

European Road Safety Observatory

National Road Safety Profile - Switzerland



This document is part of a series of 30 country profiles: one for each member of the EU 27 and three EFTA countries (Iceland, Norway and Switzerland). The purpose of this series is to provide tables and figures that give an overview of the road safety situation in a specific country. The tables and figures are organized according to a pyramid of road safety information: (1) road safety outcomes, (2) road safety performance indicators, (3) road safety programmes and measures, and (4) structure and culture.

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1 Highlights

Road safety outcomes

- In 2019 a total of 187 people were killed in reported traffic accidents in Switzerland.
- Switzerland performs better than all EU countries in terms of the number of fatalities per million inhabitants. Over the past twenty years this number has decreased more significantly in Switzerland than the EU average.
- Compared to the EU average, the distribution of fatalities in Switzerland shows a relatively high proportion of cyclist fatalities and fatalities aged 65 and older.
- Over the past ten years the total number of fatalities decreased more significantly than the EU average. The number of fatalities aged 65 and older decreased in Switzerland while their number remained stable in the European Union.

Road safety performance indicators

- Self-reported speeding and drink-driving in Switzerland are higher than the European average.
- Self-reported talking on a handheld phone while driving is lower than in most European countries.
- Swiss road infrastructure is characterized by high road density. Its quality is perceived as the highest compared to other countries.
- Swiss passenger cars are slightly younger than the EU average.

Road safety policy and measures

- Enforcement of drink-driving is less widely perceived as effective in comparison to EU countries.
- Self-reported alcohol and drugs checks are lower than in most countries.

2 Road Safety Outcomes

2.1 General risk in traffic

In Switzerland, a total of 187 people were killed in reported traffic accidents in 2019. In terms of mortality rate, there were 22 road fatalities per million inhabitants, which is lower than the mortality rate of almost all EU countries. Since 2001, the mortality rate in Switzerland has declined more significantly than the EU average.

Over the past ten years, the number of fatalities in Switzerland has decreased by 43%, which is more than the decrease in the European Union. Over the same period the number of serious injuries dropped by 18%.

Table 1. Number of road fatalities and serious injuries (2010 and 2019). Source: CARE

Victims	2010	2019	Trend	EU 2010	EU 2019	EU trend
Fatalities	328	187	-43%	29611	22700	-23%
Serious injuries	4,458	3,639	-18%	/	/	/

Figure 1. Number of road fatalities per million inhabitants (2019). Source: CARE & EUROSTAT

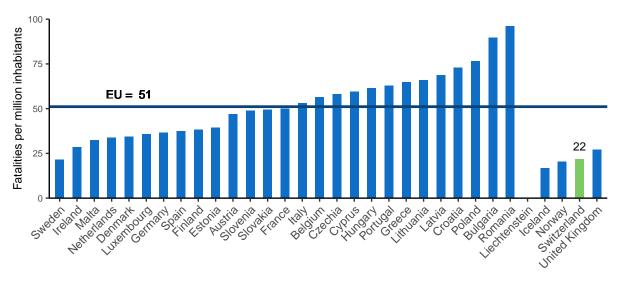


Figure 2. Number of road fatalities (2010-2019). Source: CARE

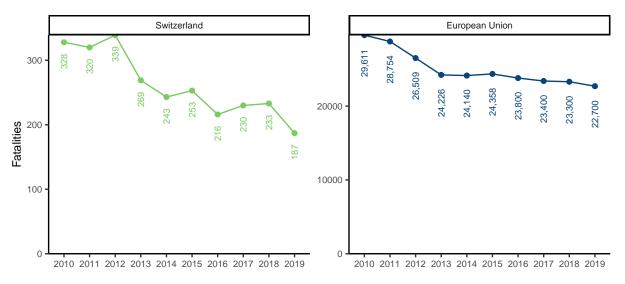
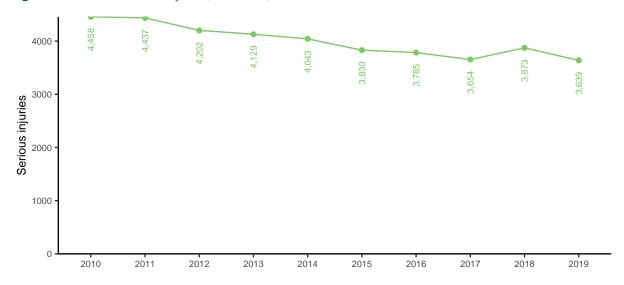


Figure 3. Number of serious injuries (2010-2019). Source: CARE



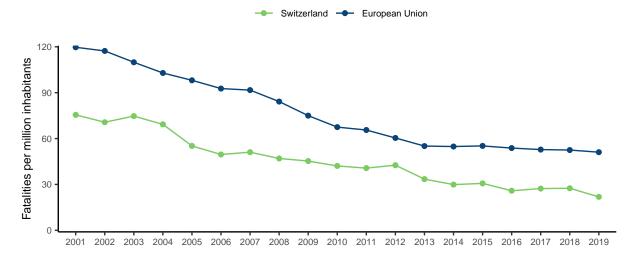


Figure 4. Number of road fatalities per million inhabitants (2001-2019). Source: CARE & EUROSTAT

2.2 Transport modes¹

In 2019, vulnerable road users (pedestrians, cyclists and powered two-wheelers) accounted for more than half of road traffic fatalities in Switzerland. This percentage is higher than that observed in the European Union as a whole. The greatest difference is found in the road user category of cyclists, which represented 14% of Switzerland's road fatalities, as opposed to 9% in the European Union. Car occupants on the other hand account for 35% of road fatalities, which is well below the proportion that is seen in the European Union (44%).

Over time there has been a decrease in the number of fatalities in Switzerland for all modes. In urban areas however, the number of cyclists remained constant over the past ten years, similar to the EU trend. Moreover, cyclists are the only transport mode for which the number of serious injuries increased (by 29%). The most favourable trend in terms of transport mode was related to pedestrians, with the number of fatalities falling by more than 40%.

Of all vulnerable road users (pedestrians, cyclists and powered two-wheelers) in Switzerland that were fatally injured, a third were involved in a crash with a car, and 17% were involved in a crash with a lorry or heavy goods vehicle. In contrast with the European Union, the country shows an upward trend in the number of fatally injured vulnerable road users that were involved in crashes with lorries or heavy goods vehicles.

