



Road Safety Country Overview





Structure and Culture

Basic Data

Table 1: Basic data of Norway in relation to the EU average

| Basic data of Norway | EU average |
|--|---|
| Population: 5,17million inhabitants (2015)[2] Area: 323.782 km² (2015) [2] (Water 6,02%) (2015)[4] | 18,1 million (2015) 159.663 km² (2015) 2,94% water (2015) |
| Climate and weather conditions (capital city; 2015)[3]: | (2015) |
| Average winter temperature (Nov. to April):2,7°C | 6,5°C |
| Average summer temperature (May to Oct.): 12,7°C | 17,8°C |
| - Annual precipitation level: 763 mm | 651 mm |
| - Exposure: 44 billion vehicle km (2014)[5] | 122,4 billion vehicle km $(2014)^1$ |
| - 0,75 vehicles per person (2014)[1] | 0,62 (2014) |

Sources: [1] IRTAD; [2] EUROSTAT; [3] national sources; [4] CIA [5] OECD

Norway has a very low population density.

Country characteristics

Table 2: Characteristics of Norway in comparison to the EU average

| Characteristics of Norway | EU average | | | |
|--|--|--|--|--|
| - Population density: 16 inhabitants/km² (2015) [2] | 114 inhabitants/km ² (2015) | | | |
| - Population composition (2015) [2]: | 45.60/ 1:11 | | | |
| 18,0% children (0-14 years) | 15,6% children | | | |
| 65,8% adults (15-64 years) | 65,5% adults | | | |
| 16,2% elderly (65 years and over) | 18,9% elderly (2015) | | | |
| - Gross Domestic Product (GDP) per capita: €67.800 (2015) [2] | €26.300 (2015) | | | |
| - 80,5% of population lives inside urban area (2015) | 73,5% (2015) | | | |
| - Special characteristics [4]: glaciated; mostly | | | | |
| high plateaus and rugged mountains broken by | | | | |
| fertile valleys; small, scattered plains; coastline | | | | |
| deeply indented by fjords; arctic tundra in north | | | | |
| ources: [1] IRTAD; [2] EUROSTAT; [3] national sources; [4] CIA | | | | |

¹ Based on the average of 24 EU countries.



Structure of road safety management

The National Plan of Action for Road Traffic safety is published every fourth year, and is based on Vision Zero as a fundamental principle for the efforts to improve road safety.

The Norwegian Public Roads Administration, the National Police Directorate, the Norwegian Directorate of Health, the Norwegian Directorate for Education and Training and the Norwegian Council for Road Safety is responsible for the National Plan of Action for Road Traffic Safety 2014-2017.

The following key actors are responsible for Road Safety (RS) policy making:

Table 3: Key actors per function in Norway

| Kan Smelina | | | | |
|--|--|--|--|--|
| Key functions | Key actors | | | |
| 1.Formulation of national RS strategySetting targetsDevelopment of the RS programme | Ministry of Transport and Communications Norwegian National Public Road Administration NHO Transport Norwegian Haulier's Association Norwegian Transport Workers' Union Union of Norwegian Transport Employees Norwegian Association of Local and Regional Authorities | | | |
| Monitoring of the RS development in the country | Ministry of Transport and Communications Norwegian National Public Road Administration Norwegian Association of Local and Regional Authorities | | | |
| 3. Improvements in road infrastructure | - Norwegian National Public Road Administration - Accident Investigation Board Norway (AIBN) | | | |
| 4. Vehicle improvement | Norwegian National Public Road AdministrationPolice Department | | | |
| 5. Improvement in road user education | The Norwegian Council for Road SafetyNorwegian Directorate of Education and Training | | | |
| 6. Publicity campaigns | - Norwegian National Public Road Administration | | | |
| 7. Enforcement of road traffic laws | Norwegian National Public Road AdministrationPolice DepartmentCounty Governor | | | |
| 8. Other relevant actors | Norwegian Directorate of Health Norwegian Driving School Association Finance Norway (FNO) Royal Norwegian Automobile Club (KNA) Norwegian Abstaining Motorists Association (MA) No to Head-on collisions (NtFk) Norwegian Automobile Federation (NAF) Norwegian Cycling Federation (NCF) Football Association of Norway (NFF) Norwegian Haulier's Association (NLF) Norwegian Taxi Association (NT) Norwegian Motorcycle Union (NMCU) The Norwegian Transport Workers' Union (NTF) Norwegian Association of People with Injuries (LTN) Norwegian Safety Forum (Skafor) | | | |

Norway's National Plan of action is based on Vision Zero.



