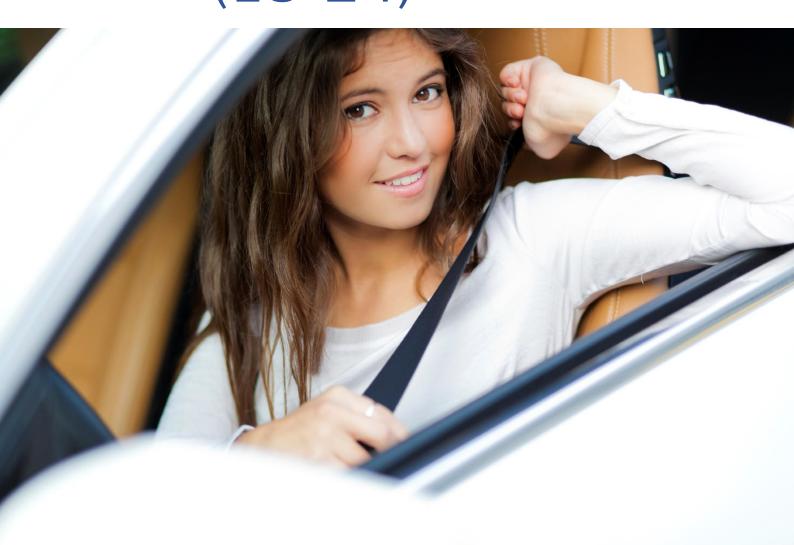




# Traffic Safety Basic Facts 2018



# Young people (18-24)





The number of young people killed in road accidents fell by 55% between 2007 and 2016.

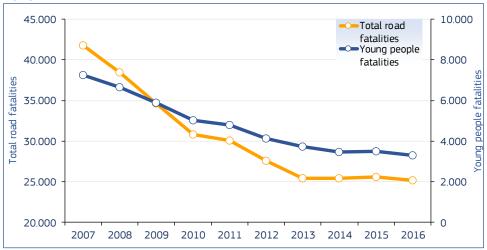
About 48.000 young people were killed in road accidents in the EU between 2007 and 2016, representing 15% of all road accident fatalities in those countries.

#### **General**

"Young people" are defined as those who are between 18 and 24 years old. In general, young people worldwide are far more likely to be victims in road accidents than people in any other age group. About 48.000 people 18-24 years old were killed in road accidents in the EU within the decade 2007-2016. This number represents 15% of all road fatalities in those countries.

The number of young people killed in road accidents in 2016 fell by 55% compared to the respective number in 2007. The total number of fatalities also fell by 41% in the EU countries over the same period.

Figure 1: Number of young people fatalities and all road fatalities, EU, 2007-2016



Source: CARE database, data available in May 2018

During the decade 2007-2016, almost all countries experienced significant reductions in young people fatalities. The highest reduction between 2007 and 2016 occurred in Estonia (88%).



Table 1: Number of young people fatalities by country, 2007-2016

| Iable          | . T. I | MILLIDE | oi you | iig peol | ne rate | uicies t | y coun | LI y, 201 | J/-201 | U     |       |
|----------------|--------|---------|--------|----------|---------|----------|--------|-----------|--------|-------|-------|
|                |        | 2007    | 2008   | 2009     | 2010    | 2011     | 2012   | 2013      | 2014   | 2015  | 2016  |
| ВІ             | E      | 215     | 177    | 147      | 171     | 143      | 128    | 119       | 117    | 101   | 87    |
| В              | G      | -       | 187    | 157      | 116     | 102      | 95     | 85        | 84     | 97    | -     |
| CZ             | Z      | 190     | 193    | 133      | 125     | 129      | 96     | 96        | 100    | 103   | 65    |
| DI             | K      | 58      | 69     | 53       | 42      | 35       | 31     | 25        | 22     | 32    | 31    |
| DI             | E      | 971     | 887    | 796      | 690     | 737      | 611    | 493       | 496    | 473   | 435   |
| E              | E      | 41      | 28     | 21       | 10      | 15       | 17     | 8         | 13     | 5     | -     |
| IE             |        | 76      | 75     | 64       | 56      | 39       | 35     | 36        | 28     | -     | -     |
| EI             | L      | 280     | 246    | 242      | 186     | 163      | 143    | 112       | 114    | 112   | 101   |
| ES             | 5      | 550     | 469    | 357      | 311     | 234      | 175    | 145       | 130    | 144   | 176   |
| FF             | R      | 984     | 956    | 901      | 831     | 813      | 753    | 636       | 582    | 619   | 596   |
| HI             |        | 135     | 130    | 102      | 58      | 81       | 48     | 58        | 36     | 45    | 42    |
| IT             |        | 723     | 634    | 579      | 547     | 496      | 423    | 404       | 369    | 379   | 352   |
| C              |        | 24      | 17     | 19       | 12      | 14       | 10     | 18        | 12     | 11    | 5     |
| L۱             |        | 44      | 48     | 31       | 35      | 20       | 16     | 14        | 30     | 20    | 18    |
| Li             |        | -       | -      | -        | -       | -        | -      | 41        | 33     | 29    | -     |
| LU             | -      | 8       | 8      | 10       | 10      | 8        | 6      | 5         | 5      | 5     | 3     |
| н              | _      | 139     | 103    | 81       | 73      | 73       | 42     | 50        | 59     | 61    | 47    |
| M'             |        | 4       | 2      | 2        | 4       | -        | -      | -         | -      | 2     | 2     |
| N              |        | 134     | 107    | 126      | 90      | 86       | 76     | 81        | 69     | 70    | 75    |
| A <sup>-</sup> |        | 135     | 134    | 99       | 102     | 76       | 84     | 56        | 59     | 72    | 56    |
| PI             |        | 953     | 948    | 833      | 677     | 718      | 585    | 551       | 499    | 446   | 440   |
| P              |        | 148     | 113    | 109      | 88      | 105      | 65     | 65        | 53     | 47    | 54    |
| RO             |        | 402     | 439    | 416      | 307     | 251      | 231    | 220       | 177    | 207   | 195   |
| S              |        | 64      | 38     | 30       | 19      | 17       | 19     | 22        | 9      | 16    | 21    |
| SI             |        | 87      | 92     | 53       | 59      | -        | -      | -         | _      | _     | _     |
| F              |        | 75      | 50     | 51       | 48      | 51       | 41     | 36        | 32     | 48    | 41    |
| SI             |        | 86      | 64     | 60       | 47      | 57       | 41     | 40        | 25     | 35    | 31    |
| UI             |        | 639     | 542    | 467      | 362     | 341      | 344    | 348       | 335    | 309   | 279   |
| E              | _      | 7.266   | 6.664  | 5.887    | 5.017   | 4.804    | 4.115  | 3.723     | 3.455  | 3.487 | 3.282 |
| Yea<br>char    |        |         | -8,3%  | -11,7%   | -14,8%  | -4,2%    | -14,3% | -9,5%     | -7,2%  | 0,9%  | -5,9% |
| IS             | 5      | 2       | 3      | 1        | 3       | 0        | 2      | 2         | 1      | 5     | 0     |
| NO             | 0      | 33      | 59     | 46       | 42      | 27       | 20     | 29        | 18     | 31    | 20    |
| Cl             | Н      | 61      | 44     | 68       | 36      | 41       | 39     | 30        | 38     | 35    | 26    |
|                |        |         |        |          |         |          |        |           |        |       |       |

The most significant reduction in young people fatalities between 2007 and 2016 occurred in Estonia (88%).

