EXCELLENCIA
INTERNATIONAL MULTI-DISCIPLINARY JOURNAL OF EDUCATION
Volume 02, Issue 06, 2024 ISSN (E): 2994-9521

Organizing Cargo and Passenger Transportation in Vehicles

Yusupov Bunyodbek [1]

[1] Student of Andijan Machine-Building Institute

Abstract:

In today's fast-paced world, efficient transportation of both cargo and passengers is vital for economic growth, social connectivity, and overall progress. Whether it's moving goods across continents or ensuring smooth commutes within cities, organizing transportation systems is a complex yet indispensable task. Effective organization not only enhances productivity but also minimizes costs and environmental impact. In this article, we delve into strategies for optimizing cargo and passenger transportation in vehicles.

Keywords: Great Silk Road, GPS, surveillance cameras, tamper-evident seals, water transport.

INTRODUCTION: Pursuant to the decision of the President of the Republic of Uzbekistan of March 6, 2019, No. PQ-4230 "On measures to radically improve the system of cargo and passenger transportation", further improvement of the system of organization of transport services, Many goals and tasks have been defined in terms of creating a competitive environment and favorable conditions for carriers of all forms of ownership and increasing the transport and transit potential of the Republic. Based on the decision, the "Road Map" on "Further Development of Passenger and Freight Transportation" was approved, and on the basis of this, effective work on the development of the sector is being carried out. The problem of providing urban residents with transport becomes especially important in the conditions of our republic's economic growth. It is impossible to increase the production of goods and services without the appropriate development of passenger transport in industrial centers. In addition, the stabilization of economic development leads to an increase in the well-being of the working population, which in turn determines the demands of passengers for the quality of transport.

It is known that after the independence of our country, there was a big change in its socio-economic and political directions. The period of transition to market relations, formation of ownership has begun. The process of transition to a market economy created a completely new system of

economic management in one of the leading sectors of the national economy, as in industry, construction and transport.

In a short period of time, our country gained the ability and power to produce products for the world market. We can see this in the form of "UzAuto Motors" automobile enterprise, which continues its activities in Asaka, Andijan region, and "SamKochavto" joint venture, which continues its activities in Samarkand in cooperation with Turkish businessmen. Now the state joint-stock corporation of road transport of Uzbekistan has been liquidated, and the public road transport under its control has been transferred to the authorities of the regions.

Decree of the President of the Republic of Uzbekistan on "De-monopoly and improvement of management of the automobile transport sector" PF 2871 dated June 4, 2001, Cabinet of Ministers "On measures to improve the organizational structure of management in the field of transport" According to the decision, the state joint-stock corporation "Uzavtotrans" was transformed into an association of cargo and passenger transport by automobiles. Its management includes associations of cargo and passenger transportation by automobiles in Tashkent city and regions and a number of enterprises of related sectors. Economic reforms are being carried out at a rapid pace in our country, measures to increase their effectiveness are being determined on a large scale. Economic reforms are being carried out in our country, and large-scale measures are being taken to increase their effectiveness. The gradual implementation of the reforms with the social protection of the population made it possible to further strengthen the stability and harmony of the citizens. This is reflected in various sectors of the national economy, including the public road transport network. Expropriation and privatization of enterprises are carried out rapidly. Reducing the number of loss-making enterprises, ensuring profitability for all types of transportation transferred to contractual tariffs, and social protection of employees remain the main tasks.

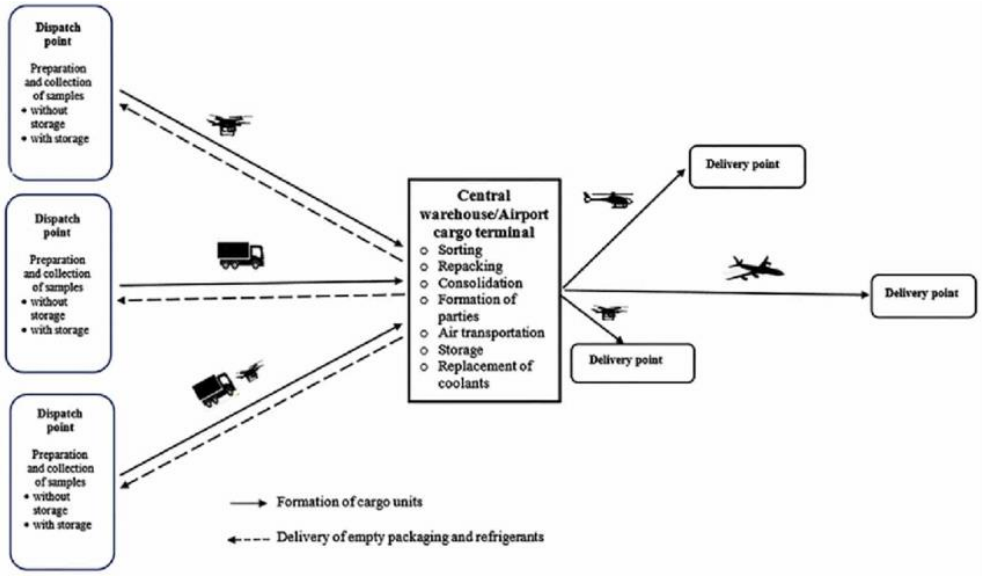
The following measures should be taken in order to start the work of road transport:

