

THE ROLE OF PEDESTRIAN CROSSINGS AND PEDESTRIAN TRAFFIC LIGHTS IN TRAFFIC SAFETY AND TRANSPORT EFFICIENCY.

Khamidov Bunyod Imomali ugli

Tashkent region IIBB Qibray district IIB

Tel:+998991106751

Annotatsiya: Transport tizimining samaradorligi va xavfsizligi, shaharlar va qishloqlarda piyodalar va transport vositalari o'rtasidagi muvozanatga bog'liq. Piyodalar o'tish yo'llari va piyoda svetaforlari, bu muvozanatni ta'minlashda muhim rol o'ynaydi. Ushbu maqolada piyodalar o'tish yo'llarining va piyoda svetaforlarining harakat xavfsizligiga va transportda tashish samaradorligiga ta'siri ko'rib chiqiladi.

Kalit so'zlar: piyodalar o'tish yo'llari, transport vositalari, to'xtash, yo'l-transport hodisalari, svetaforlar, harakat.

Аннотация: Эффективность и безопасность транспортной системы зависит от баланса между пешеходами и транспортными средствами в городской и сельской местности. Важную роль в поддержании этого баланса играют пешеходные переходы и пешеходные светофоры. В данной статье рассмотрено влияние пешеходных переходов и пешеходных светофоров на безопасность дорожного движения и эффективность перевозок.

Ключевые слова: пешеходные переходы, транспортные средства, парковка, дорожно-транспортные происшествия, светофоры, движение транспорта.

Abstract: The efficiency and safety of the transportation system depends on the balance between pedestrians and vehicles in urban and rural areas. Crosswalks and pedestrian traffic lights play an important role in maintaining this balance. This article examines the impact of pedestrian crossings and pedestrian traffic lights on traffic safety and transportation efficiency.

Keywords: pedestrian crossings, vehicles, parking, traffic accidents, traffic lights, traffic.

INTRODUCTION.

Pedestrian crossings and pedestrian traffic lights in cities and villages play an important role in ensuring traffic safety and increasing the efficiency of transportation. Crosswalks are generally designated sections of road that allow pedestrians to safely cross cars and other vehicles. Pedestrian traffic lights are designed to regulate traffic between pedestrians and vehicles. Together, these two elements form an important part of the city's infrastructure, and their efficient operation helps to increase traffic safety, reduce traffic accidents and create a pleasant environment for pedestrians.

MATERIALS AND METHODS.

The importance of pedestrian crossings and traffic lights is not only related to safety, but also determines the dynamics of city life. Convenient pedestrian crossings and well-placed traffic lights ensure a balance between pedestrians and vehicles, which improves the efficiency of urban infrastructure. Also, these elements are aesthetically important in urban design and improve the interaction between pedestrians and drivers. Effective operation of crosswalks and traffic lights is also important for social justice. They provide safe and convenient passage for the disabled, children and other persons with limited mobility. Such conditions create equal opportunities for all strata of city life and ensure social stability. Therefore, pedestrian crossings and pedestrian traffic lights are important in ensuring traffic safety and increasing the efficiency of transportation. Their effective organization and operation is an important factor in the development of the city's infrastructure and the improvement of the quality of life of citizens.[6]

Crosswalks provide safe passage for pedestrians. They are important in the following aspects. Crosswalks reduce collisions between pedestrians and vehicles. Crosswalks encourage movement in designated areas for pedestrians, which helps prevent traffic accidents. Pedestrian crossings regulate the movement of vehicles. Marked crosswalks help optimize vehicle parking and movement times, which improves overall traffic efficiency. Pedestrian walkways are an important part of urban infrastructure and improve the aesthetic appearance of cities. They create a comfortable and safe environment for pedestrians, which increases the quality of urban life. Pedestrian traffic lights play an important role in regulating traffic between pedestrians and vehicles. Pedestrian traffic lights coordinate the movement of pedestrians and vehicles. Traffic lights determine the time of safe crossing for pedestrians and regulate the movement of vehicles. Pedestrian traffic lights provide safe passage for pedestrians. They tell pedestrians to stop when the light is red and move when the light is green, which helps prevent traffic accidents. Pedestrian traffic lights help to optimize the movement of vehicles. They determine the stopping and moving time of vehicles, which increases the overall transport efficiency.[4]

RESULTS AND DISCUSSIONS.

