#### About this document

This document provides details about the data used in the country overviews.

#### General notes:

- The European average refers to the sum of values for all European countries with data, divided by the number of European countries with data The European reference is only calculated for the latest year where data is available for at least 15 European countries (50%). When no data is available for 15 countries at least, the European reference is given as 'not available'.
- For categorical data where a European reference is given, this is not calculated as the average amount, but as the most frequent occurring situation (mode), taking into account those countries where data was available on that particular subject.
- The year 2001 has been chosen as starting year for the time series because the most recent European target of halving the number of fatalities refers to that year.



### Basic data

**Table 1:** Basic data of the country in relation to the European average. (Sources: [1]

 OECD/ITF, 2011; [2] Eurostat; [3] DG-TREN, 2005; [4] CIA)

| Basic data of the country                                      | Meta data                                |
|--|--|
| <ul> <li>Population: (last year available)</li> </ul>          | Number of registered inhabitants in      |
|  | the country on January 1st.              |
|  | Reference: European average              |
| <ul> <li>Area: km<sup>2</sup> (last year available)</li> </ul> | Amount of land that belongs to the       |
|  | country. Reference: Average amount       |
|  | over land per country in Europe.         |
| (% water) (last year available)                                | Percentage of the territory covered by   |
|  | water. Reference: European average.      |
| <ul> <li>Climate and weather conditions (last year</li> </ul>  | Average temperature measured in the      |
| available):  | capital city in the periods:             |
| Average winter temperature: °C                                 | <ul> <li>November – April</li> </ul>     |
| Average summer temperature: °C                                 | - May - October                          |
| Annual precipitation level: mm                                 | Annual level of rain, snow etc. as       |
|  | measured in the capital city.            |
|  | Reference: European average.             |
| <ul> <li>Exposure: billion vehicle km (last year)</li> </ul>   | Annual amount of motorised vehicle       |
| (% passenger cars, % trucks, %                                 | kilometres driven. Reference:            |
| motorcycles, % mopeds)   | European average.                        |
|  | (% of these kilometres that is driven by |
|  | passenger cars, trucks, motorcycles      |
|  | and mopeds or other vehicle types).      |
| <ul> <li>Vehicles per person (last year available)</li> </ul>  | Number of motorised vehicles             |
|  | registered in the country per registered |
|  | inhabitants for the same year.           |
|  | Reference: average European              |
|  | amount.                                  |





### Country characteristics

**Table 2:** Characteristics of the country in comparison to the European average. (Sources: [1]
 OECD/ITF, 2011; [2] Eurostat; [3] national sources)

| Characteristics of the country  | Meta data  |
|---|--|
| <ul> <li>Population density: number of<br/>inhabitants/km<sup>2</sup> (last year available)</li> </ul>  | Number of registered inhabitants per kilometre of territory.   |
| <ul> <li>Population composition (last year available):</li> <li>% children (0-14 years),</li> <li>% adults (15-64 years),</li> <li>% elderly (65 years and over)</li> </ul> | Number of registered inhabitants per<br>age category for the year selected.<br>Reference: average European<br>percentages.                 |
| <ul> <li>Gross Domestic Product (GDP) per capita:<br/>in € (last year available).</li> </ul>  | Market value of final goods produced<br>in a country divided per number of<br>inhabitants in that country.<br>Reference: European average. |
| <ul> <li>% of population living inside urban area<br/>(last year available)</li> </ul>  | Percentage of the population living in communities with 100.000 people or more, or with 500 or more addresses per km <sup>2</sup> .        |
| <ul> <li>Special characteristics:</li> </ul>  | Free description of a remarkable<br>characteristic of the country.<br>No European reference  |

#### Structure of road safety management

- Free description of the organisation and the extent to which it is (de)centralised.

The following key-actors are responsible for road safety management:

Table 3: Key actors per function in the country. (Sources: DG-TREN, 2010; national experts)



### Attitudes towards risk taking

 Summary of attitudes or self-reported behaviour as expressed by the country inhabitants (SARTRE survey). Reference: average attitudes expressed in other countries that joined the SARTRE survey.

