

European Commission  
Directorate-General for Energy and Transport  
Inland Transport



# Croatia - Turkey



**Screening Land Transport**  
Brussels, 26<sup>th</sup> June 2006

# Road Accident Data (the “CARE” database)

Jean-Paul REPUSSARD



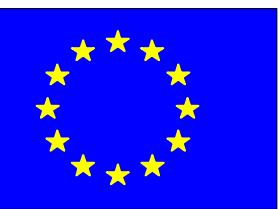
**Legal act:**

**Council Decision 93/704/EC**  
**on the creation of a Community**  
**database on road accidents.**



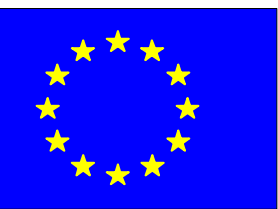
# Objectives

- 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.



# 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 - 2004)** concerned the full operation of the system. Produce detailed multi-dimension reports
- **Fifth phase of the project (2005 - ...)**



# European Commission services

- the Directorate General for Energy & Transport as far as road safety issues are concerned
- Eurostat for statistics issues
- Informatics Directorate for informatics issues



# Process

- national data (provided by Member States)
- data collection
- Uploading
- Transformation rules ( if necessary )
- Common variables creation
- Verification with national publications



## Access

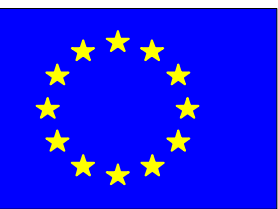
- Complete database (national administrations)
  - ◆ Three institutes by Member States, usually:
    - ☞ Statistical Office
    - ☞ Transport Ministry
    - ☞ Road research institute
- Reports and statistics (Public access)
  - ◆ Europa ([http://ec.europa.eu/comm/transport/care/index\\_en.htm](http://ec.europa.eu/comm/transport/care/index_en.htm))



# National administrations access

- The user interface allows the production of **multi-dimensional 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 (before transformation rules are applied )
  - ◆ common variables data (after transformation rules are applied)





# Data confidentiality and security

- reports produced by the system are always aggregated
- the Member States 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



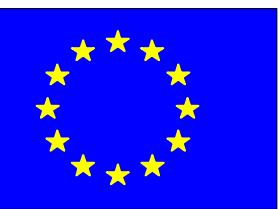
## Data structure

- Basic definitions
  - ◆ Accident
  - ◆ Person killed, injured ...
- Common variables
  - ◆ 1<sup>st</sup> step - 17 variables ( on production for EU15, in preparation for “EU+10”)
  - ◆ 2<sup>nd</sup> step - 43 variables ( on production for EU15 since December 2005; in preparation for “EU+10”)
  - ◆ 3<sup>rd</sup> step – risk exposure data (in preparation for EU25)



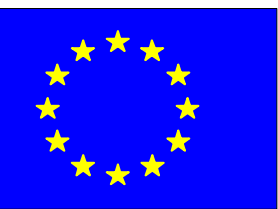
## ● Common Variables (1<sup>st</sup> step)

- ◆ 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
- ◆ ...



## ● Common Variables (2<sup>nd</sup> step)

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



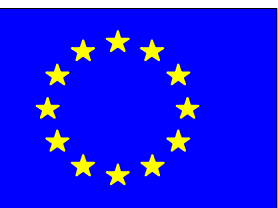
## ● Risk exposure data (3<sup>rd</sup> step - ongoing)

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



# Future

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



## Links

[http://ec.europa.eu/comm/transport/care/index\\_en.htm](http://ec.europa.eu/comm/transport/care/index_en.htm)