- Norwegian Air Ambulance Foundations (SNLA)
- Norwegian Cyclists' Association (SLF)
- The Union of Norwegian Transport Employees (YTF)

Sources: national sources

Attitudes towards risk taking

As Norway is not part of the ESRA survey, there is no information on attitudes that is comparable to other European countries.



Norway has adopted vision zero on killed and seriously injured road accident victims.

Programmes and measures

Road safety strategy of the country

- Norway has adopted Vision Zero, based on the experiences of Sweden. This means that there will be a strong focus on measures that can reduce the most serious crashes (fatal and serious injuries).

National strategic plans and targets

- The Road Traffic Safety Plan 2014-2017 was released in 2014.
- Targets:

Table 5: Road safety targets for Norway

| Year | Fatalities and Serious injuries |
|------|---------------------------------|
| 2024 | Max. 500 |
| 2018 | Max. 680 |

Source: IRTAD, 2016

- Priority topics:
 - the reduction of head-on crashes, single-vehicle accidents and collisions with vulnerable road users (cyclists and pedestrians)
 - young drivers
 - elderly road users
 - motorcyclists

(Sources: IRTAD, 2015; IRTAD, 2014)

Road infrastructure

Table 6: Description of the road categories and their characteristics in Norway

| Not way | | | |
|-------------|--|--|--|
| Road type | General speed limits for passenger cars (km/h) | | |
| Urban roads | 50 | | |
| Rural roads | 80 | | |
| Motorways | 90/100/110 | | |

Source: IRTAD, 2016

- Special rules for:
 - Residential streets often limited at 30 km/h
- Guidelines and strategic plans for infrastructure are available in Norway.

(Source: IRTAD, 2016)



Norway did various activities for road infrastructure improvement, including safe roadsides and building safe crossings.

Norway has a 0,2% drinkdriving limit, which is lower than in most other countries.

Table 7: Obligatory parts of infrastructure management in Norway and other EU countries

| Obligatory parts in Norway: | EU countries with obligation |
|-------------------------------|------------------------------|
| Safety impact assessment: yes | 32% |
| Road safety audits: yes | 81% |
| Road safety inspections: yes | 89% |
| High risk site treatment: yes | 74% |

Sources: DG-TREN, 2010; national sources

- Recent activities of road infrastructure improvement have been addressing:
 - Revised criteria were developed for securing areas surrounding roadwork.
 - More fortified rumble strips were used.
 - Existing roads were maintained and upgraded.
 - More median safety barriers were made for freeways and roads.

(Source: IRTAD, 2015)

Traffic laws and regulations

Table 8: Description of the regulations in Norway in relation to the most common regulations in other EU countries

| | common regulations in other to countries | | | | | |
|--|---|---|--|--|--|--|
| | Regulations in Norway [1] | Most common in EU (% of countries) | | | | |
| | Allowed BAC ² levels: | | | | | |
| | General population: 0,2‰Novice drivers: 0,2‰Professional drivers: 0,2‰ | 0,5% (61%) 0,2% (39%) and 0,0% (36%) 0,2% (36%) and 0,0% (36%) | | | | |
| | Phoning: | | | | | |
| | - Hand held: not allowed - Hands free: allowed | Not allowed (all countries) Allowed (all countries) | | | | |
| | Use of restraint systems: | | | | | |
| | Driver: obligatoryFront passenger: obligatoryRear passengers: obligatoryChildren: obligatory | Obligatory (all countries) Obligatory (all countries) Obligatory (all countries) Obligatory (all countries) | | | | |
| | Helmet wearing: | | | | | |
| | Motor riders: obligatoryMoped riders: obligatoryCyclists: not obligatory | Obligatory (all countries) Obligatory (all countries) Not obligatory (46%) | | | | |
| | Daytime running lights are mandatory.A demerit point system is in place. [2] | | | | | |

Sources: [1] EC DG-Move, 2016; [2] WHO, 2013

² Blood Alcohol Concentration



Enforcement effectiveness for helmet wearing in Norway is assessed as better than the EU average; child restraint and drink-driving law enforcement are somewhat lower.