Table 4: Road safety attitudes and behaviour of drivers (Source: SARTRE, 2004)

|   | Country                 | SARTRE       |
|---|-------------------------|--------------|
|   |                         | average      |
| Self-reported driving behaviour                 | % of drivers that       | show         |
|   | behaviour often or more |              |
| Too close following                             |                         |              |
| Inappropriate overtaking                        |                         |              |
| Exceeding speed limit on motorways              |                         | Average      |
| Exceeding speed limit on main inter-urban roads | % of                    | attitude or  |
| Exceeding speed limit on country roads          | respondents             | behaviour    |
| Exceeding speed limit in built-up areas         | that indicate to        | score (often |
| Support of stricter legislation                 | show this               | or more) of  |
| Higher penalties for speeding offences          | attitude/behavior       | countries    |
| Higher penalties for drink-driving offences     | 'often' or more.        | that joined  |
| Lower BAC limits                                |                         | the SARTRE   |
| Perceived probability of being checked for      |                         | survey       |
| Speeding  |                         |              |
| Alcohol use                                     |                         |              |

Legend

(comparison of country attitude in relation to average attitude of other SARTRE countries):







## Programs and measures

### • National strategic plans and targets

- Information about the status of the program (actually launched or in preparation).
- Targets (with year of reference):

#### Table 5: Road safety targets for the country.

| Year                      | Fatalities  | Other indicator(s) such as<br>serious injuries |
|---------------------------|---|--|
| 2020 or other target year | % decrease (see reference<br>year) or number (of fatalities).<br>No European reference. | idem   |

- Priority topics:
- List of priority items in the RS plan. No European reference

(Source: national sources)

### Road infrastructure

**Table 6**: Description of the road categories and their characteristics in the country (Source: TiS.PT, 2003).

| Road type   | Speed limit (km/h)                                       |
|-------------|--|
| Urban roads | Speed limit on each read turns                           |
| Rural roads | Speed limit on each road type.<br>No European reference. |
| Motorways   | No European reference.                                   |

- Special rules for:
  - List of vehicle types and special rules that apply to them. No European reference.
- Availability of guidelines and strategic plans for infrastructure in the country.

**Table 7:** Obligatory parts of infrastructure management in the country and other European countries. (Sources: DG-TREN, 2010; national sources)

| Obligatory parts in the country: | Meta data                                  |
|----------------------------------|--|
| Safety impact assessment: yes/no | Is this type of action obligatory (yes) or |
| Road safety audits: yes/no       | not?                                       |
| Road safety inspections: yes/no  | Reference: most frequent situation in      |
| Black spot treatment: yes/no     | Europe (mode).                             |

Recent actions concerning infrastructure have been addressing:
 List of actions



### Traffic laws and regulations

**Table 8**: Description of the regulations in the country in relation to the most common regulations in other European countries. (Sources: [1] DG-TREN, 2005; [2] national sources; [3] ETSC; [4] DG-TREN, 2008; [5] DG-TREN, 2010)

| Regulations in the country   | Meta data   |
|--|---|
| <ul> <li>Allowed BAC level: ‰;</li> <li>Novice drivers: ‰;</li> <li>Professional drivers in passenger transport: ‰.</li> <li>Phoning:</li> </ul> | Allowed blood alcohol level for each indicated<br>group of road users.<br>Reference: most common BAC-level in<br>Europe (mode).<br>Whether hand-held and hands-free phoning |
| <ul> <li>Hand held:</li> <li>Hands free:</li> </ul>  | is allowed while driving (a car).<br>Reference: most common situation in Europe<br>(mode).  |
| Use of restraint systems:<br>– Driver:<br>– Front passenger:<br>– Rear passenger:<br>– Children:   | Whether the use of restraint systems in cars<br>is obligatory, recommended, or not regulated.<br>Reference: most common situation in Europe<br>(mode).                      |
| Helmet wearing:<br>– Motor riders:<br>– Moped riders:<br>– Cyclists:   | Whether the use of helmets is obligatory,<br>recommended, or not regulated for each<br>road-user category.<br>Reference: most common situation in Europe<br>(mode).         |
| -  | Free regulation issues like DRL and demerit<br>point systems.<br>No European reference.   |