Source: CARE database, data available in May 2018

Totals for EU include latest available data (Data for Lithuania and Slovakia not included in totals)



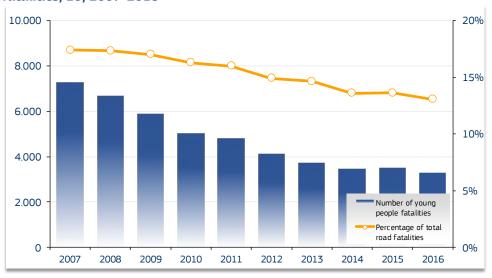
The number of fatalities amongst young people, expressed as a percentage of all fatalities, has been gradually reducing over the decade 2007-2016, although this is not the case in every country.

Table 2: Percentage of young people fatalities of all road fatalities, 2007-2016

|        |      | -5- 0. | , ourig p | pic .  |      |      |      |      | -, -007 |      |
|--------|------|--------|-----------|--------|------|------|------|------|---------|------|
|        | 2007 | 2008   | 2009      | 2010   | 2011 | 2012 | 2013 | 2014 | 2015    | 2016 |
| BE     | 20%  | 19%    | 16%       | 20%    | 17%  | 17%  | 16%  | 16%  | 14%     | 14%  |
| BG     | -    | 18%    | 17%       | 15%    | 16%  | 16%  | 14%  | 13%  | 14%     | -    |
| CZ     | 16%  | 18%    | 15%       | 16%    | 17%  | 13%  | 15%  | 15%  | 14%     | 11%  |
| DK     | 14%  | 17%    | 17%       | 16%    | 16%  | 19%  | 13%  | 12%  | 18%     | 15%  |
| DE     | 20%  | 20%    | 19%       | 19%    | 18%  | 17%  | 15%  | 15%  | 14%     | 14%  |
| EE     | 21%  | 21%    | 21%       | 13%    | 15%  | 20%  | 10%  | 17%  | 7%      | -    |
| IE     | 22%  | 27%    | 27%       | 26%    | 21%  | 22%  | 19%  | 15%  | -       | -    |
| EL     | 17%  | 16%    | 17%       | 15%    | 14%  | 14%  | 13%  | 14%  | 14%     | 12%  |
| ES     | 14%  | 15%    | 13%       | 13%    | 11%  | 9%   | 9%   | 8%   | 9%      | 10%  |
| FR     | 21%  | 22%    | 21%       | 21%    | 21%  | 21%  | 19%  | 17%  | 18%     | 17%  |
| HR     | 22%  | 20%    | 19%       | 14%    | 19%  | 12%  | 16%  | 12%  | 13%     | 14%  |
| IT     | 14%  | 13%    | 14%       | 13%    | 13%  | 11%  | 12%  | 11%  | 11%     | 11%  |
| CY     | 27%  | 21%    | 27%       | 20%    | 20%  | 20%  | 41%  | 27%  | 19%     | 11%  |
| LV     | 11%  | 15%    | 12%       | 16%    | 11%  | 9%   | 8%   | 14%  | 11%     | 11%  |
| LT     | -    | -      | -         | -      | -    | -    | 16%  | 12%  | 12%     | -    |
| LU     | 17%  | 23%    | 21%       | 31%    | 24%  | 18%  | 11%  | 14%  | 14%     | 9%   |
| HU     | 11%  | 10%    | 10%       | 10%    | 11%  | 7%   | 8%   | 9%   | 9%      | 8%   |
| MT     | 33%  | 22%    | 13%       | 31%    | -    | -    | -    | -    | 18%     | 9%   |
| NL     | 19%  | 16%    | 20%       | 17%    | 16%  | 14%  | 17%  | 14%  | 13%     | 14%  |
| AT     | 20%  | 20%    | 16%       | 18%    | 15%  | 16%  | 12%  | 14%  | 15%     | 13%  |
| PL     | 17%  | 17%    | 18%       | 17%    | 17%  | 16%  | 16%  | 16%  | 15%     | 15%  |
| PT     | 15%  | 13%    | 13%       | 9%     | 12%  | 9%   | 10%  | 8%   | 8%      | 10%  |
| RO     | 14%  | 14%    | 15%       | 13%    | 12%  | 11%  | 12%  | 10%  | 11%     | 10%  |
| SI     | 22%  | 18%    | 18%       | 14%    | 12%  | 15%  | 18%  | 8%   | 13%     | 16%  |
| SK     | 13%  | 15%    | 14%       | 16%    | -    | -    | -    | -    | -       | -    |
| FI     | 20%  | 15%    | 18%       | 18%    | 17%  | 16%  | 14%  | 14%  | 18%     | 16%  |
| SE     | 18%  | 16%    | 17%       | 18%    | 18%  | 14%  | 15%  | 9%   | 14%     | 11%  |
| UK     | 21%  | 20%    | 20%       | 19%    | 17%  | 19%  | 20%  | 18%  | 17%     | 15%  |
| EU     | 17%  | 17%    | 17%       | 16%    | 16%  | 15%  | 15%  | 14%  | 14%     | 13%  |
| IS     | 0%   | -1%    | -1%       | -2%    | 0%   | -2%  | -1%  | -2%  | 0%      | 0%   |
| NO     | 1%   | 1%     | 0%        | 1%     | 0%   | 1%   | 1%   | 1%   | 4%      | 0%   |
| CH     | 9%   | 17%    | 13%       | 13%    | 8%   | 6%   | 11%  | 7%   | 12%     | 9%   |
| C CADE |      | 1 .    |           | 4 2010 |      |      |      |      |         |      |

Source: CARE database, data available in May 2018

Figure 2: Number of young people fatalities and percentage of all road fatalities, EU, 2007-2016



Source: CARE database, data available in May 2018

In 2016, young people fatalities accounted for almost 13% of all road fatalities in the EU.



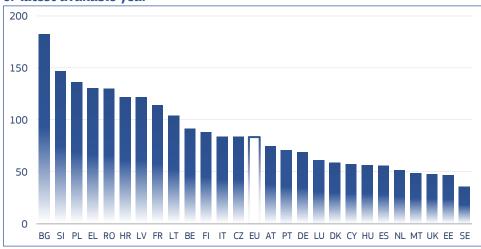
Table 3: Young people fatality rates per million population by country, 2007-2016

