technologies - intermodal and multimodal transportation;

- solution of issues related to regional (territorial) differentiation.

In the field of multimodal transportation, it is necessary to improve the interaction of all modes of transport in their implementation, for which bodies should be created to coordinate the work of all modes of transport and ensure their rational interaction in large transport hubs, as well as the adoption of regulatory legal acts regulating the implementation of mixed (combined) cargo transportation.

In all constituent entities of the Russian Federation, it is necessary to take measures to create a network of transport and logistics centers for the provision of transport and forwarding services, as well as to create a developed freight traffic sales network and expand the scope of services for integrated transport and logistics services with social standards.

In order to ensure the availability and quality of transport services for the population on all modes of transport in accordance with social standards, the following activities will be carried out:

- ensuring the transportation of passengers on socially significant routes, the affordability of transport services, including in the regions of the Far North, in the Kaliningrad region, the Far East and Transbaikalia, the development and implementation

of agreed schemes for the development of air transport and motor transport support for transportation along local social routes in remote regions;

- development and implementation of a program for the implementation of minimum social transport standards to ensure the possibility of movement of all segments of the population throughout the country, ensuring their implementation on a progressive scale, taking into account the improvement of conditions for transport services to the population;

- development of urban and suburban passenger transport systems;

- regulation of admission to commercial activities in the field of passenger transportation;

- development of a fleet of passenger rolling stock, which is not inferior in terms of technical and economic parameters to world analogues;

- development of systems that provide high-speed and high-speed transportation of passengers.

In the field of railway transport in the field of long-distance passenger transportation, a decision was made to stop their cross-subsidization at the expense of freight traffic and to gradually attract federal budget funds for these purposes.

The continuation of the implementation of the state policy in the field of socially significant passenger rail transportation should be the legislative provision for compensation for losses in income arising from the state regulation of tariffs for passenger transportation. At the same time, the formation of an appropriate mechanism for compensating losses in income from the implementation of state tariff regulation in the field of passenger transportation in suburban traffic should be ensured.

With an increase in passenger turnover by 32.9 percent, the quality indicators of passenger traffic will be significantly improved. The sectional speed of long-distance passenger trains will increase on the main routes up to 72 km/h, or by 18.6 percent.

Improving the availability and quality of transport services for the population should be carried out in the following areas:

- development of suburban-urban passenger communications with the transformation of railway sections into high-speed and high-speed systems to ensure comfortable travel conditions, reduce passenger travel time, unload in large cities of the subway and ground passenger transport during peak hours, which requires an increase in the number of suburban trains for radial directions in order to reduce intervals and reduce the occupancy of electric train cars during peak hours, the development of intracity transportation by intensifying the use of diametrical directions and increasing their number in the future, increasing the number of compact interchange nodes, developing interregional transportation by trains of increased comfort of the "express" type, organization of passenger transportation between megacities and

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large regional centers using trains of the "satellite" type, organization of intermodal transportation of passengers by specialized rolling stock to airports;

increasing the availability, quality and volume of services provided by railway stations;

improvement of booking systems using the Internet, as well as the introduction of cashless ticket payment systems;

further improvement of the system of state regulation of tariffs in railway transport.

In the field of road transport, it is necessary to ensure the priority development of public road transport, which has a modern production and technical base and an optimal structure of the fleet of vehicles, taking into account the increase in its share in the transportation performed.

Improving the availability and quality of transport services for the population will be carried out in the following areas:

implementation of a unified transport policy in the field of planning and management in passenger road transport, aimed at eliminating restrictions on public access to passenger road transport services;

creation of entrances to settlements, providing year-round and independent of weather and climate conditions for bus traffic;

improvement of the route network of public passenger motor transport and its arrangement, aimed at ensuring convenience for the population through the introduction of quality standards;

expanding the geographic accessibility of passenger transport by introducing minimum transport standards, including for serving persons with disabilities, and public passenger road transport in rural areas.

By 2035, new infrastructure and technological solutions will reduce the time spent by passengers on public passenger road transport by 25-30 percent compared to 2021.

In the field of tariff regulation, in order to increase the availability of transport services for the population, it is necessary to:

further development of the tariff regulation system for passenger road transport;

improving the system of providing interbudgetary transfers to the budgets of the constituent entities of the Russian Federation for the implementation of expenses to ensure equal accessibility of public transport services to the population;

determination and use of mechanisms to compensate for shortfalls in the regulation of tariffs (for example, on the basis of social state contracts for the provision of transportation on socially significant routes).

In the field of air transport, in order to improve the quality of transport services, it is planned to implement the following measures:

improving the quality of the transportation process, including the certification of Russian airlines according to the standards of the program developed by the International Air Transport Association;

increasing the comfort, frequency and regularity of flights, expanding the list of additional services (food, entertainment, communication services) and ensuring an attractive cost of an air ticket by updating the aircraft fleet and developing competition between airlines, creating aviation alliances (including participation in international ones) and low-cost airlines, equipping aircraft and airfields with equipment that enables operation in adverse weather conditions, introducing an efficient system for the maintenance and repair of new generation aircraft, which are characterized by reduced downtime when troubleshooting and troubleshooting, introducing modern passenger service technologies, including electronic ones, reducing the duration of the passenger's ground transfer to the airport by organizing an efficient transport connection between airports and settlements.