### • Enforcement

**Table 9:** Effectiveness of enforcement effort in the country according to an international respondent consensus (scale = 0-10) (Source: DG-TREN, 2010)

| Issue                           | Score for the<br>country          | Most common in Europe<br>(% of countries) |
|---------------------------------|-----------------------------------|---|
| Speed legislation enforcement   |                                   |   |
| Seat-belt law enforcement       | Score of                          | Most frequent score                       |
| Child restraint law enforcement | effectiveness<br>(10-point scale) | among the scored<br>countries (mode)      |
| Helmet legislation enforcement  |                                   |   |



**Table 10:** Performance of enforcement effort in the country according to an international respondent consensus (scale = is good, is improving, needs to do more) (Source: DG-TREN, 2010)

| Issue         | Score for the country       | Most common in Europe<br>(% of countries)      |
|---------------|-----------------------------|--|
| Speeding      | Score of performance        |  |
| Drink driving | (3-point scale: needs to do | Most frequent score among the scored countries |
| Seat belt use | more, is improving, good)   |  |

### · Road user education and training

**Table 11:** Road user education and training in the country, compared to the situation in other

 European countries. (Sources: [1] ROSE25, 2005; [2] ETSC, 2011; [3] national sources)

| Education and training in the country   | Most common in Europe (% of countries)   |
|---|--|
| <ul> <li>General education programmes:</li> <li>Primary school: Compulsory/voluntary</li> <li>Secondary school: Compulsory/voluntary</li> <li>Other groups: type of groups (e.g. elderly, cyclists etc.)</li> </ul> | Most frequent situation in Europe.<br>Most frequent situation in Europe.<br>No reference |
| <ul> <li>Driving licences thresholds (minimum ages per category):</li> <li>Passenger car:</li> <li>Motorised two wheeler:</li> <li>Busses and coaches:</li> <li>Lorries and trucks:</li> </ul>                      | Most frequent driving license<br>thresholds (minimum ages) in Europe                     |

### Public campaigns

**Table 12:** Public campaigns in the country, compared to the situation in other European countries. (Sources: SUPREME, 2007; national sources)

| Campaigns in the country   | Most common issues in Europe<br>(% of countries)    |
|--|---|
| <ul> <li>Organisation:</li> <li>List of organisations that are active in the field of road safety campaigns</li> </ul> | No reference  |
| Main themes:<br>– List of main road safety themes in campaigns   | List of most frequent road safety themes in Europe. |

### • Vehicles and technology (national developments)

**Table 13:** Developments of vehicles and technology in the country, compared to the situation in other European countries. (Sources: TiS.PT, 2003; national sources)

| Technical inspections mandatory for:         | Most common in Europe<br>(% of countries)  |
|--|--|
| Passenger cars: frequency in months/years    | Most frequent situation with   |
| Motorcycles: frequency in months/years       | <ul> <li>Most frequent situation with</li> <li>respect to mandatory technical</li> </ul> |
| Busses or coaches frequency in months/years  | inspection periods in Europe   |
| Lorries or trucks: frequency in months/years | Inspection periods in Europe   |





# **Road Safety Performance Indicators**

### Speed

**Table 14:** Number of speed checks in the country versus the European average (Source: ETSC, 2010)

| Measure                               | 2001                             | Latest year<br>available   | Average annual change   | European<br>average (last<br>available year) |
|---------------------------------------|----------------------------------|--|---|--|
| Number of<br>tests/1000<br>population | tests reg<br>police, c<br>number | imber of speed<br>istered by the<br>livided by the<br>of inhabitants<br>1000). | Average year-by-year<br>change in annual<br>tests/population over<br>the indicated years.<br>$1/(n-1)\sum(y_n-y_{n-1})/y_{n-1}$ | European<br>average as<br>reference          |

**Table 15:** Percentage of speed offenders per road type in the country compared to the European average (Source: ETSC, 2010)

| Road type   | 2001   | Latest year<br>available | Average annual<br>change                                       | European<br>average (last<br>available year) |  |
|-------------|--|--------------------------|--|--|--|
| Motorways   | Annual percentage of<br>speed offenders<br>registered per road type. |                          | Average year-by-year   |  |  |
| Rural roads |  |                          | change in the annual<br>% of speed offenders<br>per road type. | European<br>average as<br>reference          |  |
| Urban roads |  |                          | 1/(n-1)∑(y <sub>n</sub> -y <sub>n-1</sub> )/y <sub>n-1</sub>   |  |  |

