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## REDUCING THE CONSEQUENCES OF TRAFFIC INCIDENTS IS TODAY'S CHALLENGE

Submission Date: January 07, 2024, Accepted Date: January 12, 2024,

Published Date: January 17, 2024

Crossref doi: <https://doi.org/10.37547/ijmef/Volume04Issue01-08>

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### ABSTRACT

Today, a systematic approach is needed to reduce traffic accidents and the level of injuries caused by them, as well as to increase the stability of the entire transport system. For these purposes, various methods and models are used, involving technical and intellectual resources, in order to improve the quality of transport system management.

The article provides information on traffic accidents occurring worldwide and their analysis, as well as their prevention.

### KEYWORDS

Traffic accidents, traffic rules, level of injury, practical driving of a car, driver's candidate.

### INTRODUCTION

According to the World Health Organization, 1.35 million people die in road traffic accidents every year. This means an average of 3700 people per day, and 24 people per second. It is the 8th leading cause of death

in the world population of all ages and is the leading cause of death for people between the ages of 5 and 29. Also, 20 million to 50 million people suffer various injuries as a result of traffic accidents [1].

More than 50% of those killed in traffic accidents are pedestrians, cyclists and motorcyclists. In low- and middle-income countries, the mortality rate for this group of people is up to 70%.

The World Health Organization organizes the Global Road Safety Week every year. As noted at this year's meeting, which began on May 15, 2023, Africa has a high rate of road traffic deaths. In the hottest continent, a third of such cases end in a sad outcome. According to this organization, in 2023, the leaders in the number of deaths per 100,000 people as a result of traffic accidents are Liberia (35.90), the Democratic Republic of Congo (33.70) and the Central African Republic (33.60). The main reasons for this are the lack of funding for the appropriate infrastructure in these countries, the lack of adequate and demanding roads for the growing number of vehicles, as well as the lack of timely and high-quality medical care for people affected by traffic accidents. Also, Hong Kong (1.20), Micronesia (1.90), Norway (2.0), Switzerland (2.20) and Sweden (2.20) have the lowest rates of road traffic deaths among the countries of the world.

Every year on the third Sunday of November, the World Day of Remembrance for the victims of road traffic accidents is celebrated, its status is confirmed by the resolution of the General Assembly of the United Nations. On this day, the issues of remembering those who died in road accidents, road safety and preventing death in road accidents will be discussed.

"Traffic accidents are a kind of gentle and silent epidemic on wheels. Our meeting at this conference is a vital opportunity to make progress and take concrete actions," said the Secretary-General in his speech to the representatives of 193 UN member states gathered in the UN General Assembly Hall in New York. [2].

EU road deaths up 3% in 2022 compared to last year, as road traffic recovers after pandemic [3].

It's important to note that many of the gains made during the pandemic (including a 17 percent drop between 2019 and 2020) have not been lost. Compared to 2019, the number of deaths in 2022 decreased by 10 percent. However, this indicator developed very unevenly among the EU member states. The largest declines were recorded in Lithuania and Poland (more than 30%), while Denmark also recorded a 23% decline. In contrast, the number of road deaths has remained fairly stable or increased in countries such as Ireland, Spain, France, Italy, the Netherlands and Sweden over the past three years. [4].

According to statistics, Russia is in 12th place in the world in terms of the number of people killed on the roads. About 18 thousand people die on the roads in this country every year. [5].

Based on statistics from different countries, it follows that the main and more common cause is speeding, which takes a lot of lives.

The World Health Organization has found that about 40-50% of all drivers exceed the speed limit, among which 4-5% are fatal per 1 km/h of excess speed.

In Russia the rate of speeding is 31%, while in Germany it is 20%. If you look at this figure in the USA, it is close to Russia and amounts to 30%.

At the same time, in Russia the non-fine speed limit is 80 km/h, of which 60 km/h is the permissible speed and 20 km/h is non-fine; in Germany, the permissible speed is 50 km/h and the non-fine is 3 km/h. In the US, speed limits vary by state. On average, the highway limit is 96-128 km/h.

Another reason why a large number of traffic accidents occur on roads in the world is drunk driving. The leader in road accidents for this reason is the United States - 32% of fatal accidents. In Germany – 17%. In Russia this figure is about 7%.

There are also many other causes of road accidents. But just look at the data above and understand that you should not neglect the rules of the road, since the price for any mistake made can be high.

According to the World Organization, it is not enough to bring the death on the roads to zero. In this process, it is important that pedestrians know and follow the rules of the road, as well as the safety systems of the vehicles and the safe design of the roads. The acceleration of the processes of urbanization and globalization of the economy, the increase in the number of megacities leads to the development of population mobility and logistics processes. Solving these problems is provided by the increase in the population's need for cars and the growth of the number of commercial transport fleets, which, in turn,

leads to an increase in the number of traffic accidents, aggravation of their consequences, and a decrease in the safety of the transport system as a whole.

The UN General Assembly aims to reduce the number of deaths and injuries in traffic accidents by 50% by 2030. Experts envision achieving this by transitioning to roads and road networks focused on human safety. Improving road safety worldwide is a priority, which is addressed not only at the level of general strategies, but also in operational management tools. A systemic approach is needed to reduce traffic accidents and injuries, as well as increase the stability of the entire transportation system. For these purposes, various methods and models are used, involving technical and intellectual resources, in order to improve the quality of transport system management [6].

In order to create an effective traffic management system on the roads, it is necessary to have a tool that allows you to identify the most important factors using modern data, analyze various scenarios of the development of events, make timely corrective decisions, and then evaluate their effectiveness.

A management strategy based on a systematic approach is effective in terms of ensuring road safety, because due to the combination of technical and organizational measures, it allows to predict and prevent many accidents, as well as to reduce the severity of their consequences [7].

Identification and analysis of factors that have a significant impact on the probability and severity of the

consequences of traffic accidents, as well as influencing them by determining the general forms and causes of accidents, predicting the probability of their occurrence and evaluating their possible consequences, and thereby significantly increasing the level of traffic safety allows.

Statistical analysis of traffic accidents on roads shows that 90-93% of traffic accidents occur due to the human factor and the characteristics of his behavior [8].

Therefore, the most urgent and effective solution to prevent traffic accidents should be focused on the human factor. The most important of these is the process of high-quality training of drivers.

It is possible to prevent the growth of traffic accidents by studying and analyzing the best practices of the developed world, i.e. foreign countries with a high degree of automobilization, on learning and mastering traffic rules during the training of drivers.

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