The development of a competitive market for transport services will be carried out in the following areas:

elimination of unjustified administrative and economic barriers to competition among air transport operators;

commercialization of air transport infrastructure services with the involvement of private operators;

market liberalization and improvement of mechanisms for certification, licensing and confirmation of compliance of airlines with the established requirements for admission to activities in the field of air transport, including reducing the use of quantitative quotas and replacing them with qualitative ones, differentiation of certification requirements for airlines, operators and aviation fuel supply organizations of various levels, a gradual transition to softer and more general forms of regulation, the creation of a nationwide system for regulating the time intervals of a flight at the airport (slots);

introduction of accreditation procedures for manufacturers and suppliers of aviation fuels and lubricants and special fluids that ensure the safety and regularity of flights, including the certification of aviation fuels and lubricants for the operation of aircraft at low and ultra-low ambient temperatures.

It is necessary to stimulate structural transformations in the industry in terms of business consolidation in the commercial segment of the air transport market by tightening the requirements for the quality of the work of operators, maintaining the exclusive right for Russian air carriers to perform domestic air transportation until 2020. In 2021-2035, the issue of granting foreign airlines on the territory of Russia broader commercial rights (degrees of freedom of air) may be considered.

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GIF (Australia) = 0.564
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Improving the availability and quality of air transport services for consumers will be achieved through:

- meeting the demand by expanding the range and geography of air transport services, developing the fleet of modern aircraft, bringing the structure of the supply of air transportation and aviation work to the structure of demand for them;

- improving the safety of air transport, including ecological, up to the world level;

- ensuring the availability of air transport services for the main part of the population;

- expanding the areas of rational use of civil aviation, development of general aviation and business aviation.

Increasing the affordability of air transportation will be carried out through:

- reducing the cost of transportation by developing competition between airlines, increasing the intensity of operation and optimizing the aircraft fleet;

- curbing the growth of airport charges and ground handling rates for airlines by increasing the additional income of airports from non-aeronautical activities;

- implementation of a flexible tariff policy in relation to various categories of consumers of services and classes of service, including through the creation of "cheap" airlines.

The priority is the development of commercial air transport and operations, which should meet the main demand for air transport services.

Within this market segment, the priorities of the state policy are determined on the basis of providing conditions for the development, first of all, of domestic air transportation and work, including socially significant local airlines that do not have a year-round transport alternative, as well as such main airlines that ensure the transport integrity of the state, as airlines connecting the Kaliningrad region, regions of the Far North, Siberia and the Far East with the center of the country. By 2020, the growth rate of this market segment should surpass the development of the international transportation segment of Russian airlines operating in connection with the country's airports.

In the sphere of regulation of aviation tariffs, the following tasks are solved:

- limiting tariff limits in order to ensure the availability of services for the majority of potential consumers, preventing short-term sales of air transport and air navigation services below cost in order to obtain competitive advantages (dumping) and long-term use of low prices, which deliberately exclude the possibility of quality service and ensuring the safety of air transportation or providing aviation services;

- ensuring price transparency of the market (by expanding the practice of applying the declared tariff principle);

- ensuring reasonable tariff stability for the benefit of air transport service users;

- gradual reduction in the scope of price regulation and expansion of market pricing mechanisms;

- transition to the implementation of the notification (registration) principle of setting tariffs for the services of operators in competitive market segments.

Further liberalization of tariff regulation will be carried out as the competitive environment expands and the types of activities classified as natural monopolies in the field of airport business and air navigation services are reduced due to:

- formation of rates of charges and tariffs that really reflect the costs of maintenance and intensity of use of airport facilities and the air traffic management system;

- improving the system of control and financial audit of aviation enterprises engaged in airport activities and organizations of the air navigation service system;

- ensuring adequate funding for activities to ensure flight safety and aviation security;

- increasing the investment attractiveness of airports.

Tariff regulation in the field of socially significant air transportation provides for state support for transport market entities (allowed only in cases where market mechanisms cannot ensure a sufficient level of supply of aviation services or a socially acceptable level of tariffs for them), privileged categories of passengers, socially significant air transportation (by allocating subsidies provided to airlines that ensure the implementation of socially significant air transportation).

State support for socially significant air transportation and work should be coordinated at the expense of budgets at all levels.

In the field of maritime transport, in order to increase the availability of transport complex services for the population, it is required to ensure the growth of transportation of goods and passengers on socially significant routes, which will significantly increase the level of transport provision of such regions of the country as the Far North and the Far East, including using the Northern Sea Route, transport links with the Kaliningrad region, and to ensure the predicted demand for socially significant passenger transportation by sea.

In the field of inland water transport, in order to improve the quality of transport services for passengers, it is planned to improve the organization of the transport process, the condition of the used inland waterways, navigable hydraulic structures and ships, and increase the comfort and level of service.

It is envisaged to develop business trips of passengers by replenishing the fleet with high-speed vessels and creating a market for water taxis (initially in Moscow and the Moscow region).

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To increase the availability of transport services in the field of inland water transport, the following measures should be taken:

- increase in the length of inland waterways with guaranteed dimensions of ship passages with illuminated conditions;

- reconstruction of hydraulic structures;

- elimination of the gap between the increasing demand for passenger transportation and the quantitative and qualitative characteristics of the fleet.

