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Research Article

ANALYSIS OF THE ACTIVITY OF MULTIMODAL TRANSPORTATION IN THE CITY PASSENGER TRANSPORT **SYSTEM**

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ABSTRACT

The formation of multimodal transport activities in the urban passenger transport system using the management of a single operator is a comprehensive approach to the organization of transport by combining various types of transport (buses, trams, subways, bicycles, taxis, etc.) into a single network. improving passenger convenience, efficiency and comfort.

Keywords

City public transport, city logistics, Mobility as a service.

Introduction

Since ancient times, the use of logistics achievements in transport has been considered the key to increasing the efficiency of the domestic transport complex and strengthening its integration into the world transport system.

It should also be noted that in recent years, transport has played a major role in logistics processes and has a huge strategic resource, performing a key function in flow processes. In fact, transport logistics, as a new methodology for optimizing and organizing rational cargo flows and processing in specialized logistics centers, increases the efficiency of such flows, reduces inefficient costs and expenses, allows transport workers to be modern in order to best meet the needs of increasingly demanding customers and the market [1,2,4,7].

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When creating any passenger transport system, it is necessary to define goals and priorities. It is necessary to determine who is in charge on the city streets and whose interests are paramount. In the centers of big cities, people not only work, but also live. Heavy traffic flow poses a real environmental health hazard. First of all, it is necessary to create comfort for pedestrians, distinguish pedestrian zones, among other things. Priority should be given to the most ecologically clean modes of transport and means of transport. These include off-street transport (metro, monorail) and public transport (buses and minibuses, cars) on city streets [14,15].

RESEARCH METHODS

In carrying out scientific research work, methods of observation, planning of experiments and modeling are used to shape the activity of multimodal transport in the city passenger transport system based on the management of a single operator.

1. Unified management and coordination: Establishing a single operator center for the management of all types of transport in the city is a complex but important process that requires the coordination of various transport services and the introduction of modern technologies [18].

The following steps can be taken to successfully implement this idea:

a) Analysis and planning:

- analysis of the current structure of traffic management in the city, identification of strengths and weaknesses, as well as problem areas.
- development of a strategy for combining different types of transport into a single operator center.

b) Stakeholder participation:

- consultation and involvement of all interested parties, including city authorities, transport companies, private entrepreneurs and public representatives.
- Ensure support from key actors and stakeholders.
- c) Creating a legal and organizational framework:
- Development of the necessary legal and organizational mechanisms for the establishment of a single operator center.
- creation of coordination and coordination mechanisms of various transport services.

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creation of a single operator center uniting the management of all types of transport in the city

implementation of modern transport management systems (for example, traffic flow management systems, monitoring and databased management systems)

1.1. picture Unified management and coordination in the organization of the city passenger transportation system

- 2. Implementation of modern transport management systems (for example, traffic flow management systems, monitoring and databased management systems). The introduction of modern transport management systems, such as transport flow management, monitoring and data-based management systems, is the main element of optimizing and improving the efficiency of urban transport infrastructure. Several steps can be taken to successfully implement such systems:
- Analysis and goal setting:
- analysis of the current situation in urban transport, identifying problem areas and needs.
- to determine the specific objectives of the implementation of management systems, such as

reducing traffic congestion, improving route efficiency and reducing waiting times.

- Selection of appropriate technologies:
- Study of existing technologies in the field of transportation management, geolocation systems, sensors, Internet of Things (IoT), etc.
- Choose the technologies that are most suitable for the goals of the project and the characteristics of the city.
- Regular update:
- Plan regular system updates to introduce new technologies and improvements.

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- monitoring trends in the field of transport introducing management and innovative solutions.

The introduction of modern transport management systems serves to make more efficient use of resources, reduce travel time and improve the overall experience of passengers.

Research results. Reduction of useful time of passengers is achieved on the basis of formation of multimodal transport activities in the passenger transportation system based on the management of a single operator and the introduction of the creation of an operator platform and the introduction of the improvement of management with the platform.

The activity of multimodal transportation in the passenger transportation system of Andijan city is analyzed;

The problems of single operator management of transportation the multimodal in passenger transportation system are studied;

The infrastructure of multimodal transport in the city passenger transport system will improved;

The effectiveness of single operator management is developed during the operation of multimodal transportation in the city passenger transport system;

The development and efficiency of the single operator exchange platform in the city passenger transport system will be increased.

Conclusion

The introduction of a multimodal system of transportation of citizens under the control of a single operator of the city transport system is an important step in the improvement of the city transport infrastructure. Based on the above, the following conclusions were drawn for the chapter:

- 1. A comprehensive analysis of the city's existing transport system, including transport types, infrastructure, traffic jams, passenger flow and weaknesses.
- 2. All modes of transportation are identified, including public transportation, taxis, bicycles, pedestrian zones, possibly even car sharing, and other alternatives.
- 3. It was revealed that the need to create a single operator center to manage all types of transport in real time is an urgent problem.
- 4. The need to ensure compatibility of systems and technological standards for data integration was analyzed.
- 5. Tasks for introducing modern technologies such as GIS (geographical information systems), IoT (Internet of Things) and big data have been set for effective management of the transport system.
- 6. The issue of creating a single ticket or card valid for all types of transport in the system was studied.

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- 7. The task of developing flexible tariff plans and ways to account for benefits and measures for different categories of the population was set.
- 8. The issue of developing a system of introducing a unified payment system in order to facilitate the use of different types of transport for passengers was raised.
- 9. Tasked with developing mobile applications and information boards to provide passengers with up-to-date information on schedules, routes and delays.
- 10. Training of employees on the use of the new system. In order to train passengers to use multimodal options, the task of determining ways of conducting information campaigns was determined.

The implementation of a multimodal system with a single operator management requires an integrated approach, cooperation with various stakeholders and attention to the needs of passengers. The main goal is to create a convenient. efficient and sustainable transportation system for city residents.

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