



S A U Workshop



Road safety in Europe

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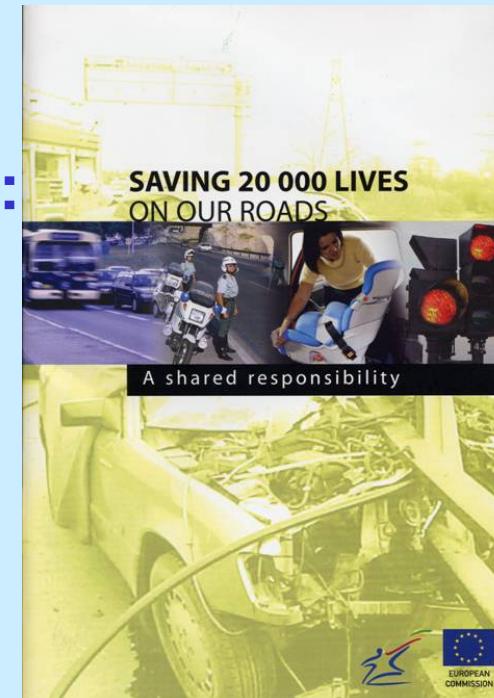
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Valencia 15 June 2007



Road Transport Policy in the EU

- **White Paper on transport policy (2001):** mid-term review adopted on 22nd of June 2006
- **Road safety action program (2003):**
 - 50% reduction of road fatalities by 2010
 - A shared responsibility
 - An integrated approach





The “-50%” objective

- **A political commitment**
- **Individual responsibility of Member States**
- **Each Member State should strive to perform at least as well as the best-performing ones**
- **Monitoring and reporting**





“A shared responsibility”

Numerous stakeholders

Public: EU level + Central Governments + Local Authorities

Private: Car industry + Transport companies ...

Everybody: all users !

Shared responsibility ⇔ “subsidiarity”

Action by ALL stakeholders is needed

The EU level acts wherever it provides an added value





Road Safety The EU instruments

- **Legislation**
- **Best practice guidelines**
- **Research and studies**
- **Financial support to projects**
- **Road accident data and information**
- **The Road Safety Charter**





Domains of action

- **User behaviour**
 - Campaigns
 - Enforcement
 - Education
 - Driving licences
- **Vehicle safety**
 - Passive and active safety
 - Technical inspection
- **Road Infrastructure safety**
- **European Road Safety Charter**
- **Observatory (incl. accident data)**





The EU Road Safety Observatory

- **Mission:**

Collect, analyse and disseminate road safety data and knowledge

- A “light” form of a road safety agency
- Internal Commission structure





The EU Road Safety Observatory

A comprehensive web site including...

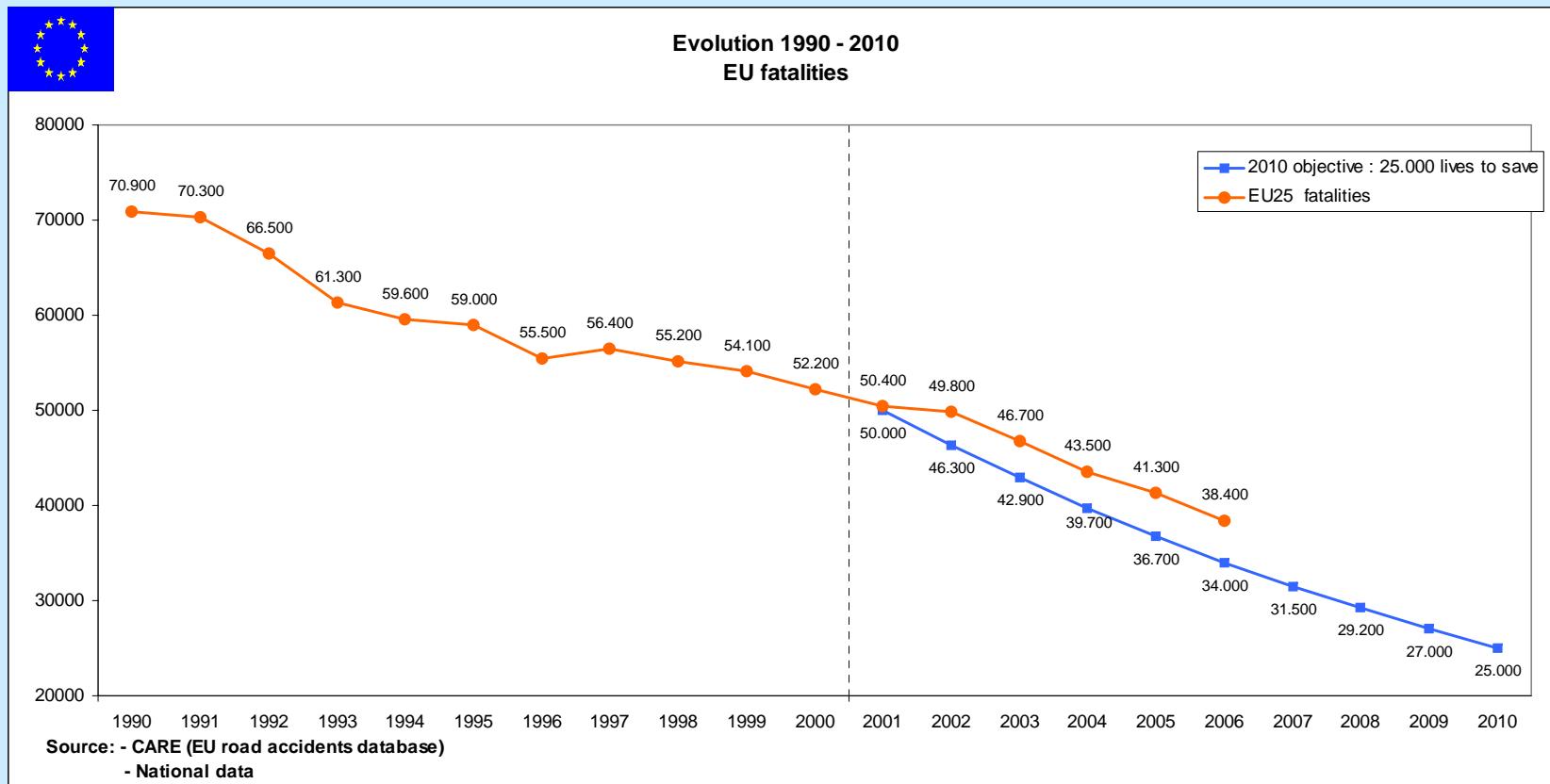
- **Accident data with various levels of detail**
 - ◆ circumstances
 - ◆ causes
 - ◆ consequences
- **Risk exposure data**
- **Road safety performance indicators**
- **Framework for independent accident investigation**
- **Knowledge**
 - ◆ Results of research, studies & other projects, both from the Commission's and from Countries' various stakeholders





The EU Road Safety Observatory

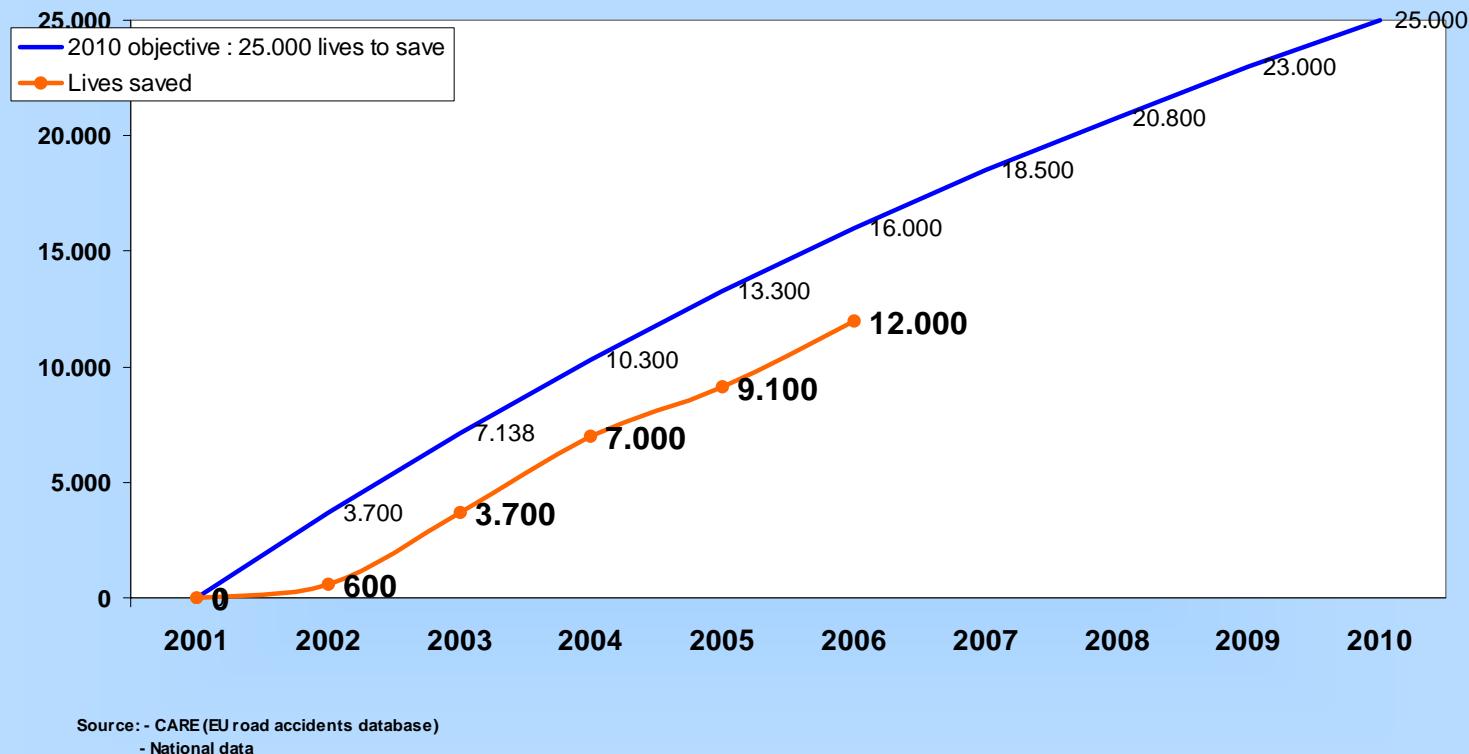
The “-50%” objective





The EU Road Safety Observatory

The “-50%” objective





The EU Road Safety Observatory CARE database

- The CARE data base is an initiative of the EU member states
- Council Decision 93/704/EC on the creation of a Community database on road accidents.