**Table 16:** Mean speed per road type in the country compared to the European average (Source: ETSC, 2010)

| Road type   | 2001  | Latest year<br>available | Average annual change  | European<br>average (latest<br>year available) |  |
|-------------|---|--------------------------|--|--|--|
| Motorways   | Annual mean speed registered per road type. |                          | Average year-by-year   |  |  |
| Rural roads |   |                          | change in the annual<br>mean speed per road<br>type.         | European<br>average as<br>reference            |  |
| Urban roads |   |                          | 1/(n-1)∑(y <sub>n</sub> -y <sub>n-1</sub> )/y <sub>n-1</sub> |  |  |



#### Alcohol

**Table 17:** Road side surveys for drink-driving in the country compared to the European average (Source: ETSC, 2010)

| Measure                               | 2001                            | 2001 Last year<br>available  |   | European<br>average<br>(last year<br>available) |
|---------------------------------------|---------------------------------|--|---|---|
| Number of<br>tests/1000<br>population | tests registere<br>divided by t | r of drink-driving<br>ed by the police,<br>he number of<br>nts (*1000) | Average year-by-<br>year change in<br>rates.                      | European<br>average of                          |
| % tested over the limit               | tested over t                   | ber of people<br>he BAC limit in<br>e surveys.                         | 1/(n-1)*<br>∑(y <sub>n</sub> -y <sub>n-1</sub> )/y <sub>n-1</sub> | the rates.                                      |

### Vehicles

**Table 18:** State of the vehicle fleet in the country compared to the European average (Source: ETSC, 2009)

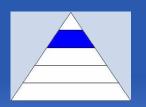
| Vehicle fleet in the country                            | European average                                 |
|---|--|
| Cars per age group (last year available):               |  |
| $-$ % $\leq$ 2 years,                                   | Average European shares                          |
| <ul> <li>% 2 to 5 years,</li> </ul>                     | of passenger cars per age                        |
| <ul> <li>% 6 to 10 years,</li> </ul>                    | group.   |
| – % > 10 year.  |  |
| EuroNCAP occupant protection score of cars (new cars    |  |
| sold in the latest year available):                     |  |
| <ul> <li>5 stars: % of new cars with 5 stars</li> </ul> | Average European chares                          |
| <ul> <li>4 stars: % of new cars with 4 stars</li> </ul> | Average European shares<br>of new cars per star- |
| <ul> <li>3 stars: % of new cars with 3 stars</li> </ul> | category.  |
| <ul> <li>2 stars: % of new cars with 2 stars</li> </ul> | category.  |

## Protective systems

**Table 19:** Protective system use in the country versus the average in Europe (Source: Vis & Eksler, 2008, national sources)

| Use of protective systems in the country  | European average   |  |  |
|---|--|--|--|
| <ul> <li>Daytime seat belt wearing in cars and vans (last year available; daytime wearing rates):</li> <li>% front,</li> <li>% driver</li> <li>% front passenger</li> <li>% rear,</li> <li>% child restraint systems</li> </ul> | Annual European average of<br>seat belt wearing rates in<br>passenger cars per seat<br>location. |  |  |
| Helmet use (last year available):<br>– % motor riders,<br>– % moped riders,<br>– % cyclists   | Annual European average of<br>helmet wearing rates per<br>type of two-wheeler.                   |  |  |





## **Road Safety Outcomes**

### General positioning

Figure 1: Fatalities per million inhabitants (2010). (Source: CARE, Eurostat).

*Figure 2:* Development of fatalities per million inhabitants between 1991 and 2010. (Source: CARE, Eurostat).

