

The end of the 20th century and the beginning of the 21st century brought an information revolution that had a significant impact on transportation. GPS, smartphones, and other technologies allow for more efficient traffic management, route planning, and road safety.

In today's world, the development of transportation continues. The robotization of cars, the development of high-speed transport, and electric vehicles are becoming important areas of transport evolution.

Through innovation and strategic planning, transportation is becoming more efficient, environmentally friendly, and accessible to all. This never-ending dynamic of development demonstrates the importance of transportation in the evolution of humanity and in shaping our global lifestyle.

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INFORMATION TECHNOLOGIES IN TRANSPORT

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Recently, information is considered as one of the main resources for the development of society, and information systems and technologies - as a means of increasing labor productivity and the efficiency of personnel.[1]

According to the forecasts of many political scientists, at the current stage of the development of civilization, there is a gradual transition from an industrial to a post-industrial or information society. One of its definitions is as follows: information society is a theoretical concept of post-industrial society; historical phase of the possible development of civilization, in which the main products of production are

information and knowledge.[1]

Therefore, information technologies in transport are important when transporting passengers and cargo.

In the rapidly evolving landscape of the 21st century, the significance of information has ascended to unprecedented heights, reshaping the very fabric of our societies. From commerce to communication, governance to healthcare, information has emerged as the quintessential resource underpinning progress and development. Indeed, it has become increasingly evident that the harnessing of information, facilitated by advanced systems and technologies, holds the key to unlocking new frontiers of productivity and efficiency across various sectors.[2]

As we stand at the threshold of a new era, characterized by the transition from industrial to post-industrial or information societies, the centrality of information technologies cannot be overstated. This paradigm shift heralds a profound transformation wherein the production and dissemination of information and knowledge emerge as the cornerstone of economic activity and societal advancement.[2]

Within this overarching framework, the domain of transportation assumes paramount importance. Whether it be the movement of passengers or the conveyance of cargo, the efficiency and effectiveness of transportation systems are inextricably linked to the seamless integration of information technologies. In this context, the convergence of cutting-edge innovations in information systems with traditional modes of transportation holds immense promise for revolutionizing the way we navigate and traverse the physical world.[2]

The advent of intelligent transportation systems (ITS) exemplifies this symbiotic relationship between information technologies and transport. Through the deployment of sophisticated sensors, communication networks, and data analytics, ITS enables real-time monitoring and management of transportation infrastructure, thereby optimizing traffic flow, enhancing safety, and minimizing environmental impact. From smart traffic lights that dynamically adjust signal timings based on prevailing traffic conditions to predictive maintenance algorithms that preemptively identify and rectify

potential faults in vehicles and infrastructure, the applications of ITS are as diverse as they are transformative.[2]

Moreover, the proliferation of mobile technologies and internet connectivity has ushered in a new era of on-demand mobility services, revolutionizing the way people access and utilize transportation resources. Ride-hailing platforms, car-sharing schemes, and micro-mobility solutions have proliferated, offering consumers unprecedented flexibility and convenience while simultaneously fostering more sustainable and efficient modes of transportation.[2]

In conclusion, the integration of information technologies into the realm of transportation represents a pivotal juncture in the evolution of modern society. By harnessing the power of data, connectivity, and intelligence, we have the opportunity to transcend the constraints of conventional transportation systems and forge a future characterized by unprecedented levels of efficiency, accessibility, and sustainability. As we navigate the complexities of the information age, let us seize this momentous opportunity to chart a course towards a more interconnected, resilient, and prosperous future for all.[2]

DEVELOPMENT OF TRANSPORT TECHNOLOGY

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Transportation has always been an essential aspect of human civilization, enabling the movement of people and goods from one place to another. Over the years, advancements in technology have revolutionized the way we travel, making transportation faster, safer, and more efficient. From the invention of the wheel to the development of high-speed trains and electric vehicles, transportation technologies continue to evolve, shaping the future of mobility ,

One of the most significant advancements in transportation technology is the rise of electric vehicles (EVs). With concerns about climate change and air pollution on the rise, EVs offer a cleaner and more sustainable alternative to traditional