

2nd SafetyNet Conference European Road Safety Observatory (ERSO) Road Safety Management in Action Evidence based policy setting for the European Community

Current and future challenges for road accident data in Europe

George Yannis and Petros Evgenikos National Technical University of Athens Rome, April 17th 2008

💮 Transport

Project co-financed by the European Commission, Directorate-General Transport & Energy

www.erso.eu

Challenges for accident data in Europe





The CARE System

Community database on Accidents on the Roads in Europe LMore data available to the users

All accidents & casualties recorded at the EU countries since 1991, in disaggregate form.

(\approx 22,5m road accidents, \approx 30m road accident injuries, \approx 925k road accident fatalities).

Objectives

Provide a **powerful tool** which would make it possible to:

- i) Identify and quantify road safety problems in Europe
- ii) Evaluate the efficiency of road safety measures
- iii) Determine the relevance of Community actions
- iv) Facilitate the exchange of experience



Data from EU countries in the CARE database

2.More data harmonized at EU level





CADaS (Common Accident Data Set)



Recommendation for a Common Accident Data Set Reference Guide Version 1.7 April 1008



Variable	Code	Number of		Number of		
category		Variables		Values		
Accident	Α	12		97		
Road	R	34		159		
Vehicle	v	17		146		
Person	Р	20		106		
Total		83		508		

3. More data harmonized at national level



Estimation of the real number of serious casualties

4. Addressing the underreporting issue

	Serious casualties			Slight casualties				
	CARE	factor 1	N1	CARE	factor 2	N2	Serious* = N1+N2	<u>Serious*</u> Serious
FR	19.898	0,68	13.612	100.587	0,061	6.157	19.768	0,99
EL	2.338	0,46	1.081	18.650	0,121	2.259	3.339	1,43
HU	8.320	0,83	6.897	19.185	0,069	1.325	8.223	0,99
NL	10.881	0,39	4.254	29.608	0,016	474	4.728	0,43
ES	23.323	0,26	6.084	117.286	0,018	2.059	8.143	0,35
UK	32.445	0,34	11.130	254.253	0,009	2.298	13.428	0,41







6.Additional new data

Social costs

Per system component

Number killed and injured

Safety performance indicators

Safety measures and programmes

'Structure and culture'

Source: Sunflower+6

A complete set of road safety data and information

<u>Data</u>

Road Accident Data Risk Exposure Data Performance Indicators Behaviour Data Causation Indicators Health Indicators

Information

Programmes Measures Rules Behaviour/Attitude Social Cost

Sources

National Administrations International Data Files Research Project Data Stakeholders data In-Depth Investigation Naturalistic Driving Experiments

6.Additional new data



Annual Statistical Report 2007





Annual Statistical Report

Based on data from CARE / EC

SafetvNet

Authors:

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Building the European Road Safety Observatory Workpackage 1 – Task 3 Deliverable No: D 1.16



Austria NTUA SWOV The Netherlands United Kingdom Vorkpackage Leader NTIIA

Austria

Contract Number: Project Numb Version Date of issue

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- Basic characteristics of road accidents in 18 member states of the European Union for the period 1996-2005.
- Selection of basic characteristics of fatal road accidents in the EU member.
- 56 Tables and 28 figures with the most interesting combination of road accident data.

DOWNLOAD IT NOW

http://www.erso.eu/safetynet/fixed/WP1/2007/SN-1-3-ASR-2007.pdf

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Basic Fact Sheets -Example:Motorways



7. More statistics published frequently

decade from 1996 to

DOWNLOAD IT NOW

http://www.erso.eu/data/Content/ basic facts.htm# Basic Facts

Traffic Safety Basic Fact Sheets 2007

- Main Figures
- Children (Aged <16)
- Young People (Aged 16-24)
- The Elderly (Aged >64)
- Pedestrians
- Bicycles

Motorcycles and Mopeds

7. More statistics

published frequently

- Car Occupants
- Heavy Goods Vehicles
 & Buses
- Motorways
- Junctions
- Urban Areas



8.More analyses with the available data

Example of analyses

Selected countries – Personal risk vs. motorization 40 Personal risk (fat/100.000 pop) ΒE 0– CZ 30 NL × ES ↔ GR 20 CHINESESSON A 10 0 0 100 200 300 400 500 600 700

Motorization (veh/1000 pop)





Time





European Road Safety Observatory More data
 combined with knowledge

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