The EU Road Safety Observatory CARE database

Objectives

- identify and quantify road safety problems
- evaluate the efficiency of road safety measures
- determine the relevance of Community actions
- facilitate the exchange of experience in this field.





The EU Road Safety Observatory CARE database

History

- **First phase of the project (1988 - 1993)** : feasibility study for the creation of a desegregate road accident database (CARE).
- **Second phase of the project (1993 - 1996)** : pilot operation of the CARE database.
- **Third phase of the project (1996 -1999)** : harmonisation of the data contained inside the database allowing for international comparisons and exchange of experience.
- **Fourth phase of the project (1999 - 2006)** concerned the full operation of the system. Produce detailed multi-dimension reports
- **Fifth phase of the project (2006 - ...)** new interface and variables





The EU Road Safety Observatory CARE database

Process

- national data (ME)
- data collection
- Uploading
- Transformation rules (if necessary)
- Common variables creation
- Verification with national publications





The EU Road Safety Observatory CARE database

ACCESS

- Complete database (national administrations)
 - ◆ Three institutes by ME
 - ☞ Statistical
 - ☞ Transport ministry
 - ☞ RDT institutes
- Reports and statistics (Public access)
 - ◆ Europa
 - (http://europa.eu.int/comm/transport/care/index_en.htm)





The EU Road Safety Observatory CARE database

National administrations access

- The user interface allows the production of multi-dimension aggregated reports in a standardised way, combining a wide range of information. The user can choose at the moment among data since 1991
- Two sets of data
 - ◆ national data (no transformation rules applied)
 - ◆ common variables data





The EU Road Safety Observatory CARE database

Data confidentiality and security

- reports produced by the system are always aggregated
- the ME are requested to black out confidential data fields before send data
- A CARE user must have a valid user/password
- All measures have been taken guarantee the confidentiality, security and integrity





The EU Road Safety Observatory CARE database

Data structure

Basic definitions

- ◆ Accident
- ◆ Person killed, injured ...

• Common variables

- ◆ 43 variables (on production since December 2005)
- ◆ Third study - socio-economics variables (near future)





The EU Road Safety Observatory CARE database

Common Variables

- ◆ Country
- ◆ Time (year, month, hour)
- ◆ Age group
- ◆ Gender
- ◆ Person class (driver, passenger , pedestrian)
- ◆ Area type (inside or outside urban)
- ◆ Motorway
- ◆ Junction type
- ◆ Vehicle
- ◆ Weather conditions
- ◆ Lighting
- ◆ ...





The EU Road Safety Observatory CARE database

Common Variables

- ◆ Region
- ◆ Vehicle age
- ◆ Driving licence age
- ◆ Road surface condition
- ◆ Speed limit
- ◆ Alcohol test
- ◆ Psychophysical circumstances
- ◆ Junction control
- ◆





The EU Road Safety Observatory CARE database

Risk exposure variables

- ◆ Traffics: vehicles x km travelled by type of road networks
- ◆ The population's pyramids
- ◆ The drivers' population
- ◆ The fleet of vehicles
- ◆





The EU Road Safety Observatory CARE database

Future

- ◆ add risk exposure variables and road safety performance indicators
- ◆ European Road Safety Observatory kernel with
 - ☞ Data
 - ☞ Information
 - ☞ Reports
- ◆





The EU Road Safety Observatory CARE database

Examples



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The EU Road Safety Observatory CARE database



- Straßenverkehrssicherheit:
Wie geht es Ihrem Land?
- Road Safety:
How is your country doing?
- Sécurité routière:
Comment ça va dans votre pays?





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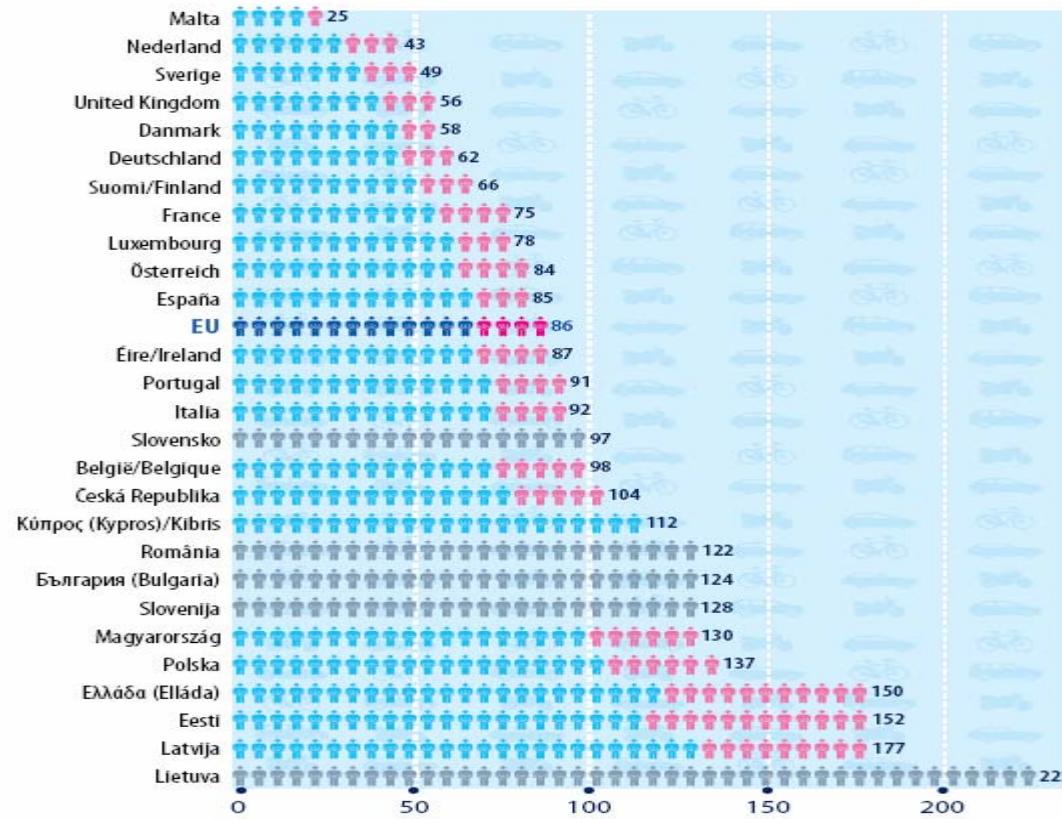
- **Gerettete Leben pro Jahr in der EU seit 2001**
- **Lives saved per year in the EU since 2001**
- **Nombres de vies sauvées chaque année dans l'UE depuis 2001**





The EU Road Safety Observatory CARE database

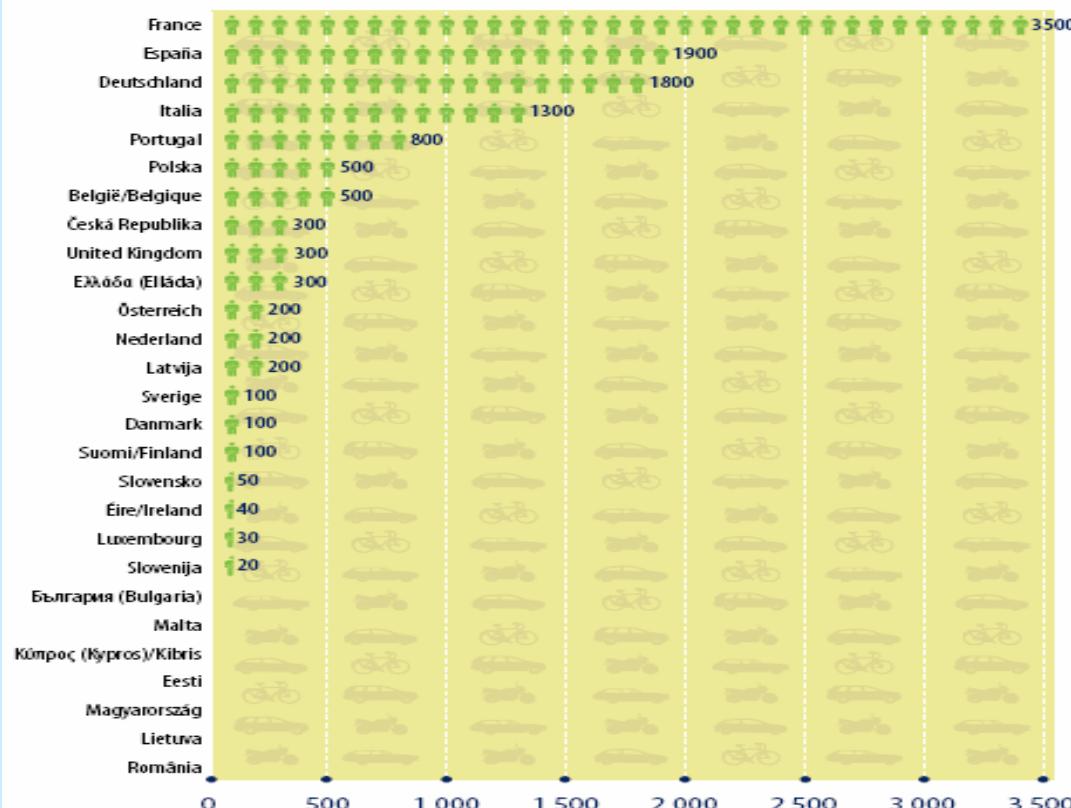
- Straßenverkehrstote pro Mio. Einwohner (2006) nach Geschlecht - pro Land und Bevölkerung
- Fatalities by population 2006 by country and gender - per million inhabitants
- Nombre de tués rapporté à la population 2006, par pays selon le sexe - par million d'habitants





