



## **Symposium on Natural and Applied Sciences**

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### **INNOVATIVE MECHANISMS FOR FINANCING TRANSPORT-LOGISTICS INFRASTRUCTURE IN UZBEKISTAN**

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Globally, the development of alternative transport corridors, the creation of sustainable logistics chains, the opening of new transit routes, and the advancement of effective “cooperative competition” strategies in efforts to access the world’s oceans are among the key priorities. Considering countries’ geographic locations, it is essential to establish the necessary infrastructure for domestic and international freight transport, such as modern clusters, optimize tariffs and customs systems, enhance the investment attractiveness of transport-logistics service providers, and determine prospects for these services. These areas constitute major directions for scientific research.

In Uzbekistan, due to the absence of access to open seas, the development of transport-logistics services relies on rail, air, and road networks for both import and export operations. The adopted “Uzbekistan – 2030” strategy outlines in Article 53, “Deepening the Integration of the Republic of Uzbekistan into Global Transport-Logistics Networks and Enhancing the Capacity of the National Transport System,” the country’s priority goals and objectives regarding modernization and reform of transport systems. Achieving these goals requires in-depth research into the development pathways and prospects of transport-logistics services, factors for increasing their efficiency, opportunities, and the improvement of organizational and economic mechanisms.

Transport-logistics services are recognized globally as a vital sector of the service industry. However, there is no unified definition, scientific status, or



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comprehensive conceptualization of these services. For instance, official statistical datasets in Uzbekistan do not include the term “transport-logistics services.” In the National Classification of Economic Activities (IFUT-OKED), these services are categorized under “Transport and Storage Services.” Currently, online statistical sources often refer to them as “transport services.” For example, statistical press releases define transport services as “activities related to the movement of goods and passengers across all modes of transport, including auxiliary services such as logistics.”

Transport-logistics infrastructure plays a crucial role in the development of the national economy. Geographically, Uzbekistan is situated at the center of Central Asia, strategically positioned for regional integration via international trade routes and transport networks. Efficient transport-logistics infrastructure directly enhances the national economy’s competitiveness, accelerates export-import operations, and supports domestic market development. Although Uzbekistan’s transport-logistics system currently includes vehicles, road networks, railways, airports, and warehouses, financing mechanisms are largely based on traditional approaches, which sometimes limits project efficiency and sustainability.

Innovative financing mechanisms involve applying new approaches, financial technologies, and public-private partnership (PPP) models to enhance the efficiency of transport-logistics infrastructure projects. Specifically, mechanisms such as PPPs, the issuance of investment bonds, modernization of credit and leasing systems, digital financial monitoring, and blockchain-based financial operations are considered innovative. These mechanisms not only optimize the allocation of financial resources but also enhance transparency and reduce financial risks during project implementation.

International experience indicates that innovative financing enables rapid and high-quality project implementation in the transport-logistics sector. For instance,



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in European and Asian countries, PPP projects, green bonds, and blockchain-based financial monitoring systems are widely used to develop transport corridors and logistics centers. Implementing similar mechanisms in Uzbekistan would be a crucial step toward modernizing transport-logistics infrastructure and improving economic efficiency.

Currently, the Uzbek government places significant emphasis on developing transport-logistics infrastructure through national transport strategies, new road and railway projects, and airport modernization initiatives. However, due to the incomplete adoption of innovative financing mechanisms, the financial sustainability and investment efficiency of projects remain limited. Therefore, developing and implementing innovative financing mechanisms for transport-logistics projects remains an urgent priority.

The development of transport-logistics infrastructure is a strategic direction for the national economy, and innovative financing mechanisms play a vital role in this process. Traditional financing methods in Uzbekistan cannot fully ensure project efficiency, highlighting the need to introduce mechanisms such as PPPs, investment bonds, and modernization of credit and leasing systems.

Research findings indicate that innovative financing increases transparency, reduces financial risks, and strengthens investment attraction during project implementation. Based on international experience and national potential, such mechanisms can serve as effective tools for modernizing Uzbekistan's transport infrastructure. Additionally, the implementation of digital monitoring systems can significantly enhance project efficiency.

In conclusion, the introduction of innovative financing mechanisms for transport-logistics infrastructure not only ensures the financial stability of projects but also strengthens the national economy's competitiveness and Uzbekistan's position in international transport corridors.