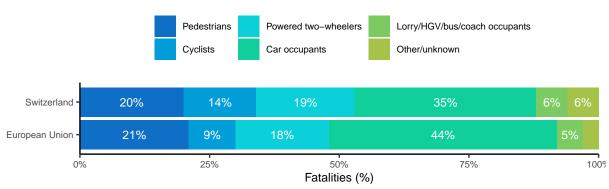


Figure 5. Number of road fatalities by transport mode (2019). Source: CARE

¹For more details about the categories used in this subsection, please see section 6.2 Definitions.

Table 2. Average number of road fatalities by transport mode (2010-2012 and 2017-2019). Source: CARE

Transport mode	2010 - 2012	2017 - 2019	Trend	EU 2010 - 2012	EU 2017 - 2019	EU trend
Pedestrians	73	42	-42%	5,793	4,767	-18%
Cyclists	36	34	-6%	2,023	1,991	-2%
Powered two-wheelers	74	45	-39%	5,058	4,132	-18%
Car occupants	117	74	-37%	13,309	10,445	-22%
Lorries, under 3.5t	7	4	/	898	780	-13%
Heavy goods vehicles	1	2	/	590	408	-31%
Bus/coach occupants	13	2	/	102	98	-4%
Other/unknown	7	13	/	1,119	691	/
Total	329	217	-34%	28,291	23,133	-18%

Table 3. Average number of serious injuries by transport mode (2010-2012 and 2017-2019). Source: CARE

Transport mode	2010 - 2012	2017 - 2019	Trend
Pedestrians	695	546	-21%
Cyclists	872	1,128	+29%
Powered two-wheelers	1,432	1,101	-23%
Car occupants	1,197	761	-36%
Lorries, under 3.5t	49	34	-31%
Heavy goods vehicles	19	17	-11%
Bus/coach occupants	32	24	-25%
Other/unknown	70	110	/
Total	4,366	3,722	-15%

Table 4. Average number of fatalities among vulnerable road users (pedestrians, cyclists and mopeds) involved in crashes involving cars, buses or coaches, and lorries or heavy goods vehicles (2010-2012 and 2017-2019). Source: CARE

Crash type	2010 - 2012	2017 - 2019	Trend	EU 2010 - 2012	EU 2017 - 2019	EU trend
Crashes involving buses or coaches	4	2	/	258	201	-22%
Crashes involving cars	60	34	-43%	5,507	4,666	-15%
Crashes involving lorries or heavy goods vehicles	18	20	+11%	1,721	1,333	-23%

Table 5. Average number of road fatalities in urban areas by transport mode (2010-2012 and 2017-2019). Source: CARE

Transport mode	2010 - 2012	2017 - 2019	Trend	EU 2010 - 2012	EU 2017 - 2019	EU trend
Pedestrians	53	32	-40%	3,944	3,303	-16%
Cyclists	23	23	+0%	1,113	1,134	+2%
Powered two-wheelers	19	10	/	2,200	1,595	-28%
Car occupants	25	14	/	2,883	2,164	-25%
Lorries, under 3.5t	2	0	/	149	132	-11%
Heavy goods vehicles	0	0	/	82	31	-62%
Bus/coach occupants	1	0	/	24	27	+12%
Other/unknown	1	5	/	222	260	/
Total	124	85	-31%	10,730	8,837	-18%

2.3 Age

The distribution of road fatalities across age groups in Switzerland is different from that for the European Union. People aged 65 and above represent 40% of road fatalities, which is much higher than what is seen in the European Union (28%). On the other hand, the proportion of fatalities aged 18 to 49 is much smaller.

Over the past ten years, the trend in the number of fatalities in Switzerland was downward for all age groups. While there is a slight increase in the European Union of fatalities in the age group of 65 and older, their number decreased in Switzerland. The number of serious injuries on the other hand, showed an increase for the two oldest age groups.

Figure 6. Number of road fatalities by age group (2019). Source: CARE

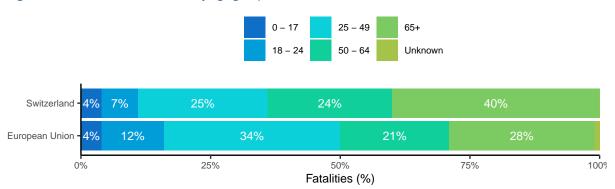


Table 6. Average number of road fatalities by age group (2010-2012 and 2017-2019). Source: CARE

Age	2010 - 2012	2017 - 2019	Trend	EU 2010 - 2012	EU 2017 - 2019	EU trend
<15	16	7	/	744	499	-33%
15 - 17	9	5	/	761	493	-35%
18 - 24	39	21	-46%	4,399	2,755	-37%
25 - 49	92	57	-38%	10,458	7,915	-24%
50 - 64	68	46	-32%	5,273	4,891	-7%
65+	104	79	-24%	6,392	6,559	+3%
Unknown	0	1	/	738	148	/
Total	329	217	-34%	28,291	23,133	-18%

Table 7. Average number of serious injuries by age group (2010-2012 and 2017-2019). Source: CARE

Age	2010 - 2012	2017 - 2019	Trend
<15	266	175	-34%
15 - 17	239	135	-44%
18 - 24	613	398	-35%
25 - 49	1,666	1,279	-23%
50 - 64	900	956	+6%
65+	682	779	+14%
Unknown	Unknown 0		/
Total	4,366	3,722	-15%

2.4 Gender

The high proportion of males among total road fatalities in Switzerland (74%) is similar to the EU average. This gender pattern apparent throughout the EU can be explained by differences in relation to frequency of transport use and to behaviour.

Switzerland - 26% 74%

European Union - 23% 77%

Female Male Unknown

74%

Finale Male Unknown

Figure 7. Number of road fatalities by gender (2019). Source: CARE

Table 8. Average number of road fatalities by gender (2010-2012 and 2017-2019). Source: CARE

Gender	2010 - 2012	2017 - 2019	Trend	EU 2010 - 2012	EU 2017 - 2019	EU trend
Female	84	59	-30%	6,656	5,453	-18%
Male	244	158	-35%	21,523	17,764	-17%
Unknown	0	0	/	1,310	42	/
Total	329	217	-34%	28,291	23,133	-18%

Table 9. Average number of serious injuries by gender (2010-2012 and 2017-2019). Source: CARE

Gender	2010 - 2012	2017 - 2019	Trend
Female	1,474	1,254	-15%
Male	2,891	2,468	-15%
Unknown	0	0	/
Total	4,366	3,722	-15%

2.5 Area

Similar to the EU average, the majority of road fatalities in Switzerland occurred on rural roads (52%). The proportion of fatalities on motorways is slightly higher (13%) than for the European Union as a whole. Over time, fatalities and serious injuries in Switzerland have decreased on all road types.

