

## **Mobile Technologies and Traffic Safety**

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**Abstract**

*ICT is one of the most important factors that can accelerate the transition in every region. They are the main way to develop a network economy and information society, through which we can reach western European standards. The fact is that ICT technologies are not yet properly exploited. It's not enough, just to introduce new technologies in the traffic as a means of organizing and distributing of traffic information but solves traffic problems. Information technologies are represented in all fields of society and science, including the traffic and transport. They are the base of intelligent systems. Traffic demand is growing steadily in the whole world and today the authorities are faced with daily challenges, such as the road and the time spent traveling. There should be certainly added global concern about the protection of the environment and different kinds of contaminations including noise and vibration caused by today's level of motorization.*

**Keywords**

*Congestion, Noise, Vibration.*

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## **Introduction**

We are in a time when computers are taking more and more place in everyday life. There was small number of those who dared to use computers in various disciplines and areas like astronomy, physics, medicine, economics, and traffic, using business intelligence programs, that would take the most important things from various databases as they were "irrelevant" information, what is crucial for today's decision. But of course, it has all the advantages and disadvantages. Information technology (IT) is a term that describes the components (hardware equipment) and programs (software) that enables us to access, retrieve, organize, manipulate and present information electronically. ICT offers a wide range of specific advantages: increased efficiency and productivity, sharing and storing of information, communication, faster accumulation, dissemination and application of knowledge. ICT is one of the most important factors that can accelerate the transition in the region. They are the main way to develop a network economy and information society, through which we can reach western European standards. The fact is that ICT technologies are not yet properly exploited. It's not enough, just to introduce new technologies in the traffic as a means of organizing and distributing of traffic

## **ICT in The Traffic**

Nowadays as we are living in a technology-based era Information technologies are represented in all fields of society and science, including the traffic and transport. They are the base of every intelligent system. With development, the lifestyle and needs of people are changed as they have to visit faraway places and traffic demand is growing steadily in the whole world and today the authorities are faced with daily challenges, such as the road and the time spent traveling. There should be certainly added global concern about the protection of the environment and different kinds of contaminations including noise and vibration caused by today's level of motorization. The main concerns are faced by the whole world are environmental issues and road blocking, sometimes deadlocking on roads.

The main issues are:

- Traffic congestion

## **How Mobile can be Helpful**

During the last ten years, we are witness of increased use of computers and information technologies in transport infrastructure. Continued development and implementation of these systems come from the belief that intelligent transport

systems promise an increase of capacity and productivity of traditional transport infrastructure as well as contribution to achieving of other goals such as security. Intelligent transport systems include a wide area of information based on wireless technology. Incorporated into the infrastructure of the transport system and the vehicle itself, these systems help in controlling and managing of traffic flows, reducing of traffic finding alternative routes saving of the environment and saving time and many.

The main reason for the development of mobile applications is to enable information about the road conditions for all participants in the traffic at the proper time with the intention to reduce costs and loss of valuable time as well as reduction of congestion in urban and suburban areas. There is also an intention to reduce pollution by harmful gases and reduce noise levels enabling a pleasant and healthy environment for all citizens. The questions that arise are:

1. Will the use of these mobile applications increase the level of vigilance of indrivers?
2. Will the number of accidents and congestion be reduced in the city?
3. Will this application and to what extent improve the quality of the life of

### **Use of Mobile on Roads**

Mobile phone use while driving is common, but it is widely considered dangerous due to its potential for causing distracted driving and crashes. Due to the number of crashes that are related to conducting calls on a phone and texting while driving, some jurisdictions have made the use of calling on a phone while driving illegal. Many jurisdictions have enacted laws to ban handheld mobile phone use. Nevertheless, many jurisdictions allow the use of a hands-free device.

Driving while using a hands-free device is not safer than using a handheld phone to conduct calls, as concluded by case-crossover studies, epidemiological, simulation, and meta-analysis. In some cases, restrictions are directed only at minors, those who are newly qualified license holders (of any age), or to drivers in school zones. In addition to voice calling, activities such as texting while driving, web browsing, playing video games, or phone use, in general, can also increase the risk of a crash. If the use of cell phones is banned on roads while driving, then there would be a reduced amount of :

1. Road accidents
2. Deaths
3. Resources Utilization

## Conclusion

As mobile technologies are increasingly becoming a part of life, travelers on roads face the ongoing necessity to use them responsibly and with caution to avoid road accidents and injury. Since the dawn of mobile phones, road safety has become a no lesser public health concern with global figures showing that every year, about 1.3 million people die in traffic-related accidents and another 20-50 million people are injured mainly in developing countries, including India. It can be assumed that misuse of mobile phones is a silent killer because we have no indicators or research to capture the number of accidents resulting from this tendency. When caught using the phone while driving, most road users argue there is no equipment that can detect it the way speed traps and breathalyzers detect cases of over-speeding

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