
INTELLIGENCE OF TRANSPORT SERVICES IS A PRIORITY OF SYSTEM EFFICIENCY

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ABSTRACT

The article presents information about the current state of the transport sector of Uzbekistan and improving its efficiency through the introduction of modern information and communication technologies, analysis and results of measures taken in this regard. In addition, the legislative framework for the transport sector is presented.

Keywords: *modern information and communication technologies, features, factors, modernization, intelligent transport systems, transport complex, legislative framework.*

“On measures to further improve the management system of road transport” approved by the President of Uzbekikstan on March 6, 2018 resolution No 3589 stipulates that the existing opportunities and resources for the rapid development of the transport services sector have not been fully used in recent years, the modernization of transport facilities is not up to modern standards, advanced information and communication technologies and intelligent transport systems are not sufficiently introduced and It is noted that the potential and resources of the country to increase the export and transit of road transport services are not fully used. [1].

Intelligence of transport systems in the city (“smart city” concept) - it is a complex system of interrelated innovations: technological, organizational, and economic (various forms of cooperation between the state, public authorities, private business and public organizations), financial (business model platform, platform-integrators, versatile platforms) and the use of modern technology in the exploitation of others. The use of “smart” technologies in the management of urban transport creates a qualitatively new environment based on the development of “human capital” and the spread of innovations (Figure 1).



Figure 1. Information mobility on the concept of "smart city".

Urban mobility is the movement of people and goods around the city. This may seem simple, but if we take into account all the factors, including infrastructure, technological, political and cultural factors, we see that urban navigation is a complex topic with a long history and a future built on advanced technologies. [2].

Intelligence of transport systems based on the generalization of existing approaches to the definition, it is proposed to consider intellectual urban mobility as a process of population and goods movement, as well as to manage this process on the basis of selecting the most optimal direction using data and information. In order to increase the efficiency of transport mobility, telematics technologies in the transport and logistics system of the city (increasing the speed, reducing time and increasing the ease of movement, etc.) and improving the safety of the population and goods in compliance with all requirements for sustainable development of the city is kept.

Development of intelligent urban mobility - will significantly increase the access of the population to all types of services of intelligent urban transport, which will be achieved through the use of housing and communal services, social and commercial infrastructure, as well as software that integrates state and municipal authorities.

Intelligence of transport systems the ideological basis of development is the concept of "Mobility as a Service" (MaaS). The main feature of the MaaS concept at the present stage - adaptation of the proposed integrated mobility services in the use of different modes of transport and planning of intermodal trips, choosing a personal offer based on the most reasonable price, the ability to choose the optimal route and create a unique interface that works in a convenient payment method. As a result of the development of the urban transport system, the main focus is gradually shifting to the private urban logistics system.

