

NTUA Road Safety Update - May 2015

National Technical University of Athens
Road Safety Update
May 2015

IRTAD Road Safety Annual Report 2015



The International Road Traffic and Accident Database (IRTAD) of the International Transport Forum (ITF/OECD) published the Annual Report 2015, which comprises a **synthesis of the main trends and road safety indicators** for the year 2013 and preliminary data for the year 2014. It presents longer-term trends in order to better understand the developments taking place in the different countries. The number of road fatalities fell by 4.3% between 2013 and 2012 in the 32 IRTAD member countries with verified data. The long-term trend shows a very **significant decrease of 42% between 2000 and 2013** in IRTAD countries, however great disparities between countries persist.

Detailed validated reports for each country are expected soon at the full version of the IRTAD Annual Report. NTUA has contributed to the detailed report for Greece. [LINK](#) [LINK](#)

IBSR - International Symposium on Road Safety Behaviour Measurements and Indicators 2015



An International Symposium on Road Safety Behaviour Measurements and Indicators, organised by the Belgian Road Safety Institute, took place with great success in **Brussels, on 23 April 2015**. The event featured presentations by international experts on behaviour monitoring, exchange of experiences in implementing behaviour measurements and discussions about methodologies used to build representative indicators. [LINK](#)

All the presentations of the conference are now available. [LINK](#)
NTUA presentation concerned: 'Star rating driver traffic and safety behaviour through OBD and smartphone data collection' [LINK](#)

NTUA - IFSTTAR - Modelling Pedestrian Behaviour Workshop - Paris 2015



A Workshop on Observation and Modelling of Pedestrian Behaviour in Urban Areas organised by the National Technical University of Athens (NTUA) and the French Institute of Science and Technology for Transport, Development and Networks (IFSTTAR) took place with great success in **Marne-la-Vallée - Paris, on 4 May 2015**, within the framework of the Post Doctoral research project "PEDMOD- Models of pedestrian behaviour and safety" of NTUA Research Associate Dr. Eleonora Papadimitriou.

The objective of the Workshop was the analysis of the state of the art on pedestrian behaviour observation and modelling, through the exchange of experiences in implementing meaningful pedestrian behaviour measurements, testing novel methodologies to explore pedestrian strategies, choices and behavioural patterns, and developing flexible and robust models to **predict and understand pedestrian walking and crossing behaviour** in urban areas. [LINK](#)
All presentations are now available: [LINK](#)

Third United Nations Global Week on Children and Road Safety 2015



The global campaign for the Third United Nations Global Road Safety Week, organised by the UN Road Safety Collaboration took place the Week 4-10 May 2015, on the theme children and road safety. The campaign **#SaveKidsLives** was seeking to highlight the plight of children on the world's roads; generate action to better ensure their safety; and promote the inclusion of safe and sustainable transport in the post-2015 development agenda. The campaign invited all road safety policy-makers and advocated to "sign it", "show it", and "deliver it" to those in charge of road safety in countries and communities during the Week. [LINK](#)

Hundreds of international and national organisations participated actively at the campaigns for the road safety of children, including the World Health Organisation (WHO) which issued the ten strategies for keeping children safe on the road [LINK](#), the European Commission [LINK](#), the International Transport Forum [LINK](#) and the NTUA [LINK](#).

EUSDR - First Danube Region Road Safety Conference 2015



The First Danube Region Road Safety Conference: "Towards an Increased Road Safety in the Danube Region, towards Zero Vision", organised by the EU Strategy for the Danube Region Programme (EUSDR PA1b), together with the Ministry of Infrastructure of the Republic of Slovenia and the Ministry of Construction, Transport and Infrastructure of the Republic of Serbia, took place with great success in **Ljubljana, Slovenia, on 20 - 21 May 2015**.