Pedestrian traffic lights perform a number of important functions in increasing traffic safety. Pedestrian traffic lights allow pedestrians to cross the road safely. The red light of the traffic light indicates that crossing the road is prohibited, and the green light indicates that it is possible to pass. Traffic lights remind drivers to observe and respect pedestrians. Pedestrian traffic lights ensure compliance with traffic rules and encourage drivers to drive carefully. Pedestrian traffic lights clearly mark pedestrian crossings. This improves the interaction between pedestrians and drivers and regulates traffic. Pedestrian traffic lights provide safe crossing opportunities, especially for

people with limited mobility, such as children, the elderly, and the disabled. Traffic lights also increase safety by providing special time for pedestrians. Pedestrian traffic lights regulate traffic within the city, which helps reduce traffic accidents. Traffic lights provide balance between pedestrians and vehicles. Pedestrian traffic lights improve the interaction between pedestrians and drivers. Driving with traffic lights increases trust between pedestrians and drivers. Pedestrian traffic lights must be visible, allowing pedestrians and drivers to easily see them. Good-looking traffic lights are important in improving traffic safety. In general, pedestrian traffic lights play an important role in increasing traffic safety, as they regulate the interaction between pedestrians and drivers and ensure safe traffic.[2]

Crosswalks allow pedestrians to cross the road safely. These areas are usually marked by traffic regulations and have safety measures. Crosswalks remind drivers to watch and respect pedestrians. Crossings may have pedestrian indicators and traffic lights. Crosswalks regulate traffic between pedestrians and vehicles. This will help reduce traffic accidents. Crosswalks provide clear and visible areas for pedestrians, which improve interactions between pedestrians and drivers. Pedestrian crossings create special spaces, especially for people with limited mobility, such as children, the elderly and the disabled. These places provide safe passage options. Crosswalks should be located in highly visible areas that allow pedestrians and drivers to easily see them. Crosswalks improve the interaction between pedestrians and drivers, which improves traffic safety. Crosswalks provide a balance between pedestrian and vehicular traffic, which eases traffic within the city. In general, crosswalks provide safe and convenient crossing opportunities for pedestrians and also provide safe movement for motorists.[5]

The following measures can be taken to increase the efficiency of transport. Introducing new technologies, such as automated control systems, modernizing the transport system by using GPS and IoT (Internet of Things) technologies. Simplifying traffic by improving the condition of roads, building new roads and widening existing roads. Procurement of efficient and energy-efficient vehicles and renewal of obsolete vehicles. Planning and optimization of transportation processes, for example, choosing the most efficient ways to deliver goods from one place to another. Reduce transportation costs and increase efficiency by consolidating and transporting cargo together. Implementation of traffic management systems, such as traffic control and traffic flow optimization. Use of energy-saving technologies in vehicles, for example, the introduction of electric vehicles. Improving safety in transportation processes, which increases the reliability and efficiency of vehicles. Education and training of drivers and logistics specialists, which increases the efficiency of transport processes. Integrating different transport systems with each other, for example combining road, rail and air transport. Implementation of environmentally friendly vehicles and technologies, which not only improve efficiency, but also protect the

environment. Establishing effective communication with customers and taking into account their needs, which increases the quality of service. These measures will help increase the efficiency of transport and ensure economic efficiency.

CONCLUSION.

Pedestrian crossings and pedestrian traffic lights play an important role in ensuring traffic safety and increasing the efficiency of transportation. They provide balance between pedestrians and vehicles, help prevent traffic accidents and improve the quality of urban infrastructure. Therefore, the effective organization of pedestrian crossings and pedestrian traffic lights is important in creating a safe and efficient transportation system in cities and villages.

REFERENCES.

1. Gulomov, A. (2020). "Traffic safety and pedestrian crossings". Tashkent: National University of Uzbekistan.
2. Saidov, B. (2019). "Pedestrian traffic lights and their impact on traffic." Tashkent: Institute of Transport and Logistics.
3. Karimov, D. (2021). "Safety and Efficiency in Transportation Systems." Tashkent: State Transport University of Uzbekistan.
4. Muradov, E. (2022). "Pedestrians and Transportation: Safety and Efficiency." Tashkent: Ministry of Transport of the Republic of Uzbekistan.
5. Toshpulatov, R. (2023). "The Social Significance of Crosswalks and Traffic Lights." Tashkent: State University of Architecture and Construction of Uzbekistan.
6. Kholmatov, S. (2021). "Traffic Management and Safety". Tashkent: National Transport University of Uzbekistan.