The EU Road Safety Observatory CARE database

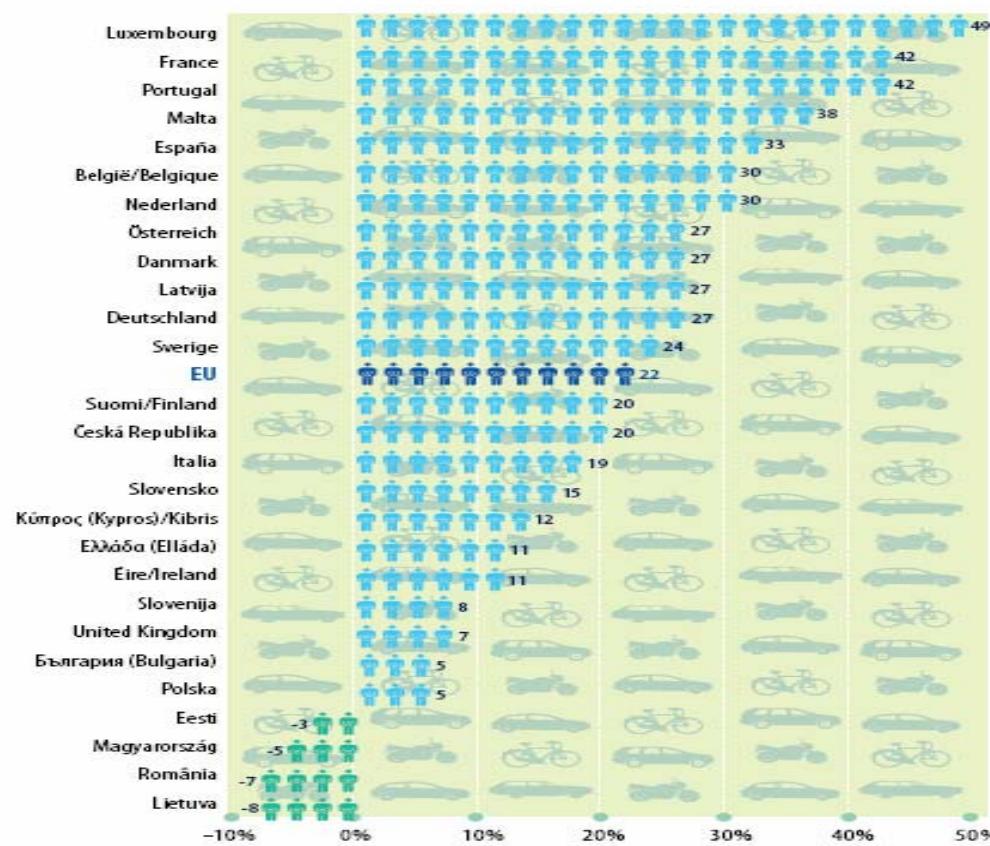
- Anzahl der geretteten Leben in 2006 im Vergleich zu 2001
- Lives saved per country in 2006 compared with 2001
- Nombres de vies sauvées par pays en 2006 par rapport à 2001





The EU Road Safety Observatory CARE database

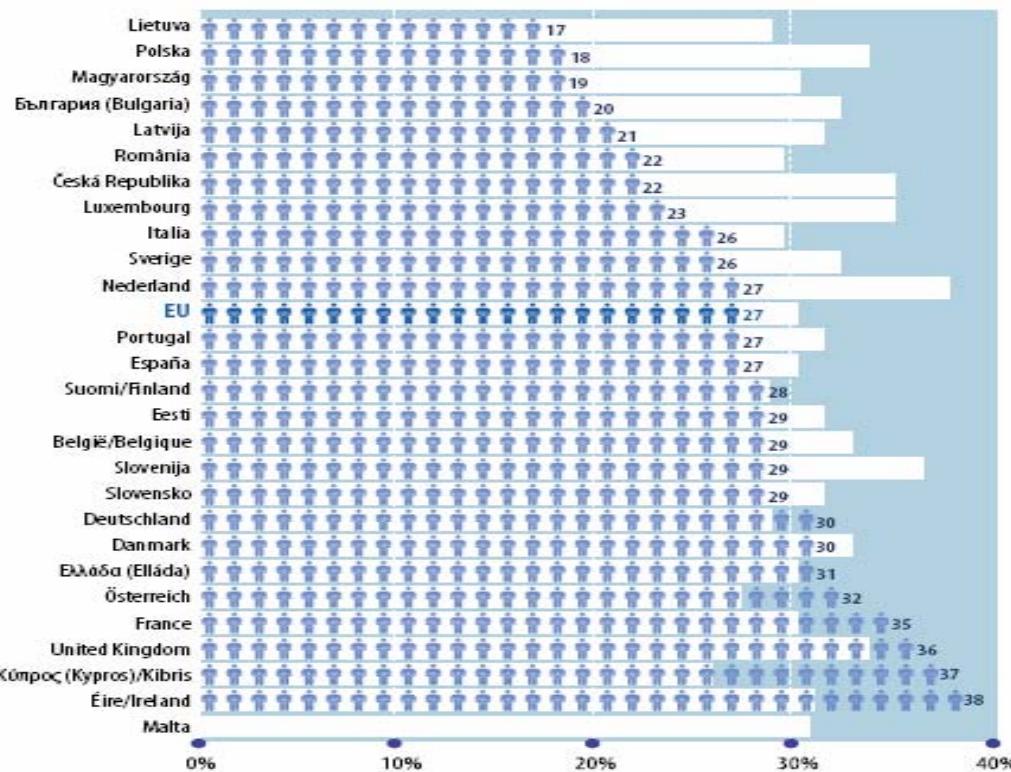
- Rückgang der Straßenverkehrstoten pro Land zwischen 2001 und 2006
- Reduction of fatalities by country between 2001 and 2006
- Taux de réduction du nombre de tués par pays en 2006, par rapport à 2001





The EU Road Safety Observatory CARE database

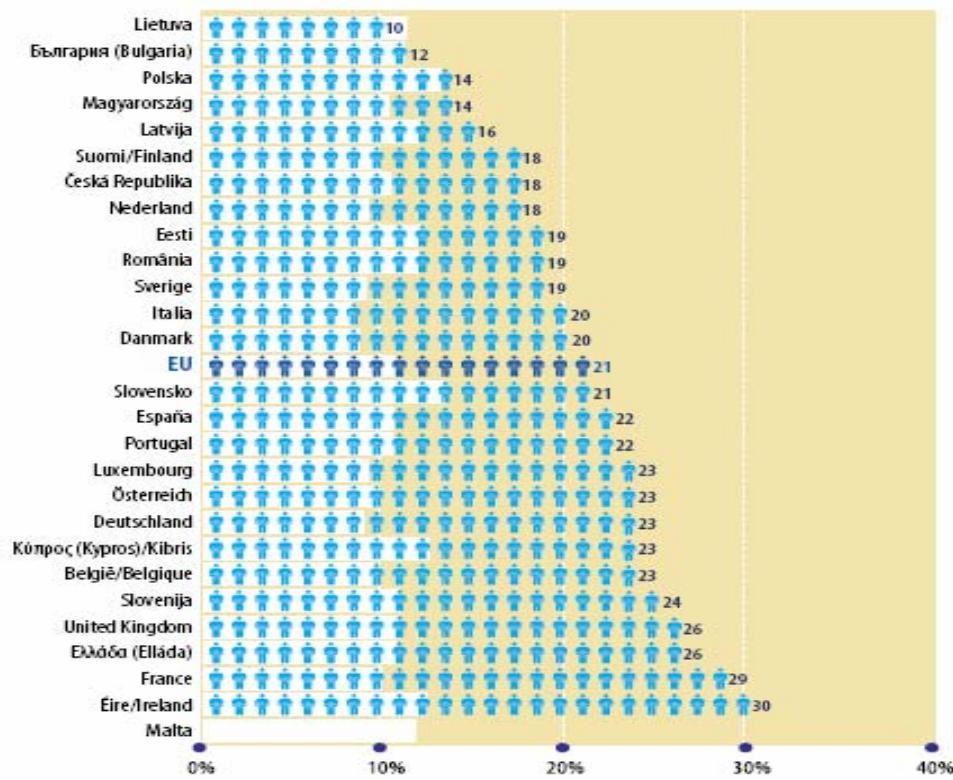
- Anteil der unter 25jährigen an der Gesamtzahl der Straßenverkehrstoten nach Land
- Youngsters below 25 amongst all killed in road accidents by country
- Nombre des jeunes de moins de 25 ans tués dans les accidents de la route par pays, rapporté au nombre total de tués





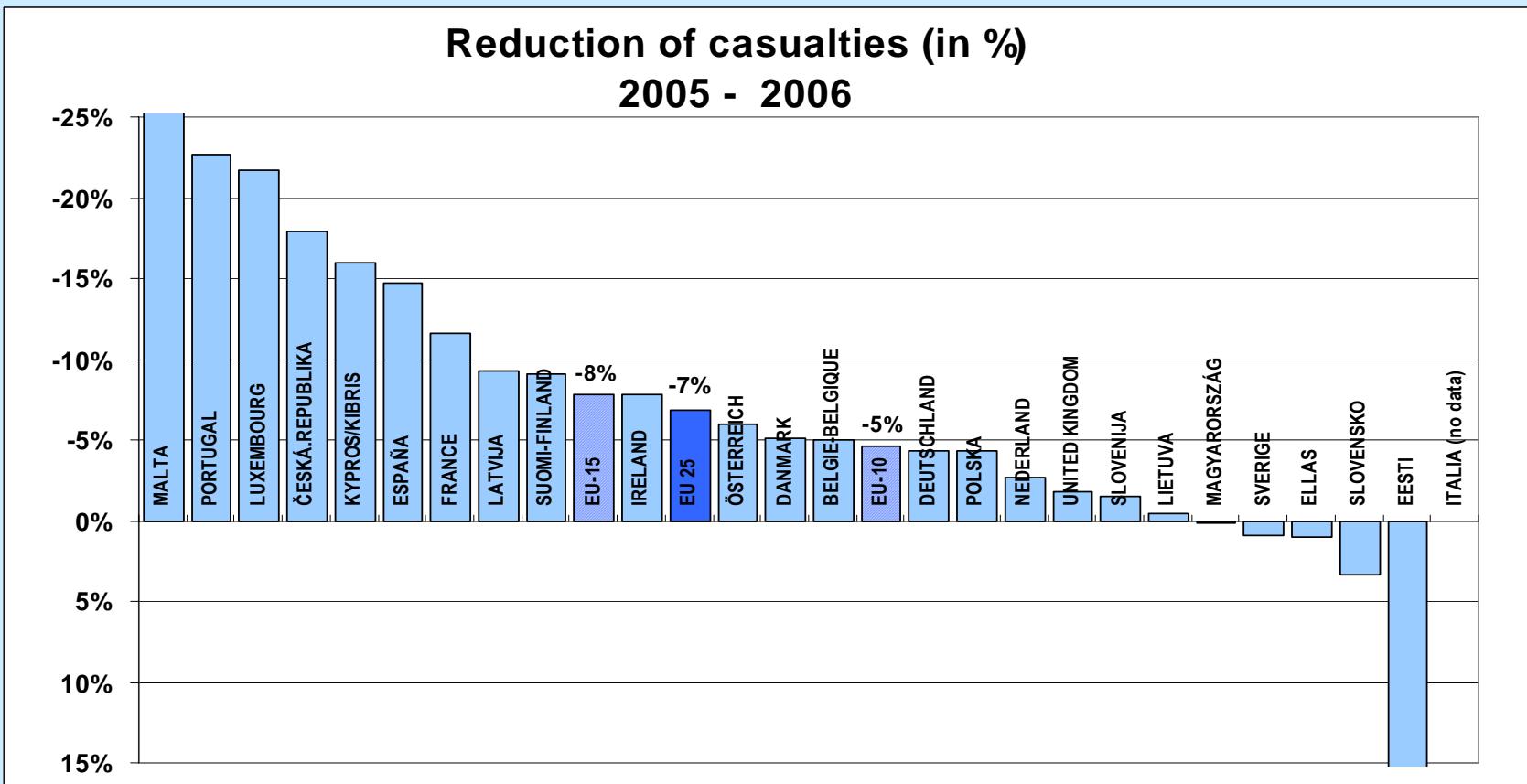
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- Anteil der 18-25jährigen an der Gesamtzahl der Straßenverkehrstoten nach Land
- Youngsters between 18 and 25 amongst all killed in road accidents by country
- Nombre des jeunes de la tranche d'âge 18-25 tués dans les accidents de la route par pays, rapporté au nombre total de tués



