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REGIONAL LOGISTICS OF PASSENGER TRANSPORT SYSTEMS

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Abstract: Efficient passenger transport systems are vital for fostering economic development, social cohesion, and environmental sustainability within regions. Regional logistics, encompassing the planning, coordination, and optimization of transportation services, infrastructure, and policies, plays a pivotal role in ensuring seamless mobility for residents and visitors. This abstract explores the key aspects of regional logistics in passenger transport systems, including infrastructure development, multimodal integration, and sustainability initiatives. By examining the challenges, solutions, and emerging trends in regional mobility, this abstract highlights the importance of collaborative efforts among stakeholders to address congestion, improve accessibility, and promote sustainable travel behaviors. Ultimately, an integrated approach to regional logistics holds the potential to enhance connectivity, efficiency, and quality of life for individuals and communities across diverse regions.

Key words: concept, macrological systems, regional passenger market, strong monitoring, optimization models, regional public transport, macrological systems.

Introduction:

The efficient movement of passengers within and between regions is a critical component of modern transportation systems. Regional logistics in passenger transport encompasses the planning, coordination, and optimization of various modes of transportation, infrastructure, and services to ensure seamless connectivity and mobility. In this article, we explore the complexities, challenges, and strategies associated with regional logistics in passenger transport systems, focusing on key considerations such as infrastructure development, multimodal integration, and sustainability.

Infrastructure Development:

Effective regional logistics depend on robust transportation infrastructure capable of accommodating diverse passenger needs and facilitating efficient movement. Investments in roadways, railways, airports, and public transit systems are essential for enhancing connectivity and accessibility within and across regions. Moreover, the integration of intelligent transportation systems (ITS) and digital infrastructure enables real-time monitoring, traffic management, and passenger information dissemination, improving service reliability and efficiency.

Multimodal Integration:

The integration of multiple transportation modes, such as buses, trains, ferries, and ride-sharing services, is essential for providing passengers with seamless, door-to-door mobility options. Regional logistics strategies aim to facilitate multimodal connectivity through intermodal hubs, integrated ticketing systems, and coordinated scheduling. By enabling smooth transitions between modes and minimizing transfer times, multimodal integration enhances the overall passenger experience and encourages sustainable travel behaviors.

Main part:

In the current conditions, it is necessary to look for new effective ways of reforming the public transport management system. One of these ways is the development and application of logistics tools in the formation and management of the passenger service market based on the synthesis of macro-logical systems of public transport at the level of the region and its large cities.

In our country, certain experience has been accumulated in the development of goal-oriented projects, the formation and modeling of local and global tasks, which currently have the authority to manage macro logistics, in particular, the country's industries and regions.

At the same time, the analysis of modern works in the field of logistics shows that they do not have a comprehensive methodological approach to the formation of logistics systems, there is no unity in the conceptual apparatus and terminology. Therefore, in the conditions of the transition to a market economy, creative revision of local scientific, theoretical and practical developments, as well as the use of foreign experience in relation to the problem of forming macro-logical systems, taking into account the fact that it is impossible to promote a logistic approach to public transport activities from the point of view of the concept should be taken. its disposal by the state.

The logistic approach requires new methodologies and models for the description of the public transport system and for making management decisions related to the characteristics of the formation of the regional passenger market in the synthesis of the macro logistics system. Today, there is a clear lack of theoretical and methodological developments in local economic sciences.

The effectiveness of regional public transport management depends on its status and as a macro-logical system, taking into account the possibility of information management and choosing a solution from a set of alternative options. Such an arrangement is possible only in the modeling of public transport activities in the region. Despite the large amount of literature on economic and mathematical modeling, the use of separate standard models does not allow to formalize the process of public transport in the market of regional passenger transport services.

The formation of the main indicators of the level of passenger service quality and the method of their comprehensive determination can help to create a unique theory for assessing the state of the regional logistics system of public transport.

Development of the theoretical and practical basis for the synthesis of the regional logistics system of public transport management in market conditions, which allows for the rapid planning, implementation and adjustment of passenger services based on the systematic regulation of the effective operation of passenger transport in the region by the management bodies.

Elements affecting the formation of the regional logistics system of public transport

As a result of the research, the methodology, optimization models and methods based on the formation of regional logistics systems of public transport will be developed.

Research methodology can be systematic, institutional, structural and functional methods, as well as methods of economic analysis: comparison, mathematical statistics, theory of random processes, multi-criteria (composite) modeling and forecasting, etc.

The concept of this study is based on the study of the current state of public transport, its role in the market of regional passenger transport services and management methods in market conditions, which allowed:
-determination of specific forms of public transport logistics systems based on classification according to object, organizational, management and industrial characteristics;

-development of a mechanism for state regulation of macrological systems of public transport at the regional level;
-creating a functional diagram of the organizational structure of RLSOT and its management at each organizational level;
-development of an algorithm for synthesizing the optimal organizational structure of the radar;
-determination of the qualitatively formalized state of the ideally functioning radar system;
-taking into account the development trends of the regional passenger service market and the global goals of the region's activity (formation of a certain level of passenger service) with the local goals of its individual directions (maximum profit by public transport enterprises) development of an integrated system of economic and mathematical models, which allows to connect;
-economic justification of the amount of transport tariffs and subsidies, taking into account the social structure of public transport;
- to determine the mechanism of reducing subsidies for regional public transport.

