

Objectives

- Assessment of risk exposure data **availability and usability**
- Identification of **comparable sets of exposure data** across the EU countries to be combined with road accident data
- Recommendations towards a **common European framework** for exposure data

Methodology

- An exhaustive literature review
- A short yet comprehensive questionnaire was sent to the EU countries, including basic information on data availability and quality
- A second exhaustive questionnaire followed:
 - ✓ exposure measures
 - ✓ **variables, values and definitions**
 - ✓ **collection methods** and their features
 - ✓ data structure

Results: assessing data compatibility

| |
|---|
| Compatible values (compatible definition) |
| Probably compatible values (unknown country definition) |
| Incompatible values or incompatible definition with CARE / EUROSTAT |
| The value is not available |

Road length (road registers)

| Variable | Value | AT | BE | CY | CZ | DE | DK | EE | EL | ES | FI | FR | HU | IE | IT | LT | LU | LV | MT | NL | NO | PL | PT | SE | SI | SK | UK | |
|-----------|--------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|--|
| Area type | Inside urban area | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Outside Urban area | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Road type | Motorway (yes/no) | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Road type groups | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Region | NUTS | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Other | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Vehicle fleet (vehicle registers)

| Variable | Value | AT | BE | CY | CZ | DE | DK | EE | EL | ES | FI | FR | HU | IE | IT | LT | LU | LV | MT | NL | NO | PL | PT | SE | SI | SK | UK | |
|---------------------|----------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|--|
| Vehicle type | Passenger car | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Lorry < 3,5t | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Truck > 3,5t | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Bus or coach | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Moped | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Motorcycle | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Road tractor | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Agricultural tractor | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Vehicle age | 0-99 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Age groups | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Vehicle engine size | 0-5000 cc | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Engine size groups | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Unknown | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Region | NUTS | | | | | | | | | | | | | | | | | | | | | | | | | | | |

^a correction coefficient required

Driver population (driving license registers)

| Variable | Value | AT | BE | CY | CZ | EE | EL | ES | FI | FR | HU | IE | LV | MT | NO | PO | PT | SE | SK | UK | | | | | | | |
|--------------------|---------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|--|--|--|--|--|--|--|
| Driver age | 0-99 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Age groups | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Driver gender | Male | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Female | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Driver license age | 0-99 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Age groups | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Region | NUTS | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Other | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Driver Nationality | Country names | | | | | | | | | | | | | | | | | | | | | | | | | | |

Person kilometres / Number of trips / Time in traffic (travel surveys)

- Comparable for only a few countries, for very few variables and values

Vehicle-kilometres (travel surveys)

| Variable | Value | AT | DK | DE | EE | FR | NL | NO | PT | SE | SI | SK |
|---------------------|---------------------------|----|----|----|----|----|----|----|----|----|----|----|
| Road type | Motorway | | | | | | | | | | | |
| | Road type groups | | | | | | | | | | | |
| Vehicle type | Passenger car | | | | | | | | | | | |
| | Lorry < 3,5t | | | | | | | | | | | |
| | Truck > 3,5t | | | | | | | | | | | |
| | Bus or coach | | | | | | | | | | | |
| | Moped | | | | | | | | | | | |
| | Motorcycle | | | | | | | | | | | |
| | Tractors | | | | | | | | | | | |
| Vehicle age | Years | | | | | | | | | | | |
| | 0-99 | | | | | | | | | | | |
| Driver age | Age groups | | | | | | | | | | | |
| | 0-99 | | | | | | | | | | | |
| Driver gender | Male/female | | | | | | | | | | | |
| Driver nationality | Nationality | | | | | | | | | | | |
| Area type | Inside/outside urban area | | | | | | | | | | | |
| Year/month/day/hour | 1-12/1-31/0-23 | | | | | | | | | | | |

Vehicle-kilometres (traffic counts)

| Variable | Value | CZ | DK | EE | FI | FR | HU | NO | PL | SE | SI | UK |
|--------------|---------------------------|----|----|----|----|----|----|----|----|----|----|----|
| Vehicle type | Passenger car | | | | | | | | | | | |
| | Lorry < 3,5t | | | | | | | | | | | |
| | Truck > 3,5t | | | | | | | | | | | |
| | Bus or coach | | | | | | | | | | | |
| | Moped | | | | | | | | | | | |
| | Motorcycle | | | | | | | | | | | |
| | Road tractors | | | | | | | | | | | |
| Road type | Other | | | | | | | | | | | |
| | Motorway | | | | | | | | | | | |
| Year | Year | | | | | | | | | | | |
| | 1-12 / 1-31 / 0-23 | | | | | | | | | | | |
| Area type | Inside/outside urban area | | | | | | | | | | | |

^a month only

Population

- Comparable for all countries, per person age and gender

Summary of the common framework

- **Road length** per motorway (yes/no) and region
- **Vehicle fleet** per vehicle type (passenger car, bus or coach, motorcycle), vehicle age, vehicle engine size
- **Driver population** per driver age, gender and license age
- **Vehicle kilometres** per motorway (yes/no), vehicle type (passenger car, HGV, motorcycle)

Conclusions

- A lot of exposure data is available at national level
- However, **comparability is often limited** due to differences in variables, values, definitions, collection methods used and their features
- *The most useful data are the least available / compatible*
- The present analysis provides a tool for **optimal use of the existing data**