| 2010         |            |          |              |          |      |      |      |      |      |      |
|--------------|------------|----------|--------------|----------|------|------|------|------|------|------|
|              | 2007       | 2008     | 2009         | 2010     | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
| BE           | 241        | 197      | 161          | 184      | 150  | 133  | 124  | 122  | 106  | 92   |
| BG           | -          | 267      | 227          | 171      | 155  | 150  | 140  | 148  | 182  | -    |
| CZ           | 202        | 204      | 140          | 132      | 139  | 105  | 108  | 117  | 126  | 84   |
| DK           | 138        | 160      | 118          | 91       | 73   | 63   | 49   | 43   | 61   | 58   |
| DE           | 143        | 130      | 116          | 102      | 113  | 94   | 77   | 79   | 76   | 69   |
| EE           | 293        | 199      | 150          | 73       | 113  | 134  | 67   | 117  | 47   | -    |
| IE           | 157        | 153      | 133          | 123      | 93   | 87   | 92   | 72   | -    | -    |
| EL           | 285        | 259      | 262          | 206      | 184  | 167  | 134  | 140  | 142  | 131  |
| ES           | 145        | 124      | 96           | 87       | 67   | 51   | 43   | 40   | 45   | 56   |
| FR           | 178        | 174      | 163          | 151      | 149  | 140  | 120  | 110  | 118  | 114  |
| HR           | 348        | 340      | 271          | 157      | 224  | 135  | 165  | 104  | 130  | 122  |
| IT           | 174        | 152      | 138          | 130      | 117  | 100  | 95   | 86   | 90   | 84   |
| CY           | 279        | 191      | 207          | 127      | 144  | 101  | 187  | 132  | 123  | 57   |
| LV           | 179        | 196      | 130          | 156      | 94   | 80   | 74   | 172  | 124  | 122  |
| LT           | -          | -        | -            | -        | -    | -    | -    | 115  | 104  | -    |
| LU           | 204        | 201      | 245          | 242      | 188  | 134  | 109  | 107  | 104  | 61   |
| HU           | 152        | 114      | 90           | 81       | 82   | 48   | 57   | 68   | 72   | 57   |
| MT           | 99         | 50       | 49           | 97       | -    | -    | -    | -    | 49   | 49   |
| NL           | 99         | 78       | 90           | 63       | 59   | 52   | 55   | 47   | 48   | 51   |
| AT           | 188        | 187      | 137          | 141      | 104  | 115  | 76   | 80   | 97   | 74   |
| PL           | 215        | 219      | 199          | 171      | 187  | 157  | 152  | 143  | 133  | 136  |
| PT           | 166        | 131      | 130          | 107      | 129  | 80   | 82   | 68   | 61   | 71   |
| RO           | 187        | 220      | 222          | 166      | 138  | 129  | 128  | 108  | 133  | 130  |
| SI           | 342        | 209      | 166          | 107      | 100  | 116  | 139  | 59   | 109  | 147  |
| SK           | 145        | 156      | 91           | 104      | -    | -    | -    | -    | -    | -    |
| FI           | 163        | 109      | 111          | 105      | 110  | 88   | 76   | 68   | 102  | 88   |
| SE           | 111        | 80       | 71           | 54       | 64   | 45   | 44   | 27   | 39   | 36   |
| UK           | 113        | 95       | 81           | 62       | 58   | 58   | 59   | 57   | 52   | 48   |
| EU           | 168        | 155      | 138          | 118      | 115  | 99   | 91   | 86   | 88   | 83   |
| IS           | 65         | 94       | 30           | 92       | 0    | 59   | 59   | 29   | 146  | 0    |
| NO           | 83         | 145      | 109          | 96       | 60   | 43   | 62   | 38   | 65   | 42   |
| CH           | 98         | 70       | 105          | 55       | 61   | 58   | 44   | 56   | 51   | 38   |
| Source: CARE | - datahase | data ava | ailable in N | Jay 2018 |      |      |      |      |      |      |

Source: CARE database, data available in May 2018

In 2016, Bulgaria had the highest fatality rate (182) for young people, whereas Sweden had the lowest relative rate (36) among the EU countries.

Figure 3a: Young people fatality rates per million population by country, 2016 or latest available year



Sources: CARE database (EUROSTAT for population data), data available in May 2018



13% of people killed in road accidents in 2016 in the EU countries were aged 18-24. However, only 8% of the population falls within this age group. Thus, the relative fatality rates have been calculated, allowing for a better comparison of the young people fatality rates to the rates of the total population per country.

fatality rate aged between 18-24 relative fatality rate = fatality rate all ages fatalities where fatality rate = population (millions)

Young people were at 1,6 times the average risk of being killed in a road accident across the EU countries in 2016. As shown in Figure 3b, Slovenia had the highest relative fatality rate (2,3), whereas Hungary had the lowest relative rate (0,9) among the EU countries in 2016.

Figure 3b: Relative young people fatality rates by country, 2016 or latest available year



Sources: CARE database (EUROSTAT for population data), data available in May 2018

In the following tables and figures, the CARE data for 2016 are analysed in greater detail. It should be noted that the latest available data are used, meaning 2010 data for SK, 2014 data for IE and 2015 data for BG, EE and LT.

#### Gender

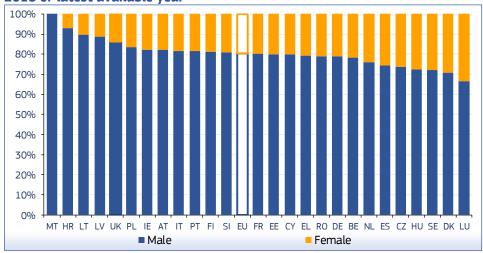
81% of the fatalities among young people were men. Moreover, males had a significantly higher fatality rate per million population (128), compared to females (33). This can possibly be attributed in part to young men tending to take longer trips than young women and different risk taking behaviour. Figure 4 shows the distribution of young people fatalities by gender in each EU country.

Young people are at 1,6 times the risk of being killed in a road accident than the average member of the population across the EU countries as a whole



81% of the fatalities among young people were men in the EU in 2016.

Figure 4: Distribution of young people fatalities by country and gender, EU, 2016 or latest available year



Source: CARE database, data available in May 2018

#### Transport mode and Road user type

Table 4: Total number and distribution of young people fatalities by country and mode of transport, 2016 or latest available year

|    | Car/Taxi | Lorries | PTW | Pedal<br>cycle |      | Other | Total |
|----|----------|---------|-----|----------------|------|-------|-------|
| BE | 79%      | 1%      | 9%  | 2%             | 8%   | 0%    | 87    |
| BG | 72%      | 0%      | 21% | 1%             | 2%   | 4%    | 97    |
| CZ | 86%      | 3%      | 9%  | 0%             | 2%   | 0%    | 65    |
| DK | 71%      | 3%      | 16% | 10%            | 0%   | 0%    | 31    |
| DE | 65%      | 3%      | 21% | 3%             | 8%   | 0%    | 435   |
| EE | 80%      | 0%      | 0%  | 0%             | 20%  | 0%    | 5     |
| IE | 79%      | 4%      | 7%  | 0%             | 7%   | 4%    | 28    |
| EL | 48%      | 0%      | 49% | 1%             | 3%   | 0%    | 101   |
| ES | 52%      | 3%      | 26% | 2%             | 9%   | 9%    | 176   |
| FR | 64%      | 3%      | 21% | 2%             | 8%   | 2%    | 596   |
| HR | 67%      | 0%      | 24% | 0%             | 10%  | 0%    | 42    |
| IT | 63%      | 1%      | 27% | 3%             | 5%   | 2%    | 352   |
| CY | 40%      | 20%     | 40% | 0%             | 0%   | 0%    | 5     |
| LV | 67%      | 0%      | 22% | 0%             | 11%  | 0%    | 18    |
| LT | 61%      | 0%      | 14% | 0%             | 18%  | 7%    | 29    |
| LU | 67%      | 0%      | 0%  | 0%             | 33%  | 0%    | 3     |
| HU | 55%      | 0%      | 17% | 11%            | 15%  | 2%    | 47    |
| MT | 0%       | 0%      | 0%  | 0%             | 100% | 0%    | 2     |
| NL | 66%      | 4%      | 18% | 11%            | 1%   | 0%    | 75    |
| AT | 70%      | 2%      | 20% | 2%             | 5%   | 2%    | 56    |
| PL | 69%      | 0%      | 18% | 3%             | 7%   | 3%    | 440   |
| PT | 67%      | 4%      | 19% | 2%             | 7%   | 2%    | 54    |
| RO | 75%      | 2%      | 8%  | 2%             | 11%  | 3%    | 195   |
| SI | 50%      | 0%      | 31% | 6%             | 13%  | 0%    | 21    |
| SK | 69%      | 0%      | 12% | 2%             | 15%  | 2%    | 59    |
| FI | 83%      | 5%      | 5%  | 0%             | 7%   | 0%    | 41    |
| SE | 67%      | 0%      | 10% | 10%            | 3%   | 10%   | 31    |
| UK | 60%      | 1%      | 21% | 3%             | 14%  | 1%    | 279   |
| EU | 65%      | 2%      | 20% | 3%             | 8%   | 2%    | 3.370 |
| IS | -        | -       | -   | -              | -    | -     | 0     |
| NO | 80%      | 0%      | 10% | 0%             | 0%   | 10%   | 20    |
| СН | 46%      | 0%      | 31% | 0%             | 19%  | 4%    | 26    |