Driving licences thresholds for most motorised vehicles are somewhat lower in Norway than the most common thresholds in the EU.

Enforcement

Table 9: Effectiveness of enforcement effort in Norway according to an international respondent consensus (scale = 0-10)

| Issue | Score for Norway | Most common in EU (% of countries) |
|--|---------------------|------------------------------------|
| Speed legislation enforcement | 8 | 7 (43%) |
| Seat-belt law enforcement | 8 | 7 (25%) and 8 (25%) |
| Child restraint law enforcement | 6 | 8 (39%) |
| Helmet legislation enforcement | 10 | 9 (50%) |
| Drink-driving law enforcement Source: WHO, 2015 | 7 | 8 (43%) |

Road User Education and Training

Table 10: Road user education and training in Norway compared to the situation in other EU countries

| Situation in other to countries | | | | | |
|---|--|--|--|--|--|
| Education and training in Norway | Most common in EU (% of countries) | | | | |
| General education programmes: | | | | | |
| Primary school: compulsorySecondary school: compulsoryOther groups: no information. | Compulsory (71%) Compulsory (43%) - | | | | |
| Driving licences thresholds: | | | | | |
| Passenger car: 18 yearsMotorised two wheeler: 16-18 years | 18 years (79%) 18 years (low categories) and higher ages (32%) | | | | |
| Buses and coaches: 21 years (without vocational training) | 21 years (86%) | | | | |
| Lorries and trucks: 18 years (with limited driving hours); 21 years (without vocational training) | 21 years (75%) | | | | |

Sources: [1] ROSE25, 2005; [2] ETSC, 2011; [3] national sources

Public Campaigns

Table 11: Public campaigns in Norway compared to the situation in other EU countries

| Campaigns in Norway | Most common issues in EU (% of countries) |
|---|--|
| Organisation: | |
| - Norwegian Public Road Administration | |
| Main themes: | |
| Seat beltsSpeedingCar-cyclist communication | Drink-driving (96%) Speeding (86%) Seat-belt (79%) |

Sources: [1] SUPREME, 2005; [2] ETSC, 2011; [3] national sources



Mandatory inspection periods for cars in Norway are similar to most common periods in the EU.

Vehicles and technology (national developments)

Table 12: Developments of vehicles and technology in Norway, compared to the situation in other EU countries

| Mandatory technical inspections: | Most common in EU (% of countries) | | | |
|---|------------------------------------|--|--|--|
| Passenger cars: first inspection after 4 years, then every 12 months Taxis: first inspection after 2 years, then every 12 months | Every 12 months (39%) | | | |
| Motorcycles: not compulsory | Every 24 months (32%) | | | |
| Buses or coaches: every 12 months | Every 12 months (61%) | | | |
| Lorries or trucks: every 12 months | Every 12 months (68%) | | | |

Sources: EC website, national sources



About half of the road users on motorways exceed the speed limit.

Road Safety Country Overview - NORWAY

Road Safety Performance Indicators

Speed

Table 13: Number of speed tickets per population in Norway versus the EU average

| average | | | | | |
|--|------|------|-----------------------------|----------------------|--|
| Measure | 2006 | 2011 | Average annual change | EU average (2011) | |
| Number of speed tickets/1.000 population | 52 | 41 | -4,6% | 108 | |
| Sources: [1] ETSC, 2010; [2] ETSC, 2016 | | | | | |

Table 14: Percentage of speed offenders per road type in Norway compared to the EU average

| Road type | 2004 | 2006 | Average annual change | EU average |
|-------------|------|------|-----------------------------|---------------|
| Motorways | 55% | 51% | -3,7% | n/a |
| Rural roads | 46% | 45% | -1,1% | n/a |
| Urban roads | n/a | n/a | - | n/a |

Sources: [1] ETSC, 2010; [2] ETSC, 2015 *Data are not available for all years.