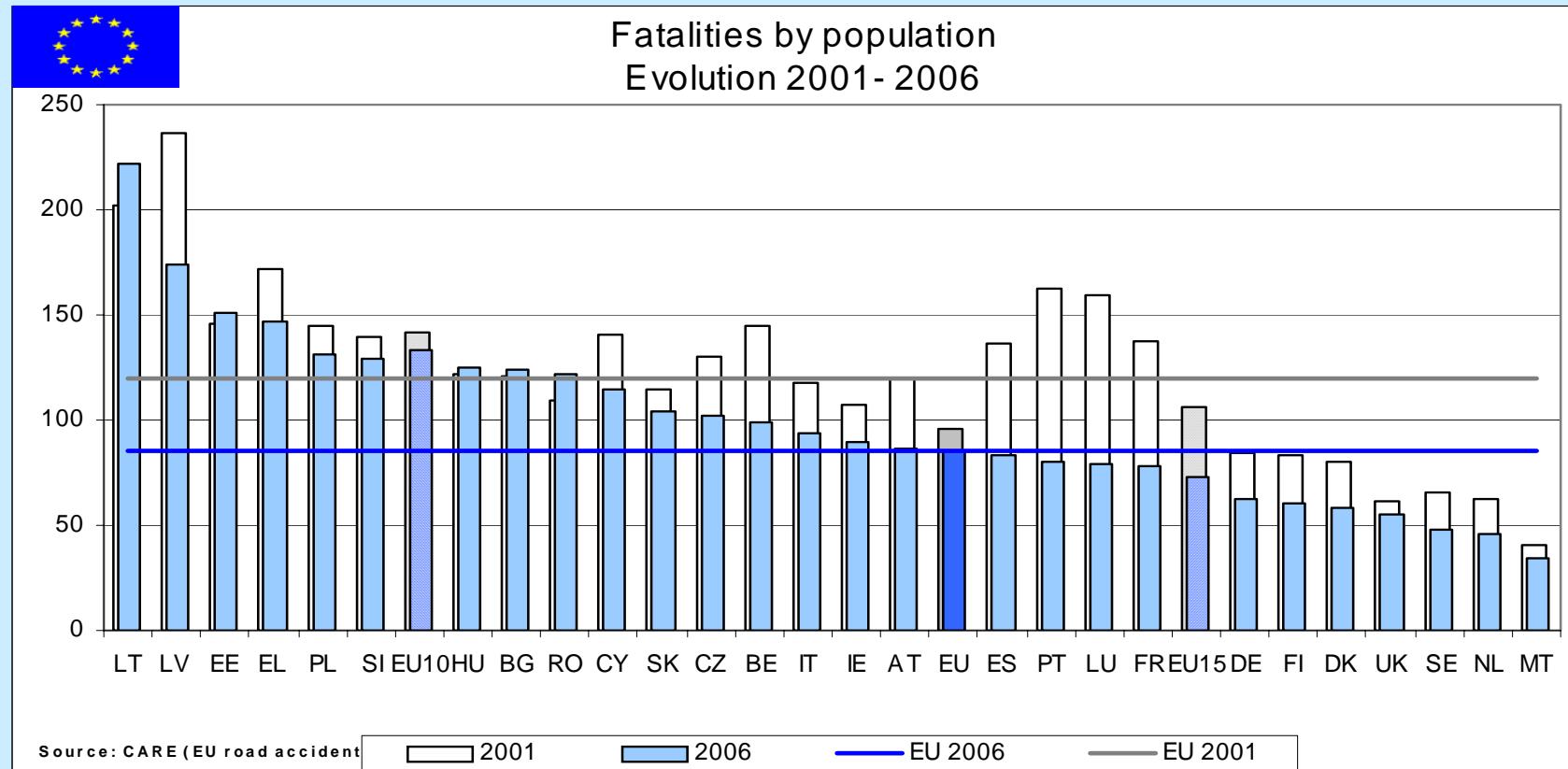


The EU Road Safety Observatory CARE database





The EU Road Safety Observatory





The EU Road Safety Observatory CARE database

Source: CARE (EU road accidents database)

April 2007

Fatalities by person class in EU countries included in CARE

Espana

Total

	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
driver	4869	4265	3472	3056	3134	3016	3156	3399	3336	3349	3219	3139	3197	2861	2739
passenger	2596	2345	1800	1550	1615	1506	1481	1562	1496	1530	1450	1431	1416	1197	1023
pedestrian	1371	1208	1103	1007	1000	960	967	996	906	899	846	776	786	683	680
unknown	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sum:	8836	7818	6376	5614	5749	5482	5604	5957	5738	5777	5516	5347	5400	4741	4442

inside urban area

	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
driver	659	619	489	466	404	434	484	492	456	470	469	442	420	433	381
passenger	260	216	156	148	154	129	147	151	125	153	128	127	136	124	77
pedestrian	572	437	497	487	480	456	501	503	448	447	377	343	363	343	332
unknown	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sum:	1491	1271	1142	1101	1037	1019	1132	1146	1030	1071	973	912	919	900	790

outside urban area

	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
driver	4209	3647	2983	2590	2731	2582	2672	2908	2880	2879	2751	2698	2776	2428	2357
passenger	2336	2129	1644	1402	1461	1377	1334	1411	1371	1376	1323	1304	1280	1073	947
pedestrian	799	771	607	521	520	504	466	492	458	451	469	433	424	340	348
unknown	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sum:	7345	6547	5234	4513	4712	4463	4473	4811	4708	4706	4543	4435	4481	3841	3652





The EU Road Safety Observatory CARE database

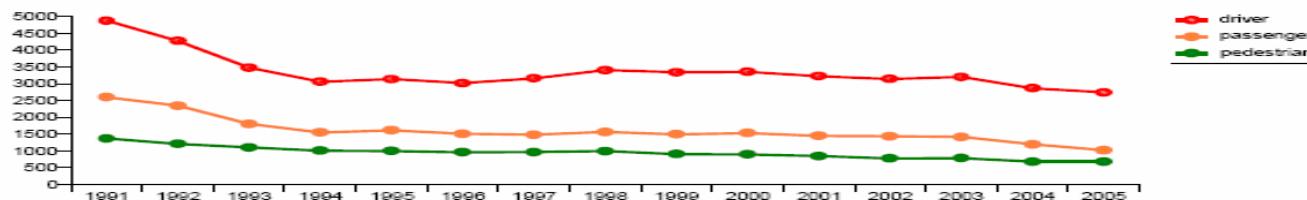
Source: CARE (EU road accidents database)

April 2007

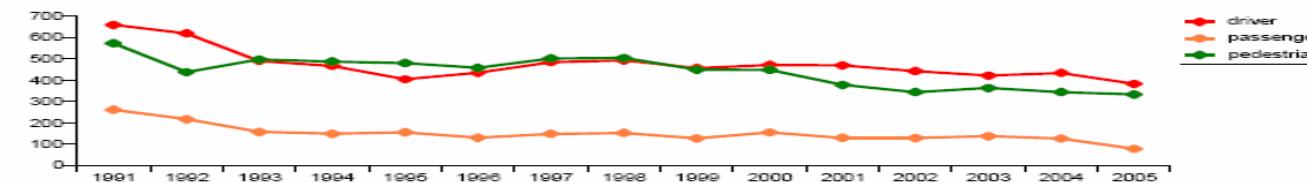
Fatalities by person class in EU countries included in CARE