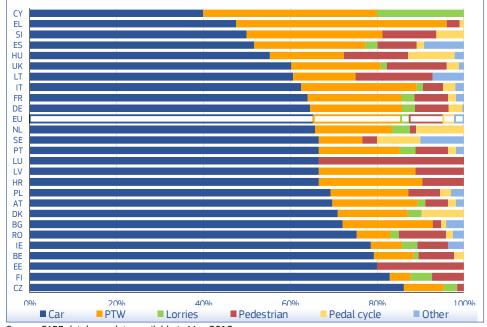
Source: CARE database, data available in May 2018



Almost two-thirds of fatalities of young people across the EU countries were travelling by car or taxi, whilst mopeds and motorcycles accounted for 20% of young people fatalities.

Figure 5 shows that the highest proportion of car occupant fatalities in 2016 were recorded in the Czech Republic (86%) and Finland (83%), while the lowest proportion occurred in Greece (48%).

Figure 5: Distribution of young people fatalities by country and mode of transport, 2016 or latest available year



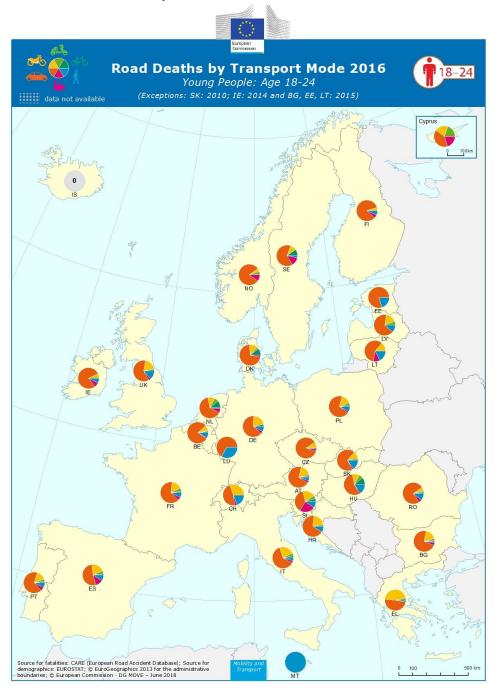
Source: CARE database, data available in May 2018

As far as powered two-wheeler fatalities (users of motorcycles and mopeds) are concerned, the lowest proportion was in Finland (5%). Greece had the highest proportion of 18-24 year olds killed on powered two-wheelers (49%) among the EU countries. Estonia and Lithuania had the highest proportions of young pedestrian fatalities (20% and 18% respectively).

49% of the young people fatalities in Greece were riding powered two-wheelers, the highest proportion among the EU countries.



Map 1: Distribution of young people fatalities by country and mode of transport, 2016 or latest available year



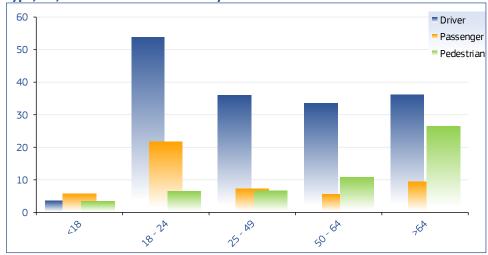
The majority of young people (18-24) killed in road accidents in the EU countries were drivers (2.197, corresponding to 65% of all fatalities at that age group), whereas only 8% (2662) were pedestrians in 2016.



The driver and passenger fatality rates for 18-24 year olds are higher than those of other age groups.

In 2016, about two thirds of young people killed in road accidents in the EU countries were drivers, whereas only 8% were pedestrians.

Figure 6: Total fatality rates per million population by age group and road user type, EU, 2016 or latest available year



Sources: CARE database (EUROSTAT for population data), data available in May 2018

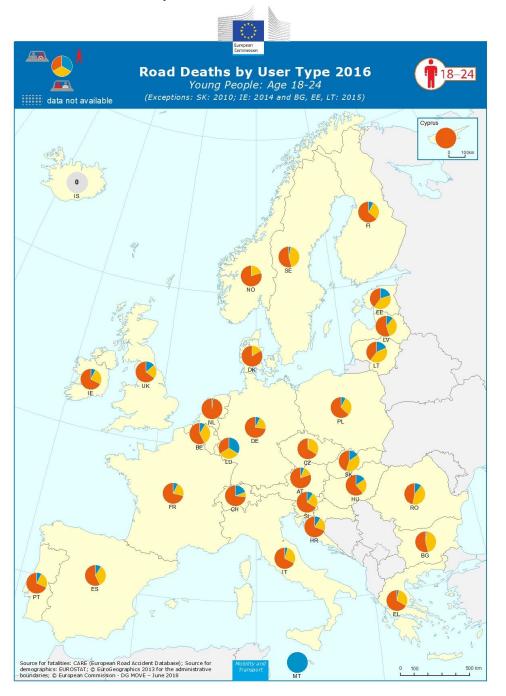
Table 5: Total number and distribution of young people fatalities by country and road user type, 2016 or latest available year

|    | Driver | Passenger | Pedestrian | Total |
|----|--------|-----------|------------|-------|
| BE | 57%    | 34%       | 8%         | 87    |
| BG | 54%    | 44%       | 2%         | 97    |
| CZ | 66%    | 32%       | 2%         | 65    |
| DK | 84%    | 16%       | 0%         | 31    |
| DE | 73%    | 19%       | 8%         | 435   |
| EE | 40%    | 40%       | 20%        | 5     |
| IE | 68%    | 25%       | 7%         | 28    |
| EL | 66%    | 31%       | 3%         | 101   |
| ES | 57%    | 34%       | 9%         | 176   |
| FR | 71%    | 21%       | 8%         | 596   |
| HR | 69%    | 21%       | 10%        | 42    |
| IT | 67%    | 28%       | 5%         | 352   |
| CY | 100%   | 0%        | 0%         | 5     |
| LV | 56%    | 33%       | 11%        | 18    |
| LT | 39%    | 43%       | 18%        | 29    |
| LU | 33%    | 33%       | 33%        | 3     |
| HU | 62%    | 23%       | 15%        | 47    |
| MT | 0%     | 0%        | 100%       | 2     |
| NL | 98%    | 0%        | 2%         | 75    |
| AT | 80%    | 14%       | 5%         | 56    |
| PL | 63%    | 30%       | 7%         | 440   |
| PT | 69%    | 24%       | 7%         | 54    |
| RO | 47%    | 43%       | 11%        | 195   |
| SI | 67%    | 24%       | 10%        | 21    |
| SK | 46%    | 39%       | 15%        | 59    |
| FI | 63%    | 29%       | 7%         | 41    |
| SE | 55%    | 42%       | 3%         | 31    |
| UK | 65%    | 22%       | 14%        | 279   |
| EU | 65%    | 27%       | 8%         | 3.370 |
| IS | -      | -         | -          | 0     |
| NO | 80%    | 20%       | 0%         | 20    |
| CH | 73%    | 8%        | 19%        | 26    |

Source: CARE database, data available in May 2018



Map 2: Distribution of young people fatalities by country and road user type, 2016 or latest available year





#### **Area and Road type**

In the European Union, in 2016, the majority (60%) of young people fatalities occurred outside urban areas (excluding motorways) and only 7% occurred on motorways. The percentage of young people fatalities inside urban areas was 32% for the EU countries.