Table 15: Mean speed per road type in Norway compared to the EU average

| Road type | 2004 | 2011 | Average annual change | EU average |
|-------------|-----------|------------|-----------------------------|---------------|
| Motorways | 100 km/h | 99 km/h | -0,1% | n/a |
| Rural roads | 78,3 km/h | 78,5 m/h* | 0,1% | n/a |
| Urban roads | 50,3 km/h | 52,1 km/h* | 0,7% | n/a |

Sources: [1] ETSC, 2010; [2] ETSC, 2015

*Data from 2009

Alcohol

Table 16: Road side surveys for drink-driving in Norway compared to the EU average

| Measure | 2007 | 2010 | Average annual change | EU average (2010) |
|----------------------------------|------|------|-----------------------------|----------------------|
| Amount of tests/1.000 population | 382 | 367 | -1,3% | 154 |
| % tested over the limit | 0,2% | 0,2% | 0% | 2,8% |

Sources: [1] ETSC, 2010; [2] ETSC, 2016

The amount of alcohol tests per population is much higher than the EU average.



The car fleet of Norway is one of the safest in the EU.

Seat-belt and helmet wearing rates are very high in Norway.

Vehicles

Table 17: State of the vehicle fleet in Norway compared to the EU average

| Table 17. State of the vehicle freet in Nor | way compared to the Lo average |
|---|--------------------------------|
| Vehicles | EU average |
| Cars per age group (2012) [1]: | Passenger cars (2012) |
| - ≤2 years: 12% | ≤2 years: 9% |
| - 3 to 5 years: 16% | 3 to 5 years: 13% |
| - 6 to 10 years: 27% | 6 to 10 years: 28% |
| - >10 years: 45% | >10 years: 49% |
| EuroNCAP occupant protection score of cars | |
| (new cars sold in 2013) [2]: | |
| - 5 stars: 65,8% | 5 stars: 52,5% |
| - 4 stars: 3,4% | 4 stars: 4,5% |
| - 3 stars: 1,2% | 3 stars: 2,9% |
| - 2 stars: 0,1% | 2 stars 0,5% |
| - not tested: 29,5% | not tested: 39,6% ³ |
| Source: [1] EUROSTAT, 2015; [2] ETSC, 2016 | |

Protective systems

Table 18: Protective system use in Norway versus the average in EU

| Protective systems | EU average ⁴ |
|--|--|
| Daytime seat-belt wearing in cars and vans (2015): | (2015) |
| 95% front no information on % driver no information on % front passenger 87-88% rear (estimation 2013) 49% child restraint use | 89,7% front not available not available 69,5% rear not available |
| Helmet use (2015): - Almost 100% motorised two-wheeler riders - 56,2% cyclists over the age of 12 | not available |

Source: IRTAD, 2016

³ Based on data of 25 EU countries (excl. HR, LU and MT).

 $^{^4}$ Based on data of 15 EU countries; data of AT, BE, IE, IT, LU, HU, FI, SE (2015); data of CZ, DE, DK, HR, LT, PL, UK (2014); data of PT (2013)



Road Safety Outcomes

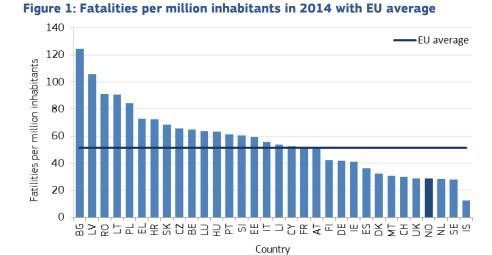
General positioning

The fatality rate of Norway is one of the lowest in the EU (around 29 fatalities per million population in 2014). Its development was similar to the EU average in the period 2001-2014.

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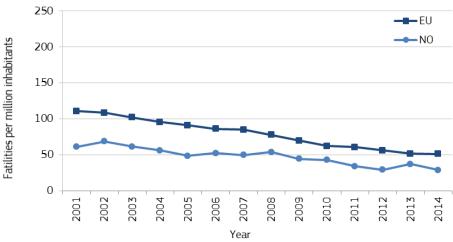
the EU average in the period

2001-2014.



Sources: CARE, Eurostat

Figure 2: Development of fatalities per million inhabitants between 2001 and 2014 for Norway and the EU average



Sources: CARE, Eurostat



The share of car occupant fatalities is a bit higher than the EU average.