# Examples

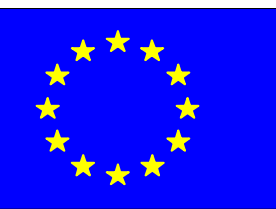




Inland Transport

**fatalities by year and country**

	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
AT	1551	1403	1283	1338	1210	1027	1105	963	1079	976	958	956	931
BE	1873	1671	1660	1692	1449	1356	1364	1500	1397	1470	1486		
DK	606	577	559	546	582	514	489	499	514	498	431	463	432
ES	8836	7818	6376	5614	5749	5482	5604	5957	5738	5777	5516	5347	5400
FI	632	601	484	480	441	404	438	400	431	396	433	415	379
FR	10483	9900	9867	9019	8891	8541	8444	8918	8487	8079	8160	7655	6058
GB	4568	4229	3814	3650	3621	3598	3599	3421	3423	3409	3450	3431	3508
GR	2112	2158	2159	2253	2411	2157	2105	2182	2116	2037	1880	1634	1605
IE	445	415	431	404	437	453	473	458	414	418	412	378	337
IT	8109	8053	7188	7091	7020	6676	6713	6314					
LU	83	69	78	65	70	71	60	57	58	76	70	62	
NI	185	150	143	157	144	142	144	160	141	171	148	150	
NL	1281	1253	1235	1298	1334	1180	1163	1066	1090	1082	993	987	1028
PT	3218	3084	2700	2504	2711	2730	2521	2126	1995	1857	1671	1675	1546
SE	745	759	632	589	572	537	541	531	580	591	583	560	



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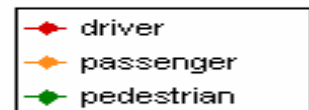
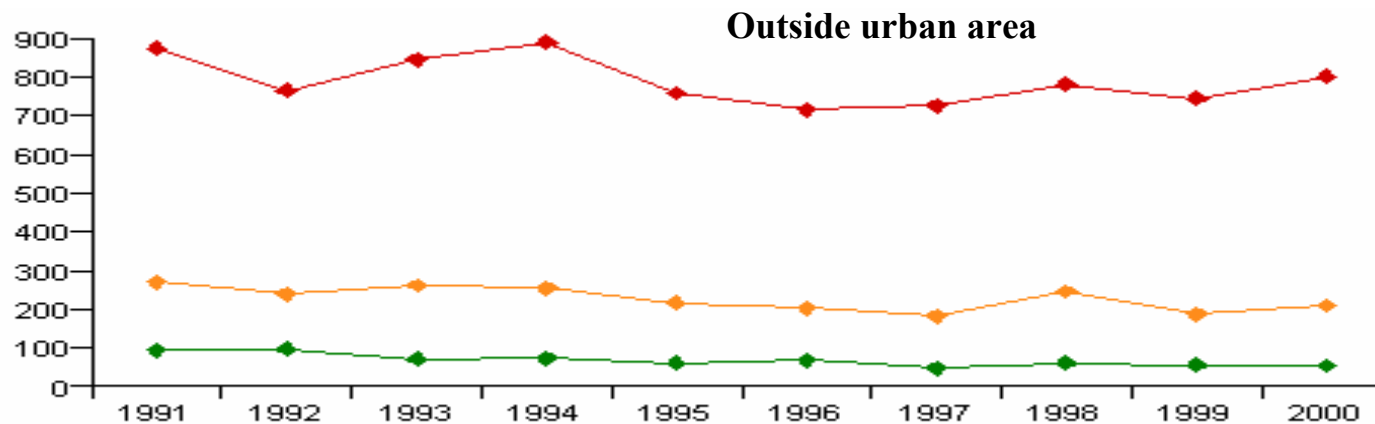
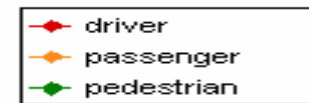
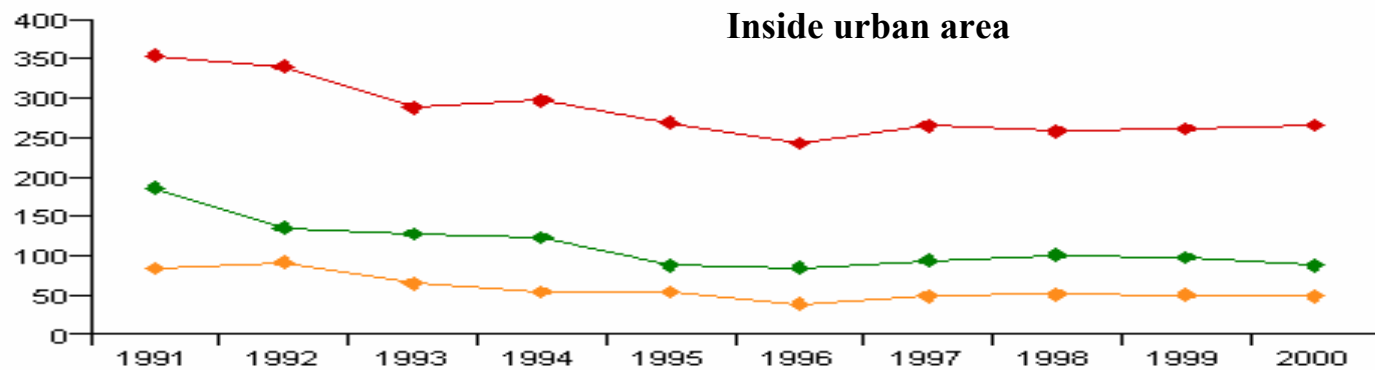
**fatalities by year and country**

