

INNOVATIVE METHODS FOR THE DEVELOPMENT OF THE TRANSPORT SYSTEM IN THE REPUBLIC

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The country's economic situation depends on the activities and development of the transport system in terms of the direction and volume of freight traffic, the structure of transported goods, the volume of transit and the ratio of internal transport. However, the stagnation of transport activities significantly hinders the development of the country's economy as a whole. Therefore, during the development of transport and its infrastructure based on innovative routes, an economic crisis occurred, which led to sanctions in many countries.

It is advisable to foresee a number of innovative directions for traffic growth, fleet rotation and fleet structure. In rail transport, for example, the proportion of powerful and fast freight locomotives, freight cars with high load capacity and reliability is to be increased; increasing the number and share of high-speed passenger transport; It is advisable to implement projects to expand the fleet of passenger cars and electric trains with high comfort. It is planned to increase the proportion of high-lift highways, specialized semi-trailers for intercity and international transport, the number of specialized cargo chassis with self-loading vehicles, and expand the range of replacement bodies for service retail. agriculture and communities.

Currently, the development of rail transport in the direction of increasing the speed of movement is being promoted through the improvement of locomotives, wagons and individual road elements. The main innovative achievements in road construction have not yet been observed: the traditional technology of railway construction is still in use. However, a more efficient technology for the construction of high-speed and light highways, capable of maintaining the integrity of territories, drains, animal migration routes, etc., has long been known. The construction of such roads does not require the delivery of technological roads for material supply, since their construction can be carried out using a modular method, that is, the manufacture of road modules at enterprises, delivery and installation using powerful helicopters. In view of the world experience, it is recommended to switch to the use of more efficient structures of rail connections. Thanks to innovative production processes, the latest materials and resource-saving technologies, the quality indicators of railway sleeper components can be increased and their costs reduced. In recent years, various options for elastic sleepers and constructions in which rails are attached directly to sleepers have become widespread, which have a number of important advantages over other types of sleepers.

One of the innovative ways of cargo delivery is container transportation. Almost all types of cargo can be transported in universal containers. At the same time, fast and reliable loading and unloading and, accordingly, the delivery of the freight is guaranteed. The use of standard containers in vehicles of all kinds, especially in intermodal transport, is widespread worldwide. This saves transport costs. Using containers reduces the cost of a ton of cargo by 20-40% and disruptions by 2-3 times. The use of containers in the transport process increases the quality level of transport services, which allows to increase the competitiveness of our country's transport and logistics system on the domestic and international markets. Container transportation in our country has also been mastered, but their volume is not so large. The expansion of the transport logistics infrastructure is therefore one of the main tasks of our country's economy.

Road traffic plays a major role in logistics. However, its engine relies on burning fuel, which releases pollutants and promotes air pollution. In the world's most underdeveloped countries, it has been studied that methanol, biogas, hydrogen, rapeseed oil, electricity, etc. can replace fuels. However, the greatest successes in this direction have been achieved in China, where 80% of rural and 60% of urban freight transport is handled with biogas. In addition, China exports Biogas Fueled Engines (ICE) to more than 20 countries around the world. The use of alternative fuels can take the form of a complete replacement of additives and gasoline. Biogas is a relatively new, promising, environmentally friendly and economically viable fuel for vehicles. For air pollution, biogas is a fuel that is 75% cleaner than diesel and 50% cleaner than gasoline.

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