Figure 8. Number of road fatalities by road type (2019). Source: CARE

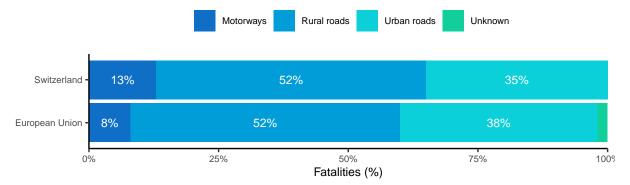


Table 10. Average number of road fatalities by road type (2010-2012 and 2017-2019). Source: CARE

Road type	2010 - 2012	2017 - 2019	Trend	EU 2010 - 2012	EU 2017 - 2019	EU trend
Motorway	36	23	-36%	2,038	1,969	-3%
Rural	169	109	-36%	15,205	12,200	-20%
Urban	124	85	-31%	10,730	8,837	-18%
Unknown	/	/	/	770	321	/
Total	329	217	-34%	28,291	23,133	-18%

Table 11. Average number of serious injuries by road type (2010-2012 and 2017-2019). Source: CARE

Road type	2010 - 2012	2017 - 2019	Trend
Motorway	300	195	-35%
Rural	1465	1204	-18%
Urban	2600	2323	-11%
Unknown	/	/	/
Total	4366	3722	-15%

2.6 Time ²

The distribution of fatalities by day of the week and time of the day is slightly different from the EU average: the country shows a higher proportion of fatalities that occur in the day-time during the working week (63%).

Figure 9. Number of road fatalities by period of time (2019). Source: CARE

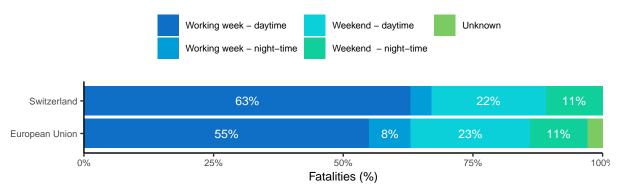


Table 12. Average number of road fatalities by period of time (2010-2012 and 2017-2019). Source: CARE

Period of time	2010 - 2012	2017 - 2019	Trend	EU 2010 - 2012	EU 2017 - 2019	EU trend
Working week - daytime	205	137	-33%	15,404	13,265	-14%
Working week - night-time	25	11	/	2,566	1,980	-23%
Weekend - daytime	68	48	-29%	6,353	5,383	-15%
Weekend - night-time	30	21	-30%	3,540	2,593	-27%
Unknown	/	233	/	4,071	662	/
Total	329	217	-34%	28,291	23,133	-18%

2.7 Road conditions

The majority of road fatalities occur on dry roads. This is the case for Switzerland as well as for the European Union as a whole. Regarding light conditions, a quarter of fatalities occur when it is dark, which is slightly less compared to the EU average.

²For more details about the time periods used in this subsection, please see section 6.2 Definitions.

Figure 10. Number of road fatalities by surface conditions (2019). Source: CARE

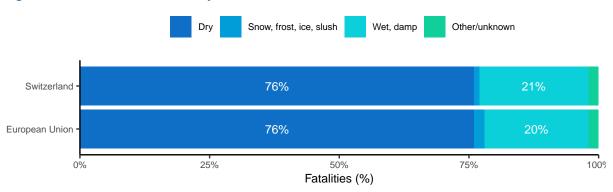


Table 13. Average number of road fatalities by surface conditions (2010-2012 and 2017-2019). Source: CARE

Surface conditions	2010 - 2012	2017 - 2019	Trend	EU 2010 - 2012	EU 2017 - 2019	EU trend
Dry	243	166	-32%	21,091	17,711	-16%
Snow, frost, ice, slush	18	6	/	988	442	-55%
Wet, damp	67	41	-39%	5,636	4,663	-17%
Other/unknown	/	/	/	2,458	446	/
Total	329	217	-34%	28,291	23,133	-18%

Figure 11. Number of road fatalities by light conditions (2019). Source: CARE

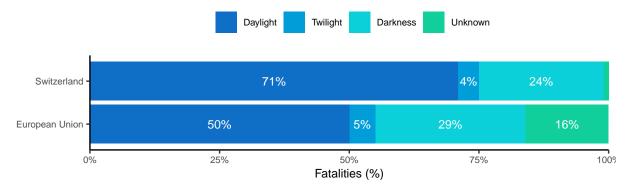


Table 14. Average number of road fatalities by light conditions (2010-2012 and 2017-2019). Source: CARE

Light conditions	2010 - 2012	2017 - 2019	Trend	EU 2010 - 2012	EU 2017 - 2019	EU trend
Darkness	95	51	-46%	8,918	6,782	-24%
Daylight	202	151	-25%	13,706	11,932	-13%
Twilight	25	14	/	1,498	1,228	-18%
Unknown	7	1	/	5,301	3,908	/
Total	329	217	-34%	28,291	23,133	-18%

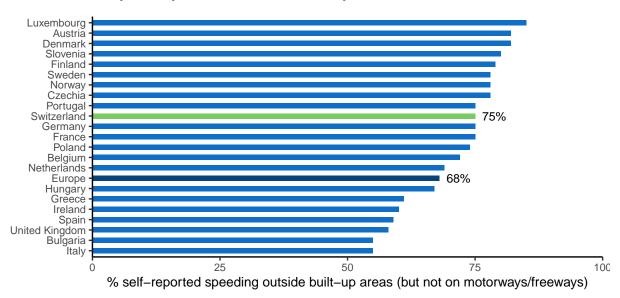
3 Road safety performance indicators

3.1 Behaviour of road users

Most of the road safety performance indicators regarding behaviour in traffic are based on self- reported behaviour. Switzerland performs significantly worse than the European average in relation to speeding and drink-driving. On the other hand, the self-reported use of a mobile phone while driving in Switzerland is lower than the European average and the self-reported use of a helmet among cyclists is higher.