Table 6: Distribution of young people fatalities by country, area and road type, 2016 or latest available year

| 016 or lat | est available y | ear     |        |         |       |
|------------|-----------------|---------|--------|---------|-------|
|            | Motorway        | Non-mot | torway | Unknown | Total |
|            |                 | Rural   | Urban  |         |       |
| BE         | 14%             | 57%     | 29%    |         | 87    |
| BG         | 7%              | 59%     | 34%    |         | 97    |
| CZ         | 2%              | 69%     | 29%    |         | 65    |
| DK         | 6%              | 68%     | 26%    |         | 31    |
| DE         | 14%             | 69%     | 17%    |         | 435   |
| EE         | -               | -       | -      | 100%    | 5     |
| IE         | 4%              | 68%     | 29%    |         | 28    |
| EL         | 5%              | 37%     | 58%    |         | 101   |
| ES         | 22%             | 49%     | 30%    |         | 176   |
| FR         | 7%              | 68%     | 26%    |         | 596   |
| HR         | 7%              | 24%     | 69%    |         | 42    |
| IT         | 7%              | 54%     | 39%    |         | 352   |
| CY         | 0%              | 0%      | 100%   |         | 5     |
| LV         | 0%              | 83%     | 17%    |         | 18    |
| LT         | -               | -       | -      | 100%    | 29    |
| LU         | 67%             | 33%     | 0%     |         | 3     |
| HU         | 9%              | 57%     | 34%    |         | 47    |
| MT         |                 | 0%      | 100%   |         | 2     |
| NL         | 9%              | 45%     | 44%    | 1%      | 75    |
| AT         | 11%             | 79%     | 11%    |         | 56    |
| PL         | 1%              | 64%     | 35%    |         | 440   |
| PT         | 7%              | 46%     | 46%    |         | 54    |
| RO         | 1%              | 39%     | 61%    |         | 195   |
| SI         | 10%             | 57%     | 33%    |         | 21    |
| SK         | 5%              | 59%     | 36%    |         | 59    |
| FI         | 5%              | 85%     | 10%    |         | 41    |
| SE         | 3%              | 68%     | 26%    | 3%      | 31    |
| UK         | 3%              | 65%     | 32%    |         | 279   |
| EU         | 7%              | 60%     | 32%    | 1%      | 3.370 |
| IS         | -               | -       | -      |         | 0     |
| NO         | 0%              | 80%     | 20%    |         | 20    |
| СН         | 4%              | 69%     | 27%    |         | 26    |
|            | •               |         |        |         |       |

Source: CARE database, data available in May 2018

60% of young people fatalities in road accidents occurred in rural areas in 2016.

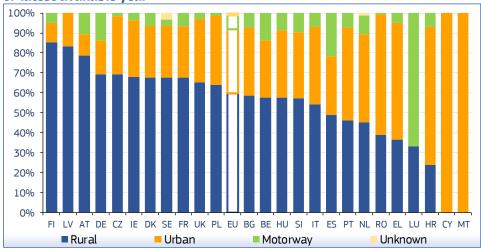


Map 3: Distribution of young people fatalities by country and area type, 2016 or latest available year





Figure 7: Distribution of young people fatalities by country and area type, 2016 or latest available year



Source: CARE database, data available in May 2018

Figure 7 shows that in 2016, Finland had the lowest percentage of young people fatalities inside urban areas (10%), whereas Croatia had the highest percentages (69%) amongst the EU countries.

Finland had the lowest percentage of young people fatalities inside urban areas (10%), whereas Croatia had the highest (69%) amongst the EU countries in 2016.

#### Day of the week and Time of the day

Table 7 shows the distribution of young people fatalities by time of the day in the EU countries. In the EU, most people aged 18-24 years old were killed between 20:00 and midnight (21%). The second highest percentage of young people fatalities occurred between 00:00 and 04:00, as well as between 16:00 and 20:00.



Table 7: Total number and distribution of young people fatalities by country and time of the day, 2016 or latest available year

|    | 00.00- | 04.00- | -00.80 | 12.00- | 16.00- | 20.00- | Total |
|----|--------|--------|--------|--------|--------|--------|-------|
|    | 03.59  | 07.59  | 11.59  | 15.59  | 19.59  | 23.59  |       |
| BE | 36%    | 21%    | 7%     | 5%     | 10%    | 22%    | 87    |
| BG | 11%    | 8%     | 13%    | 19%    | 22%    | 27%    | 97    |
| CZ | 8%     | 17%    | 6%     | 15%    | 32%    | 22%    | 65    |
| DK | 13%    | 16%    | 19%    | 16%    | 13%    | 23%    | 31    |
| DE | 18%    | 16%    | 6%     | 20%    | 22%    | 18%    | 435   |
| EE | 0%     | 40%    | 0%     | 0%     | 20%    | 40%    | 5     |
| IE | 29%    | 18%    | 14%    | 11%    | 14%    | 14%    | 28    |
| EL | 20%    | 31%    | 10%    | 7%     | 10%    | 23%    | 101   |
| ES | 13%    | 29%    | 11%    | 12%    | 18%    | 17%    | 176   |
| FR | 14%    | 21%    | 12%    | 11%    | 21%    | 20%    | 596   |
| HR | 31%    | 17%    | 5%     | 7%     | 19%    | 21%    | 42    |
| IT | 27%    | 24%    | 9%     | 12%    | 13%    | 16%    | 352   |
| CY | 60%    | 0%     | 0%     | 20%    | 20%    | 0%     | 5     |
| LV | 17%    | 17%    | 6%     | 0%     | 28%    | 33%    | 18    |
| LT | 24%    | 7%     | 21%    | 14%    | 17%    | 17%    | 29    |
| LU | 33%    | 33%    | 0%     | 0%     | 0%     | 33%    | 3     |
| HU | 11%    | 11%    | 15%    | 13%    | 26%    | 26%    | 47    |
| MT | 50%    | 50%    | 0%     | 0%     | 0%     | 0%     | 2     |
| NL | 19%    | 31%    | 5%     | 8%     | 17%    | 20%    | 75    |
| AT | 11%    | 27%    | 14%    | 5%     | 30%    | 13%    | 56    |
| PL | 16%    | 14%    | 10%    | 15%    | 21%    | 24%    | 440   |
| PT | 20%    | 19%    | 6%     | 17%    | 19%    | 20%    | 54    |
| RO | 27%    | 10%    | 5%     | 11%    | 19%    | 28%    | 195   |
| SI | 24%    | 10%    | 5%     | 24%    | 14%    | 24%    | 21    |
| SK | 17%    | 24%    | 14%    | 12%    | 19%    | 15%    | 59    |
| FI | 37%    | 15%    | 24%    | 10%    | 10%    | 5%     | 41    |
| SE | 35%    | 19%    | 10%    | 13%    | 10%    | 13%    | 31    |
| UK | 22%    | 11%    | 10%    | 10%    | 18%    | 28%    | 279   |
| EU | 19%    | 18%    | 10%    | 13%    | 19%    | 21%    | 3.370 |
| IS | _      | _      | -      | -      | -      | _      | 0     |
| NO | 15%    | 25%    | 5%     | 15%    | 15%    | 25%    | 20    |
| СН | 15%    | 31%    | 15%    | 8%     | 12%    | 19%    | 26    |

