

TASKS FOR THE INTRODUCTION OF ARTIFICIAL INTELLIGENCE TECHNOLOGIES IN THE TRANSPORT SYSTEM**F. B. Shakirova**Associate professor of Tashkent State transport University,
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Digitization of the economy is the most pressing issue today. In particular, digitization of the transport system is one of the important factors of socio-economic development. It is with the help of artificial intelligence that the activity of the transport sector can be developed at an unprecedented level. Based on this, it is necessary to further develop and improve the field of education.

In accordance with the decision of the President of the Republic of Uzbekistan dated February 17, 2021 "On measures to create conditions for the rapid introduction of artificial intelligence technologies" PQ-4996, as well as innovative technologies based on artificial intelligence in order to create a convenient and acceptable ecosystem for the development of business models, products and service methods, their rapid introduction and implementation in the identified priority sectors and areas: "Special regime for the use of artificial intelligence technologies on implementation measures" decision No. PQ-5234 was adopted on August 26, 2021. As part of the special regime, it is necessary to create the necessary organizational and legal conditions for legal entities and scientific organizations involved in the implementation of experimental work based on artificial intelligence technologies, the development of software products and the provision of services, the development of software products from experience. It is understood to create relief in the legal relations that arise in the process of transfer and implementation.

Starting from the 2021/2022 academic year, leading foreign experts and scientists have been attracted to each higher education institution to participate in training in the field of artificial intelligence and its application technologies. Also, starting from 2021, a target quota of 5 people will be allocated every year for trainee-researchers and basic doctoral studies in the field of artificial intelligence.

Leading specialists and experts of the "Sber" group (Russia) will be involved to participate as consultants in the development of artificial intelligence and in the activities of state bodies and other organizations, as well as in the preparation of the regulatory legal framework in this field. The goal of the strategy is to systematically launch national scientific research and development activities in the field of artificial intelligence and effectively reform education.

It is planned to develop artificial intelligence in Uzbekistan in 3 stages.

Stage 1. 2021-2022 - development and targeted systematization of the fundamental foundations of the development of artificial intelligence: systematic organization of scientific research and development activities in the main priority directions of the development of artificial intelligence, effective reform of the educational system in the field of SI, and scientific research and acceleration of international cooperation in education. Also, to support the digital economy in production and increase the innovative activity of entrepreneurs.

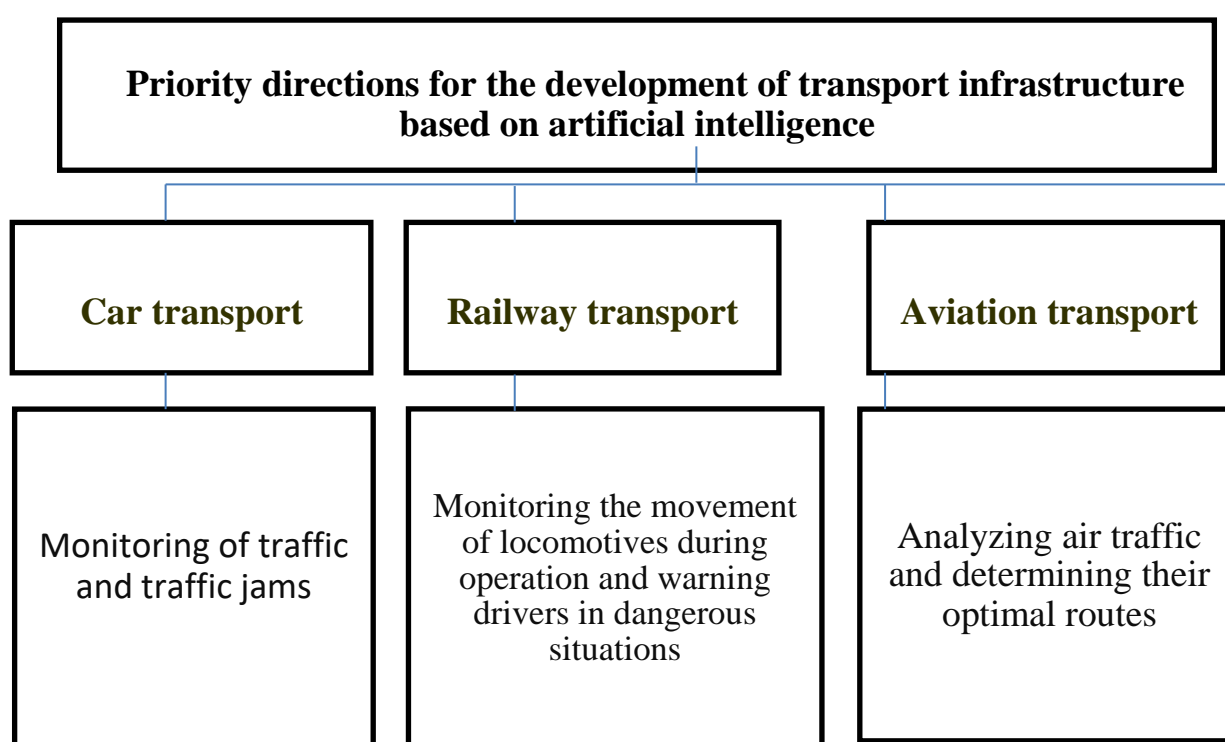
Stage 2. 2023-2025 - to increase the quality and prestige of human resources and intellectual potential in the field of artificial intelligence in the field of international competition: establishment of new scientific research and development centers in priority areas. To offer a set of rational solutions to the problems of economic sectors with the help of SI by strengthening the business-science-state integration system. Also, increasing the export share of national developments based on high technologies based on artificial intelligence in the national economy. Wide use of digital production products created on the basis of artificial intelligence technologies in national economic sectors and having competitive national brands in the world market.

