



## ROAD TRAFFIC ACCIDENT PREVENTION ACTIVITIES: SCIENTIFIC FOUNDATIONS AND FOREIGN EXPERIENCE

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**Abstract:** This article shows that scientific research and foreign experience indicate comprehensive measures are required to prevent road traffic accidents, such as speed control, high-quality driver training, strengthening penalties, and improving road infrastructure. By applying these approaches in Uzbekistan, it is planned to reduce the number of road traffic accidents.

**Keywords:** road traffic accidents, prevention, foreign experience, speed, fatality.

Statistics on road traffic accidents (RTA) in Uzbekistan for recent years are as follows: 2021: A total of 10,001 RTAs occurred in the country, resulting in 2,426 fatalities and 9,230 injuries.[1] 2022: 1,200 traffic accidents were recorded in the capital, Tashkent. In these incidents, 136 people died and 1,463 were injured[2]. 2023: From January to November, 8,693 road accidents occurred across the republic, resulting in 2,080 fatalities and 8,055 injuries.[3] 2024: From January to May, traffic accidents involving 359 students occurred, resulting in 65 student fatalities and 294 students suffering injuries of varying degrees[4]. Road traffic accidents (RTA) are a pressing problem worldwide, and scientific research on their prevention suggests: 2024: In January-May, a traffic accident involving 359 students occurred, resulting in 65 deaths and 294 injuries of varying degrees:

**Speed control.** According to research, reducing the average speed by 5% can decrease the number of fatal accidents by 30%. An increase in speed extends the stopping distance and increases the probability of an accident[5];

**Driver training.** According to the World Health Organization, road accidents rank eighth among the main causes of death. Training drivers using scientifically based methods plays an important role in reducing road traffic accidents[6];

**Road Traffic Accident Registration System.** By improving the system of recording and analyzing road accidents, it is possible to develop effective measures for their prevention[7].

In this regard, according to Professor Susan L. Handler, she conducts legal research on road safety and the prevention of traffic accidents. While her work is aimed at ensuring traffic rules and their implementation, Professor John D. Goldman states: He conducts legal research on traffic rules and the prevention of road accidents. His work is aimed at ensuring traffic rules and their implementation.

Professor Linda R. Hirshman conducts legal research on road safety and the prevention of traffic accidents. Her work is aimed at ensuring traffic rules and their implementation.

**Foreign experience**

The USA has one of the most advanced systems for ensuring road safety, and the country implements measures to prevent road accidents through various approaches.

1. Activities of the National Highway Traffic Safety Administration

In the USA, the National Highway Traffic Safety Administration (NHTSA) implements various programs aimed at improving road safety. These programs include:

- improvement of driver training programs;
- enhancement of road signs and markings;
- implementation of new technologies, including automated safety systems[8].

#### 2. Development of public transport infrastructure

In major US cities, public transport systems serve to reduce the number of vehicles on roads and prevent road accidents. For example:

The public transport infrastructure in Washington has been developed in accordance with demand.

In the cities of New York, San Francisco, and Los Angeles, metro and bus routes help reduce traffic density[9].

#### 3. Combating drunk driving

There are strict measures against drunk driving in the USA. The following have been implemented in practice:

Road patrol services conduct raids to check drivers.

Internal affairs bodies will develop prevention strategies by studying the causes of road traffic accidents.

Strict penalties are applied for driving under the influence of alcohol[10].

#### 4. Analysis and prevention of road traffic accidents

In the USA, much attention is paid to the analysis of the causes and conditions of road accidents to prevent them. Based on these analyses, preventive measures are developed and implemented.

The cause of each accident is analyzed in detail.

Dangerous roads and areas are identified based on statistical data.

The city's infrastructure will be redesigned taking into account road safety[11].

#### Conclusion

The experience of the USA shows that the following factors are important for the prevention of road accidents:

Activities of state bodies overseeing road safety.

Development of public transport infrastructure.

Strict laws on the prevention of drunk driving.

Measures based on scientific research on the analysis and prevention of road accidents.

By implementing these approaches in the conditions of Uzbekistan, it is possible to improve road safety.

German experience in the prevention of road accidents

Germany has a successful experience in ensuring road safety and implements the following measures to prevent road traffic accidents:

#### 1. Analysis and prevention of road traffic accidents

In Germany, great attention is paid to the analysis of the causes and conditions of road accidents to prevent them. Based on these analyses, preventive measures are developed and implemented[12].

2. Activities of the National Road Safety Administration. Various programs aimed at improving road safety are being implemented in Germany. These programs include driver

training, improvement of road signs and markings, as well as the introduction of new technologies.

1. Analysis and prevention of road traffic accidents

In Germany, great attention is paid to the analysis of the causes and conditions of road accidents to prevent them. Based on these analyses, preventive measures are developed and implemented[12].

2. Activities of the National Road Safety Administration. Various programs aimed at improving road safety are being implemented in Germany. These programs include driver training, improvement of road signs and markings, as well as the introduction of new technologies.

3. Development of public transport infrastructure. In large German cities, public transport systems are developed, which helps reduce the number of vehicles on roads and prevent road accidents.

4. Fighting drunk driving. In Germany, strict measures are taken against drunk driving. For the inspection of drivers, raids are conducted by the road patrol service, and strict penalties are applied to the offenders[13].

5. Road Traffic Accident Registration System. In Germany, the system of accounting and analysis of road accidents has been improved, which contributes to the development of effective measures for their prevention.

1. Strict sanctions and punitive measures. Foreign experience shows that in developed countries, the system for preventing road traffic accidents is based on strict sanctions and punitive measures. (Source: Aniq.uz, 2023)

2. Motorcycle groups of the road patrol service. In Tashkent, Samarkand, and Khorezm regions, road patrol service motorcycle groups have been formed as an experiment to prevent road accidents in difficult-to-access areas.

3. Updating road signs and markings. The practice of regularly updating road signs and markings to increase drivers' compliance with traffic rules has proven its effectiveness.

Conclusion

Scientific research and foreign experience show that the prevention of road accidents requires a set of measures, such as speed control, high-quality driver training, strengthening penalties, and improving road infrastructure. By applying these approaches in the conditions of Uzbekistan, it is possible to reduce the number of road accidents.

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