Espana

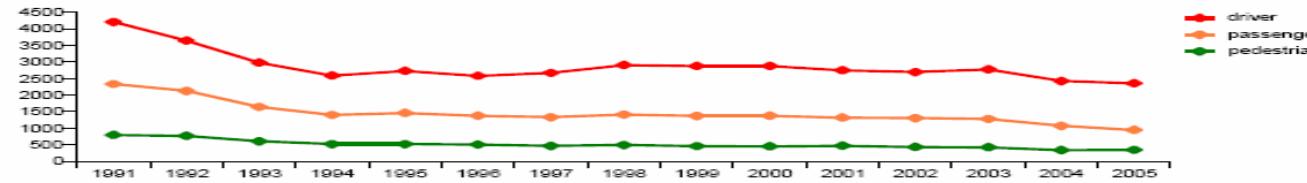
Total



inside urban area



outside urban area

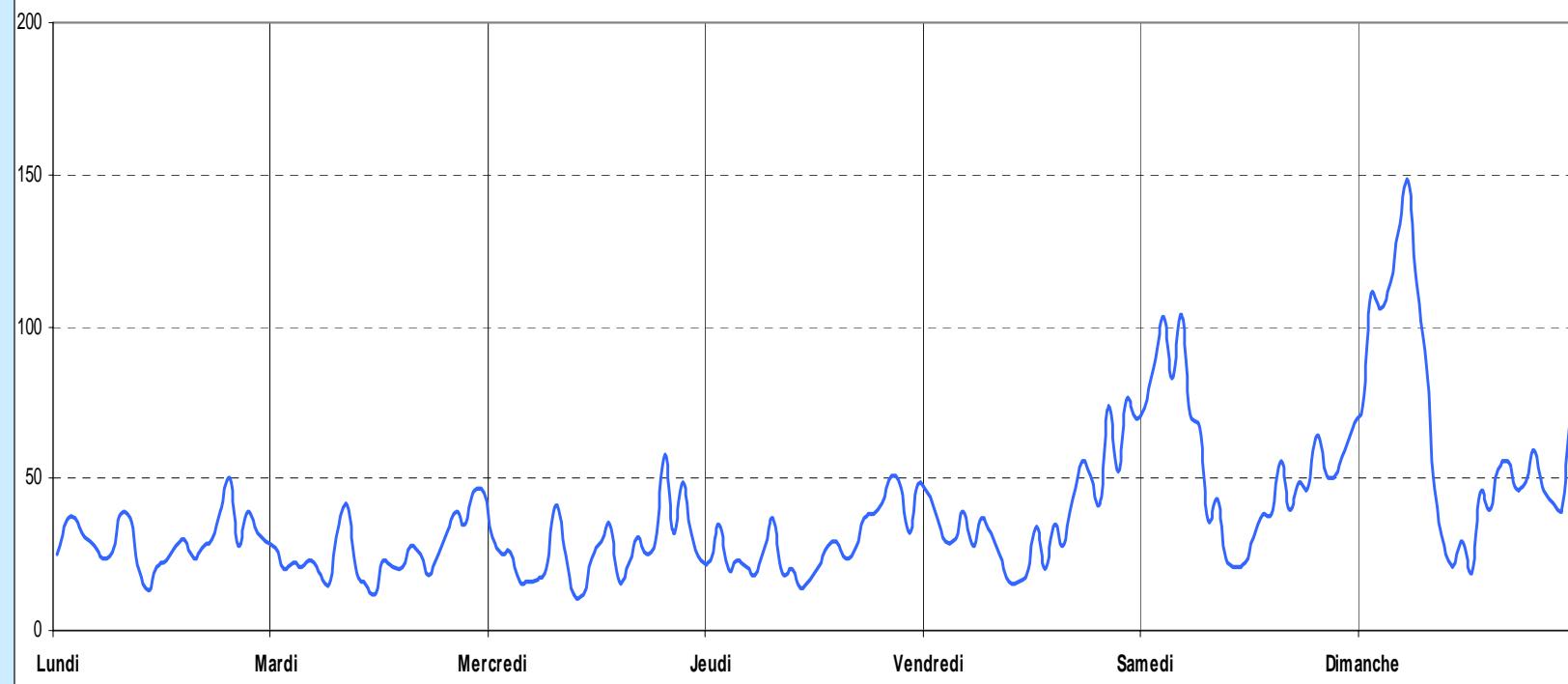




The EU Road Safety Observatory



PEOPLE AGED 18-25 KILLED IN ROAD ACCIDENTS, FOR EACH HOUR AND DAY OF THE WEEK
EU 15 (2002)



Source: CARE (EU road accidents data base)

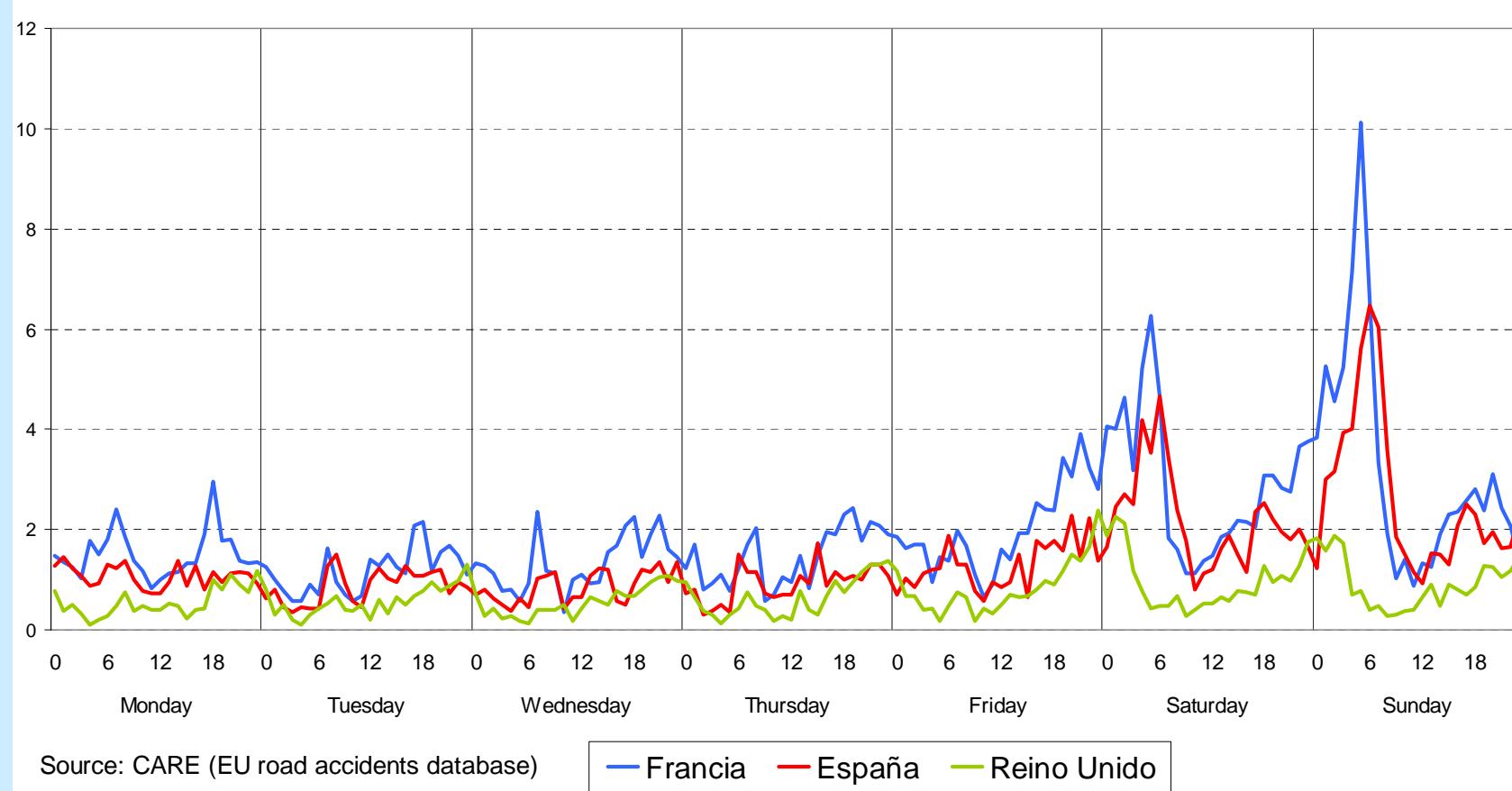


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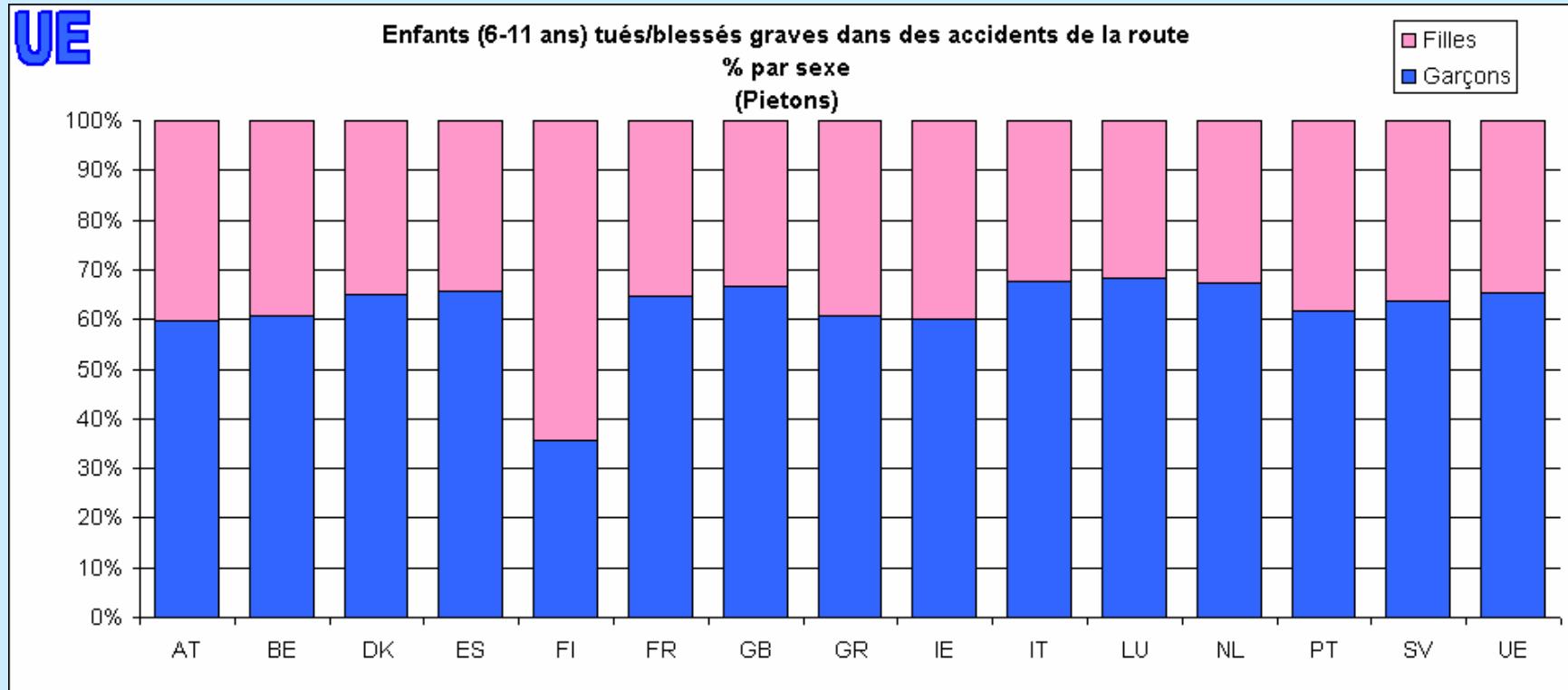