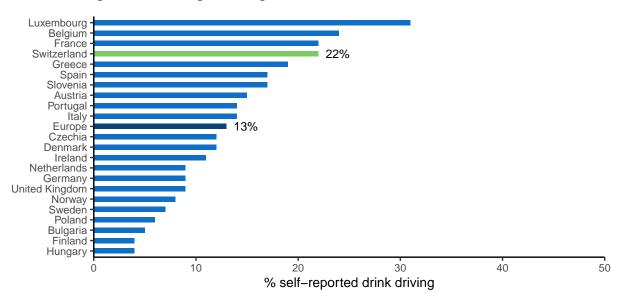
3.1.1 Speeding

Figure 12. Percentage of car drivers that say they have driven faster than the speed limit outside built-up areas (but not on motorways/freeways) at least once in the last 30 days. Source: ESRA (2018)



3.1.2 Driving under the influence

Figure 13. Percentage of car drivers that say they have driven at least once in the last 30 days when they may have been over the legal limit for drinking and driving. Source: ESRA (2018)



3.1.3 Use of protective systems

 Table 15.
 Observed seatbelt wearing rate. Source: IRTAD (2019)

	Seatbelt wearing rate
Car drivers on urban roads	95%
Car drivers on rural roads	96%
Car drivers on motorways	97%
Car drivers	96%
Front seat passengers	95%
Rear seat passengers	77%

Figure 14. Percentage of car passengers that say they always wore their seatbelt in the back seat in the last 30 days. Source: ESRA (2018)

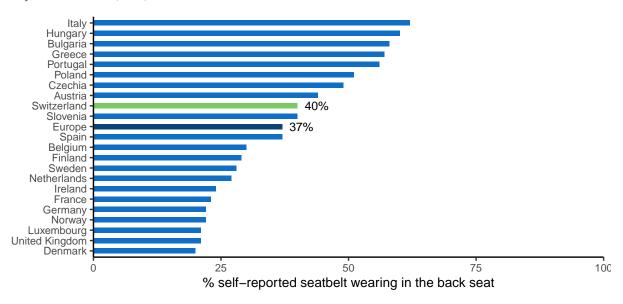
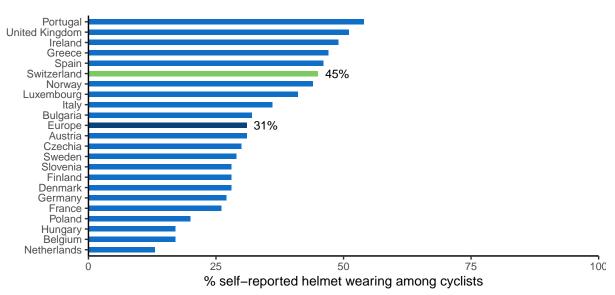
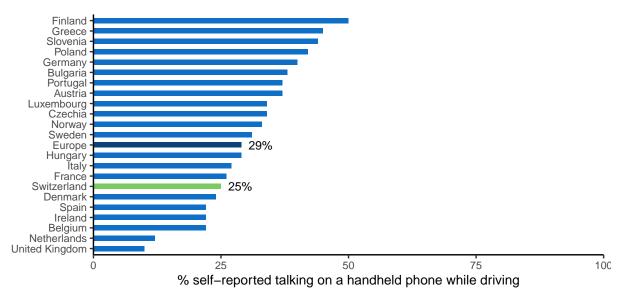


Figure 15. Percentage of cyclists that say they always cycled with a helmet in the last 30 days. Source: ESRA (2018)



3.1.4 Distraction

Figure 16. Percentage of car drivers that say they have at least once in the last 30 days talked on a hand-held mobile phone while driving. Source: ESRA (2018)



3.2 Infrastructure

In Switzerland both the overall road network and the motorway network show high road density in comparison with the EU average. The indicator for the quality of road infrastructure is based on judgements made by road users themselves. For Switzerland, a score of 6.3 (on a value scale from 1 to 7) is given, which is the highest score.

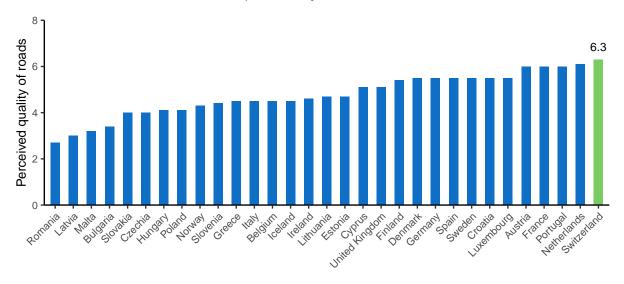
3.2.1 Road density

Table 16. Road density. Source: EUROSTAT (2019)

	Switzerland	European Union
Motorways	35 km road/1000 km²	15 km road/1000 km ²
Total	1733 km road/1000 km²	942 km road/1000 km²

3.2.2 Road quality

Figure 17. Perceived quality of the road infrastructure (1 = extremely poor, 7 = among the best in the world). Source: World Economic Forum, Executive Opinion Survey (2017-2018)



3.3 Vehicle fleet

The size of the Swiss vehicle fleet, expressed per 100 inhabitants, is similar to the EU average. Regarding the age of the vehicles, Swiss passenger cars appear to be slightly younger than the EU average, with only 36% passenger cars over 10 years.

 Table 17. Number of registered vehicles per 100 inhabitants. Source: EUROSTAT (2019)

	Switzerland	European Union
Lorries	5	7
Road tractors	0	1
Trailers and semi-trailers	4	4
Motorcycles	8	6
Passenger cars	54	54
Motor coaches, buses and trolley buses	0	0

 Table 18. Age of registered passenger cars. Source: EUROSTAT (2019)

	Switzerland	European Union	
Percentage of total number of passenger cars			
Less than 2 years	12%	12%	
From 2 to 5 years	20%	15%	
From 5 to 10 years	31%	21%	
From 10 to 20 years	30%	42%	
Over 20 years	6%	11%	

4 Road safety policy and measures

4.1 Legislation

National road safety legislation in Switzerland reflects the situation in the majority of EU countries with a few exceptions. The maximum speed on rural roads (80km/h) and on motorways (120 km/h) is lower than in most EU countries. Furthermore, unlike most other countries there is no age restriction to transport children on motorcycles in Switzerland.