Transport mode

The share of car occupant fatalities is a bit higher than the EU average. While the average annual reduction of motorcyclist fatalities between 2001 and 2014 was only 3%, it was 6% for car occupants. In the same period, the annual reduction rate of pedestrian fatalities was 7%. The number of cyclist fatalities doubled between 2001 and 2014.

Table 19: Reported fatalities by mode of road transport in Norway compared to the EU average

| Transport mode | 2001 | 2014 | Average annual change | Share in 2014 | EU average (2014) |
|----------------------------|------|------|-----------------------------|---------------|-------------------------|
| Pedestrians | 45 | 18 | -7% | 12% | 22% |
| Car occupants | 167 | 72 | -6% | 49% | 45% |
| Motorcyclists | 28 | 20 | -3% | 14% | 15% |
| Mopeds | 5 | 2 | -7% | 1% | 3% |
| Cyclists | 6 | 12 | 5% | 8% | 8% |
| Bus/coach occupants | 3 | 7 | 7% | 5% | 1% |
| Lorries or truck occupants | 18 | 8 | -6% | 5% | 5% |

Sources: CARE, national sources

Age, gender and nationality

Table 20: Reported fatalities by age, gender and nationality in Norway versus the EU average

| versus the Lo aver | uge | | | | |
|--------------------|-------------|----------|-----------------------------|------------------|-------------------------|
| Age and gender | 2004 | 2015 | Average annual change | Share in 2015 | EU average (2015) |
| Females | | | | | |
| 0 - 14 years | 4 | 0 | -100% | 0% | 2% |
| 15 - 17 years | 6 | 2 | -8% | 2% | 1% |
| 18 – 24 years | 9 | 9 | 0% | 8% | 2% |
| 25 - 49 years | 22 | 4 | -12% | 3% | 7% |
| 50 - 64 years | 9 | 9 | 0% | 8% | 4% |
| 65+ years | 19 | 6 | -8% | 5% | 8% |
| Males | | | | | |
| 0 - 14 years | 6 | 2 | -8% | 2% | 2% |
| 15 - 17 years | 16 | 0 | -100% | 0% | 1% |
| 18 – 24 years | 43 | 22 | -5% | 19% | 10% |
| 25 – 49 years | 65 | 32 | -5% | 27% | 28% |
| 50 - 64 years | 23 | 13 | -4% | 11% | 16% |
| 65+ years | 35 | 18 | -5% | 15% | 14% |
| Nationality of dri | ver or ride | r killed | | | |
| National | n/a | n/a | - | - | - |
| Non-national | n/a | n/a | - | - | - |

Sources: CARE, national sources

The share of road fatalities by gender in Norway is similar to the EU average.



Location

Fatalities in rural areas are over-represented in Norway compared to the EU average.

Table 21: Reported fatalities by location in Norway compared to the EU average

| Location | 2001 | 2014 | Average annual change | Share in 2014 | EU average (2014) |
|----------------|------|------|-----------------------------|------------------|-------------------------|
| Built-up areas | 0 | 22 | - | 19% | 37% |
| Rural areas | 0 | 95 | - | 81% | 53% |
| Motorways | n/a | n/a | - | - | 7% |
| Junctions | n/a | n/a | - | - | 20% |

Sources: CARE, national sources

Fatalities in rural areas are over-represented in Norway.

Lighting and weather conditions

Table 22: Reported fatalities by lighting and weather conditions in Norway

compared to the EU average

| Conditions | 2001 | 2014 | Average annual change | Share in 2014 | EU average (2014) |
|-----------------------------|------|------|-----------------------------|------------------|-------------------------|
| Lightning conditions | | | | | |
| During daylight | 154 | 63 | -6% | 54% | 50% |
| During night-time | 98 | 34 | -7% | 29% | 30% |
| Weather conditions | | | | | |
| While raining | 22 | 13 | -4% | 11% | 10% |

Sources CARE, national sources

Single vehicle accidents

Table 23: Reported fatalities by type in Norway compared to the EU average

| Accident Type | 2001 | 2015 | Average annual change | Share in 2015 | EU average (2015) | |
|-----------------------------|------|------|-----------------------------|------------------|-------------------------|--|
| Single vehicle accidents | 101 | 49 | -5% | 42% | 24% | |

Sources: CARE, national sources

Under-reporting of casualties

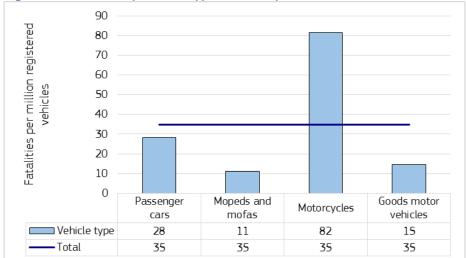
- Fatalities: 100%, due to improvements of the data recording systems.
- Hospitalised: no studies with quantitative information exist.