More than 100 policy makers, lead experts and international academia gathered in Ljubljana to discuss present and future road safety relevant challenges, solutions and best practices for the 14 countries of the Danube. [LINK](#)

EUSDR - First Danube Region Road Safety Conference 2015



The First Danube Region Road Safety Conference: "Towards an Increased Road Safety in the Danube Region, towards Zero Vision", organised by the EU Strategy for the Danube Region Programme (EUSDR PA1b), together with the Ministry of Infrastructure of the Republic of Slovenia and the Ministry of Construction, Transport and Infrastructure of the Republic of Serbia, took place with great success in **Ljubljana, Slovenia, on 20 - 21 May 2015**.

More than 100 policy makers, lead experts and international academia gathered in Ljubljana to discuss present and future road safety relevant challenges, solutions and best practices for the 14 countries of the Danube macro-region and beyond, including road safety soft and hard measures, improvement and development of road infrastructure, road safety management and human behaviour in traffic. [LINK](#)
NTUA presentation concerned: 'Monitoring Road Safety Policies and Performance' [LINK](#)

9th Panhellenic Conference of Alzheimer Disease and Related Disorders 2015



The 9th Panhellenic Conference of Alzheimer Disease and Related Disorders organised by the Greek Association of Alzheimer's Disease and Related Disorders took place in Thessaloniki, on 23-26 April 2015. [LINK](#)

NTUA presentations concerned:
[LINK](#) Relationship between depression and driving behavior of people with mild cognitive impairment
[LINK](#) Walking in a direct line as a prognosis indicator of fitness to drive in Parkinson disease patients

NTUA/UOA - Cognition, Behaviour and Driving Inter-disciplinary Conference, Athens 2015



A targeted Inter-disciplinary Conference on Cognition, Behaviour and Driving will take place on **June 26th, 2015 in Athens** (NIMTS Hospital Amphitheater - Monis Petraki 10-12), co-organised by the Department of Transportation Planning and Engineering of the National Technical University of Athens (NTUA), the Department of Neurology, Psychiatry and Social Medicine, and the Department of Psychology of the National and Kapodistrian University of Athens (UoA). The draft final programme of this Inter-disciplinary Conference is now available. [LINK](#)

At this Conference, the results of the following two interdisciplinary research projects will be presented:

- DRIVERBRAIN - Performance of drivers with cerebral diseases at unexpected incidents, within the framework of the ARISTEIA research programme,
 - DISTRACT - Causes and impacts of driver distraction: a driving simulator study, within the framework of the THALES research programme,
- both granted through open and highly competitive procedures by the Hellenic Ministry of Education, Lifelong Learning and Religious Affairs.

All presentations will be available in English language, however the working language will be Greek. Attendance is free, but registration is required on the basis of the first-come-first-served principle. [LINK](#)

SafetyCube Road Safety Decision Support System Workshop, Brussels 2015



The Stakeholders Workshop on the European Road Safety Decision Support System to be developed by the SafetyCube Horizons 2020 research project is scheduled for **June 17th 2015 in Brussels**. The purpose of this Workshop is to identify the needs and initiate the discussion between key road safety experts and stakeholders for the development of a European Road Safety Decision Support System (DSS) which will provide reliable and easily accessible information for the identification of the most cost-effective measures addressing each specific road safety problem.

The Workshop programme focuses on two main goals: [LINK](#)
- to identify user for the European Road Safety Decision Support System
- to identify "hot topics" in terms of risk factors, safety effects and cost-benefit analyses to be considered in the SafetyCube DSS
Attendance is free on first come first served basis to those registered at the following link [LINK](#).