- ✓ use of advanced forms and methods;
- ✓ reducing idle parking times of cars;
- ✓ reduction of the distances from the car factory to the first loading point and from the last unloading point to the car factory and without a load;
- ✓ to improve the driving of cars and the use of trailers;
- ✓ development of centralized cargo transportation;
- ✓ to strengthen control over the work of cars on the route;

From the first years of independence, the government of the Republic of Uzbekistan made improving the transport system of our country and harmonizing it with the world transport system one of the primary tasks. Great work should be done on upgrading and updating the road transport system, which is of great importance in the improvement of the international transport corridor in the republic. Nowadays, the revival of the Great Silk Road has shown the need to expand the possibilities of international communications, air, railway and road transport. As our republic is a member of international transport conventions and agreements, newly established transport forwarding companies must perform transport and other service activities in accordance with international standards. Road transport is divided into public and network road transport. Public road transport is tasked with carrying out centralized cargo transportation. Public car transport transports the goods of organizations and enterprises, regardless of the branch they belong to. Network road transport belongs to a certain sector - companies and associations, and serves the constructions of enterprises and organizations of this sector.

It carries out all types of technological and economic cargo transportation of enterprises, organizations and constructions belonging to this sector. Car transport companies are organized to carry out transportation. Regional production system is used in public transport management. The following must be ensured in the management of motor transport enterprises:

- ✓ execution of the transportation process;
- ✓ planning of technical and economic indicators;
- ✓ labor and salary organization;
- ✓ accounting and financial activities;
- ✓ material and technical supply;
- ✓ gathering and training of specialists;
- ✓ general business and household work.



In order to solve these issues, technical and planning-economic services are organized at the automobile company. The organizational structure of the automobile enterprise depends on the type and content of transportation, the number and type of rolling stock, the form of maintenance and repair, the technical equipment of the automobile enterprise, etc. It is an important task to improve the activity of automobile enterprises, to increase the number of rolling stock, and to reduce the management links.

MAIN PART

Understanding the Dynamics

Transportation of cargo and passengers involves intricate logistics and coordination. Various factors such as distance, volume, urgency, and mode of transport come into play. For cargo, considerations like packaging, storage, and handling requirements further complicate the process. Similarly, passenger transportation entails factors like scheduling, route optimization, and passenger comfort.

Integrated Planning

Successful transportation organization begins with integrated planning. This involves synchronizing different aspects such as route planning, vehicle scheduling, and load optimization. By leveraging advanced technologies like GPS, machine learning, and predictive analytics, planners can anticipate demand patterns, optimize routes in real-time, and allocate resources efficiently. Integrated planning also facilitates multi-modal transportation, where different modes like road, rail, air, and sea are seamlessly integrated to provide end-to-end solutions.

Utilizing Smart Technologies

The advent of smart technologies has revolutionized transportation organization. Telematics systems, IoT sensors, and fleet management software enable real-time tracking of vehicles and shipments. This not only enhances visibility but also enables proactive decision-making and rapid response to contingencies. Automated systems for inventory management, load balancing, and route optimization further streamline operations, reducing idle time and fuel consumption.

Prioritizing Sustainability

In today's environmentally conscious world, sustainability is a key consideration in transportation organization. Adopting eco-friendly practices such as route optimization to minimize fuel consumption, implementing electric or hybrid vehicles, and promoting modal shift towards greener alternatives like rail and water transport are imperative. Additionally, integrating renewable energy sources like solar and wind power into transportation infrastructure can further reduce carbon footprint.

Enhancing Safety and Security

Safety and security are paramount in transportation organization, particularly when dealing with both cargo and passengers. Implementing robust safety protocols, conducting regular maintenance checks, and providing adequate training to drivers and staff are crucial for accident prevention. Similarly, employing advanced security measures such as surveillance cameras, tamper-evident seals, and GPS-enabled tracking devices ensures the integrity of cargo shipments and enhances passenger confidence.

Embracing Innovation

Continuous innovation is essential for staying ahead in the ever-evolving transportation landscape. Embracing emerging technologies such as autonomous vehicles, drones for last-mile delivery, and hyperloop systems can revolutionize transportation efficiency and capacity. Moreover, exploring novel business models such as ride-sharing platforms and on-demand delivery services presents new opportunities for optimizing resource utilization and enhancing customer experience.

CONCLUSION

Organizing cargo and passenger transportation in vehicles is a multifaceted endeavor that requires careful planning, technological innovation, and a commitment to sustainability and safety. By embracing integrated planning, leveraging smart technologies, prioritizing sustainability, enhancing safety and security measures, and embracing innovation, transportation stakeholders can create efficient, resilient, and environmentally friendly transportation systems that cater to the needs of both businesses and society at large. In doing so, they pave the way for a more connected and prosperous future.

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.