The share of fatal single vehicle accidents in Norway is substantially higher than the EU average.



Risk Figures

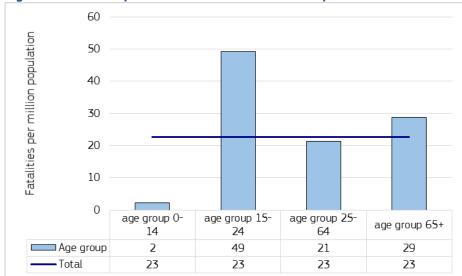
Figure 3: Fatalities by vehicle type in Norway in 2014



Sources CARE, IRTAD

In Norway, motorcyclists, youngsters and elderly people have a higher risk of getting involved in a fatal crash compared to the other groups.

Figure 4: Fatalities per million inhabitants in Norway in 2015



Sources: CARE, EUROSTAT



Source: Bickel et al., 2006; national sources

Social Cost

- The total cost of road accident casualties (fatalities and injuries) is estimated at 48,5 billion euros (2014).

Estimated costs of road crashes are a lot higher in Norway than on average in Europe.

Table 24: Cost (in million €) per injury type in Norway versus the EU average

| rable 24. Cost (iii iiiittioii e) per i | injury type in Norway | versus the Lo average |
|---|-------------------------------------|-------------------------------|
| Injury type | Value | European average ⁵ |
| Fatal | 3,80 | 1,28 |
| Hospitalised | Very serious: 2,90 Serious: 1,02 | 0,18 |
| Slightly injured | 0,08 | 0,02 |

 $^{^{\}rm 5}$ Based on data of 20 countries (excl. BG, DE, FI, FR, HU, IS, LT, NO, RO and SK)



Synthesis

Safety position

- At less than 30 fatalities per million population, the fatality rate of Norway is lower than the EU average.

Scope of problem

- Norway has a relative large share of fatalities among car occupants, which is slightly higher than the EU average.
- The shares of killed people aged 18-24 years old are higher than the EU average.
- Fatalities during daylight are over-represented in Norway.
- About half of the road users on motorways exceed the speed limit.

Recent progress

- Every year between 2001-2014, fatality rate was lower than the EU average. Its development was similar to the EU average during this period.
- The number of speed tickets per population decreased between 2006 and 2011

Remarkable road safety policy issues

- Norway has adopted vision zero on killed and seriously injured road accident victims.
- Norway has a 0,2% drink-driving limit, which is lower than that of most EU countries.
- Seat-belt and helmet wearing rates are very high in Norway.
- The amount of alcohol tests per population is much higher than the EU average.

Norway has a stricter drinkdriving related law and the amount of alcohol tests per population is much higher than the EU average.

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Notes

1. Country abbreviations



2. Sources: CARE (Community database on road accidents), EUROSTAT, ITF-IRTAD, National sources.

The full glossary of definitions of variables used in this Report is available at: http://ec.europa.eu/transport/road/safety/pdf/statistics/cadas/glossary.pdf

- 3. Data available in September 2016.
- 4. Average annual change is calculated with the power function between the first and last years:

[aac = $(b/a)^{1/n}$ -1, where aac: annual average change, a: first year value, b: last year value, n: number of years].

5. Explanation of symbols in Tables:

n/a: not available

- "-": not applicable (e.g. calculation cannot be performed)
- 6. This 2016 edition of Road Safety Country Overviews updates the previous version produced in 2012 within the EU co-funded research project <u>DaCoTA</u>.

7. Disclaimer

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8. Please refer to this Report as follows:

European Commission, Road Safety Country Overview - Norway, European Commission, Directorate General for Transport, September 2016.