European Commission - Benefit and feasibility of new technologies 2015



The European Commission has recently released a report titled **'Benefit and feasibility of a range of new technologies and unregulated measures in the field of vehicle occupant safety and protection of vulnerable road users'** prepared by Transport & Mobility Leuven. The report names technologies including Intelligent Speed Assistance (ISA), Automated Emergency Braking (AEB) and seat belt reminder systems in passenger seats as 'feasible in terms of the technology required', already available on the market and offering a positive benefit-cost ratio. [LINK](#)

New EU Regulation for eCall 2015



The EU 2015/758 Regulation concerning the type-approval requirements for the deployment of the eCall in-vehicle system based on the 112 service is just published in the Official Journal on 19 May 2015. This Regulation foresees the mandatory fitting of 112-based eCall in-vehicle system on all new types of M1 and N1 vehicles from 31 March 2018 onward, as well as the right of the vehicle owner to use a TPS eCall in-vehicle system providing a similar service, in addition to the 112-based eCall in-vehicle system.

The 112 eCall automatically dials Europe's single emergency number 112 in the event of a serious road accident and communicates the vehicle's location to the emergency services. [LINK](#)

FEMA - RIDERSCAN project Completed - 2015



The RIDERSCAN project, a project co-funded by the European Commission and coordinated by the Federation of European Motorcyclists' Associations (FEMA), is now completed, gathering existing information on motorcycle safety in Europe, identifying needs for action and creating a crossborder knowledge-based network. All project Deliverables are now available [LINK](#), including comprehensive Country Facts Sheets and Recommendations for policy actions. NTUA contributed to the various outputs of the RIDERSCAN project. [LINK](#)

Olympia Odos - Workzone Safety Video 2015



A video explaining the traffic arrangements in Olympia Odos has recently been released by Olympia Odos Operation Company. Olympia Odos is **one of the hardest road infrastructure projects built today in Greece**, because it has a major specificity; it is the only highway made while being in use by significant traffic volumes, as the under construction new motorway follows the route of the old road.

In the video, the reasons for all the traffic arrangements and how they contribute in the safety of those who use the motorway and those working for the construction of the new motorway are illustrated. [VIDEO](#)

Comparative analysis of young drivers' behaviour in normal and simulated conditions in interurban road 2014



A Diploma Thesis titled 'Comparative analysis of young drivers' behaviour in normal and simulated conditions in interurban road' was presented by Marios Nikas in January 2014. This Diploma Thesis aims to compare the behavior of young drivers in normal and simulated driving conditions. Data were collected through an **experimental process on a driving simulator but also on real traffic conditions**, in which all the participants drove in both cases the same driving scenarios. Lognormal regression methods were developed for the identification of the impact of driving environment (simulated and real traffic conditions), basic driver characteristics (mileage, age, gender), as well as the driving style (average acceleration, deceleration and standard deviations of them) to the average vehicle speed change. Through model implementation, it was revealed that absolute values of drivers' traffic performance vary between simulated and real driving conditions. On the contrary, relative differences of driver behaviour at the two driving environments remain mostly the same. More precisely, speed difference between fast and slow drivers is the same at the two driving environments, as is also speed difference the same at the two driving environments between drivers talking and not talking to the co-driver. [LINK](#)

State-space based analysis and forecasting of macroscopic road safety trends in Greece 2013



A paper titled 'State-space based analysis and forecasting of macroscopic road safety trends in Greece' co-authored by Constantinos Antoniou and George Yannis from NTUA, is now published in Accident Analysis and Prevention Journal. In this paper, macroscopic road safety trends in Greece are analyzed using state-space models and data for 52 years (1960-2011). Alternative considered models are presented and discussed, including diagnostics for the assessment of their model quality and recommendations for further enrichment of this model. Important interventions were incorporated in the models developed (1986 financial crisis, 1991 old-car exchange scheme, 1996 new road fatality definition) and found statistically significant.

Furthermore, the forecasting results using data up to 2008 were compared with final actual data (2009-2011) indicating that the **models perform properly, even in unusual situations**, like the current strong financial crisis in Greece. Forecasting results up to 2020 are also presented and compared with the forecasts of a model that explicitly considers the currently on-going recession. [DOI](#)

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.

If you do not wish to receive this Road Safety Update click here to [unsubscribe](#)

AcyMailing - Joomla!βA Newsletter System

About NRSO



The mission of the NTUA Road Safety Observatory (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 organizations.

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.