Source: CARE database, data available in May 2018

Table 8 shows that in 2016 in the EU countries, about two fifths of the young people who were killed in road accidents, died during the weekend. The respective percentages are lower between Monday and Thursday.

Most young people fatalities in the EU occurred between 20:00 and 00:00.



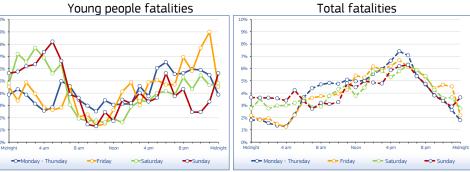
Table 8: Total number and distribution of young people fatalities by country and day of the week, 2016 or latest available year

| anu uay | or the w | eek, 201 | o or lates | i availat | ne year |     |     |       |
|---------|----------|----------|------------|-----------|---------|-----|-----|-------|
|         | Mon      | Tue      | Wed        | Thu       | Fri     | Sat | Sun | Total |
| BE      | 8%       | 6%       | 9%         | 15%       | 14%     | 16% | 32% | 87    |
| BG      | 8%       | 14%      | 12%        | 8%        | 22%     | 12% | 23% | 97    |
| CZ      | 12%      | 14%      | 14%        | 14%       | 11%     | 20% | 15% | 65    |
| DK      | 29%      | 13%      | 3%         | 13%       | 26%     | 6%  | 10% | 31    |
| DE      | 11%      | 11%      | 13%        | 9%        | 19%     | 17% | 21% | 435   |
| EE      | 0%       | 40%      | 0%         | 0%        | 0%      | 40% | 20% | 5     |
| IE      | 14%      | 7%       | 14%        | 14%       | 18%     | 4%  | 29% | 28    |
| EL      | 10%      | 8%       | 7%         | 17%       | 19%     | 12% | 28% | 101   |
| ES      | 13%      | 7%       | 10%        | 10%       | 10%     | 23% | 27% | 176   |
| FR      | 11%      | 9%       | 12%        | 14%       | 17%     | 19% | 19% | 596   |
| HR      | 5%       | 10%      | 0%         | 14%       | 24%     | 29% | 19% | 42    |
| IT      | 11%      | 10%      | 10%        | 8%        | 14%     | 22% | 25% | 352   |
| CY      | 0%       | 0%       | 20%        | 0%        | 40%     | 20% | 20% | 5     |
| LV      | 17%      | 17%      | 17%        | 6%        | 6%      | 22% | 17% | 18    |
| LT      | 3%       | 10%      | 3%         | 17%       | 10%     | 28% | 28% | 29    |
| LU      | 0%       | 33%      | 0%         | 0%        | 0%      | 33% | 33% | 3     |
| HU      | 6%       | 19%      | 4%         | 17%       | 13%     | 26% | 15% | 47    |
| MT      | 0%       | 50%      | 0%         | 0%        | 50%     | 0%  | 0%  | 2     |
| NL      | 4%       | 19%      | 13%        | 8%        | 17%     | 25% | 13% | 75    |
| AT      | 11%      | 14%      | 11%        | 11%       | 14%     | 14% | 25% | 56    |
| PL      | 14%      | 11%      | 12%        | 10%       | 16%     | 18% | 19% | 440   |
| PT      | 11%      | 20%      | 15%        | 6%        | 9%      | 19% | 20% | 54    |
| RO      | 12%      | 10%      | 10%        | 13%       | 17%     | 16% | 22% | 195   |
| SI      | 0%       | 10%      | 0%         | 14%       | 10%     | 38% | 29% | 21    |
| SK      | 8%       | 10%      | 10%        | 14%       | 8%      | 19% | 31% | 59    |
| FI      | 10%      | 10%      | 5%         | 7%        | 10%     | 41% | 17% | 41    |
| SE      | 13%      | 6%       | 3%         | 13%       | 19%     | 26% | 19% | 31    |
| UK      | 11%      | 10%      | 14%        | 16%       | 16%     | 15% | 17% | 279   |
| EU      | 11%      | 11%      | 11%        | 11%       | 16%     | 19% | 21% | 3.370 |
| IS      | -        | -        | -          | -         | -       | -   | -   | 0     |
| NO      | 5%       | 15%      | 10%        | 10%       | 25%     | 20% | 15% | 20    |
| CH      | 23%      | 12%      | 8%         | 19%       | 8%      | 19% | 12% | 26    |

Source: CARE database, data available in May 2018

Figure 8 shows that in 2016 more young people were killed between 19:00 and 05:00 on Fridays and between 00:00 and 06:00 during the weekends, when young people tend to stay out until late.

Figure 8: Distribution of young people and total fatalities by day of the week and time of the day, EU, 2016 or latest available year



Source: CARE database, data available in May 2018

In 2016, in the EU, more than two fifths of young people were killed during the weekends.



#### **Seasonality**

Table 9 shows the distribution of road fatalities amongst young people through the year, using pairs of months, with the totals displayed in Figure 9 on a monthly basis.

Table 9: Total number and distribution of young people fatalities by country and month 2016 or latest available year