Conclusion:

Regional logistics play a pivotal role in shaping the efficiency, accessibility, and sustainability of passenger transport systems. By embracing infrastructure development, multimodal integration, and sustainability initiatives, regions can create interconnected transportation networks that enhance mobility, reduce environmental impact, and improve quality of life for residents and visitors alike. As the demand for seamless, sustainable transportation solutions grows, regional logistics will continue to evolve, driving innovation and transformation in the passenger transport sector.

REFERENCE:

1. Abduqayumovna, K. M., & Qayumjon o‘g’li, A. S. (2022). MEN SEVGAN YETUK OLIMLAR. Journal of new century innovations, 19(5), 125-129.

2. Azizbek, M., Dilnoza, B., & Sarvarbek, A. (2024). CAUSES OF TRAFFIC ACCIDENTS AND MEASURES TO PREVENT THEM. ОБРАЗОВАНИЕ НАУКА И ИННОВАЦИОННЫЕ ИДЕИ В МИРЕ, 37(3), 61-63.

3. Azizbek, M., Dilnoza, B., & Sarvarbek, A. (2024). IMPROVING THE BRAKE SYSTEM OF THE KOBALT CAR. ОБРАЗОВАНИЕ НАУКА И ИННОВАЦИОННЫЕ ИДЕИ В МИРЕ, 37(3), 57-60.

4. Muhammadjonov Azizbek, Baxromjonova Dilnoza, & Azimov Sarvarbek. (2024). Highways, Functions and Importancein the Republic of Uzbekistan. American Journal of Language, Literacy and Learning in STEM Education (2993-2769), 2(1), 129–133. Retrieved from https://grnjournal.us/index.php/STEM/article/view/2604

5. Dilnoza, B., Azizbek, M., & Azimov, S. (2024). AUTOMOBILE INDUSTRY IN THE REPUBLIC OF UZBEKISTAN AND BUSINESS DEVELOPMENT TENDENCIES. ОБРАЗОВАНИЕ НАУКА И ИННОВАЦИОННЫЕ ИДЕИ В МИРЕ, 37(3), 53-56.

6. Qayumjon o'g'li, A. S., & Ilhomjon o'g'li, S. M. (2023). KOMPRESSIO HALQA JOYLASHGAN QISMNING HARORATINI PASAYTIRISH USLUBLARI. Новости образования: исследование в XXI веке, 1(6), 1567-1574.

7. Qayumjon o'g'li, A. S., & Sulaymonovich, T. S. (2022). DEVELOPMENT OF A MACHINE FOR CUTTING COTTON. Новости образования: исследование в XXI веке, 1(5), 192-198.

8. Tavakkal o'g, Q. C. I., Ilhomjon o'g'li, S. M., & Qayumjon o'g'li, A. S. (2022). YER OSTI QUVURLARIGA GRUNT BOSIMI. BIR JINSLI GRUNTDA JOYLASHGAN QUVURGA GRUNTNING O 'RTACHA VERTIKAL BOSIMI. Новости образования: исследование в XXI веке, 1(5), 287-292.

9. Qayumjon o'g'li, A. S., & Ilhomjon o'g'li, S. M. (2022). DVIGATELLARINING QUVVATI VA TEJAMKORLIGINI ORTTIRISH YO 'LLARINI TAXLIL QILISH. Новости образования: исследование в XXI веке, 1(5), 199-206.

10. Azimov, S., & Mirzaalimov, A. A. (2020). Carriers lifetime in silicon bases solar cell. Молодой ученый, (19), 97-101.

11. Azimov, S., & Mirzaalimov, A. A. (2020). Potential barrier in silicon solar cells. Молодой ученый, (19), 94-97.

12. Azimov, S., & Shirinboyev, M. (2022). DEVELOPMENT OF TECHNOLOGY FOR CREATING POLYMERIC COMPOSITE MATERIALS BASED ON POLYVINYLIDENFTORIDE AND DISPERSED FILLERS. Евразийский журнал академических исследований, 2(13), 828-835.12.

13. Azizbek, M., Dilnoza, B., & Azimov, S. (2024). AUTOMOBILE INDUSTRY IN THE REPUBLIC OF UZBEKISTANAND BUSINESS DEVELOPMENT TENDENCIES. ОБРАЗОВАНИЕ НАУКА И ИННОВАЦИОННЫЕ ИДЕИ В МИРЕ, 37(3), 47-52.

14. Qayumjon o'g'li, A. S., & Sulaymonovich, T. S. (2022). DEVELOPMENT OF A MACHINE FOR CUTTING COTTON. Новости образования: исследование в XXI веке, 1(5), 192-198.

15. Qayumjon o'g'li, A. S., & Ilhomjon o'g'li, S. M. (2022). DVIGATELLARINING QUVVATI VA TEJAMKORLIGINI ORTTIRISH YO 'LLARINI TAXLIL QILISH. Новости образования: исследование в XXI веке, 1(5), 199-206.

16. Qayumjon o'g'li, A. S., & Ilhomjon o'g'li, S. M. (2022). DVIGATELLARINING QUVVATI VA TEJAMKORLIGINI ORTTIRISH YO 'LLARINI TAXLIL QILISH. Новости образования: исследование в XXI веке, 1(5), 199-206.

17. Gulomov, J., Azimov, S., Madaminova, I., Aslonov, H., & Dehqonboyev, O. (2020). IV CHARACTERISTICS OF SEMICONDUCTOR DIODE. Студенческий вестник, (16-9), 77-80.

18. Azimov, S., Aslonov, H., & Dehkonboev, O. (2020). Nanoplasmonics theory in solar cells. Молодой ученый, (19), 91-94.