 Table 19. National road safety legislation. Source: WHO (2018)

Speed limits for passenger cars		Switzerland	EU countries
Urban roads	Speed limits for passenger cars		
Motorways		50 km/h	50 km/h: 26; 65 km/h: 1
Allowed BAC (blood alcohol concentration) levels General population	Rural roads	80 km/h	110 km/h: 2; 100 km/h: 3; 90 km/h: 17; 80 km/h: 4
Seminary	Motorways	120 km/h	140 km/h: 2; 130 km/h: 14; 120 km/h: 6; 100 km/h: 1
Seatbelt requirement	Allowed BAC (blood alcohol concentration) levels	
Novice drivers	General population	0.5 g/l	0 g/l: 2; 0.2 g/l: 3; 0.3 g/l: 1; 0.4 g/l: 1; 0.5 g/l: 19; 0.8
Professional drivers O. 1 g/l Professional drivers O. 1 g/l O g/l: 6; 0.1 g/l: 1; 0.2 g/l: 10; 0.3 g/l: 2; 0.5 g/l: 7; 0.8 g/l: 17; 0.9 g/l: 18; 0.9 g/l: 18; 0.9 g/l: 17; 0.8 g/l: 17; 0.8 g/l: 17; 0.8 g/l: 17; 0.9 g/l: 17; 0.8 g/l: 17; 0.9 g/l: 17; 0.8 g/l: 17; 0.9 g/l: 18; 0.9 g/l: 18; 0.9 g/l: 17;		-	g/l: 1
Professional drivers 0.1 g/l 0 g/l: 6; 0.1 g/l: 1; 0.2 g/l: 10; 0.3 g/l: 2; 0.5 g/l: 7; 0.8 g/l: 1 Seatbelt requirement Drivers Front passengers Yes Yes: 27; No: 0 Rear passengers Yes Yes: 27; No: 0 Rear passengers Yes Yes: 27; No: 0 Transport of children Child restraint required Up to 12 yrs / 150 cm Up to 150 cm: 13; Up to 135 cm: 3; Up to 10 yrs: 1 Children in front seat of passenger cars Allowed in a child restraint Children passengers on motorcycles Not restricted Not restricted: 1 Children passengers on motorcycles Not restricted Applies to driver Applies to all roads Applies to all engines Yes Yes Yes Yes: 27; No: 0 Applies to all engines Yes Yes Yes: 27; No: 0 Applies to all engines Yes Yes Yes: 25; No: 2 Helmet fastening required No Standard referred to and / or specified Applies to hand-held phone use Yes Yes: 26; No: 1	Novice drivers	0.1 g/l	0 g/l: 7; 0.1 g/l: 1; 0.2 g/l: 12; 0.3 g/l: 2; 0.5 g/l: 4; 0.8
Seatbelt requirement Drivers Yes Yes: 27; No: 0 Front passengers Yes Yes: 27; No: 0 Rear passengers Yes Yes: 27; No: 0 Transport of children Child restraint required Up to 12 yrs / 150 cm Up to 150 cm: 13; Up to 135 cm: 3; Up to 10 yrs: 1 Children in front seat of passenger cars Allowed in a child restraint Prohibited under 10 yrs: 1; Prohibited under 12 yrs or 135 cm: 1; Prohibited under 150 cm: 1; Prohibited under 135 cm: 1; Prohibited under 150 cm: 1; Prohibited under 135 cm: 1; Allowed in a child restraint: 22; Not restricted: 1 Children passengers on motorcycles Not restricted Not restricted: 9; Prohibited under certain age/height: 18 Motorcycle helmets Applies to driver Yes Yes: 27; No: 0 Applies to passengers Yes Yes: 27; No: 0 Applies to all roads Yes Yes: 27; No: 0 Applies to all engines Yes Yes: 27; No: 0 Applies to all engines Yes Yes: 25; No: 2 Helmet fastening required No Yes: 18; No: 9 Standard referred to and / or specified Yes Yes: 19; No: 8 Mobile phone restriction Applies to hand-held phone use Yes Yes: 26; No: 1			
Drivers Yes Yes Yes Yes Zey; No: 0	Professional drivers	0.1 g/l	0 g/l: 6; 0.1 g/l: 1; 0.2 g/l: 10; 0.3 g/l: 2; 0.5 g/l: 7; 0.8
Drivers Yes Yes: 27; No: 0 Front passengers Yes Yes: 27; No: 0 Rear passengers Yes Yes: 27; No: 0 Transport of children Child restraint required Up to 12 yrs / 150 cm Up to 150 cm: 13; Up to 135 cm: 3; Up to 10 yrs: 1 Children in front seat of passenger cars Allowed in a child restraint Prohibited under 10 yrs: 1; Prohibited under 12 yrs or 135 cm: 1; Prohibited under 150 cm: 1; Prohibited under 135 cm: 1; Prohibited under 150 cm: 1; Prohibited under 135 cm: 1; Prohibited under 12 yrs or 135 cm: 1; Prohibited under 150 cm: 1; Prohibited under 12 yrs or 135 cm: 1; Prohibited under 150 cm: 1; Prohibited under 12 yrs or 135 cm: 1; Prohibited under 150 cm: 1; Prohibited under 12 yrs or 135 cm: 1; Prohibited under 150 cm: 1; Prohibited under 12 yrs or 135 cm: 1; Prohibited under 150 cm: 1; Prohibited under 12 yrs or 135 cm: 1; Prohibited under 150 cm: 2; Prohibited under 150 cm: 1; Prohibit			g/l: 1
Front passengers Rear passengers Yes Yes Yes: 27; No: 0 Transport of children Child restraint required Children in front seat of passenger cars Allowed in a child restraint Children passengers on motorcycles Not restricted Not restricted: 9; Prohibited under certain age/height: 18 Motorcycle helmets Applies to driver Applies to all roads Applies to all engines Applies to all engines Helmet fastening required Applies to hand-held phone use Yes Yes Yes Yes Yes: 27; No: 0 Yes: 27; No: 0 Yes: 19; No: 8 Mobile phone restriction Yes Yes Yes: 26; No: 1	Seatbelt requirement		
Rear passengers Yes Yes: 27; No: 0 Transport of children Child restraint required Up to 12 yrs / 150 cm Children in front seat of passenger cars Allowed in a child restraint Prohibited under 10 yrs: 1; Prohibited under 12 yrs or 135 cm: 1; Prohibited under 150 cm: 1; Prohibited under 135 cm: 1; Prohibited under 150 cm: 1; Prohibited under 135 cm: 1; Allowed in a child restraint: 22; Not restricted: 1 Children passengers on motorcycles Not restricted Not restricted: 9; Prohibited under certain age/height: 18 Motorcycle helmets Applies to driver Applies to passengers Yes Yes: 27; No: 0 Applies to all roads Yes Yes: 27; No: 0 Applies to all engines Yes Yes: 25; No: 2 Helmet fastening required No Yes: 18; No: 9 Standard referred to and / or specified Yes Yes: 19; No: 8 Mobile phone restriction Applies to hand-held phone use Yes Yes: 26; No: 1	Drivers	Yes	Yes: 27; No: 0
Transport of children Child restraint required Children in front seat of passenger cars Children passengers on motorcycles Children passengers on motorcycles Children passengers on motorcycles Not restricted Applies to dall roads Applies to all roads Applies to all roads Applies to all engines Helmet fastening required Applies to hand-held phone use Not restricted Not 12 yrs / 150 cm Up to 150 cm: 13; Up to 135 cm: 1; Prohibited under 12 yrs or 135 cm: 1; Prohibited under 150 cm: 1; Pro	Front passengers	Yes	Yes: 27; No: 0