| and mor | th, 2016 | or latest a | available y | ear     |         |         |       |
|---------|----------|-------------|-------------|---------|---------|---------|-------|
|         | Jan/Feb  | Mar/Apr     | May/Jun     | Jul/Aug | Sep/Oct | Nov/Dec | Total |
| BE      | 20%      | 20%         | 15%         | 18%     | 20%     | 8%      | 87    |
| BG      | 11%      | 26%         | 19%         | 27%     | 8%      | 9%      | 97    |
| CZ      | 9%       | 15%         | 20%         | 18%     | 23%     | 14%     | 65    |
| DK      | 19%      | 0%          | 16%         | 23%     | 32%     | 10%     | 31    |
| DE      | 13%      | 14%         | 19%         | 21%     | 18%     | 16%     | 435   |
| EE      | 40%      | 0%          | 0%          | 40%     | 0%      | 20%     | 5     |
| IE      | 14%      | 7%          | 21%         | 18%     | 21%     | 18%     | 28    |
| EL      | 19%      | 12%         | 20%         | 25%     | 13%     | 12%     | 101   |
| ES      | 13%      | 23%         | 16%         | 18%     | 17%     | 14%     | 176   |
| FR      | 17%      | 11%         | 16%         | 19%     | 18%     | 19%     | 596   |
| HR      | 21%      | 12%         | 10%         | 14%     | 24%     | 19%     | 42    |
| IT      | 15%      | 14%         | 18%         | 24%     | 16%     | 14%     | 352   |
| CY      | 0%       | 20%         | 0%          | 40%     | 20%     | 20%     | 5     |
| LV      | 11%      | 17%         | 28%         | 17%     | 17%     | 11%     | 18    |
| LT      | 21%      | 10%         | 17%         | 10%     | 24%     | 17%     | 29    |
| LU      | 0%       | 0%          | 67%         | 0%      | 0%      | 33%     | 3     |
| HU      | 15%      | 11%         | 13%         | 26%     | 17%     | 19%     | 47    |
| MT      | 0%       | 0%          | 0%          | 50%     | 0%      | 50%     | 2     |
| NL      | 24%      | 16%         | 5%          | 20%     | 8%      | 27%     | 75    |
| AT      | 5%       | 20%         | 14%         | 32%     | 18%     | 11%     | 56    |
| PL      | 10%      | 16%         | 18%         | 23%     | 21%     | 12%     | 440   |
| PT      | 13%      | 15%         | 17%         | 17%     | 20%     | 19%     | 54    |
| RO      | 15%      | 11%         | 17%         | 23%     | 16%     | 18%     | 195   |
| SI      | 10%      | 14%         | 14%         | 33%     | 5%      | 24%     | 21    |
| SK      | 14%      | 12%         | 14%         | 20%     | 22%     | 19%     | 59    |
| FI      | 24%      | 15%         | 12%         | 15%     | 24%     | 10%     | 41    |
| SE      | 16%      | 3%          | 19%         | 23%     | 16%     | 23%     | 31    |
| UK      | 15%      | 16%         | 18%         | 15%     | 18%     | 18%     | 279   |
| EU      | 14%      | 14%         | 17%         | 21%     | 18%     | 16%     | 3.370 |
| IS      | -        | -           | -           | -       | -       | -       | 0     |
| NO      | 15%      | 10%         | 15%         | 35%     | 20%     | 5%      | 20    |
| CH      | 19%      | 12%         | 4%          | 19%     | 23%     | 23%     | 26    |

Source: CARE database, data available in May 2018

The peak period for most of the countries was in July/August, while in the Czech Republic, Denmark and Lithuania, the peak was in September/October. Fewest fatalities occurred in January/February and March/April.

In the EU, the peak period for fatalities in 2016 was July/August (21%).



In the EU, the proportion of fatalities of 18-24 year olds was relatively high in February, April and August, and relatively low in March, September and December.

Figure 9: Distribution of young people and total fatalities by month, EU, 2016 or latest available year



Source: CARE database, data available in May 2018

Fatalities amongst young people vary seasonally, with higher percentages in summer and lower percentages in winter.

Figure 9 shows that the trend of young people fatalities in 2016 has a clear peak in August (11%), while the fewest fatalities occurred in March (6%). As far as total road fatalities are concerned, the highest percentages were recorded between July and August (about 10%).



#### **Accident Causation**

During the EC SafetyNet project, in-depth data were collected using a common methodology for samples of accidents that occurred in Germany, Italy, the Netherlands, Finland, Sweden and the UK. The SafetyNet Accident Causation Database was formed between 2005 and 2008, and contains details of 1.006 accidents covering all injury severities. A detailed process for recording causation (SafetyNet Accident Causation System – SNACS) attributes one specific critical event to each driver, rider or pedestrian. Links then form chains between the critical event and the causes that led to it. For example, the critical event of late action could be linked to the cause observation missed, which was a consequence of fatigue, itself a consequence of an extensive driving spell.

In the database, 25% (249) of the accidents involve a driver or rider between 18 and 24 years old. Males account for 75% of this group and 79% are drivers of passenger cars. Figure 10 compares the distribution of specific critical events for drivers and riders of young age against the distribution for 35 to 64 year olds.

Surplus speed Incorrect direction (includes leaving road) Specific Critical Event Late action Premature action (initiated too early) Surplus force (excess acceleration or braking) Shortened distance ■18 to 24 yrs old n=264 (road user(s)/environment too close) Prolonged action/movement ■35 to 64 yrs old n=761 (continued on too long) Prolonged distance (action/movement taken too far). Skipped action Other 10% 15% 20% 25% 30% Proportion of drivers/riders

Figure 10: Distribution of specific critical events - 18 to 24 and 35 to 64 years old drivers/riders

Source: SafetyNet Accident Causation Database 2005 to 2008

The clearest difference between the two age groups relates to the specific critical event of surplus speed, attributed to just over one quarter of the young age group but only 10% of the older group. Surplus speed describes speed that is too high for the conditions or manoeuvre being carried out, travelling above the speed limit and also if the driver is travelling at a speed unexpected by other road users. Incorrect direction is also recorded more frequently for the younger age group. This refers to a manoeuvre being carried out in the wrong direction (for example, turning left instead of right) or leaving the road (not following the intended direction of the road). 'Loss of control' type accidents can fall into either critical event depending on the specific situation.



The specific critical events under the general category of 'timing', no action, premature action and late action, are the next three most frequently recorded events but each is recorded more frequently for the older group, especially no action. No action describes those drivers/riders who have not reacted at all (or at least in an effective time frame) to avoid a collision, for example, to avoid an oncoming vehicle. A premature action is one undertaken before a signal has been given or the required conditions are established, for example entering a junction before it is clear of other traffic.

Table 10 gives the most frequent links between causes for young drivers/riders. For this group there are 371 such links in total.

Table 10: Ten most frequent links between causes - young drivers/riders

| Links between causes  | Frequency |
|---|-----------|
| Inadequate plan - Insufficient knowledge                                      | 55        |
| Faulty diagnosis - Information failure (driver/environment or driver/vehicle) | 38        |
| Observation missed - Distraction  | 25        |
| Observation missed - Faulty diagnosis   | 21        |
| Inadequate plan - Under the influence of substances                           | 18        |
| Observation missed - Temporary obstruction to view                            | 17        |
| Observation missed - Inadequate plan  | 15        |
| Inadequate plan - Psychological stress  | 13        |
| Observation missed - Permanent obstruction to view                            | 12        |
| Faulty diagnosis - Communication failure                                      | 12        |
| Others  | 145       |
| Total   | 371       |

Source: SafetyNet Accident Causation Database 2005 to 2008

Inadequate plan is the most frequently recorded cause and describes a lack of all the required details or that the driver's/rider's ideas do not correspond to reality. The causes leading to inadequate plan are a lack of knowledge and impairment from substances and psychological stress.

Faulty diagnosis and observation missed then follow. Faulty diagnosis is an incorrect or incomplete understanding of road conditions or another road user's actions. It is linked to both information failure (for example, a driver/rider thinking another vehicle was moving when it was in fact stopped and colliding with it) and communication failure (for example, pulling out in the continuing path of a driver who has indicated for a turn too early). The causes leading to observation missed can be seen to fall into two groups, human factors (for example, not observing a red light due to distraction) and physical 'obstruction to view' type causes (for example, parked cars at a junction).

15% of the links between causes are observed to be between 'inadequate plan' and 'insufficient knowledge'.



By 2012, thirteen Member
States routinely collected data in
a sample of hospitals and
contributed them to the EU
injury Database.