The main objectives of the Transport Strategy in the framework of integration into the global transport space and the realization of the country's transit potential are:

- development of technical and technological parameters of international transport corridors, ensuring their competitiveness at the level of world analogues;

- implementation of legislative and other state methods of regulation that provide assistance in increasing the share of participation of Russian transport organizations in the transportation of export and import cargo, as well as cargo between third countries;

- integration into the international transport space, primarily within the framework of the Eurasian Economic Community and the Shanghai Cooperation Organization, including the formation of container bridges, the development of international cooperation in the field of transport in other international transport organizations and with other trading partners of Russia, the expansion of participation in the system of international agreements and conventions in the field of transport;

- motivating the creation of national and international transport companies that can compete with global companies, expanding participation in major international transport projects.

The implementation of these tasks requires the development of international cooperation in the field of transport, which is a tool for realizing the national interests of the Russian Federation, ensuring its sustainable and consistent integration into the world economic system. In the next 20 years, international cooperation in the field of transport should help intensify the processes of regional economic integration, promote Russian goods and services to world markets, increase the volume and expand the geography of inbound and outbound tourism, simplify border crossing procedures, and increase the prestige of the Russian Federation in international organizations, and expanding its influence on the decisions made in these organizations.

The development of technical and technological parameters of international transport corridors, ensuring their competitiveness at the level of world analogues, requires the implementation of a set of measures to monitor the market for the export of transport services and study the advantages of the

main external competitors, develop a set of measures to improve the technical and technological parameters of international transport corridors, including issues of interaction with customs, border and other state control bodies, planning their development and coordination within the framework of international cooperation along transport corridors.

The expansion of exports of Russian transport services will be of great importance.

The main directions for solving the problems of integration into the global transport space and the realization of the country's transit potential are:

- regional transport integration;

- increasing the competitiveness of Russian suppliers of transport services in the world markets and the growth of exports of transport services;

- participation in international projects and programs aimed at developing interregional, including Euro-Asian transport links, developing international transport corridors and increasing the scale of transit traffic;

- expansion of Russia's participation in the system of international agreements and conventions in the field of transport;

- protection of Russian interests within the framework of participation in the activities of international organizations;

- expansion of bilateral cooperation in the field of transport between Russia and foreign states;

- development of comprehensive and mutually beneficial cooperation in the field of transport with the European Union, including within the framework of the Russia-European Union free trade zone being created.

Regional transport integration is one of the areas that determine the dynamics and results of regional economic integration within the CIS, the Eurasian Economic Community (EurAsEC) and the Union State.

The key direction of regional transport integration will be the formation in full of a transport union and a single transport space within the EurAsEC. Among the measures to form a single transport space of the EurAsEC, the most important will be:

- harmonization of normative legal regulation of transport activities, unification of technical standards and transport technologies in the member states of the EurAsEC, including on the basis of international norms of the EurAsEC and multilateral agreements and conventions in the field of transport;

- elimination of any discrimination of transport service providers from some EurAsEC member states to other EurAsEC member states, as well as in the field of licensing and certification when they establish transport companies, their branches and representative offices, joint ventures throughout the territory of a single transport space, that is, providing them national regime;

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ensuring free transit of passengers and cargo, efficient use of the transit and transport potential of the EurAsEC member states;

transition within the framework of the EurAsEC to the conclusion of multilateral agreements on air traffic (open skies), international road traffic, navigation on inland waterways and other international acts;

maximum use of the positive experience in the integration of transport systems accumulated in the CIS member states, especially in the field of railway transport, as well as in the field of civil aviation and the use of airspace;

creation of consultation mechanisms within the framework of the EurAsEC to coordinate foreign economic policy in the field of transport;

technical re-equipment of transport systems in order to significantly improve the use of the transport potential of the EurAsEC member states and effectively serve their population and economy, as well as ensure full transport safety and environmental protection;

unification of the principles of tariff policy formation;

unification of the terms of compulsory insurance of civil liability of carriers to passengers of aircraft and owners of vehicles to third parties;

ensuring free access of professional labor force to the market of transport services and joint training of personnel;

implementation of a unified policy in the field of transport security, transportation safety and reducing the harmful effects of transport on the environment.

Increasing the competitiveness of Russian suppliers of transport services in the world markets and the growth of exports of transport services are among the priorities of the Transport Strategy.

The development of the export of transport services is just as important a component of Russia's national product as the export of goods. In 2035, the export of transport services in value terms will increase by 6.8 times (up to 80 billion US dollars) compared to 2021.

The growth in exports of transport services should occur both by increasing the physical volumes of passenger and cargo transportation by Russian transport companies, and by increasing their competitiveness in the domestic and foreign markets for transport services and expanding access to passenger and cargo transportation between third countries.

One of the indicators reflecting the change in the competitiveness of Russian carriers and, in general, the export potential of the national transport system is the share of participation of Russian transport organizations in the transportation of export cargo to world markets, import cargo, transit cargo, as well as cargo from third countries and foreign charterers.

The policy aimed at increasing the competitiveness of Russian carriers and increasing the export of transport services is based on the principle of non-discrimination and is carried out in the following areas:

establishment and support within the framework of trade and transport policy of the state of favorable conditions for Russian exporters of transport services;

assistance in realizing the interests of Russian carriers in the global market of transport services;

creation of no less favorable regime for Russian carriers when performing customs and border procedures than for carriers of other countries;

creation of conditions for the acquisition by Russian carriers of modern transport equipment, which ensures not only competitiveness in international markets, but also the fundamental accessibility of these markets for Russian operators;

development of mechanisms for prompt response in cases where Russian carriers are discriminated against abroad;

improvement of the system of state control in the segments of the international transportation market, in which a bilateral licensing system operates.

