



## NTUA Road Safety Update - December 2014 - Best Wishes for 2015



### NTUA best wishes for a joyful and safe 2015

We heartily wish you **very joyful Christmas holidays and a very happy and fruitful new year 2015**, plenty of personal and professional achievements. Let's dream, let's hope and let's work systematically for a more bright 2015, getting closer to the road casualties zero vision in Europe. 🇪🇺

### European Commission Transport Safety Conference - Genoa 2014

The Conference on Transport Safety: Societal challenges, Research solutions, was organised by the European Commission and the Italian EU Presidency and took place with great success on 4-5 December 2014, in Genoa, Italy. More than 350 road safety experts, stakeholders and decision-makers participated and contributed actively at the Conference structured interactive debates. [LINK](#)

The conference addressed the safety challenges specific to each mode but also the common issues and concerns that cut across them – notably **human factors, automation and data management** – taking into account societal challenges, policy requirements, technological developments and economic benefits to assess the future needs for transport safety, and identify priorities for activities in Horizon 2020 and beyond. The Conference results are summarised at the Conference Final Statement. [LINK](#)

NTUA Prof. George Yannis delivered the final key note speech titled: 'Major societal challenges and research solutions in transport safety in Europe' 🇪🇺

### European Commission - Road Infrastructure Safety Management Conference - Brussels 2014

The stakeholder Conference on Road Infrastructure Safety Management organised by the European Commission took place with great success on 13 June 2014, in Brussels. More than 80 key road safety experts, stakeholders and decision makers participated and contributed actively to the Conference discussions. The Conference was part of the study for the **evaluation of the costs and benefits associated with Directive 2008/96/EC on road infrastructure safety management** and focused on three key topics: Vulnerable Road Users, Intelligent Transport Systems and Measurement of Safety Performance of the Roads. [LINK](#)

The complete conclusions are now available. [LINK](#)

NTUA Associate Professor George Yannis summarised the challenges and the concluding remarks for each of the three key topics: 'Current and future challenges of the Directive 2008/96/EC' 🇪🇺

### PROS - European Road Safety Research Roadmap 2014

A **comprehensive European road safety research roadmap** has been prepared within the framework of the EC co-funded support action PROS - Priorities for Road Safety Research in Europe. About 120 experts from more than 40 stakeholder organisations - with the active participation of NTUA - have contributed to the development of this roadmap within the two years of running time of the PROS support action. This Report contains a complete research topics list with their priorities together with a long-term road safety research roadmap. This roadmap is expected to be exploited by the European Commission, National Administrations, the Industry and the European Research Community in order to guide road safety research activities within the coming years. [LINK](#)

### EC European Transport Safety Research 2014

The European Transport Safety Research Report is just published by the European Commission. In the last ten years, safety has increased across all modes, the EU set ambitious targets in its 2011 Transport White Paper, but much more needs to be done. The purpose of this Report is to demonstrate **the amount of research effort** being spent in each of Europe's transport sectors to deliver a safer transport system for the 21st Century. [LINK](#)

### EC Travelling Safely in Europe by road, rail and water 2014

The European Commission has released the new Policy Brochure 'Travelling Safely in Europe by road, rail and water'. The publication highlights the contribution of EU research in improving safety of vehicles and infrastructure, and enhancing user behaviour, with **the overall goal to improve safety of the European transport system** and meet the ambitious targets to reduce fatalities and injuries on land and sea throughout the European Union. [LINK](#)

### EC Deployment of vehicle technologies to improve road safety 2014

A document on the potential road safety improvements offered by in-vehicle safety systems and Intelligent Transport Systems (ITS) technologies has been released by the European Commission. The aim of this document is to provide a view on the **potential of these technologies to prevent accident or reduce their consequences** and on how to best promote the deployment of those seen to be most effective. [LINK](#)

### ERTICO ITS Library 2014

The latest tool of the ERTICO - ITS Europe is the ITS Library, a large collection of ITS related documents, videos, audio recordings and presentations. These materials relate to ITS in general, ITS projects, and ITS publications (academic and other). Thousands of document have been collected and published to provide useful access to **a vast amount of knowledge and experience** in the development, deployment and testing of intelligent transport systems. Access is free after a simple registration. [LINK](#)

### BASSt - Ageing and Safe Mobility Conference, Bergisch-Gladbach 2014

The International Conference on Ageing and Safe Mobility, organised by the Federal Highway Research Institute (BASSt), the Forum of the European Road Safety Research Institutes (FERSI), the European Conference of Transport Research Institutes (ECTRI), the European Transport Research Alliance (ETRA), the European New Car Assessment Programme (Euro NCAP), the Forum of European National Highway Research Laboratories (FEHRL) and the Human Centred Design for Information Society Technologies Network (HUMANIST) took place with great success in Bergisch-Gladbach, on 27-28 November 2014.

