

## The Role of the Constitution of the Republic of Uzbekistan in Preventing Road Transport Incidents and Advanced Foreign Experience

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### ABSTRACT

*This article examines the measures taken in the field of road safety of the Republic of Uzbekistan, the development trend of road safety and the "Basic rights, freedoms and duties of people and citizens" mentioned in the Constitution. Foreign experiences in ensuring road traffic safety are considered separately, and the specific aspects of each country's experience are emphasized and noteworthy aspects are highlighted.*

**KEYWORDS:** *the newly revised constitution, traffic safety, foreign experience, driver, law, decision, innovative ideas, traffic accident statistics.*

Nowadays, modern life cannot be imagined without automobile transport. The number of cars is increasing year by year, but unfortunately, the number of traffic accidents is also increasing. Traffic accidents caused by the fault of drivers make up the majority of all accidents. The ability of drivers to prevent traffic accidents depends on their level of preparation.

Driving a vehicle requires the driver to make the right decisions in a rapidly changing environment. With a constant lack of time, the driver cannot analyze in detail all possible courses of action and evaluate their consequences, as well as consult with someone about the correctness of the chosen decision.

are mentioned in Articles 19-20 and 21 of the second section of the newly revised Constitution of the Republic of Uzbekistan "Basic Rights, Freedoms and Duties of Man and Citizens" [1].

According to the latest data provided by the World Health Organization, **1 million people die every year as a result of road traffic accidents. About 350,000 people die prematurely, and more than 20 million suffer various degrees of physical injuries**, many of them remain disabled.

**20%** of all traffic accidents occur at "Pedestrian Crossings", and about **80%** occur as a result of hitting pedestrians crossing the road in an unmarked, i.e. where crossing is not allowed. Most of them are young people aged **5-29**.

Many measures have been taken to prevent traffic accidents in our country. But despite this, it cannot be said that there are many positive changes in this regard. During 9 months of 2023,

**These traffic accidents by type were analyzed:**

- 28.6 percent hitting a pedestrian;
- 17.4 percent hit a cyclist;
- 24.2 percent of shootings ;

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- 9.3 percent of a car rollover;
- 7.7 percent hitting a standing vehicle;
- 8.4 percent hit the barrier;
- 0.6 percent hit a horse-cart;
- 3.4 percent are other types . [ 2 ]

Many regulatory legal documents have been adopted in the countries of the world that regulate issues related to pedestrian safety:

- "Road Traffic Act" ;
- "Act on Special Cases Concerning the Settlement of Traffic Accidents"
- "Traffic Safety Act" ;
- "Motor -vehicle Management act and others.

### **Light-emitting road strips for pedestrian safety in the Netherlands "**

in Holland light-emitting road lines are used during the dark hours of the day . **To apply bright lines, a special** fluorescent paint is used , which is able to collect light energy during the day . then glows for 10 hours at night. These road lines are widely used in places where street lighting is not available, on sidewalks and pedestrian crossings .

They are visible from a distance to road users and provide an opportunity to take appropriate action. (Fig. 1.) .



The " **Smart Highway** " project was developed in 2012 by Roosegaarde & Heijmans. The goal is to create interactive paths of the future using different technologies. Figure1. Smart Highway

### **"Smart Zebra" for pedestrian safety in the UK.**

in Great Britain it has sensitive sensors that detect pedestrian movements and warn drivers of danger. (Figure 2).

- Also works in reverse, meaning it warns the pedestrian of an oncoming vehicle.
- The sidewalk with light diode works in several modes.
- When the road is open, i.e. there are no cars or cyclists, it automatically turns green.
- The initial length of the zebra is 22 meters. If there is a large number of people crossing the road, it will increase in width.

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**Figure 2. Smart Zebra**

- The system can illuminate pedestrians and warn drivers during the dark part of the day.
- When a vehicle approaches a zebra, the lane turns red.

### "Smart Zebra" for pedestrian safety in South Korea.

South Korea has implemented many reforms in this area and achieved a significant reduction in the number of traffic deaths involving children.

If we take the example of the success of the Republic of South Korea, this country managed to reduce the number of deaths of children in car accidents by 95% during the period 1988-2022. (Figure 3).

- Improving the condition of roads near schools;
- Ensuring safe transportation of school buses for children;



**Figure 3: Civic Groups**

- Providing quality education to children on road safety;
- This includes supporting civilian groups specializing in road safety.

Civic groups (including volunteer organizations) that aim to promote road safety in Korea are civil society organizations formed at the request of the police or schools.

Systematic works are being carried out to ensure road safety in Uzbekistan, including the construction of new roads and overpasses, as well as underground and surface pedestrian crossings in cities and villages. During the 11 months of 2023, approximately 9,200 horizontal lines, 650 call button traffic lights were installed and 18 underground and overpasses were built.

### Recommendations on the introduction of modern technical means

Smart security system for unregulated pedestrian crossings apply. This system has shown its effectiveness in Sweden, Germany, Japan, and Russia.

there is a smart security system for unregulated pedestrian crossings , which is installed on the **pedestrian** crossing and records what happens on it. When approaching a pedestrian crossing, the system detects the movement of an object using the Smart Detector software. (Fig. 4.)

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Automatic on the built-in LED panel of the pedestrian approaching the pedestrian crossing



**Fig 4: Smart Detector software**

the activation is monitored by sending a signal and the " Allow Pedestrian " inscription on the panel is activated, and at the same time the floodlights illuminate the pedestrian crossing. This gives the driver ample opportunity to react in time, slow down and avoid traffic accidents.

At the same time, traffic lights and road signs with LED lights turn on the "Pedestrian Crossing" road line projection in the dark and form on the surface of the carriageway.

At the same time as it is activated, it records the process of pedestrian crossing the road and stores it in the memory of the local server, calculating the intensity of pedestrian and car traffic. It also has the ability to store data separated by date, time and direction of movement for further processing and analysis.

Motion sensor elements have the ability to automatically detect movement in the process of pedestrian crossing, and switch to standby mode when movement is not detected. The program has the ability to distinguish between adults, children and pets .

#### ***Performance indicator in practice:***

- 82% reduction of the probability of a collision between pedestrians and vehicles;
- An average increase in vehicle speed by 27% has been achieved;
- A 30% reduction in the delay time for the vehicle to reach its destination has been achieved ;
- vehicle parking time has been achieved;
- Road line indicating "Pedestrian Crossing" by projection light looks good ; [3]

In conclusion, it can be said that ensuring traffic safety by using modern techniques and innovative equipment to prevent traffic accidents involving pedestrians, and increasing propaganda activities with them, teaching the culture of road traffic from a young age, and regular distribution of mass media, public information, have a permanent name. and if we increase social advertising and educational programs on the topic of traffic safety in print newspapers, magazines, newsletters, bulletins and electronic TV, radio, video, newsreel programs, websites on the Internet information network, the intended goal will be achieved.

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