Participation in international projects and programs aimed at developing interregional, including Euro-Asian, transport links, developing international transport corridors and increasing the scale of transit traffic is envisaged.

One of the most important economic and geopolitical advantages of Russia, which has not been sufficiently used despite the efforts made in recent decades, is the realization of the country's transit potential, including:

attracting cargo for transportation via land transport communications (railways and roads) between the countries of Asia and Europe, primarily along the Euro-Asian international transport corridors "East-West" and "North-South";

integration of inland waterways into the system of cargo transportation between the states of Central and South Asia, the Republic of Kazakhstan, on the one hand, and European states, on the other hand;

use of Russian airspace for organizing transit flights of third-country airlines on trans-Siberian, transpolar, cross-polar and other routes connecting Europe with East and Southeast Asia, as well as North America with South and Southeast Asia;

development of transfer passenger and cargo flows through the international hub airports of the Russian Federation.

The volume of transit traffic by rail, road and inland water transport through the territory of Russia by 2035 will increase by 3.6 times and reach 100 million tons per year.

To realize the transit potential of the Russian Federation, it is necessary:

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improvement of the regulatory and legal framework in order to ensure the effective development of transit traffic;

active state support of Russia's transit projects in the international arena, formation of international alliances beneficial for Russia;

planning the modernization of transport infrastructure, taking into account the increase in transit cargo flows;

support for investment projects, including international ones, aimed at the development of transit traffic;

further development of transport and customs technologies, information systems, the entire infrastructure of transit traffic, accelerating the delivery and border processing of transit cargo;

participation in multilateral projects implemented by international organizations, including the UN, and aimed at developing the potential of Euro-Asian transport links and transit cargo.

The expansion of Russia's participation in the system of international agreements and conventions in the field of transport is a tool for integrating Russia into the global transport system, increasing the competitiveness of Russian carriers, unifying technical and technological norms and standards in the transport sector, as well as harmonizing Russian legislation in the field of transport with generally accepted practice in the world. The most important for Russia is participation in agreements and conventions regulating:

road, rail, inland water transport and road infrastructure (agreements and conventions of the United Nations Economic Commission for Europe);

air transport (agreements and conventions of the International Civil Aviation Organization);

maritime transport (agreements and conventions of the International Maritime Organization).

Much work remains to be done to join a number of agreements and conventions that largely determine the modern face of a safe and efficient global transport system. Non-participation in them threatens to isolate and reduce the competitiveness of Russian transport communications and carrier companies in the global transport services market.

Protection of Russian interests within the framework of participation in the activities of international organizations and multilateral cooperation are the most effective tools in the field of solving problems and developing appropriate policies in the field of transport at the international level. Within the framework of international organizations, multilateral cooperation in the field of transport is being formed and implemented, international agreements and conventions are being developed and adopted, therefore, the active role of Russia in these organizations allows us to most effectively defend and promote the interests of the national transport system and Russian carriers.

Multilateral cooperation of Russia in the field of transport is carried out within the framework of:

international universal and specialized intergovernmental organizations;

international non-governmental organizations;

bodies of regional cooperation in the field of transport.

Of fundamental importance is the active participation of Russia in the work of such international organizations as the Inland Transport Committee of the UN Economic Commission for Europe, the UN Economic and Social Commission for Asia and the Pacific, the International Civil Aviation Organization, the International Maritime Organization, the International Transport Forum - an organ of the Economic Cooperation Organization and Development, Organization for Cooperation of Railways, Intergovernmental Council of Road Workers of the CIS States.

The largest Russian transport companies and their associations take part in the work of international non-governmental organizations, therefore their platform serves to implement a strategy for expanding the access of Russian carriers to world markets and increasing export potential. From this point of view, the most significant for Russia's interests will be the International Air Transport Association, the International Airports Council, the International Road Transport Union, the International Union of Railways, the International Federation of Forwarding Associations and other international non-governmental organizations.

It is necessary to significantly expand regional transport cooperation in the field of transport to realize the interests of the Russian transport business:

in the north-west of Russia - within the framework of the Council of the Barents Euro-Arctic Region and the Council of the Baltic Sea States;

in the south - within the framework of the Black Sea Economic Cooperation;

in the east - within the framework of the Shanghai Cooperation Organization and the Asia-Pacific Economic Cooperation.

The effectiveness of multilateral cooperation in the field of transport within the framework of international organizations will be determined not only by concrete achievements in the interests of the domestic transport system, but also by the growth of Russia's prestige in the world as a great transport power.

It is envisaged to expand bilateral cooperation in the field of transport between Russia and foreign states, the basis of which are agreements between the Russian Federation and foreign states, in particular agreements on air traffic, maritime navigation and road traffic. The main advantage for Russian transport companies will continue to be the use of preferential transportation regimes provided in accordance with these agreements.

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In the field of civil aviation, work will continue to improve the system of intergovernmental agreements on international air traffic, bringing it into line with the realities of the current stage of development of the world aviation market, standards and recommended practices of the International Civil Aviation Organization. Work should begin on open skies agreements giving designated air carriers additional commercial rights to operate international air services. Open skies agreements will be used in the first stage between Russia and the CIS member states (primarily those of them that are members of the EurAsEC).

