



## NTUA Road Safety Update - January 2012



National Technical University of Athens  
Road Safety Update

January 2012

### Road Safety Strategic Plan for Greece 2011-2020 adopted



The National Road Safety Strategic Plan for Greece 2011-2020 has been prepared by the Department of Transportation Planning and Engineering of NTUA under the scientific supervision of Prof. G.Kanellaidis and has been recently adopted by the Ministry of Infrastructure, Networks and Communication. In this strategic plan, the European quantitative target is adopted: to reduce the number of road fatalities by 50% between 2010 and 2020 and a long term vision is set: to develop road safety culture in the Greek society. On that purpose, a comprehensive list of specific actions within targeted programmes is proposed, in order to be carried out within a new structure of central, regional and local authorities, as well as of all road safety stakeholders in Greece. [en](#) [gr](#)

### TRB Annual Meeting 2012



The Transportation Research Board (TRB) 91th Annual Meeting was held in Washington, D.C., in January 2012. NTUA presentations concerned:

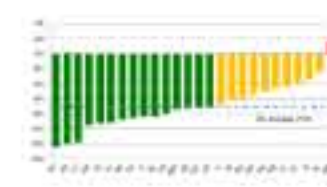
- [Effects of alcohol on speeding and road positioning among young drivers: a driving simulator study](#)
- [Analysis of pedestrian risk exposure in relation to crossing behaviour](#)
- [Modelling the effects of weather and traffic on the risk of secondary incidents](#)
- [Identifying Outlying Power Two Wheeler Riding Behaviors at the Emergence of an Incident](#)
- [Promoting safe driving at an older age](#)
- [Towards a global set of injury crash data](#)

### Road fatalities characteristics, Greece 1991-2010



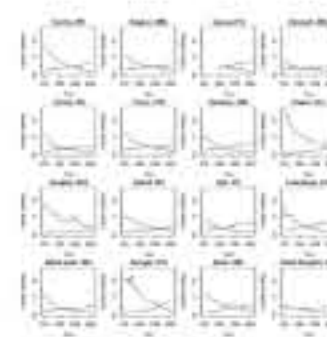
Basic characteristics of road fatalities in Greece for the period 1991 - 2010 are summarised in a comprehensive Table (data source:ELSTAT). After 20 years, there are about 800 less road fatalities per year in Greece. According to these time series data an important decrease in road fatalities for young people and pedestrians is observed during the last decade, as well as a spectacular decrease in fatalities outside urban areas. On the contrary fatalities decrease during the last decade is limited for motorcyclists and older people. [en](#)

### Reducing road deaths among young people 2011



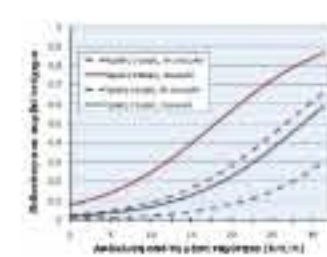
In November 2011, ETSC published a PIN Flash concerning young people. Young men are four times more likely to die on EU roads than young women. The annual average reduction in road deaths among young people is higher than the corresponding reduction for the rest of the population, but in Hungary, Greece, Poland, Ireland, Finland and Romania the opposite is true and road safety of other age groups has improved more. NTUA Associate Professor, George Yannis stated that: "when adjusted for exposure, accident risk for the 18-24-year-old motorcycle riders (202 deaths per million vehicle-km driven) is 8 times higher than the risk for young car drivers (25 deaths per million vehicle-km travelled) and 25 times higher than the risk for older car drivers (8 deaths per million vehicle-km travelled)". [LINK](#)

### Autoregressive nonlinear time-series modeling of traffic fatalities in Europe 2011



A research titled 'Autoregressive nonlinear time-series modeling of traffic fatalities in Europe' co-authored by G.Yannis, C.Antoniou and E.Papadimitriou from NTUA, was published in the Journal of European Transport Research Review in August 2011. A macroscopic analysis of road-safety in Europe at the country level is proposed through the application of non-linear models correlating fatalities and vehicles for the period between 1970 and 2002. The proposed models can prove useful for assessing the road safety performance of the examined countries, as well as for obtaining some insight on the current and future trends of less developed countries. [DOI](#)

### Impact of the conversation with passenger, eating and smoking on driver behavior and road safety 2010



A Diploma Thesis titled "Investigation of the impact of the conversation with passenger, eating and smoking on the driver behavior and the probability of being involved in an accident by the use of a driving simulator" was presented by Charalampos Bairamis and Vasileios Sklias in October 2010. From the lognormal regression models developed it appeared that conversation, eating and smoking lead to a statistically significant decrease in speed, while the difficult conversation leads also to an increase in reaction time and decrease in the distance of the vehicle from the right borderline. From the binary logistic model developed it appeared that the difficult conversation leads to an increased likelihood of an incident. In summary, it appears that the lower speed and the deviation to the right of the drivers who have a difficult conversation while driving cannot offset the much greater risk of an accident due to increased reaction time.

This Road Safety Update aims to support frequently the Greek and the International Road Safety Community with current key road safety knowledge and data, which is gathered, analysed and organised within the research activities of the Department of Transportation Planning and Engineering of the National Technical University of Athens.

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### About NRSO



The mission of the NTUA Road Safety Observatory ([www.nrso.ntua.gr](http://www.nrso.ntua.gr)) is to support the Greek and the International Road Safety Community with current key road safety knowledge and data, which are gathered, analysed and organised within the research activities of the Department of Transportation Planning and Engineering of the School of Civil Engineering of the National Technical University of Athens, as well as within co-operations with various national and international road safety organisations.

The NTUA Road Safety Observatory has been developed within the framework of two European Union co-funded research projects, namely SAFETYNET - Development of the European Road Safety Observatory (2004-2009) and DACOTA - Road Safety Data Collection, Transfer and Analysis (2010-2012), with Scientific Responsible for NTUA, Professor George Yannis.