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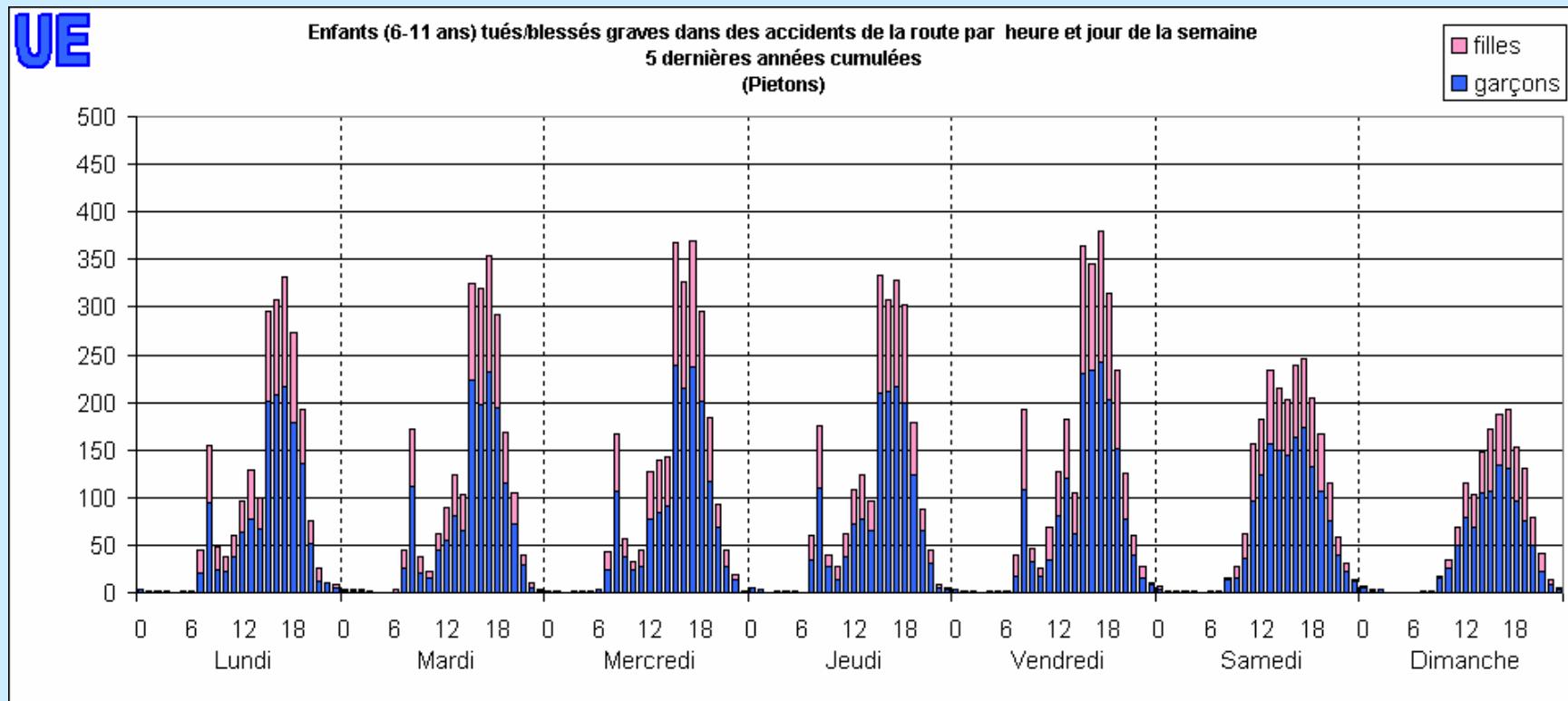


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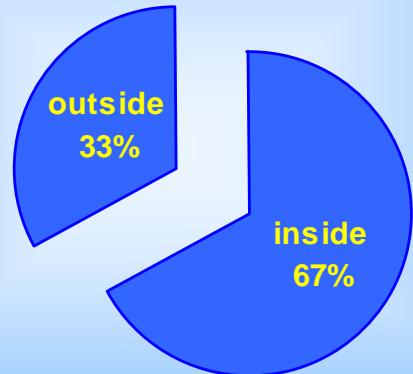
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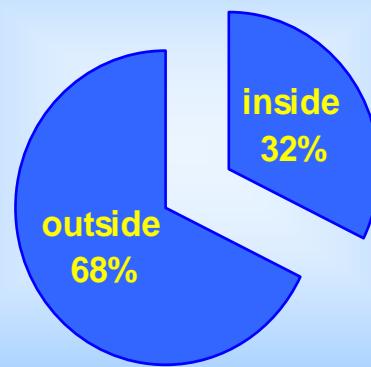


