



NTUA Road Safety Update - October 2013



Road Safety Basic Fact Sheets at the DaCoTA Road Safety System 2012



The 2012 Edition of the EU Road Safety Basic Fact Sheets is now available at the DaCoTA Road Safety Knowledge System as developed through a common methodology by the EU co-funded research projects DaCoTA and SafetyNet, within the framework of developing and enhancing the European Road Safety Observatory. The EU Road Safety Basic Fact Sheets are based on data from the CARE Database and

consist of **summary and cross-country comparative tables, figures and maps on key road safety topics** for which data are available. [LINK](#)

The EU Road Safety Basic Fact Sheets cover the following topics:

Road user and vehicle: Children (aged < 15), Youngsters (aged 15-17), Young people (aged 18-24), Elderly (aged > 64), Pedestrians, Cyclists, Motorcycles and mopeds, Car occupants, Heavy goods vehicles and buses, Gender

Road environment: Motorways, Junctions, Urban areas, Roads outside urban areas, Seasonality, Single vehicle accidents

General: Main figures

Road Safety and Simulation Conference 2013



The 4th Edition of the Road Safety and Simulation 2013 (RSS 2013) Conference was organised by the University of Roma Tre and took place in Rome on 23-25 October 2013, with the participation of more than 250 scientists from more than 45 countries. Special emphasis was put on **driving simulation** and how this tool can improve roadway design and the study of emerging technologies that take into consideration human factors as well and their effects on safety. [LINK](#)

NTUA Associate Professor Matthew Karlaftis in a key note speech highlighted the "Conflicting Objectives and Modeling Implications in Road Safety Data Analysis". [P](#)

NTUA presentations concerned:

- Design of a large driving simulator experiment on performance of drivers with cerebral diseases
- Assessment of driving simulator studies on driver distraction
- A Review of Driving Performance Assessment in Simulators with focus to cognitive impairments related to age or caused by neurodegenerative disorders
- Simulation of Texting Impact on Young Drivers Behaviour and Safety in Urban and Rural Roads
- Challenges in simulation of pedestrians and motorised traffic
- Factors Influencing Freeway Traffic Upstream of an Incident
- Identification of safety hazards on existing road network regarding road Geometric Design: Implementation in Greece
- Analytical Method For Three-Dimensional Stopping Sight Distance Adequacy Investigation
- Road Safety Audit: A comparative Review of Current Guidelines and 1 Designers' Approach

6th International Congress on Transport Research in Greece 2013



The 6th International Congress on Transport Research, organised by the Hellenic Institute of Transport and the Hellenic Institute of Transportation Engineers took place in Thessaloniki, Greece on 17-18 October, 2013, with the participation of more than

200 transport scientists and stakeholders from Greece and abroad. The main objectives of the Congress were to present recent research results in the field of transport and to examine the current developments and to exchange knowledge and experiences on the transport research at national and international level, with special focus on **energy, environment and economy** parameters in transport. [LINK](#)

NTUA road safety presentations concerned:

- Attitudes and behaviour of European drivers and other road users towards Road Safety
- Effect of GDP Change on Road Accidents
- Investigation of factors affecting helmet use among European motorcyclists

IFSTTAR - Power two Wheeler Scientific Days 2013



A symposium on "**Powered Two Wheelers**" organized by IFSTTAR, took place on 15-16 October 2013 in Lyon-Bron. This symposium was an opportunity to present to the scientific community recent research on the powered two wheelers road safety in France, in Europe and worldwide. [LINK](#)

NTUA presentation concerned "Implementation of the SUNflower Methodology for the analysis of Powered Two-Wheelers Road Safety In Greece". [P](#)

Exposure data and risk indicators for safety performance assessment in Europe 2013



A paper titled "Exposure data and risk indicators for safety performance assessment in Europe" co-authored by Eleonora Papadimitriou, George Yannis, Frits Bijleveld and João Cardoso is now published in the Journal of Accident Analysis and Prevention. The objective of this paper is the **analysis of the state-of-the-art in risk indicators and exposure data for safety performance assessment in Europe**,

in terms of data availability, collection methodologies and use. More specifically, the concepts of exposure and risk are explored, as well as the theoretical properties of various exposure measures used in road safety research (e.g. vehicle- and person-kilometres of travel, vehicle fleet, road length, driver population, time spent in traffic, etc.). Moreover, the existing methods for collecting disaggregate exposure data for risk estimates at national level are presented and assessed, including survey methods (e.g. travel surveys, traffic counts) and databases (e.g. national registers). A detailed analysis of the availability and quality of existing risk exposure data is also carried out. Finally, the potential of international risk comparisons is investigated, mainly through the International Data Files with exposure data (e.g. Eurostat, IRTAD, ECMT, UNECE, IRF, etc.). The results of this review confirm that comparing risk rates at international level may be a complex task, as the availability and quality of exposure estimates in European countries varies significantly. The lack of a common framework for the collection and exploitation of exposure data limits significantly the comparability of the national data. On the other hand, the International Data Files containing exposure data provide useful statistics and estimates in a systematic way and are currently the only sources allowing international comparisons of road safety performance under certain conditions. [DOI»](#)

ERF European Road Statistics 2012



The European Union Road Federation (ERF) released recently the ERF 2012 European Road Statistics. This annual publication contains all essential information on the **road transport sector for the period 1990-2010** for the EU countries, but also for other countries in Europe and worldwide. These statistics concern the road network, infrastructure financing, road maintenance and investing, goods and passenger transport, road safety, taxation and environment. The road safety section contains road fatalities time series, country rankings, safety indicators and basic fatalities characteristics. [LINK](#)

European Commission - Traffic rules at a glance 2013



The European Commission has launched a new special section at the DG Move road safety website containing a comprehensive **inventory of the traffic rules in force in the various EU countries** aiming to assist those travelling abroad. This section provides an overview of the most important traffic rules applied by category and by EU country. The user can choose the country of their preference and get informed on the speed limits, seat belt use, alcohol limits and other road safety data of the specific country. [LINK](#)

TISPOL - Country Driving Guides 2013



The Association of European Police Forces (TISPOL) has recently launched a new section on their website, providing the users with **country driving guides**. TISPOL's guides provide clear and easy to follow information to answer the most frequently asked questions by visiting drivers. Recent changes in legislation are highlighted and tips on what to do in the event of a breakdown or accident are provided. [LINK](#)

ETSC Lecture - Road Safety, Reliable Data, Effective Policies 2013



The 15th European Transport Safety Lecture will take place on **November 21st, 2013 in Berlin with Prof. Dietmar Otte** from the Medical University of Hannover presenting Road Safety: Reliable Data – Effective Policies. This ETSC Lecture is organised by the European Transport Safety Council (ETSC) together with its three founding members – the German Road Safety Council, the Dutch Safety Board and the Parliamentary Advisory Council for Transport Safety, coinciding with the celebration of 20 years of ETSC. The Lecture attracts a broad audience of road safety practitioners, technical specialists, local authorities, media representatives and is open to all those interested. [LINK](#)

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) 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.