Stage 3.2026-2030 - Formation of a highly developed information society in Uzbekistan: increasing the transparency and efficiency of public administration, formation of a unique information society that fully guarantees the rights and freedoms of citizens based on national values and universal principles, the formed information to create high-value products from its collection, and to turn the country into an innovative hub that is a leader in Central Asian countries and competes with Asian countries in the priority sectors of the country's economic development.

The following are defined as the main priorities for the development of artificial intelligence in 2021-2022:

- Regulation of fundamental principles in normative-legal and ethical relations;
- Step-by-step formation of an informed society;
- Supporting educational reforms and scientific research activities in personnel training;
- Support for the production of digital products and smart industry.

Based on the above, it is possible to indicate the following priority directions for the development of transport infrastructure based on artificial intelligence.



Drawing 1. Priority directions for the development of transport infrastructure based on artificial intelligence¹

To develop the field of artificial intelligence in the transport system, first of all, financial mechanisms should be developed. For this, a special account will be opened at the "Innovative Development and Innovative Ideas Support Fund" under the Ministry of Innovative Development, and the funds will be directed to the financing of artificial intelligence projects. Also, measures aimed at developing financing mechanisms for start-up projects will be adopted. It is appropriate for professors and teachers and students of the University of Transport to participate in this project.

1. Summarizing the above points, the following conclusions and proposals were formed: 1. *It is necessary to attract specialists with high qualifications in artificial intelligence from abroad to the University of Transport. It is desirable that the science of artificial intelligence is perfectly taught in the field of transport. The organization of training courses in this direction also gives positive results. An international conference dedicated to the issues of artificial intelligence in transport should be organized on the basis of its technological development*

2. Development of a concept for solving the traffic problem, which envisages changing the architecture of intersections and the phase of traffic lights. As a result, by changing the traffic light phases, it is aimed to reduce the time of vehicles stopping from 66 seconds to 34 seconds; In order to solve this issue, it is necessary to announce the selection of innovative projects and attract venture investors. That is, it is appropriate to use the infrastructure of intelligent motor vehicle movement in all regions of our Republic.

3. *Implementation of technologies that serve to monitor the movement of locomotives in railway transport and warn drivers in dangerous situations. For this, first of all, it is necessary to improve the infrastructure. It is necessary to introduce virtual reality and artificial intelligence technologies using the conditions and financial mechanisms created by the state. In order to ensure the participation of the private sector in the financing of projects, it is necessary to create a system of relevant legal and regulatory documents and a mechanism for attracting the private sector.*

4. It is necessary to attract highly qualified specialists in artificial intelligence from abroad to the University of Transport. It is desirable that the science of artificial intelligence is perfectly taught in the field of transport. The organization of training courses in this direction also gives positive results. An international conference dedicated to the issues of artificial intelligence in transport should be organized on the topic of the basis of its technological development.

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