In the field of international maritime merchant shipping, work will continue on the conclusion of new bilateral intergovernmental agreements and the renegotiation of agreements signed during the years of the USSR and containing outdated norms. Work to improve the system of bilateral intergovernmental agreements should be carried out in conjunction with the multilateral negotiation process on the liberalization of international maritime transport within the framework of the World Trade Organization.

In the field of international road communications, the improvement of the system of bilateral intergovernmental agreements will be aimed at fixing the norms that contribute to the realization of the advantages of road transport in the field of international passenger and freight transport (ensuring freedom of transit, eliminating quotas for the number of permits issued, etc.). Revision of bilateral intergovernmental agreements on international road transport with the member states of the EurAsEC will be carried out in order to liberalize the sector of international road transport of passengers and goods within the EurAsEC.

It is necessary to significantly modernize the system of international agreements on navigation on inland waterways, primarily in the context of the opening of certain sections of the inland waterways of the Russian Federation for access by ships flying a foreign flag. New bilateral agreements should be developed and concluded with those countries with which it is possible to carry out direct passenger and freight transport by inland waterways. They should reflect the conditions and procedure for mutual access of ships flying the flag of the states - parties by agreement to inland waterways and river ports, the procedure for issuing permits and the commercial rights of shipping companies.

The system of bilateral intergovernmental agreements on railway communication, formed during the years of the USSR, will be improved. After determining the feasibility of the agreement on railway communication will be renegotiated with individual states with which there is the most intensive passenger and freight exchange.

The solution of controversial problems and current issues of transport policy, the creation of conditions for cooperation between economic transport entities of various forms of ownership should be facilitated by the improvement of the work of intergovernmental commissions on trade, economic, scientific and technical cooperation between Russia and foreign states.

The most important task of the Transport Strategy is also to promote the implementation of joint transport projects concluded on a bilateral basis, both with the participation of the state and organizations independently.

The development of comprehensive and mutually beneficial cooperation in the field of transport with the European Union, which is of great importance for Russian and European business, mutual trade, investment and tourism, will continue.

Effective cooperation between Russia and the European Union will make it possible to resolve a whole range of issues arising in Russia's relations with individual member states of the European Union, as well as to find mutually beneficial forms of interaction between the parties' transport operators and their access to the Russian and single European markets.

The objectives of the Transport Strategy in terms of improving the safety of the transport system are:

- ensuring the safety of traffic, flights and navigation;

- ensuring the activities of specialized emergency rescue services in cooperation with the Ministry of the Russian Federation for Civil Defense, Emergency Situations and Elimination of Consequences of Natural Disasters at a level that meets international and national requirements;

- ensuring transport security of transport infrastructure facilities and vehicles from acts of unlawful interference;

- ensuring the mobilization readiness of the transport complex;

- ensuring the safety of transportation of goods requiring special conditions;

- ensuring professional access to transport activities by licensing or declaring (notifying);

- development of means and systems of supervision in the field of transport;

- ensuring the needs of the transport complex in specialists with a level of professional training that meets the requirements of the safety and stability of the transport system.

Implementation of the state transport policy and improvement of its efficiency in the field of ensuring transport security until 2035 will be carried out on the basis of the Federal Law "On Transport Security" and involves the implementation of a system of legal, economic, organizational and other measures in the field of the transport complex that correspond to threats on all modes of transport committing acts of

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unlawful interference, to improve the state of protection of transport infrastructure facilities and vehicles from illegal actions, including terrorist activities, including:

- accreditation of specialized organizations in the field of transport security;
- approval of the results of the vulnerability assessment of transport facilities;
- carrying out categorization of objects of transport infrastructure and vehicles;
- maintaining a register of categorized objects;
- approval of transport security plans.

The development of the Russian transport system should be focused on ensuring maximum safety, full and proactive consideration of international requirements in the field of transportation safety using formalized criteria and assessments adopted or developed in international practice.

The development of the transport system should be linked to ensuring the security and defense capability of the country.

The tasks of a unified state policy and an integrated approach to the development of the transport system, taking into account the requirements for ensuring the military security of the Russian Federation, are:

- ensuring that the level of readiness of the transport system meets the needs of the country, the Armed Forces of the Russian Federation and other troops;

- restoration and preparation of dual-use facilities, mainly by coordinating the activities of federal and regional executive authorities, optimizing planning and management;

- creation of a balanced transport system of the Russian Federation, taking into account its advanced development, including in terms of dual-use facilities, to meet the needs of the Russian Federation in peacetime and wartime, solving mobilization and special tasks;

- preparation of vehicles for use to ensure the military security of Russia;

- carrying out measures to maintain the structure of the public railway rolling stock fleet, which ensures the possibility of carrying out mass military transportation in full and on time;

- implementation of the Fundamentals of the Policy of the Russian Federation in the field of aviation and maritime activities approved by the President of the Russian Federation, the Military Doctrine and the Plan for the Construction of the Armed Forces of the Russian Federation, the National Security Concept of the Russian Federation;

- ensuring information security in transport during the performance of military and special transportation and maintaining the existing procedure for the placement of management bodies for these transportations;

implementation of the provisions of the Federal Law "On Defense", other federal laws and other regulatory legal acts of the Russian Federation that regulate issues of defense and security of the state and determine the procedure for operational equipment of the territory of the Russian Federation for defense purposes;

- development of a coordinated system of measures by the concerned state authorities of the federal, regional and local levels, including the provision of mobilization training, improvement of the regulatory framework, etc.;

- organization of the necessary training of transport workers, federal and regional executive authorities in the field of transport.