The EU Road Safety Observatory CARE database

EU accidents
inside/outside urban area

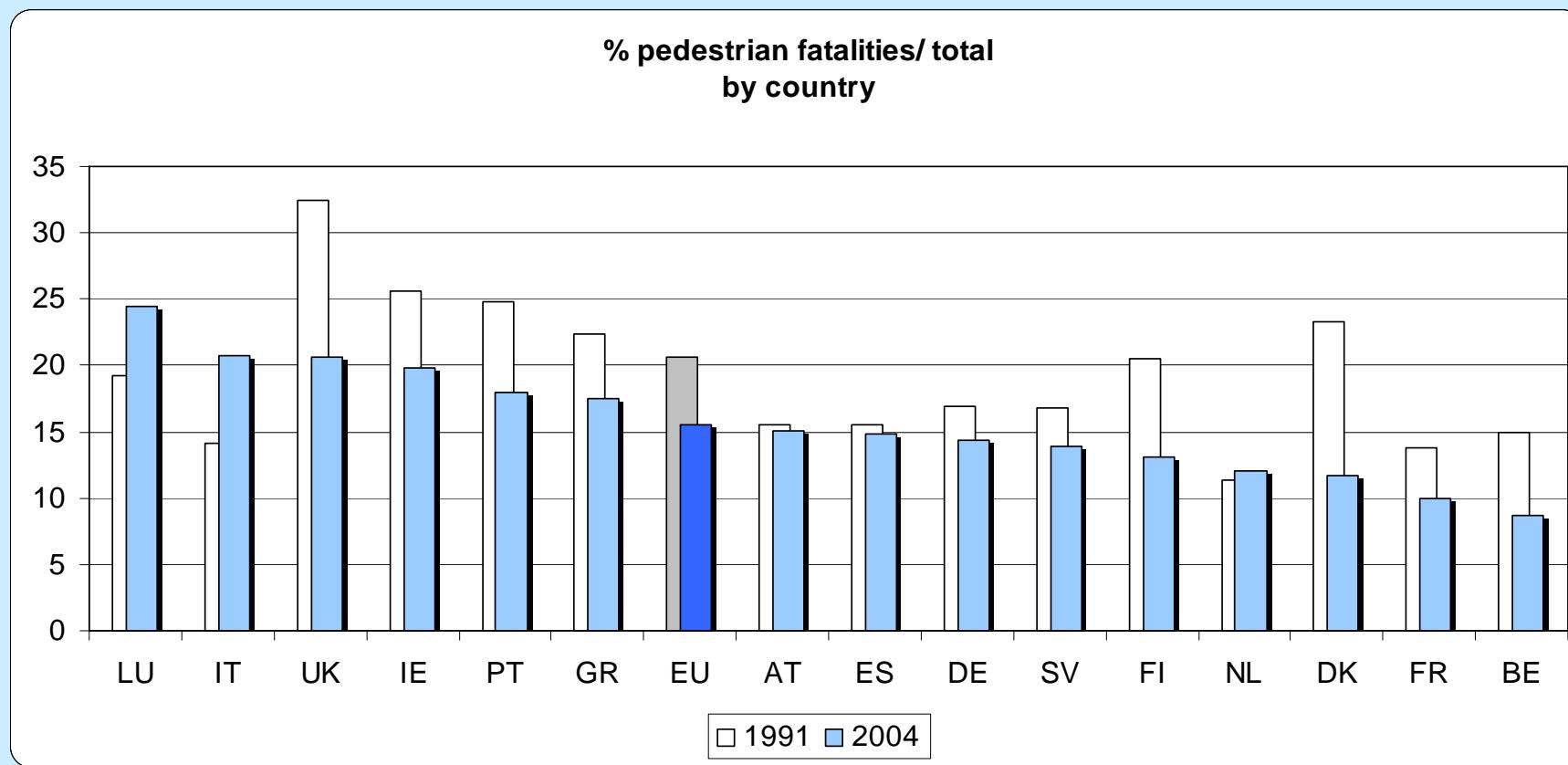


EU fatalities
inside/outside urban area



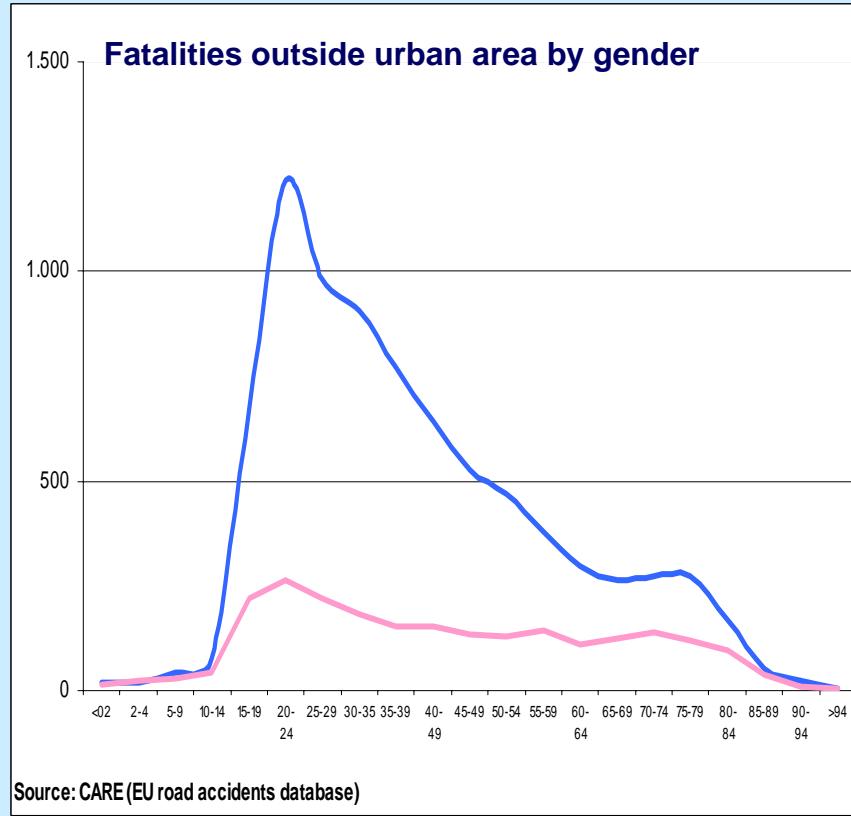
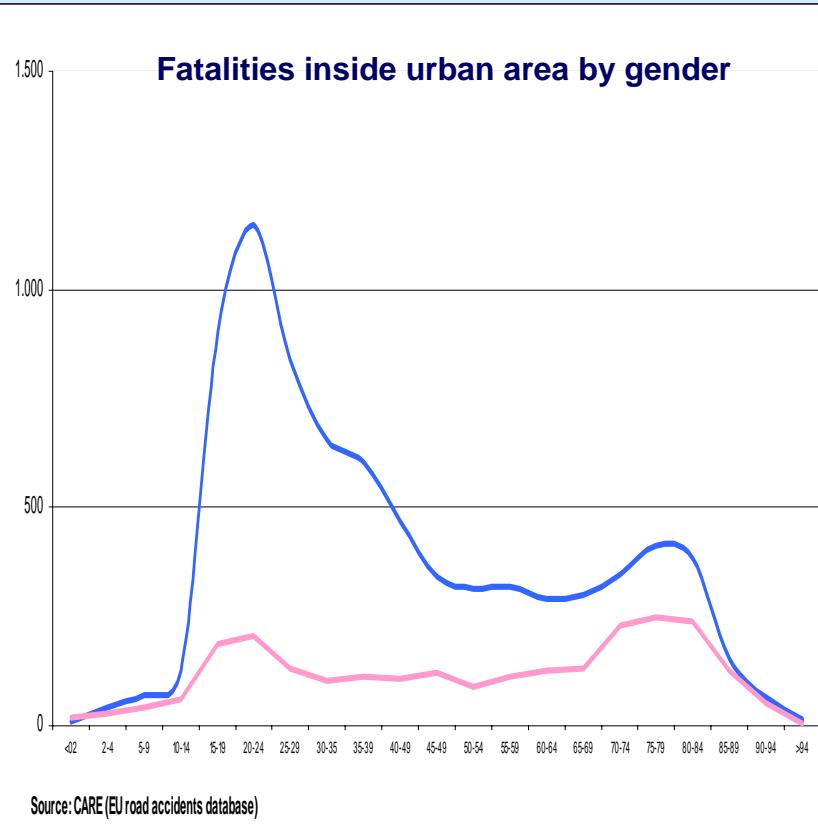


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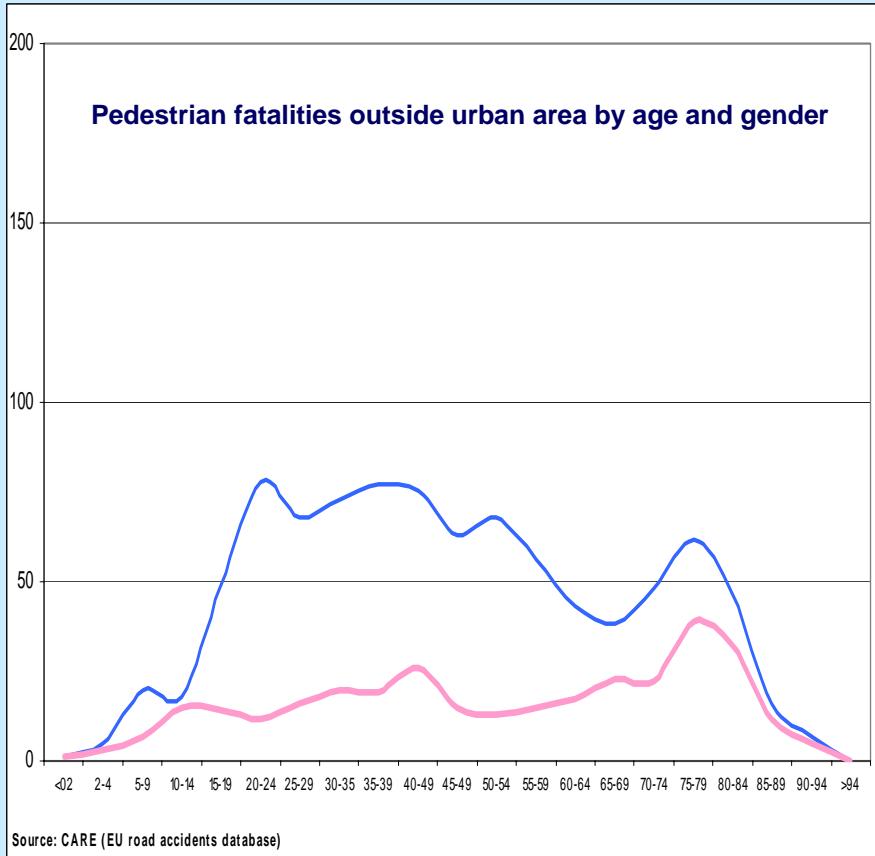
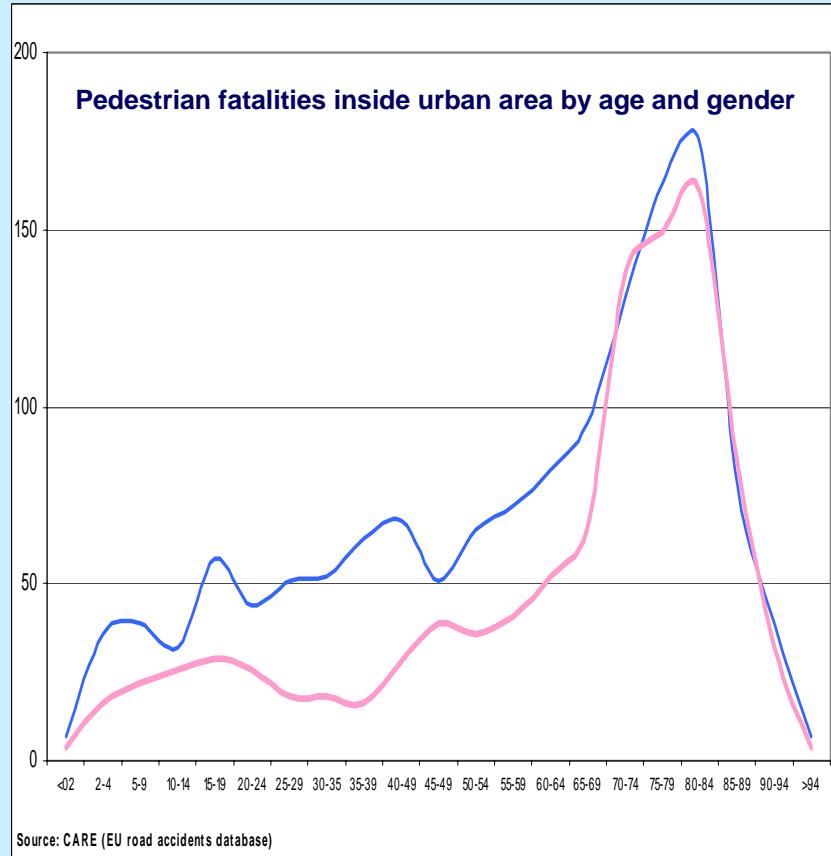
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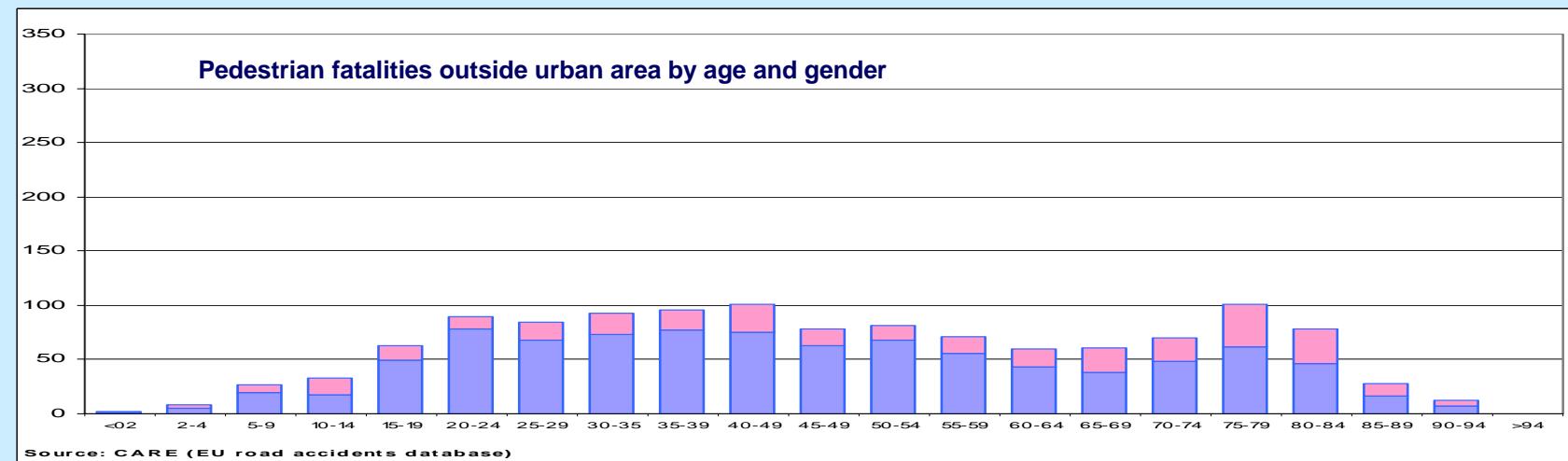
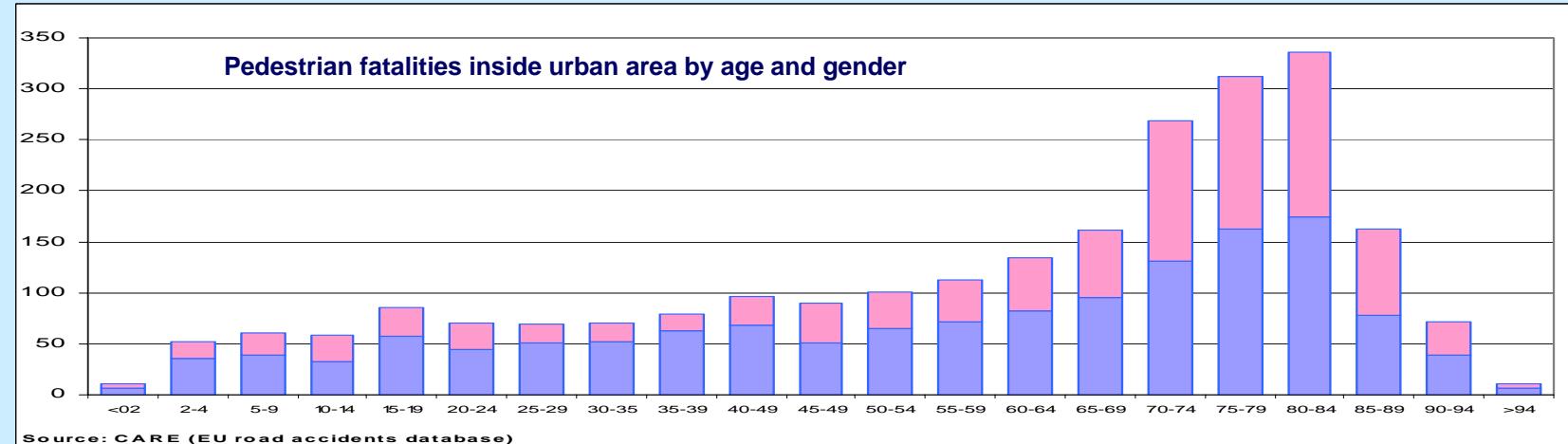
CARE database