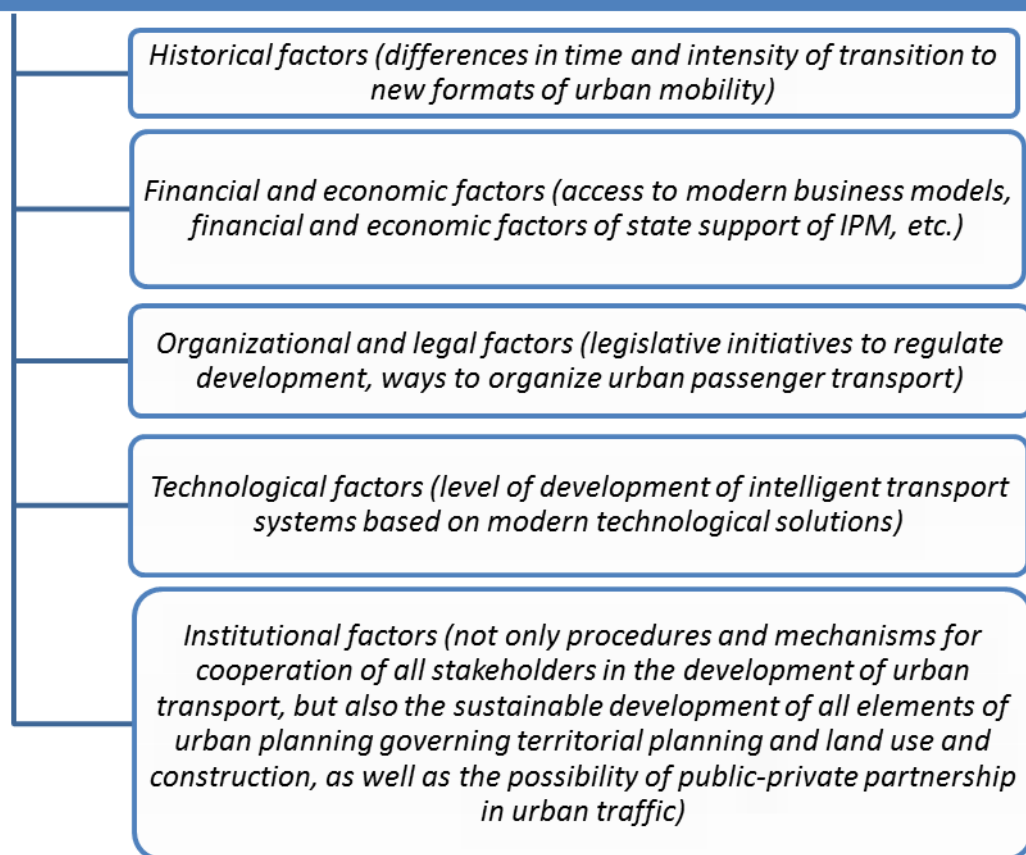
The main goal of the development of intelligent urban mobility is the sustainable development of urban settlements, improving living conditions and increasing the efficiency of urban space development. Formation and implementation

of mechanisms of intellectual mobility of the city - based on meeting the needs of the population and enterprises for mobility in order to improve the quality of life (organization of the most convenient movement of employees) [3].

According to the results of the analysis, The following tasks have been identified to be addressed through the implementation of initiatives in the field of Intelligence of transport systems:

- equal access to all transport services for all citizens;
- increase protection and safety (improving monitoring and control on public transport will help identify and respond to various emergencies, natural disasters or terrorist attacks, which in the later stages of implementation can also reduce the level of accidents throughout the city);
 - reduce air pollution and noise, greenhouse gas effects and energy consumption (use of public transport, offering multiple options from a single interface and real-time flight schedule control, significantly reducing the use of private vehicles and reducing greenhouse gas emissions);
 - increase the efficiency and economy of transportation of people and goods;
 - improving the quality of life of citizens and the attractiveness and quality of urban environment and in general urban space in terms of socio-economic development (increasing the efficiency and accessibility of public transport improves the quality of life and saves citizens' costs);
 - creating and developing a mobile app market (open data on transportation and citywide traffic will create a mobile app market with significant economic and social benefits).

Several groups of factors that make up the characteristics, directions, tools and mechanisms of intellectual urban mobility development



In general, innovations in urban mobility should meet the interests of three main consumers: reducing travel time on the road, reducing transportation costs and increasing convenience for urban residents (pedestrians, passengers, motorists) [4].

On the basis of legislation aimed at ensuring the safety of vehicles in the new conditions, without significant investment in the road infrastructure of cities and the new generation of mobile communications, without developing current projects for the development of the urban transport system, the development of intelligent urban mobility is impossible, as well as proposals for a system of measures and tools to support the development and implementation of technologies for intelligent urban mobility [5].

In conclusion, solving traffic problems in cities through the introduction of smart urban technologies, Improving mobility in cities using Internet technologies, can save energy and reduce pollution.

Smart city technologies receive data from all available sources, including public transport traffic lights, cameras and sensors, then uses artificial intelligence to analyze this data and place it in open sources. This allows users to be constantly

aware of the information and use this information to manage traffic, route planning, public safety and emergency response.

Intelligent urban mobility can improve communication between cars, improve safety, improve traffic flow and reduce waste by using new technologies that will radically change the movement of people and goods in cities in the future.

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