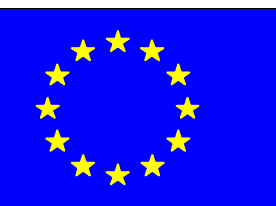
inside urban area

no

2001

	< 30 km/h	+/- 30 km/h	40 km/h	+/- 50 km/h	+/- 60 km/h	70 km/h	80 km/h	90 km/h	+/- 100 km/h	120 km/h	unknown	Somme
AT											26027	26027
BE	471	415	19	21591	68	1464	15	310		23		24327
DK	20	50	33	3203	434	186	55				59	4057
ES											54854	54854
FI	4	92	1030	2015	280	16	19					3456
FR											77148	77148
GB	157	91338	16858									108353
GR											138	138
IE				449	149							598
LU											315	315
NI				2548	259		137		585			3530
NL	118	1623	140	20560	69	468						22978
PT											28735	28735
SE	5	237		6557		1051		43			1022	8912

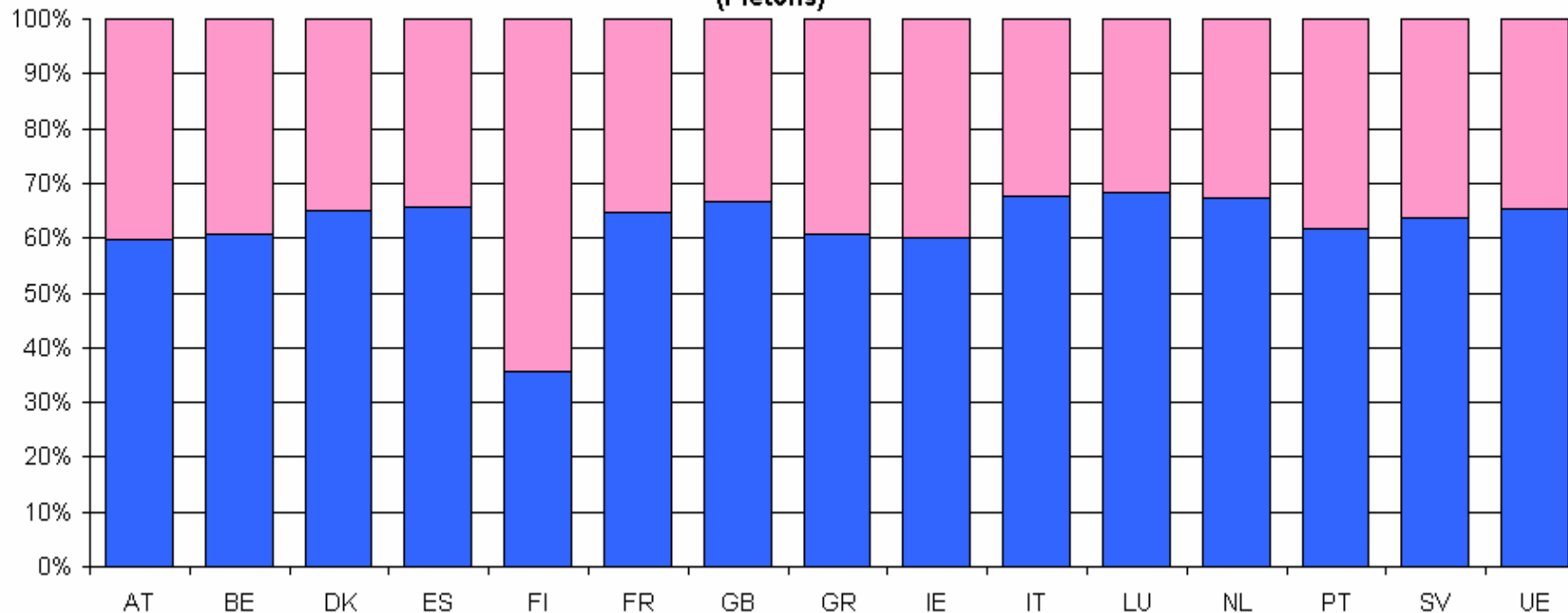




## Inland Transport

UE

Enfants (6-11 ans) tués/blessés graves dans des accidents de la route  
% par sexe  
(Pietons)

