

MODERN TRANSPORT TECHNOLOGIES

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Transport plays an important role in our lives, providing mobility, connectivity and economic development. With advances in technology, we are seeing significant changes in transport that are revolutionising the way we move people and goods. Over the years, we have witnessed remarkable advancements in transport technologies, reshaping the way we travel and revolutionizing our world.

The main purpose of the transport industry is to unite different sectors of the economy of all regions of the country into a single whole by means of communication routes of different types of transport.

Transport also satisfies the needs of people in travelling and contributes to the improvement of the living standards of the population. Providing international division of labour, tourism and cultural relations, transport plays an important role in the world economic process and international relations. Ensuring the defense capability of the country is also largely determined by the state of the transport system, its ability to provide timely military transport.

According to statistics, 90% of accidents in the world are caused by human error, meaning that the most unreliable and dangerous part of driving a car, truck or bus is the human being.

In 2016, Elon Musk stunned the automotive world by announcing that from now on, all of his company's cars would come with the equipment necessary for “complete self-driving”. “You'll be able to take a nap in the car while it drives you to work,” he promised. The car will even be able to drive cross-country without people inside the vehicle [1].

In addition to being considered safer, the automatic driving system is able to calculate the most favourable driving mode in advance, which will reduce fuel consumption. The biggest benefit from such implemen-

tation is planned to be received by companies that are engaged not in passenger, but in freight.

However, there are some technical and legal challenges to the development of unmanned vehicles. In particular, the issues of safety, liability for accidents, and the regulation of traffic rules for such vehicles require serious attention and the development of relevant laws and technologies. Nevertheless, the use of unmanned vehicles in public transport has great potential to improve the quality of life in cities, reduce harmful emissions and provide safer and more efficient transport. Transport is a significant source of carbon emissions and air pollution. However, modern transport technologies have the potential to mitigate these environmental impacts. The introduction of electric vehicles reduces dependence on fossil fuels and therefore reduces greenhouse gas emissions.

Another recent innovation in transport, electric vehicles have been gaining significant popularity in recent years due to their ability to reduce carbon emissions and dependence on fossil fuels. These vehicles run on battery-powered electric motors, offering a sustainable alternative to traditional internal combustion vehicles. The increased availability of charging infrastructure and the development of longer-lasting batteries have broadened the appeal and practicality of electric vehicles. By providing cleaner air and reducing greenhouse gas emissions, electric vehicles are contributing to a cleaner and more sustainable future.

Modern transport technologies are changing the way we move, offering sustainable, efficient and innovative solutions to the challenges of the transport industry. Electric vehicles, autonomous vehicles are revolutionising the industry, promoting sustainability, efficiency and accessibility. Reduced fuel and maintenance costs, lower emissions, access to government benefits and increased comfort during journeys all make the use of electric vehicles a profitable and efficient choice for many car owners. When implementing these technologies, it is important to continue to invest in research and infrastructure to maximise their potential benefits. In this way, we can create a future where transport is not only efficient, but also environmentally friendly and accessible to all.

References

1. US doesn't believe Elon Musk's promises of near-complete unmanned driving [Electronic resource] – Mode of access: <http://vestnik-glonass.ru/news/avtonet/>. – Date of access: 10.03.2024.