Child restraint required Children in front seat of passenger cars Allowed in a child restraint Prohibited under 10 yrs: 1; Prohibited under 12 yrs or 135 cm: 1; Prohibited under 150 cm: 1; Prohib		Yes	Yes: 27; No: 0
Children in front seat of passenger cars Allowed in a child restraint Prohibited under 10 yrs: 1; Prohibited under 12 yrs or 135 cm: 1; Prohibited under 150 cm: 1; Prohibited under 135 cm: 1; Prohibited under 135 cm: 1; Allowed in a child restraint: 22; Not restricted: 1 Children passengers on motorcycles Not restricted Not restricted: 9; Prohibited under certain age/height: 18 Motorcycle helmets Applies to driver Applies to passengers Yes Yes: 27; No: 0 Applies to passengers Yes Yes: 27; No: 0 Applies to all roads Yes Yes: 27; No: 0 Applies to all engines Yes Yes: 25; No: 2 Helmet fastening required No Yes: 18; No: 9 Standard referred to and / or specified Yes Yes: 9; Yes: 19; No: 8 Mobile phone restriction Applies to hand-held phone use Yes Yes: 26; No: 1	Transport of children		
135 cm: 1; Prohibited under 150 cm: 1; Prohibited under 150 cm: 1; Prohibited under 135 cm: 1; Allowed in a child restraint: 22; Not restricted: 1 Children passengers on motorcycles Not restricted: Not restricted: 9; Prohibited under certain age/height: 18 Motorcycle helmets Applies to driver Applies to passengers Yes Yes: 27; No: 0 Applies to passengers Yes Yes: 27; No: 0 Applies to all roads Yes Yes: 27; No: 0 Applies to all engines Yes Yes: 27; No: 0 Applies to all engines Yes Yes: 25; No: 2 Helmet fastening required No Yes: 18; No: 9 Standard referred to and / or specified Yes Mobile phone restriction Applies to hand-held phone use Yes Yes: 26; No: 1			
under 135 cm: 1; Allowed in a child restraint: 22; Not restricted: 1 Children passengers on motorcycles Not restricted: 9; Prohibited under certain age/height: 18 Motorcycle helmets Applies to driver Applies to passengers Yes Yes: 27; No: 0 Applies to passengers Yes Yes: 27; No: 0 Applies to all roads Yes Yes: 27; No: 0 Applies to all engines Yes Yes: 27; No: 0 Applies to all engines Yes Yes: 25; No: 2 Helmet fastening required No Yes: 18; No: 9 Standard referred to and / or specified Yes Mobile phone restriction Applies to hand-held phone use Yes Yes: 26; No: 1	Children in front seat of passenger cars	Allowed in a child restraint	
Children passengers on motorcycles Not restricted Not restricted: 9; Prohibited under certain age/height: 18 Motorcycle helmets Applies to driver Applies to passengers Yes Yes Yes: 27; No: 0 Applies to passengers Yes Yes: 27; No: 0 Applies to all roads Yes Yes: 27; No: 0 Applies to all lengines Yes Yes: 27; No: 0 Applies to all engines Yes Yes: 25; No: 2 Helmet fastening required No Yes: 18; No: 9 Standard referred to and / or specified Yes Mobile phone restriction Applies to hand-held phone use Yes Yes: 26; No: 1			
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Motorcycle helmetsApplies to driverYesYes: 27; No: 0Applies to passengersYesYes: 27; No: 0Applies to all roadsYesYes: 27; No: 0Applies to all enginesYesYes: 27; No: 0Applies to all enginesYesYes: 25; No: 2Helmet fastening requiredNoYes: 18; No: 9Standard referred to and / or specifiedYesYes: 19; No: 8Mobile phone restrictionApplies to hand-held phone useYesYes: 26; No: 1			restricted: 1
Motorcycle helmetsYesYes: 27; No: 0Applies to driverYesYes: 27; No: 0Applies to passengersYesYes: 27; No: 0Applies to all roadsYesYes: 27; No: 0Applies to all enginesYesYes: 25; No: 2Helmet fastening requiredNoYes: 18; No: 9Standard referred to and / or specifiedYesYes: 19; No: 8Mobile phone restrictionApplies to hand-held phone useYesYes: 26; No: 1	Children passengers on motorcycles	Not restricted	Not restricted: 9; Prohibited under certain age/height:
Applies to driver Applies to passengers Applies to passengers Applies to passengers Applies to all roads Applies to all roads Applies to all engines Applies to all engines Applies to all engines Applies to all engines Yes Yes: 27; No: 0 Yes: 25; No: 2 Helmet fastening required No Yes: 18; No: 9 Standard referred to and / or specified Yes Yes: 19; No: 8 Mobile phone restriction Applies to hand-held phone use Yes Yes: 26; No: 1			18
Applies to passengers Applies to all roads Applies to all engines Applies to all engines Applies to all engines Yes Yes Yes Yes: 27; No: 0 Yes: 27; No: 0 Yes: 25; No: 2 Helmet fastening required No Yes: 18; No: 9 Standard referred to and / or specified Yes Wobile phone restriction Applies to hand-held phone use Yes Yes Yes Yes: 26; No: 1			
Applies to all roads Applies to all engines Applies to all engines Yes Yes Yes: 27; No: 0 Yes: 25; No: 2 Helmet fastening required No Yes: 18; No: 9 Standard referred to and / or specified Yes Yes: 19; No: 8 Mobile phone restriction Applies to hand-held phone use Yes Yes: 26; No: 1	• •	Yes	
Applies to all engines Helmet fastening required No Standard referred to and / or specified Mobile phone restriction Applies to hand-held phone use Yes Yes Yes Yes Yes Yes Yes: 25; No: 2 Yes: 18; No: 9 Yes: 19; No: 8 Yes: 26; No: 1	Applies to passengers	Yes	Yes: 27; No: 0
Helmet fastening required No Yes: 18; No: 9 Standard referred to and / or specified Yes Yes: 19; No: 8 Mobile phone restriction Applies to hand-held phone use Yes Yes: 26; No: 1		Yes	Yes: 27; No: 0
Standard referred to and / or specified Yes Yes: 19; No: 8 Mobile phone restriction Applies to hand-held phone use Yes Yes: 26; No: 1		Yes	,
Mobile phone restriction Applies to hand-held phone use Yes Yes: 26; No: 1		No	Yes: 18; No: 9
Applies to hand-held phone use Yes Yes: 26; No: 1	Standard referred to and / or specified	Yes	Yes: 19; No: 8
Applies to hands-free phone use No Yes: 0; No: 27	Applies to hand-held phone use	Yes	Yes: 26; No: 1
	Applies to hands-free phone use	No	Yes: 0; No: 27