Due to the fact that most of the fleet of vehicles is privately owned, it is necessary to create conditions for the effective participation of organizations - owners of vehicles in solving mobilization tasks. The use of transport in order to solve the problems of ensuring the country's defense should not lead to a decrease in its competitiveness, especially in the market of foreign trade transportation and export of transport services.

To reduce the accident rate and the risk of possible accidents in transport, it is necessary to:

- tighten control over compliance with the regulatory requirements for the operation of vehicles, transport infrastructure and make it a mandatory condition to take these requirements into account when certifying and licensing (or declaring) activities in the transport market;

- in order to reduce the technogenic component of accidents and disasters, accelerate the write-off of physically obsolete and obsolete technical equipment that can no longer provide the necessary operational reliability;

- improve organizational, technological and executive discipline in the implementation of freight and passenger transport activities;

- increase the anti-terrorist protection of transport infrastructure facilities and vehicles by equipping them with modern video surveillance systems, other systems for controlling passengers and unauthorized entry of a person and strengthening the administrative regime approach to organizing anti-terrorist activities with the participation of law enforcement agencies and private security structures;

- to ensure in difficult weather conditions a guaranteed high-precision location of vehicles that have crashed using space systems equipped with GLONASS / GPS satellite navigation equipment, and on this basis to form regional specialized emergency rescue services in cooperation with the Ministry of the Russian Federation for Civil Defense and Emergencies and elimination of consequences of natural disasters;

- increase the mobilization readiness of the transport complex by creating the necessary reserves

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and replenishing vehicle fleets, which will help strengthen the country's defense capability in special conditions;

it is necessary, with the participation of the Ministry of the Russian Federation for Civil Defense, Emergencies and Disaster Relief, to develop more advanced programs for timely warning of natural disasters affecting transport safety in order to reduce the impact of natural and climatic threats;

strengthen information monitoring during the transportation of dangerous and bulky goods, as well as in the event of a threat in this case in order to prevent them; to systematize cases of incidents with dangerous goods and crashes during the transportation of oversized cargo by transport;

to ensure that the delivered new vehicles, carrying out international export-import transportation of goods and passengers, comply with international standards in the field of transport security. Failure to comply with these requirements limits the admission of domestic carriers to foreign infrastructure facilities and entails corresponding costs for the owners of the rolling stock in the implementation of international trade.

To ensure safety in railway transport, it is necessary to solve the following main tasks:

improvement of the regulatory framework for ensuring the safety of railway infrastructure facilities;

development of a set of measures to implement the state policy in the field of railway transport and priority areas for ensuring the security of the Russian transport system;

development of a methodology for solving problems of ensuring safety at railway transport facilities;

determination of threats to the safety of railway infrastructure facilities;

carrying out categorization and vulnerability assessment of railway transport facilities.

The main tasks in the field of ensuring safety in the road sector are:

ensuring the safety of road transport and pedestrians;

ensuring the activities of specialized emergency rescue services at a level that meets international and national requirements;

ensuring anti-terrorist protection of road facilities;

ensuring the mobilization readiness of the road sector;

ensuring the safety of transportation of goods requiring special conditions;

development of means and systems of supervision in the sphere of road economy;

determination of threats to the safety of road facilities.

To solve these problems, measures are provided for the reconstruction of problem areas, primarily causing a decrease in traffic safety, including:

replacement of railway crossings with transport interchanges at different levels;

reconstruction of unsatisfactory artificial structures, the condition of which cannot be brought up to regulatory requirements by means of major repairs;

raising the level of equipping roads with modern types of barrier fences, building pedestrian crossings at different levels, noise protection structures, avalanche galleries, and other special protective and fortifying structures;

ensuring security at transport infrastructure facilities, means of road transport and road facilities;

improvement of lighting, marking and configuration of the road network;

step-by-step bringing the strength characteristics of federal highways and artificial structures on them in line with the requirements of national standards;

increasing the capacity of streets and main roads;

bringing the right of way of motor roads to the standard state;

creation of a meteorological support system on federal highways;

introduction of universal weight control on federal highways.

Ensuring safety in road transport includes solving the following tasks:

improvement of the system for ensuring road safety in the road transport of goods and passengers;

improvement of the system for ensuring road safety at the federal and regional levels, a clear division of functions and powers of executive authorities and the introduction of their joint responsibility in the field of road safety;

formation of stable sources of financing for road safety activities focused on achieving the final results;

formation of territorial transport systems that ensure the reduction of social risk for road users;

promotion of the use of vehicles that comply with current international safety requirements;

development of a driver training system;

development of requirements for the level of qualification of drivers of vehicles, taking into account the peculiarities of driving various types of vehicles, as well as taking into account the peculiarities of the implementation of specific types of transportation;

improvement of requirements for professional training, retraining, advanced training of managers and specialists in the operation of vehicles and traffic safety;

inclusion of requirements for the qualification of personnel (engineering and technical workers, managers, drivers, workers) in the mandatory conditions for admission to professional activities in the road transport market (primarily passenger transport by public road transport);

expansion of the scope of application of modern technical means of controlling the speed regimes of

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vehicles, as well as the modes of work and rest of drivers (including tachographs), meaning their use not only in the international transport of goods and passengers (within the scope of the European Agreement concerning work of crews of vehicles engaged in international transportation), but also in the implementation of intercity, suburban and urban regular transportation of passengers by buses, intercity transportation of goods by vehicles with a total weight of more than 3.5 tons;

improvement of requirements for roads and transport facilities in the field of road safety;

development of systems for the timely detection of road accidents and the provision of emergency medical care to victims;

strengthening responsibility for violation of traffic rules;

improvement of procedures for regulating the admission of road carriers to the market in terms of compliance with road safety requirements;

improving the system of certification and retraining of officials and specialists of road transport organizations in the field of ensuring road safety;

development of acts necessary for the implementation of the provisions of the Federal Law "On Transport Security" and determining the procedure for interaction between organizations of road transport and state executive authorities in terms of ensuring safety in road transport;

determination of threats to the safety of the operation of road transport.