The Conference was attended by more than 200 road safety experts and focused on the road safety problems of elderly road users and it aimed at elaborating policy recommendations concerning implementation of available road safety evidence based research results. The four sections of the Conference concerned: **Human Factors, Infrastructure, Vehicles Engineering, Traffic Management Systems.** [LINK](#)

NTUA presentations concerned:

- 🇪🇺 Assessment of driving performance of drivers with brain pathologies in urban roads, using a driving simulator
- 🇪🇺 Is distracted driving performance affected by age? First findings from a driving simulator study
- 🇪🇺 Exploring the Association between Working Memory and Parkinson's Disease in a Driving Simulator
- 🇪🇺 Older drivers' self assessment and cognitive impairments

### SAFER - International Cycling Safety Conference - Gothenburg 2014

The 3rd International Cycling Safety Conference - ICSC2014, organised by SAFER Vehicle and Traffic Safety Centre at Chalmers, Chalmers University of Technology and City of Gothenburg took place with great success in Gothenburg, on 18-19 November 2014. The conference was a great opportunity for the more than 160 researchers, legislators, politicians, and members of cycling associations to **exchange knowledge on cycling safety** and discuss new research topics and safety solutions. All the presentations and peer-reviewed papers are now available onto the conference website. [LINK](#)

### Latent risk and trend models for the evolution of annual fatality numbers in 30 European countries - 2014

A paper titled 'Latent risk and trend models for the evolution of annual fatality numbers in 30 European countries' co-authored by Emmanuelle Dupont, Jacques J.F. Commandeur, Sylvain Lassare, Frits Bijleveld, Heike Martensen, Constantinos Antoniou, Eleonora Papadimitriou, George Yannis, Elke Hermans, Catherine Pérez, Elena Santamaría-Rubio, Davide Shingo Usami, Gabriele Giustinianni is now published in Accident Analysis & Prevention. In this paper a **unified methodology is presented for the modelling of the evolution of road safety in 30 European countries**. For each country, annual data of the best available exposure indicator and of the number of fatalities were simultaneously analysed with the bivariate latent risk time series model. This model is based on the assumption that the amount of exposure and the number of fatalities are intrinsically related. It captures the dynamic evolution in the fatalities as the product of the dynamic evolution in two latent trends: the trend in the fatality risk and the trend in the exposure to that risk. The temporal structure of the unobserved components of the optimal model was established, and structural breaks in the trends related to external events were identified and captured by adding intervention variables to the appropriate components of the model. As a final step, for each country the optimally modelled developments were projected into the future, thus yielding forecasts for the number of fatalities up to and including 2020. [DOI](#)

### Road fatalities characteristics, Greece 1991-2012

Basic characteristics of road fatalities in Greece for the period 1991 - 2012 are summarised in a comprehensive Table (data source: ELSTAT). Since 2001, there are more than 1.100 less road fatalities per year in Greece. According to these time series data **an important decrease in road fatalities for young people** is observed during the last decade, as well as a spectacular decrease in fatalities outside urban areas and in the number of people killed in accidents with Heavy Goods Vehicles. On the contrary fatalities decrease during the last decade is limited for people killed in motorways, non national drivers and women drivers. 🇪🇺

### HITE - 7th International Congress on Transportation Research 2015

The 7th International Congress on Transportation Research, organised by the Hellenic Institute of Transport and the Hellenic Institute of Transportation Engineers will take place in **Athens, on 5-6 November 2015**. The main topic of the congress is: 'From basic research to innovative application'. This Conference series on Transport Research (ICTR), is considered a well established event in the transport sector in Greece and it is addressed to all members of the scientific community as well as to agencies and authorities of all government levels. It is also addressed to private sector industries activated in the design, development and implementation of innovative applications in the transport sector.

The deadline for the submission of full papers is 9 March 2015. [LINK](#)

The 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.