4.2 Enforcement

According to an international respondent consensus, in which the effectiveness of road safety enforcement is measured on a ten-point scale, Switzerland scores above the EU average for all legislation surveyed, except drink-driving legislation. Furthermore, both the self-reported frequency of alcohol checks and of drug checks in Switzerland is lower than the European average.

Table 20. Effectiveness of enforcement according to an international respondent consensus (scale = 0-10). Source: WHO (2018)

	Switzerland	European average
Speed legislation	7	6.8
Drink-driving legislation	6	7
Seatbelt legislation	8	7
Child restraint system legislation	7	7
Motorcycle helmet legislation	9	8

Figure 18. Percentage of car drivers that say they have been checked by the police for using alcohol at least once over the past 12 months. Source: ESRA (2018)

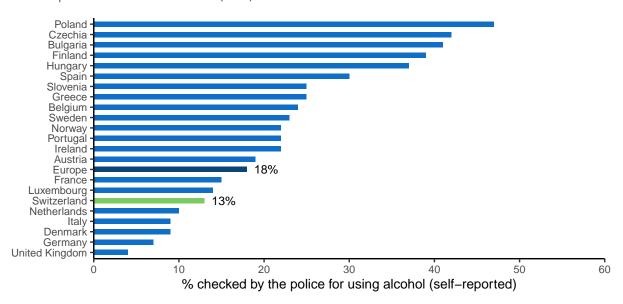
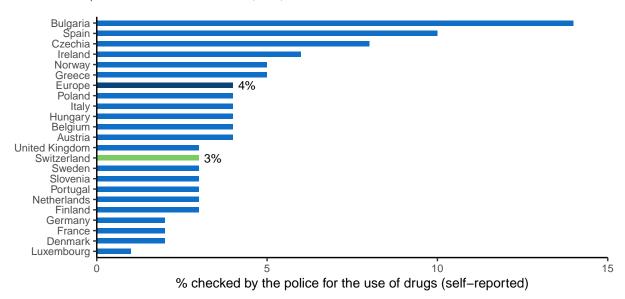


Figure 19. Percentage of car drivers that say they have been checked by the police for the use of drugs at least once over the past 12 months. Source: ESRA (2018)



4.3 Road infrastructure

 Table 21. Infrastructure-related policy. Source: WHO (2018)

	Switzerland	EU countries
Audits or star rating required for new road infrastructure	Partial	Yes: 10 Partial: 17
Inspections / star rating of existing roads	Yes	Yes: 26 No: 1
Design standards for the safety of pedestrians / cyclists	No	Yes: 25 Partial: 2 No: 0
Investments to upgrade high risk locations	Yes	Yes: 20 No: 7
Policies & investment in urban public transport	Yes	Yes: 23 No: 4
Policies promoting walking and cycling	Yes	Yes: 21 Subnational: 3 No: 3

4.4 Post-crash care

 Table 22. Policy related to post-crash care. Source: WHO (2018)

	Switzerland	EU countries
Trauma registry	National	National: 13 Subnational: 4
		Some facilities: 0 None: 7
National assessment of emergency care system	No	Yes: 9 No: 18
Provider training and certification - Prehospital providers -	No	Yes: 19 No: 6
Formal certification pathway		
Provider training and certification - Nurses - Post graduate	Yes	Yes: 21 No: 5
courses in emergency and trauma care		
Provider training and certification - Specialist doctors -	Yes	Yes: 21 Subnational: 0
Emergency medicine		

5 Structure and culture

5.1 Country characteristics

Population density in Switzerland is above the EU average, and its population is mainly settled in suburbs and towns. Its GDP per capita is above that of the European Union and the unemployment rate is lower.

 Table 23. Country characteristics. Source: EUROSTAT and IRTAD

	Switzerland	European Union
Population-related data (2020)		
Population (2020)	8606033	447319916
Population density (inhabitants/km²)	208	106
% Children (0-14)	15%	15%
% Adults (15-64)	66%	64%
% Elderly (65+)	19%	21%
Urbanization (2019)		,
% living in cities	30%	38%
% living in suburbs and towns	53%	34%
% living in rural areas	18%	28%
Economic data		
GDP per capita (EUR, 2020)	76223.0	29768.3
Unemployment rate (2020)	5%	7%
% GDP dedicated to road spending (2018)	1%	0.7%