### Transport mode

**Table 20:** Reported fatalities by mode of road transport in the country compared to the European average of the last year available (Source: CARE, national sources).

| Transport mode   | 2001  | Last year<br>available | Average<br>annual<br>change      | % in last<br>year<br>available | European<br>average<br>(last year<br>available) |
|------------------|---|------------------------|----------------------------------|--------------------------------|---|
| Pedestrians      |   |                        | Assessed of the                  |                                |   |
| Car occupants    | Number of fatalities<br>per transport mode<br>reported by the police,<br>as stated in CARE on<br>October 2011 |                        | Average of the                   |                                | Average   |
| Motorcyclists    |   |                        | year-by-year                     | Share of                       | European  |
| Mopeds           |   |                        | change in                        | fatalities                     | share of  |
| Cyclists         |   |                        | fatalities per<br>transport      | per                            | fatalities                                      |
| Bus/coach        |   |                        | mode.                            | transport                      | per   |
| occupants        |   |                        | 1/(n-1)*                         | mode.                          | transport                                       |
| Lorries or truck |   |                        | $\sum (y_n - y_{n-1}) / y_{n-1}$ |                                | mode.   |
| occupants        |   |                        | ∠\yn yn-1/ <sup>y</sup> yn-1     |                                |   |

### • Age, gender and nationality

**Table 21**: Reported fatalities by age, gender and nationality in the country versus the European average of the last year available (Source: CARE, national sources).

| Age and gender      | 2001   | Last year<br>available                            | Average<br>annual change  | % in last<br>year<br>available      | European<br>average<br>(last year<br>available)                 |
|---------------------|--|---|---|-------------------------------------|---|
| Females             |  |   |   |                                     |   |
| 0-14 years          |  |   |   |                                     |   |
| 15 – 17 years       |  |   |   |                                     |   |
| 18 – 24 years       | Number of<br>fatalities per age and<br>gender reported by<br>the police, as stated<br>in CARE on October<br>2011 |   | Average of the  |                                     | Average   |
| 25 – 49 years       |  |   | Average of the  | Share of                            | Average   |
| 50 – 64 years       |  |   | year-by-year<br>change in   | fatalities                          | European<br>share of<br>fatalities<br>per age<br>and<br>gender. |
| 65+ years           |  |   | fatalities per age  | per age<br>and                      |   |
| Males               |  |   | and gender.<br>1/(n-1)*   |                                     |   |
| 0-14 years          |  |   |   | gender.                             |   |
| 15 – 17 years       |  |   | $\sum (y_n - y_{n-1}) / y_{n-1}$  | gender.                             |   |
| 18 – 24 years       |  |   |   |                                     |   |
| 25 – 49 years       |  |   |   |                                     |   |
| 50 – 64 years       |  |   |   |                                     |   |
| 65+ years           |  |   |   |                                     |   |
| Nationality of driv | er or rider  | killed  |   |                                     |   |
| National            | nationa  | mber of<br>al/foreign                             | Average of the<br>year-by-year  | Share of national                   | Average<br>European<br>share of                                 |
| Non-national        | the police<br>in CARE  | reported by<br>e, as stated<br>on October<br>2011 | change in<br>fatalities.<br>1/(n-1)*<br>∑(y <sub>n</sub> -y <sub>n-1</sub> )/y <sub>n-1</sub> | and non-<br>national<br>fatalities. | national<br>and non-<br>national<br>fatalities.                 |



#### Location

**Table 22:** Reported fatalities by location in the country compared to the European average of the last year available (Source: CARE, national sources).

| Location       | 2001  | Last year<br>available | Average<br>annual<br>change                 | % in last<br>year<br>available | European<br>average<br>(last year<br>available) |
|----------------|---|------------------------|---|--------------------------------|---|
| Built-up areas | Number of<br>fatalities per location<br>reported by the |                        | Average of the                              |                                | Average   |
| Junctions      |   |                        | year-by-year<br>change in<br>fatalities per | Share of<br>fatalities         | European share of                               |
| Rural areas    |   | stated in October      | location.<br>1/(n-1)*                       | per<br>location*.              | fatalities<br>per                               |
| Motorways      | 20  | 011                    | $\sum (y_{n}-y_{n-1})/y_{n-1}$              |                                | location.                                       |

\* Note: countries differ in the way in which they deal with categorizing locations. In some countries, motorways are treated as a separate category, in others, they are considered as part of rural and/or built-up areas. The same holds for junctions, which are sometimes treated as a separate category, sometimes as a subcategory.