Flight safety is aimed at reducing the number of aviation accidents. The number of aviation accidents should be reduced by about 2.5 times in relation to the flight safety indicators in the Russian Federation in 2007, which will correspond to the level of flight safety in the USA and the countries of the European Union. In 2030, the level of flight safety should not exceed 0.008 air crashes per 100,000 hours of flight during regular flights.

Important elements of flight safety are:

improvement of the airworthiness maintenance system for aircraft in operation;

introduction of a new generation of onboard security systems based on computer technology with elements of artificial intelligence;

compliance by crews with the established rules for aircraft flights;

introduction of modern methods of protecting aircraft from external influences;

introduction of means to ensure the survival of passengers and crew members in case of aviation accidents, methods of preparing crews for actions in emergency situations;

improvement of the search and rescue system in air transport, on-board emergency equipment;

improvement of the system of medical support for flights, the introduction of an automated hardware and software complex for medical and

psychophysiological pre-flight and pre-shift control of aviation specialists;

a significant increase in the number of aviation personnel trained by educational institutions of the Ministry of Transport of the Russian Federation, improving the quality of their training based on equipping educational institutions and aviation training centers with a modern educational technical base;

introduction of new means of identification and control of the characteristics of operated aircraft based on flight information and ground control;

improvement of existing and development of new requirements for the technology of marking components in the process of their manufacture and the system for monitoring their turnover in operation.

To prevent the possibility of terrorist acts, it is envisaged:

formation in Russia of an aviation security system that meets the requirements of the International Civil Aviation Organization and is integrated into the global aviation security system;

determination of threats to the security of air transport facilities;

bringing the equipment of Russian airports with modern technical means to a level that ensures 100% inspection of luggage, cargo, mail and on-board stores; equipping Russian international airports with modern equipment for detecting explosives, including plastic ones;

introduction of new design and technical solutions in the field of aviation security on civil aircraft;

implementation at airports and air traffic management facilities of integrated security systems, protection systems against the effects of electronic interference and interference in the operation of computer systems;

development of the information support system for aviation security;

improving the interaction between federal and regional executive authorities in the field of aviation security, as well as air transport entities; providing professional training for aviation security personnel;

ensuring the safety of technological processes in the implementation of civil aviation activities.

The development of air navigation services for aircraft flights involves:

reforming the Unified Air Traffic Management System of the Russian Federation, departmental services of aeronautical information, meteorological support, implementing measures to organize a unified system of aerospace search and rescue, the creation and gradual development of the Air Navigation System of Russia in accordance with the Concept for the Creation and Development of the Air Navigation System of Russia, approved by the Government Russian Federation in 2018;

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development of the infrastructure of the Air Navigation System of Russia, which ensures the implementation in the Russian Federation of the Global Operational Concept for Air Traffic Management, adopted by the International Civil Aviation Organization for the period up to 2035 and based on the use of digital communication technologies, satellite navigation (CNS\ATM);

development of meteorological support for aircraft flights;

development of a unified system of aerospace search and rescue in the Russian Federation.

For the purposes of the sustainable development of air transport in Russia, it is envisaged to carry out a state policy aimed at providing the industry with qualified personnel in all areas of its production and management activities. It is necessary to preserve in the system of the Ministry of Transport of the Russian Federation educational institutions that train specialists for engineering, flight and dispatching personnel in certified and licensed specialties.

It is planned to update the fleet of aircraft in flight schools, supply new and modernize existing simulators, provide educational institutions with modern technical training aids, and implement international training standards.

A higher level of navigation safety and environmental protection is ensured by:

putting into operation the required number of ships of the supporting fleet (rescue, hydrographic, etc.), creating and maintaining at the proper level coastal means of ensuring the safety of navigation, search and rescue, communications;

creation and maintenance of ship surveillance systems at the proper level, participation in international cooperation in the field of global surveillance of ships;

strengthening the safety requirements for the structures of sea vessels, as well as during their operation;

improving the technical equipment for the implementation of the functions of state maritime supervision;

determination of threats to the safety of maritime transport facilities;

ensuring the protection of transport infrastructure facilities and vehicles from acts of unlawful interference by installing specialized equipment;

development of the material base for the training of qualified specialists in accordance with international standards.

Provided:

construction and reconstruction of ship traffic control systems, objects of the global disaster communication system and to ensure safety on the approaches to the seaports of the Russian Federation and on the routes of the Northern Sea Route, stations for receiving and processing information of the

International Search and Rescue System (Space search system for emergency ships - satellite tracking system for search and rescue);

construction of ships of the support fleet (icebreakers, rescue, environmental, hydrographic), shore-based facilities for basin emergency rescue departments, purchase of deep-sea mobile universal equipment. Until 2035, 90 support fleet units will be built. In 2025 - 2035, it is planned to continue the construction and modernization of ships of the service fleet (nuclear and diesel-electric icebreakers, rescue ships, including pontoons, environmental protection, hydrographic and other ships of the support fleet). The need for them is 340 units.