5.2 Structure of road safety management

Table 24. Road safety management structure. Source: National sources

Key functions	Key actors
	Federal Roads Office
	Federal Department of the Environment, Transport, Energy and
Formulation of national road safety strategy	Communication
rollilulation of flational load safety strategy	Federal Office of Transport
	Canton Transportation Administrations
Monitoring of the road safety development	Federal Roads Office
	Federal Department of the Environment, Transport, Energy and
Improvements in road infrastructure	Communication
improvements in road infrastructure	Federal Office of Transport
Improvement in vehicles	Federal Roads Office
Improvement in road user education	Swiss Council for Accident Prevention
Publicity campaigns	Federal Roads Office
rublicity campaigns	Swiss Council for Accident Prevention
	Federal Department of Justice and Police
Enforcement of traffic laws	Cantonal Police
	Regional Police

5.3 Attitudes

Table 25. Attitudes towards speeding, towards drink-driving, and towards the use of a mobile phone while driving. Source: ESRA (2018)

	Switzerland	European average	Ranking among European countries
% of respondents that agree			
Speeding			
I often drive faster than the speed limit	9%	12%	6/22
I will do my best to respect speed limits in the next 30 days	71%	71%	7/22
Drink-driving			•
I often drive after drinking alcohol	1%	2%	5/22
I will do my best not to drive after drinking alcohol in the	78%	76%	12/22
next 30 days			
Use of a mobile phone while driving		·	
I often talk on a hand-held mobile phone while driving	4%	3%	15/22
I often check my messages on the mobile phone while	3%	4%	11/22
driving			
I will do my best not to use my mobile phone while driving	79%	74%	19/22
in the next 30 days			

6 Notes

6.1 Data sources

CARE

(Community database on Accidents on the Roads in Europe) All information in part 1 of this document (road safety outcomes) is based on data in the CARE database. The European average is based on the average of the 27 EU countries. Date of extraction: 26th of March, 2021. There may be small discrepancies between the CARE data presented in the report and the accident data published in national reports.

ESRA (E-Survey of Road Users' Attitudes)

The European average is the average of 20 European countries (Austria, Belgium, Czechia, Denmark, Finland, France, Germany, Greece, Hungary, Ireland, Italy, Netherlands, Poland, Portugal, Serbia, Slovenia, Spain, Sweden, Switzerland and the United Kingdom) https://www.esranet.eu/en/

ETSC (European Transport Safety Council)

Car safety data was retrieved from https://etsc.eu/wp-content/uploads/PIN-Flash-30-Final.pdf Data about speeding was retrieved from https://www.etsc.eu/pinflash36

IRTAD (International Traffic Safety Data and Analysis Group)

Data is retrieved from the OECD database: https://stats.oecd.org/ Date of extraction: 7th of August 2020

WHO (World Health Organization)

The data are retrieved from the WHO Global Status Report on Road Safety that was published in 2018. The European average is based on the average of the 27 EU countries. https://www.who.int/violence_injury_prevention/road_safety_status/2018/en/

World Economic Forum

Data is retrieved from http://reports.weforum.org/pdf/gci-2017-2018-scorecard/WEF_GCI_2 017_2018_Scorecard_EOSQ057.pdf

6.2 Definitions

Accident / Crash

Any accident involving at least one road vehicle in motion on a public road or private road to which the public has right of access, resulting in at least one injured or killed person (Source: UNECE/ITF/Eurostat Glossary). Note: the definition of "injury" varies considerably among EU countries thus affecting the reliability of cross country comparisons.

Bicycle

Vehicle with at least 2 wheels, without engine. In some cases it can also use electric power.

Bus or Coach

Bus: passenger-carrying vehicle, most commonly used for public transport, having more than 16 seats for passengers. Coach: passenger-carrying vehicle, having more than 16 seats for

passengers. Most commonly used for interurban movements and tourist trips. To differentiate from other types of bus, a coach has a luggage hold separate from the passenger cabin.

CARE EU Average and aggregated numbers

In the second section "Road safety outcomes", we provide EU averages and aggregated figures based on the most recent figures available (2019). However, as some countries have not yet provided their official data for that year, we have produced the EU averages and aggregated data by imputing figures based on data from previous years. The aggregated EU averages and figures in this report may therefore differ slightly from the aggregated averages and figures for 2019 that will be published in the future.

Fatal crash

Crash with at least one person killed regardless the injury severity of any other persons involved.

Fatalities

Total number of persons fatally injured within 30 days of the road crash; correction factors applied when needed. Confirmed suicide and natural death are not included.

Lorry, under 3.5 tonnes

Goods vehicle under 3.5t maximum gross weight. Smaller motor vehicle used only for the transport of goods.

Pedestrian

Person on foot. Included are occupants or persons pushing or pulling a child's carriage, an invalid chair, or any other small vehicle without an engine. Also included are persons pushing a cycle, moped, roller-skating, skateboarding, skiing or using similar devices. Does not include persons in the act of boarding or alighting from a vehicle. (Source: UNECE/ITF/Eurostat Glossary and CADAS Glossary) Unilateral pedestrian crashes (e.g. pedestrian falls) are excluded.

Powered two-wheelers

Driver or passenger of either a moped (two or three wheeled vehicle equipped with engine size of maximum 50cc and maximum speed that does not exceed 45 km/h. A moped can also have an electric motor. Speed pedelecs and electric powered bicycles that offer pedal assistance up to 45 km/h, also belong to this category of vehicles.) or a motorcycle (motor vehicle with two or three wheels, with an engine size of more than 50 cc. A motorcycle can also have an electric motor.).

Seriously injured (at least 30 days)

The CARE database includes the number of persons seriously injured who have been hospitalised for at least 24 hours. An alternative source is MAIS (Maximum Abbreviated Injury Scale) which is a globally accepted trauma scale used by medical professionals. The injury score is determined at the hospital with the help of a detailed classification key. The score ranges from 1 to 6, with levels 3 to 6 considered as serious injuries.

Working week - Daytime

Monday to Friday 6.00 a.m. to 9.59 p.m.

Working week - Night-time

Monday 10 p.m. to Tuesday 5.59 a.m. Tuesday 10 p.m. to Wednesday 5.59 a.m. Wednesday 10 p.m. to Thursday 5.59 a.m. Thursday 10 p.m. to Friday 5.59 a.m.

Weekend - Daytime

Saturday to Sunday 6.00 a.m. to 9.59 p.m.

Weekend - Night-time

Friday 10 p.m. to Saturday 5.59 a.m. Saturday 10 p.m. to Sunday 5.59 a.m. Sunday 10 p.m. to Monday 5.59 a.m.