



## **World Conference on Social Sciences, Law and Public Policy**

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### **MODEL FOR DEVELOPING TRANSPORT-LOGISTICS INFRASTRUCTURE FROM THE PERSPECTIVE OF FINANCIAL SUSTAINABILITY**

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Transport-logistics infrastructure is a critical factor in national economic development, ensuring the speed and efficiency of trade operations. Globally, developing transport-logistics systems is considered one of the main avenues for increasing economic efficiency and creating competitive advantages. In Europe and Asia, financial sustainability is a key criterion in financing transport-logistics projects. For instance, in Germany and the Netherlands, projects for the development of railway and port infrastructure are assessed based on financial sustainability indicators, cost optimization, and capital efficiency. Similarly, China's "Belt and Road Initiative" attracted large-scale investments into transport-logistics networks, establishing a financially sustainable infrastructure model.

Uzbekistan's transport-logistics system holds strategic significance in Central Asia, playing an essential role in facilitating efficient domestic and international trade flows. In recent years, the Uzbek government has undertaken large-scale modernization of transport-logistics infrastructure, including roads, railways, airports, logistics centers, and warehouses. However, mechanisms to ensure the financial sustainability of these projects remain insufficiently developed.

From a financial sustainability perspective, a model for developing transport-logistics infrastructure focuses on ensuring project financial stability, reducing risks, and improving capital efficiency. The use of innovative financing



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mechanisms such as public-private partnerships (PPPs), project financing, investment bonds, credit and leasing systems, and digital financial monitoring can significantly enhance project efficiency.

International experience demonstrates that financially sustainable transport-logistics models not only attract investment but also ensure transparency, efficiency, and project stability. Therefore, financial sustainability should be a primary criterion in developing Uzbekistan's transport-logistics system. The main objective of this research is to develop a model for financially sustainable development of transport-logistics infrastructure, based on both global and national experience, and to identify pathways for its practical implementation.

Investments in Uzbekistan's transport-logistics infrastructure increased significantly between 2015 and 2024. Investments in transport infrastructure rose from \$1.2 billion in 2015 to \$3.0 billion in 2024, a 2.5-fold increase. During this period, road freight delivery speed improved by an average of 25%, and railway efficiency increased by 15–20%. Mechanisms to enhance financial sustainability in the transport-logistics sector such as PPPs, project financing, and credit and leasing systems exist but require systematic and large-scale implementation.

Globally, financial sustainability is the key criterion for developing transport-logistics infrastructure. In Europe, PPP-based projects achieved 30–40% higher profitability, while in China, railway and logistics center projects minimized financial risks and significantly increased investment attraction.

A financially sustainable model for developing Uzbekistan's transport-logistics infrastructure includes several key components: investment efficiency assessment systems, risk management mechanisms, digital financial monitoring, PPPs, and project financing. This model improves project financial stability, attracts investment, and enhances the quality of transport services. Statistical data



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indicate that the introduction of innovative financing mechanisms could increase capital efficiency by 20–30%.

Developing transport-logistics infrastructure from the perspective of financial sustainability is a key strategy for modernizing Uzbekistan’s transport system. International experience shows that financially sustainable projects not only attract investments but also ensure operational efficiency, transparency, and financial security. In Europe and Asia, innovative financing mechanisms including PPPs, project financing, investment bonds, and digital monitoring are widely applied to ensure high financial sustainability.

Given Uzbekistan’s strategic location, the transport-logistics system requires a stable infrastructure to efficiently manage domestic and international trade flows. Although investments in roads, railways, airports, and logistics centers have increased significantly, a fully effective financial sustainability model has yet to be implemented. Therefore, introducing innovative financing mechanisms, digital monitoring, and risk management systems is crucial.

Analysis and statistics indicate that systematic application of financial sustainability mechanisms can increase capital efficiency of transport-logistics projects by 20–30% and operational efficiency by 15–25%. This also improves transport service quality, optimizes project costs, and strengthens investment attraction.

In conclusion, a transport-logistics infrastructure development model based on financial sustainability enables modernization of Uzbekistan’s transport system, improves economic efficiency, and strengthens national and regional competitiveness. Additionally, such a model ensures financial security of projects, reduces investment risks, and supports long-term sustainable development.