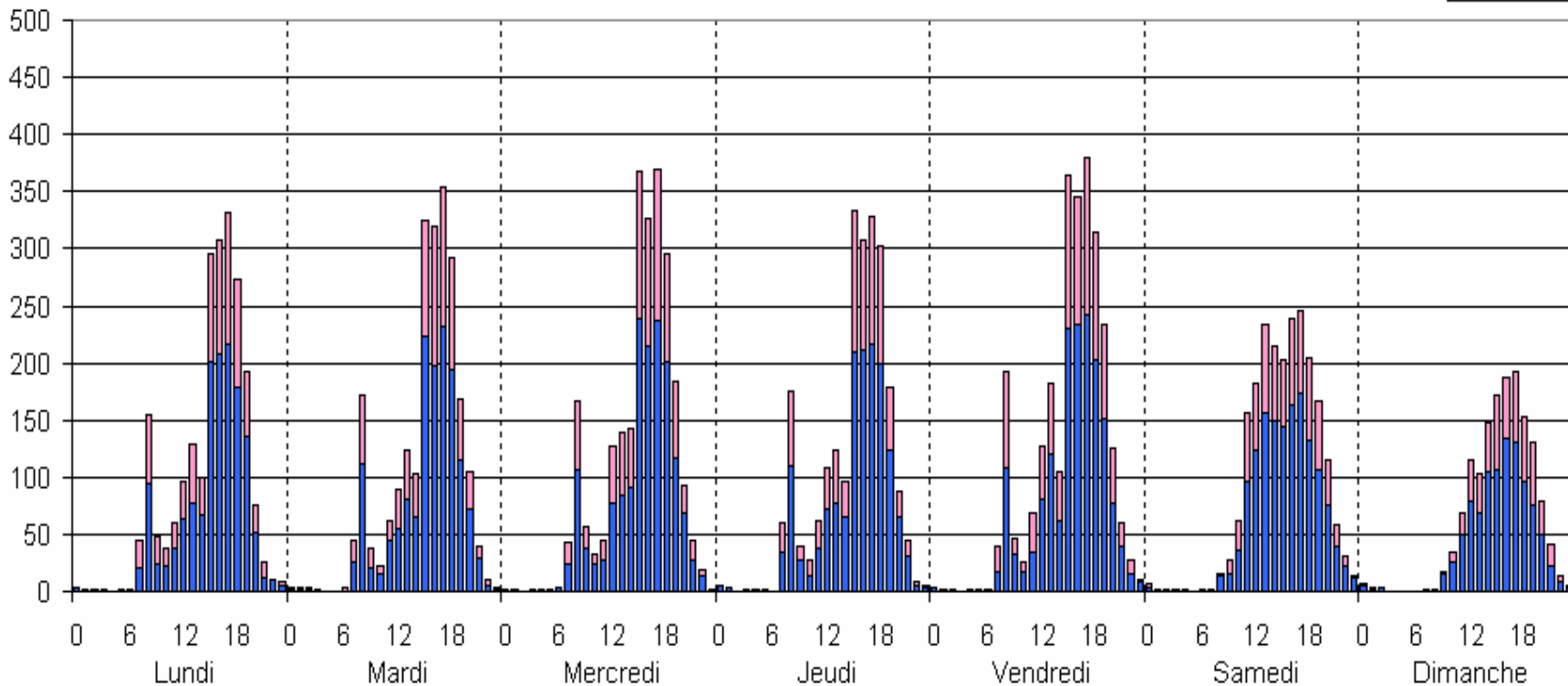




UE

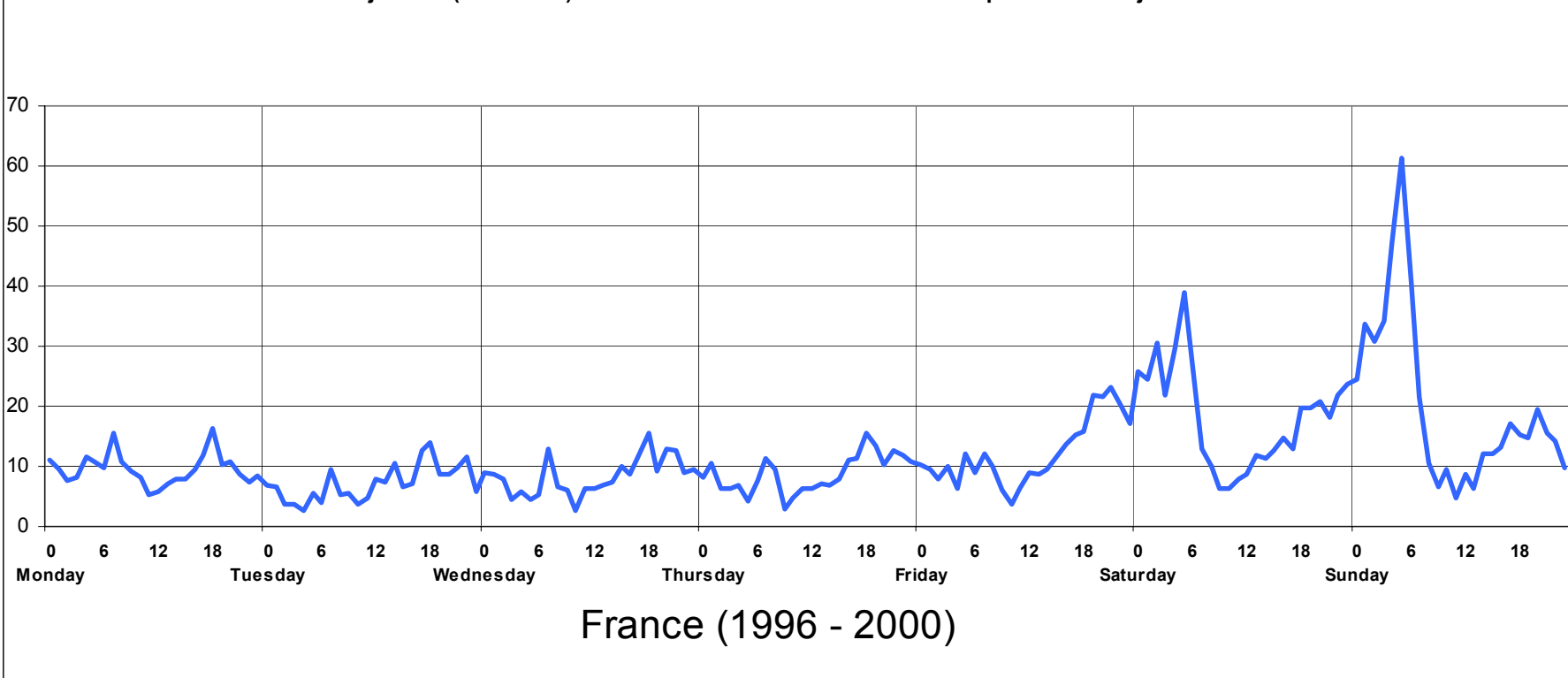
Enfants (6-11 ans) tués/blessés graves dans des accidents de la route par heure et jour de la semaine  
 5 dernières années cumulées  
 (Pietons)

filles  
 garçons





Nombre de jeunes (18-25 ans) tués dans des accidents de la route par heure et jour de la semaine



France (1996 - 2000)