Replenishment of the supporting fleet is provided for by:

3 nuclear icebreakers of a new type with a capacity of 60 MW to ensure year-round operation of transport ships on the routes of the Northern Sea Route;

diesel-electric icebreakers for servicing fields on the shelves of the northern seas and solving other problems, including special-purpose icebreakers with a capacity of 20 - 30 MW for the protection of Russian Arctic waters with modifications for linear operation, auxiliary icebreakers with a capacity of 10 - 12 MW, port icebreakers-tugs power 6 - 7 MW;

multifunctional emergency rescue vessels with a capacity of 7 and 4 MW, new generation tugs, technical means of rescue from offshore oil and gas facilities in ice conditions.

Ensuring maritime security and anti-terrorist protection is achieved by:

formation in the Russian Federation of a system of maritime security that meets the international requirements of the International Maritime Organization and is integrated into the global system of maritime security;

full equipping of seaports and port facilities with modern innovative engineering and technical means of ensuring transport security (security);

introduction of new design and technical solutions in the field of maritime safety on ships used for maritime navigation;

development of the information support system for maritime security;

increasing the level of interaction on maritime security issues between the subjects of maritime transport activities and federal executive authorities and executive authorities of the constituent entities of the Russian Federation;

ensuring professional training of personnel directly related to maritime security.

The safety of navigation on inland waterways is ensured by:

creation of a vessel traffic control system on inland waterways based on innovative technologies;

determination of threats to the security of inland waterways and inland water transport;

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increasing the level of safety of existing hydraulic structures, ensuring safety in the design, construction, overhaul, commissioning, reconstruction, restoration, conservation and liquidation of hydraulic structures;

regulation and coordination of the control and supervisory functions of state bodies to increase their efficiency in the face of a decrease in the degree of their interference in the activities of market entities;

protection of navigable hydraulic structures and navigational equipment, their protection against illegal encroachments, improvement of a set of anti-terrorist measures;

servicing fleet upgrades;

reconstruction and development of technological communication networks on inland waterways;

acquisition of software and hardware to equip navigation information laboratories.

In inland water transport, it is envisaged to develop insurance for passengers and crews of ships, third-party liability insurance for the transport of dangerous goods and pilotage of ships.

Safety in inland water transport is ensured by:

formation in the Russian Federation of a system for ensuring the safety of river transport infrastructure, including navigable hydraulic structures, and vehicles that meets the requirements of the Federal Law "On Transport Security";

equipping river ports, port facilities and navigable hydraulic structures with modern innovative engineering and technical means of ensuring transport security (security);

introduction of new design and technical solutions in the field of transport security on ships used for navigation on the inland waterways of the Russian Federation;

development of a system of information support for the safety of river transport infrastructure facilities and vehicles;

increasing the level of interaction in order to ensure the transport security of river transport infrastructure facilities and vehicles between the subjects of river transport activities and federal and regional executive authorities;

ensuring professional training of personnel directly related to ensuring the safety of river transport infrastructure facilities and vehicles.

Conclusion

Financing of the Transport Strategy is envisaged to be carried out at the expense of the federal budget, the budgets of the constituent entities of the Russian Federation and extrabudgetary sources.

Funds from the federal budget are directed to the following purposes:

maintaining in working condition and reproduction of transport infrastructure facilities that are state-owned;

reconstruction and construction of transport infrastructure facilities of great socio-economic importance, as well as ensuring the safe functioning of the transport system;

transport security;

the implementation and stimulation of measures to maintain the mobilization readiness of means, transport facilities and means of communication, as well as measures carried out in the interests of national security;

ensuring the functions of state regulation and management in the transport industry;

conducting fundamental scientific research and implementing innovative scientific and technical projects of national and industry-wide importance.

Along with direct budget financing, state support can be provided in the following forms:

co-financing on contractual terms of investment projects with the registration of property rights of the Russian Federation, including financing the costs of managing investment projects and developing project documentation;

granting subsidies to the budgets of the constituent entities of the Russian Federation for the development of transport infrastructure;

providing subsidies to transport organizations engaged in socially significant transportation;

subsidizing interest rates on attracted loans to transport organizations to finance the costs associated with the purchase of vehicles;

providing, in accordance with the program of state external borrowings of the Russian Federation and the program of state internal borrowings of the Russian Federation and constituent entities of the Russian Federation, state guarantees for loans attracted by domestic organizations in order to implement the most significant investment projects in the field of transport;

allocation of funds to the authorized capital of legal entities;

development and implementation of economic mechanisms that stimulate the accelerated renewal of the fleet of vehicles, including assistance in the development of leasing modern vehicles, insurance and lending to carriers;

provision of benefits when establishing the conditions for the lease of state property, land allocation and land use.

The total volume of capital investments in the Transport Strategy is calculated in the prices of the corresponding years, taking into account the value added tax, and is estimated at 170.6 trillion. rubles.

The share of total capital investments for the implementation of the Transport Strategy in relation to the total gross domestic product of Russia will average 3.97 percent.

The share of total investments in fixed capital in Russia's total investments for 2020-2025 will be 12.7 percent and for the period 2025-2035 - 10 percent.

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