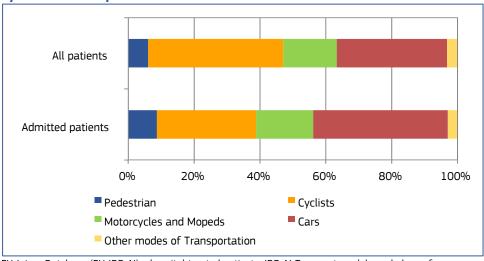
According to estimates based on the EU IDB more than four million people are injured annually in road accidents, one million of whom have to be admitted to hospital.

#### Road accident health indicators

Injury data can be obtained from a wide range of sources, such as police and ambulance reports, national insurance schemes, and hospital records, each of which provides a specific but yet incomplete picture of the injuries suffered in road accidents. In order to obtain a comprehensive view of these injuries, the EU Council issued a recommendation that urges Member States to use synergies between existing data sources and to develop national injury surveillance systems rooted in the health sector. At present, thirteen Member States are routinely collecting injury data in a sample of hospitals and delivering these data to the Commission. This system is called the EU Injury Database (EU IDB).

Within the EU IDB "transport module" injuries suffered in road accidents are recorded by "mode of transport", "role of injured person" and "counterpart". These variables can complement information from police records, in particular for injury patterns and the improved assessment of injury severity. The indicators used include the percentage of casualties attending hospital who are admitted to hospital, the mean length of stay of hospital admissions, the nature and type of body part injured, and potentially also long term consequences of injuries.

Figure 11: Distribution of non-fatal road accident casualties attending hospital by mode of transport



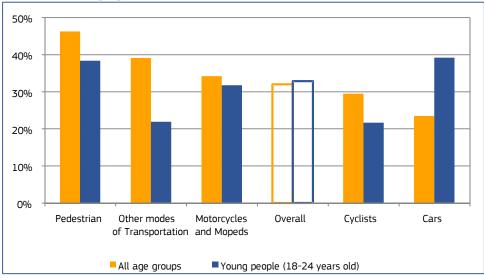
EU Injury Database (EU IDB AI) - hospital treated patients. IDB AI Transport module and place of occurrence (code 6.n [public road]); n-all = 73.600: n-admitted = 23.568 (DE, DK, LV, MT, AT, NL, SE, SI, CY, years 2005-2008)

Figure 11 is based on IDB data from nine countries for accidents that occurred between 2005 and 2008. Vulnerable road users (pedestrians, cyclists, motorcycles and mopeds) accounted for almost two thirds (63%) of road accident casualties attending hospital, and for over half of casualties admitted to the hospital (56%).



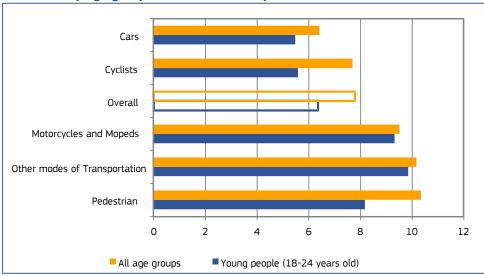
Overall, 32% of road accident casualties recorded in the IDB were admitted to the hospital, whilst more than 32% for young people (Figure 12); with an average length of stay of eight days, about six days for young people (Figure 13).

Figure 12: Percentage of non-fatal road accident casualties who were admitted to hospital by age group and mode of transport



EU Injury Database (EU IDB AI) - hospital treated patients. IDB AI Transport module and place of occurrence (code 6.n [public road]); n-all = 73.600, n-young people =13.190, n- youngsters admitted = 4.336 (DE, DK, LV, MT, AT, NL, SE, SI, CY, years 2005-2008).

Figure 13: Average length of stay (hospital bed days) of non-fatal road accident casualties by age group and mode of transport

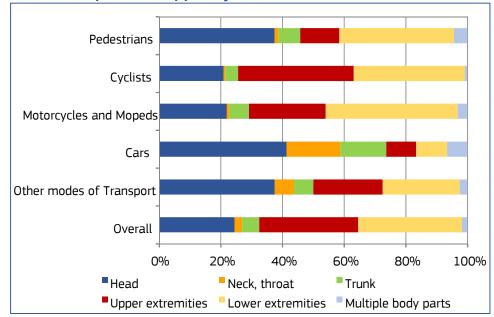


EU Injury Database (EU IDB AI) - hospital treated patients. IDB AI Transport module and place of occurrence (code 6.n [public road]); n-all = 73.600, n-young people =13.190, n- youngsters admitted = 4.336 (DE, DK, LV, MT, AT, NL, SE, SI, CY, years 2005-2008).

More than 32% of injured young people who attended a hospital were admitted to the hospital; their average stay in hospital was six days.



Figure 14: Distribution of non-fatal road accident young people casualties by mode of transport and body part injured



EU Injury Database (EU IDB AI) - hospital treated patients. IDB AI Transport module and place of occurrence (code 6.n [public road]); n-all = 73.600, n-young people =13.190, n- youngsters admitted = 4.336 (DE, DK, LV, MT, AT, NL, SE, SI, CY, years 2005-2008).

Naturally, hospital data can provide information on the injury patterns sustained by the accident victims. Figure 14 illustrates the distribution of body parts injured in young people's casualties by mode of transports.

Table 11 shows the types of injuries most frequently recorded in the EU IDB. It compares the distribution of injuries among young people and road users of all ages.

Table 11: Ten most frequently recorded types of injury by age group

| Young people<br>(18-24 years) | All age groups                                     |
|-------------------------------|--|
| 38%                           | 34%  |
| 18%                           | 27%  |
| 10%                           | 10%  |
| 10%                           | 8%   |
| 9%                            | 7%   |
| 2%                            | 2%   |
| 1%                            | 2%   |
| 2%                            | 2%   |
| 1%                            | 1%   |
| 1%                            | 1%   |
| 8%                            | 6%   |
| 100%                          | 100%   |
|                               | (18-24 years) 38% 18% 10% 10% 9% 2% 1% 2% 1% 1% 8% |

EU Injury Database (EU IDB AI) - hospital treated patients. IDB AI Transport module and place of occurrence (code 6.n [public road]); n-all = 73.600, n-young people =13.190, n- youngsters admitted = 4.336 (DE, DK, LV, MT, AT, NL, SE, SI, CY, years 2005-2008).

Contusions and bruises account for almost 40% of all traffic injuries suffered by young people attending hospital.



#### **Notes**

#### 1. Country abbreviations



- 2. Sources: CARE (Community database on road accidents)
  The full glossary of definitions of variables used in this Report is available at: <a href="http://ec.europa.eu/transport/road">http://ec.europa.eu/transport/road</a> <a href="mailto:safety/pdf/statistics/cadas">safety/pdf/statistics/cadas</a> <a href="mailto:glossary.pdf">glossary.pdf</a>
- 3. Data available in May 2018.
- 4. Data refer to 2016 and when not available the latest available data are used (2010 data for SK, 2014 data for IE and 2015 data for BG, EE and LT). Totals and related average percentages for EU also include latest available data.
- 5. Data for Lithuania and Slovakia are not included in the totals of data comparing the years 2007-2016.
- 6. At the commenting of the tables and figures, countries with small figures are omitted.
- 7. This 2018 edition of Traffic Safety Basic Facts updates the previous versions produced within the EU co-funded research projects SafetyNet and DaCoTA.

#### 8. Disclaimer

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9. Please refer to this Report as follows:

European Commission, Traffic Safety Basic Facts on Young People, European Commission, Directorate General for Transport, June 2018.



