

Implementation Of Innovative Management In The Passenger Transportation System And Automatic Passenger Payment System In Passenger Transportation

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Abstract: *The article deals with the issues based on the implementation of innovative management in the local passenger transport system and an automated road fee system in passenger transportation.*

Keywords: *good knowledge on the prospect of the company and existing problems; having certain creative abilities; identification and use of internal capabilities of enterprises; increasing engineering potential; special attention to technological rearmament; forming the spirit of constant change; feeling responsibility for the activities that give promising results and to allocating time and resources; creating and developing a creative environment in the enterprise.*

Nowadays, transport means has become a huge dynamic system that widely applies the achievements of science and technology as part of the country's productive forces. Currently, the Tashkent city trans service Association is considering the implementation of an automated fare payment system (FPS) through the implementation of electronic tickets based on long-term contactless smart cards (KSK), the rapid payment of fares in urban passenger transport. The implementation of AFPS allows you to make cashless payments on various vehicles (subway, bus, and tram) using special plastic cards, turnstiles and validators.

In his speeches at the meeting of the Cabinet of Ministers on the main results of 2015 and priorities of socio-economic development of Uzbekistan in 2016, the

first President I.A. Karimov acknowledged that one of the most important priorities in 2016 is to ensure the rapid development of transport and engineering infrastructure. [1]. As we know that transport is not only an active part of the material and technical base of the future great state of Uzbekistan, but also plays an important role in creating this base, continuing the production process of the country's economy and bringing it to consumption. is a system that integrates industry, agriculture and transport.

Today, transport has become a huge dynamic system that widely applies the achievements of science and technology as part of the country's productive forces. In improving this system, the following:

- specific features of transport in relation to other sectors of the economy, its role and functions in the economy, as well as the basic principles and rules that reflect the transport activity;
- specific technical and technical-operational characteristics of some modes of transport, achievements in construction, transportation, scientific and technical problems specific to each type of transport and need to be addressed in the future;
- Comprehensive consideration of the interaction of different modes of transport and the problems of their joint development, ie the practical issues of using different modes of transport and improving their efficiency, including the appropriate distribution of transport between modes of transport and the correct definition of development of certain modes of transport. the study of problems is of particular importance.

One of the important factors determining the good performance of transport is its regularity of passengers and freight. The importance of transport in transporting the population from one place to another is growing from year to year. This work is mainly carried out using passenger transport.

The main task of passenger transport is the timely delivery of workers to their places of work and after work, the transportation of workers and employees between enterprises and organizations in the process of work. In addition, passenger transport plays an important role in meeting the personal needs of the population, which are not directly related to production. Passenger transport also serves to expand the interaction of people, exchange experiences, and raise their cultural level.

Like other modes of transport, the passenger transport system fully meets the needs of the population in all types of services, shortens transportation times, increases the speed of passenger traffic, maintains regularity throughout the year, night and day, weather whims and various other reasons, to create as much convenience as possible, to ensure traffic safety, to protect the environment and other requirements.

Comprehensive implementation of these requirements is technically and economically more complicated. Therefore, one of the ways to solve the problems of the passenger transport system is to use innovative management in the improvement of the transport network, i.e. new opportunities in the existing technical, technological, economic, organizational and management work in fundamental and all practical areas. In order to manage the innovative activities of transport enterprises, it is necessary to create a department of "innovators" in enterprises and effectively use the potential of innovative personnel. Requirements for innovative personnel;

- good knowledge of the company's prospects and current problems;
- having certain creative abilities;
- identification and use of internal capacity of enterprises;
- increasing their engineering potential;
- paying special attention to technological rearmament;
- forming the spirit of constant change;

- a sense of responsibility for promising activities and the allocation of time and resources;
- creation and development of creative environment in the enterprise.

So, the most important factor that ensures the success of innovation activities in the enterprise is the human factor. Innovative management of road transport requires the creation of innovative creative teams that seek and disseminate news.

The transport system is an important component of the country's production infrastructure, and its development, increasing the performance of the road transport system is very important today.

Although the city's passenger transport system is undergoing regular changes, it is not able to fully meet the transport needs of passengers. Therefore, the issue of regulation, optimization and study of passenger traffic in all existing routes in the city remains relevant today.

The main objectives of the study of passenger flow:

- determination of the optimal number, model and length of traffic on the routes;
- determining the optimal interval time between each vehicle;
- reduction of parallelism of passenger transport routes;
- increase revenue, reduce the number of unprofitable routes by reducing costs.

At the same time, the implementation of an automated fare payment system in urban passenger transport will allow optimizing the number of vehicles and routes by obtaining accurate information about the flow of passengers on the routes at any time.

Implementation of an automated fare payment system in passenger transport, currently, the Tashkent city trans service Association is considering the implementation of an automated fare payment system (FPS) through the implementation of electronic tickets based on long-term contactless smart cards

(CSC), the rapid payment of fares in urban passenger transport. The implementation of ASFP allows you to make cashless payments on various vehicles (subway, bus, and tram) using special plastic cards, turnstiles and validators.

Advantages of the implementation of an automated fare payment system in urban passenger transport:

- use of transport services and payment of travel by special plastic cards without cash;
- electronic control of traffic regularity on urban routes;
- Increase revenue by 5-10% due to the full collection of tolls and the growing interest of the population in the use of public transport;
- optimization of the number of vehicles and routes on the routes by obtaining accurate information about the flow of passengers;
- Automation of visual control of passengers with the right of free travel and other benefits;
- prompt collection of information on ticket sales and passenger traffic;
- creation of conditions for the implementation of various tariffs for urban passenger transport.

Problematic aspects of the implementation of an automated fare payment system in passenger transport

1. The installation of turnstiles on land vehicles will increase the time of passengers getting on and off buses and trams and can cause various inconveniences. (Situation in Moscow).

2. The implementation of a system without turnstiles requires the involvement of conductors in each vehicle, which in turn increases production costs.

Tashkent city transportation service has held discussions with several foreign and local companies on the implementation of this system in urban passenger

transport. Among them: EB Corporation of South Korea and LG CNS, Kentcart of Turkey, Sercotec Select LLC of the USA, local companies of Uzbekistan – Multi soft Solution, Vades group, NPO Akadempribor, LOT of Ukraine.

As a result of studying the experience of foreign countries, based on the negotiations with foreign companies and the proposals received from them, it is planned to introduce an automated fare payment system in two stages in Tashkent.

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