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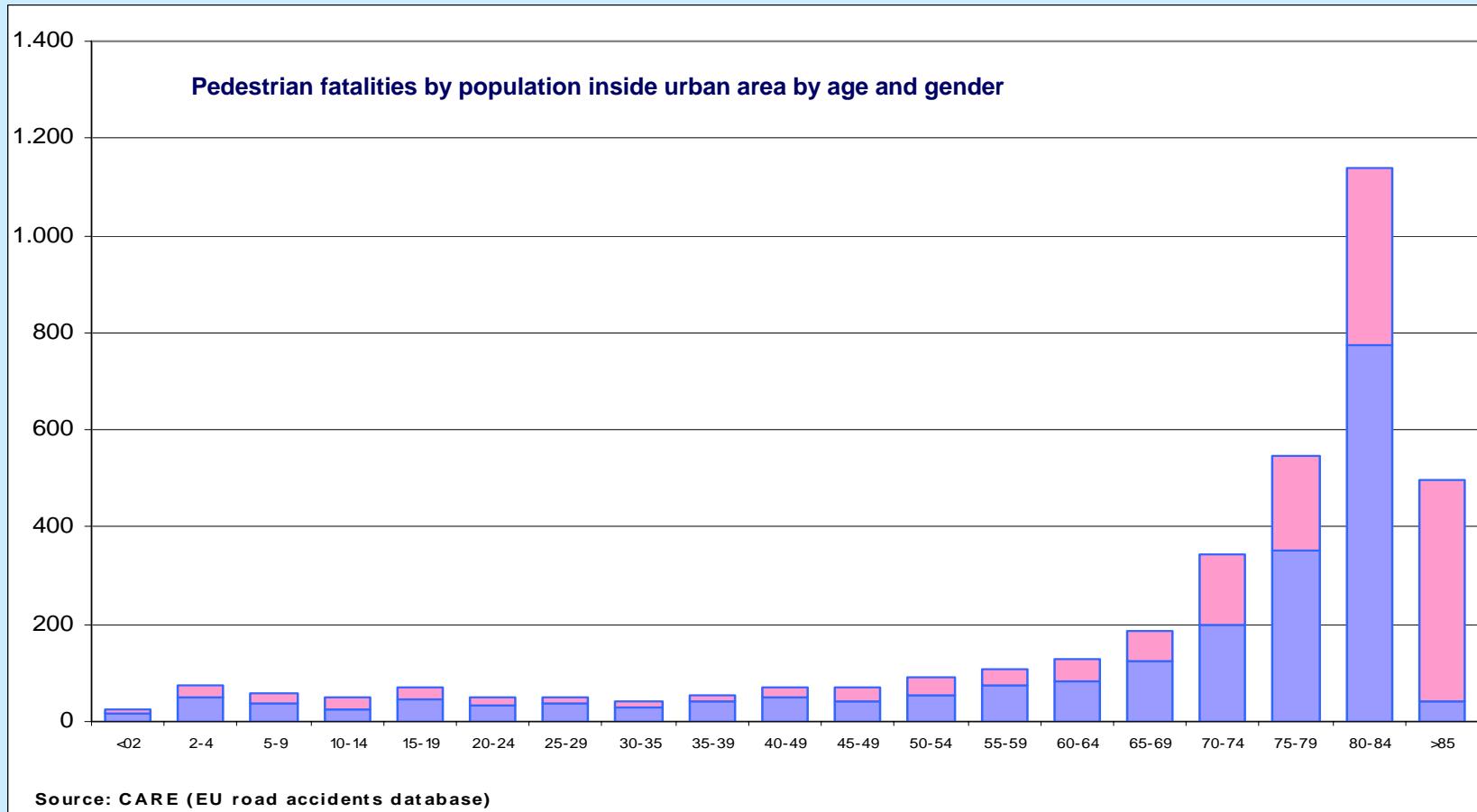
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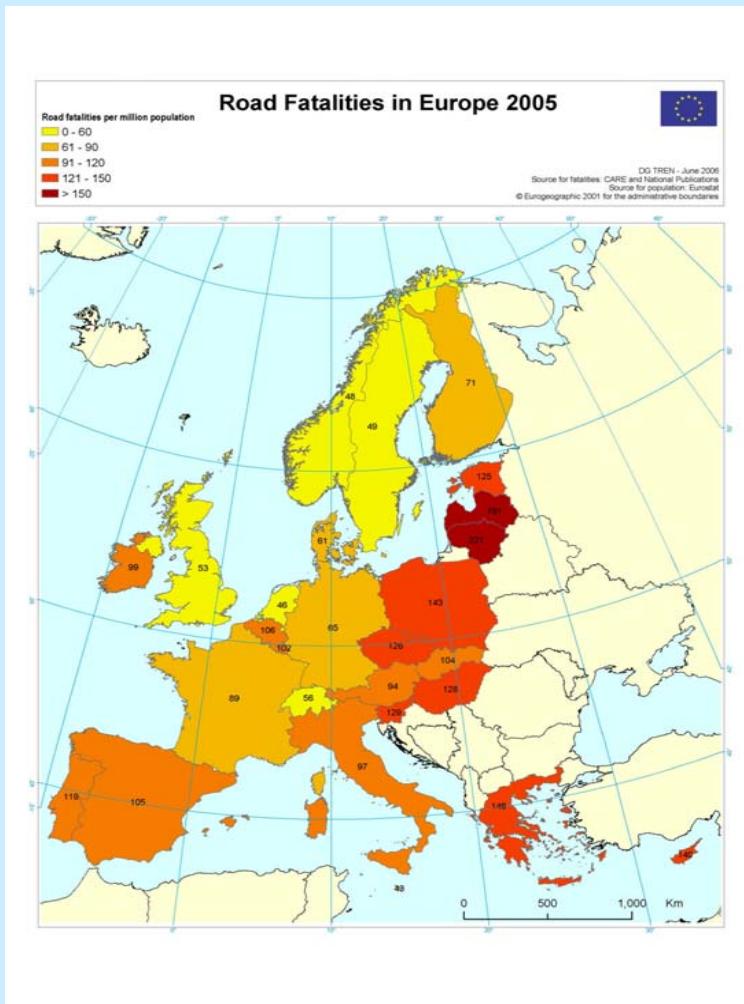
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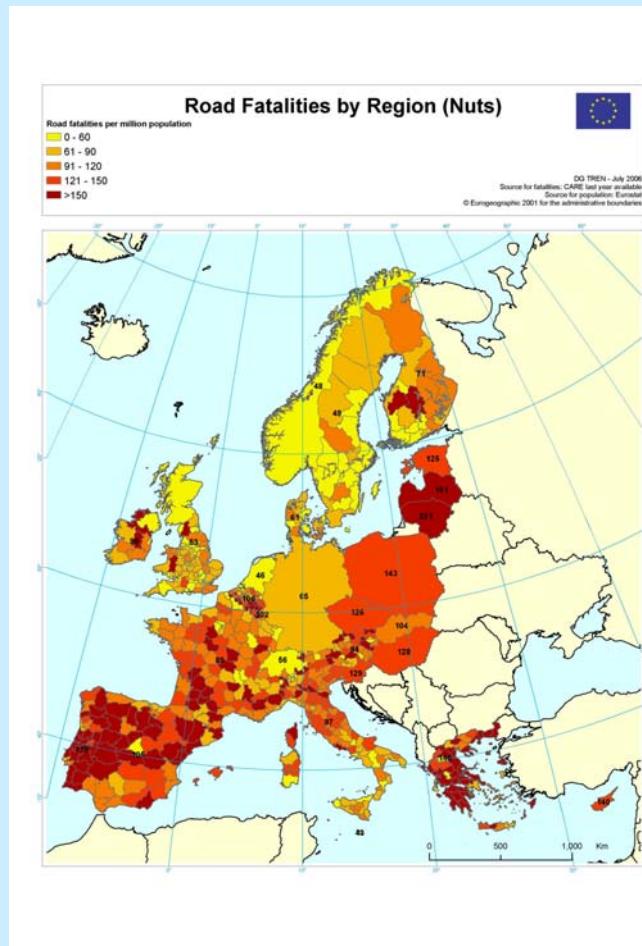


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- **Roadsafety Website:**

- ◆ http://ec.europa.eu/transport/roadsafety/road_safety_observatory/introduction_en.htm



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