



Global Conference on Medical and Health Sciences

Hosted Online from Madrid, Spain

Date: 14th January, 2026

Website: <https://econferencia.com>

FINANCIAL STRATEGIES AND INVESTMENT PROJECT EVALUATION MECHANISMS FOR SUSTAINABLE TRANSPORT- LOGISTICS INFRASTRUCTURE

Tuxtayev Vakhobjon Husenovich
Independent Researcher,
Tashkent State University of Economics

Transport-logistics infrastructure holds strategic importance for a country's economic stability and the efficient execution of trade flows. A sustainable transport-logistics system enhances the national economy's competitiveness by ensuring financial stability, attracting investments, and improving project efficiency. International experience demonstrates that financial strategies and investment project evaluation mechanisms are widely used to create sustainable transport-logistics infrastructure. For instance, in European countries, railway projects are implemented through public-private partnerships (PPPs), investment bonds, and project financing, resulting in high efficiency and profitability of transport services. In China, railway transport projects utilize "green bonds" and digital monitoring systems, which minimize investment risks.

Uzbekistan's transport-logistics system enjoys a strategic geographical position and is capable of facilitating efficient domestic and international trade flows via rail transport. In recent years, the country has focused on modernizing its railway network, implementing new railway lines, logistics centers, and terminal projects. However, financial strategies and investment project evaluation mechanisms for establishing a sustainable transport-logistics infrastructure remain underdeveloped. Developing mechanisms to assess financial sustainability and implement projects effectively can significantly improve the efficiency of rail transport.



Global Conference on Medical and Health Sciences

Hosted Online from Madrid, Spain

Date: 14th January, 2026

Website: <https://econferencia.com>

Financial strategies and project evaluation mechanisms aim to ensure financial stability, optimize costs, reduce risks, and enhance capital efficiency. In Uzbekistan, implementing these mechanisms can modernize the transport-logistics system and strengthen national economic competitiveness. The study aims to analyze financial strategies and project evaluation mechanisms for establishing sustainable transport-logistics infrastructure in Uzbekistan, identify effective practices, and develop a model based on rail transport.

Rail transport accounts for the majority of domestic freight and passenger flows in Uzbekistan. Between 2015 and 2024, investments in railway infrastructure increased from \$1.5 billion to \$3.5 billion, a 2.3-fold increase. During this period, freight transported by rail increased by 18% and passenger volumes by 22%. Investment projects such as new locomotives, logistics centers, and modern signaling systems have been introduced to improve rail transport efficiency.

Mechanisms for evaluating projects based on financial strategies help determine investment efficiency and minimize risks. Statistical data show that applying PPP and project financing mechanisms increased rail transport capital efficiency by 25–30%. International experience confirms that railway projects financed through project financing and investment bonds exhibit high financial sustainability and reduce operational costs by 15–20%. Similarly, in Uzbekistan, applying innovative financial mechanisms can improve rail transport efficiency.

Analysis indicates that selecting appropriate financial strategies and systematically evaluating investment projects enhances the sustainability of the transport-logistics system. For instance, in assessing a new railway line, project costs, investment returns, operational efficiency, and risks were evaluated comprehensively. Digital monitoring systems and financial control mechanisms further improved project efficiency by 20–25%.



Global Conference on Medical and Health Sciences

Hosted Online from Madrid, Spain

Date: 14th January, 2026

Website: <https://econferencia.com>

Creating sustainable transport-logistics infrastructure is directly linked to ensuring financial stability and increasing investment efficiency. The rail transport case study demonstrates that financial strategies and investment project evaluation mechanisms significantly enhance system performance. Although investments in Uzbekistan's transport-logistics system have increased, the implementation of a sustainable financial model remains necessary.

Key advantages of financial strategies and project evaluation mechanisms include: enhancing the financial sustainability of investment projects, minimizing risks, and improving capital and operational efficiency. Rail transport projects using PPPs, project financing, and investment bonds have reduced operational costs by 15–20% and increased investment returns by 25–30%.

Furthermore, digital financial monitoring systems enhance project efficiency, ensure transparency, and optimize project management. A sustainable transport-logistics model improves national economic competitiveness, facilitates domestic and international trade flows, and supports long-term financial stability.

In conclusion, implementing financial strategies and investment project evaluation mechanisms in Uzbekistan's transport-logistics system using rail transport as an example enables the creation of a sustainable, efficient, and competitive infrastructure. This approach improves transport service quality, strengthens investment attraction, ensures financial project stability, and contributes to the long-term development of the national economy. Additionally, these mechanisms serve as the primary tool for maximizing rail transport efficiency and establishing a strategically prioritized sustainable transport system.