#### Lighting and weather conditions

**Table 23:** Reported fatalities by lighting and weather conditions in the country compared to the European average of the last year available (Source: CARE, national sources).

| Conditions          | 2001  | Last year<br>available   | Average annual<br>change   | % in last<br>year<br>available               | European<br>average<br>(last year<br>available)                    |
|---------------------|---|--|--|--|--|
| Lightning condit    | tions   |  |  |  |  |
| During daylight     | Number of<br>fatalities per lightning<br>condition reported by<br>the police, as stated<br>in CARE on October<br>2011 |  | Average of the<br>year-by-year<br>change in  | Share of                                     | Average<br>European  |
| During<br>nighttime |   |  | fatalities per<br>lightning<br>condition.<br>1/(n-1)*<br>∑(y <sub>n</sub> -y <sub>n-1</sub> )/y <sub>n-1</sub> | fatalities<br>per<br>lightning<br>condition. | share of<br>fatalities<br>per<br>lightning<br>condition.           |
| Weather condition   | on  |  |  | •  |  |
| While raining       | fatalities v<br>reporte<br>police, a<br>CARE o  | mber of<br>vhile raining<br>ed by the<br>s stated in<br>n October<br>011 | Average of the<br>year-by-year<br>change in<br>fatalities while<br>raining.<br>1/(n-1)*<br>∑(yn-yn-1)/yn-1     | Share of<br>fatalities<br>while<br>raining.  | Average<br>European<br>share of<br>fatalities<br>while<br>raining. |



#### Single vehicle crashes

**Table 24:** Reported fatalities by crash type in the country compared to the European average of the last year available (Source: CARE, national sources).

| Crash type              | 2001                                      | Last year<br>available   | Average<br>annual<br>change  | % in last<br>year<br>available                             | European<br>average<br>(last year<br>available)                                  |
|-------------------------|---|--|--|--|--|
| Single vehicle<br>crash | vehicle<br>reporte<br>police, a<br>CARE o | s in single<br>crashes<br>ed by the<br>s stated in<br>n October<br>011 | Average of the year-by-year change in fatalities in single vehicle crashes. $1/(n-1)^* \sum (y_n-y_{n-1})/y_{n-1}$ | Share of<br>fatalities<br>in single<br>vehicle<br>crashes. | Average<br>European<br>share of<br>fatalities in<br>single<br>vehicle<br>crashes |

### Under-reporting of casualties

- Fatalities: share of fatalities reported by the police. An answer of 100% is considered as not realistic but most countries have no better information while a secondary and/or tertiary recording system is missing to compare records with.
- Hospitalised: share of hospitalized road traffic victims as reported by the police.

(Source: national sources/WHO/CARE)

#### Risk figures

*Figure 3:* Fatalities by vehicle fleet mode for the country in latest year available (Sources: CARE).

*Figure 4:* Fatalities by number of inhabitants in the country in latest year available (Sources: CARE, IRTAD).

*Figure 5:* Fatalities per million vehicle km by road type for the country in latest year available (Sources: CARE, EUROSTAT).





## **Social costs**

 Total costs of road crashes: ... billion Euros. Mostly, this is assessed via the 'willingness to pay'-method, and also takes into account immaterial costs.
 Percentage of GDP: ...% in latest year available.

**Table 25:** Cost (in million Euro) per injury type in the country versus the European average (Source: Bickel et al., 2006; national sources).

| Injury type      | Value (last year<br>available) | European average              |
|------------------|--------------------------------|-------------------------------|
| Fatal            | Values assed in the            | European average of countries |
| Hospitalised     | country for the                | with available data as        |
| Slightly injured | different injury types.        | reference.                    |





# **Synthesis**

### Safety position

 Safety position (fatalities per population) in relation to the other European countries

#### • Scope of problem

 List of most remarkable problems (particularly those issues that show to be worse than the European reference)

#### Recent progress

 List of progress issues (particularly those issues that are more positive for road safety than the average progress in European)

#### Remarkable road safety policy issues

 List of measures or program issues in the country that are positive for road safety (particularly those measures that are good for road safety and in which the country is marching ahead of the European reference).



## **Literature**

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