

Mobility and safety of young drivers in Finland – using data analysis to promote safety

9.6.2022 Elina Uusitalo

Starting point 2018 driving license legislation





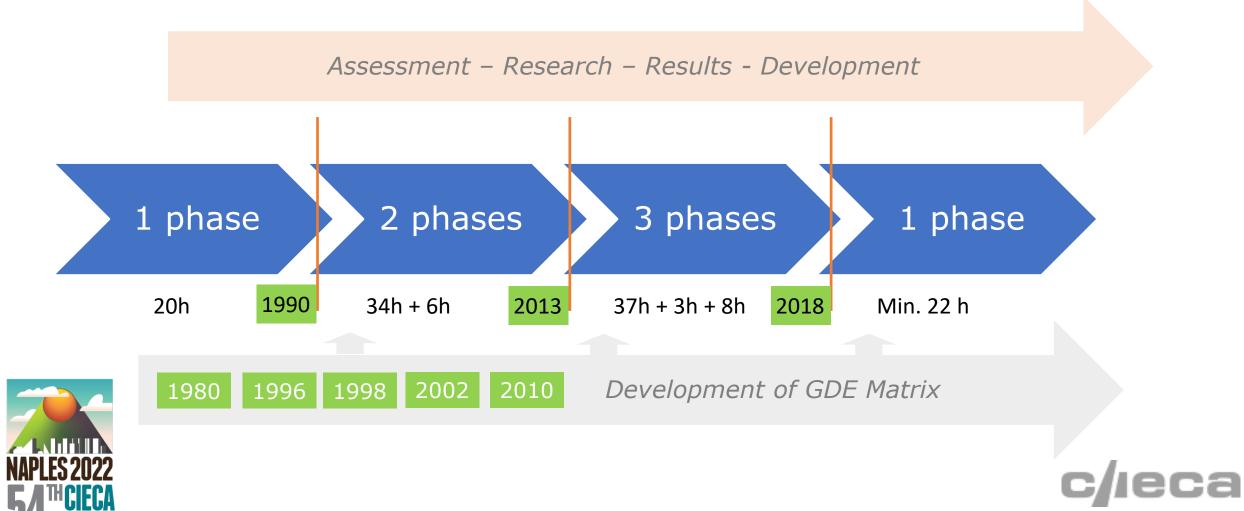
- A reform of the Finnish driving license legislation came into force in 2018 with major changes to driver instruction and examinations
- Compulsory training was cut in half
- Use of modern technology for learning
- Driving test time increased from 45 minutes to 60 minutes
- Full competence based assessment
- Focus was (even) more on higher-order skills and candidates behaviour

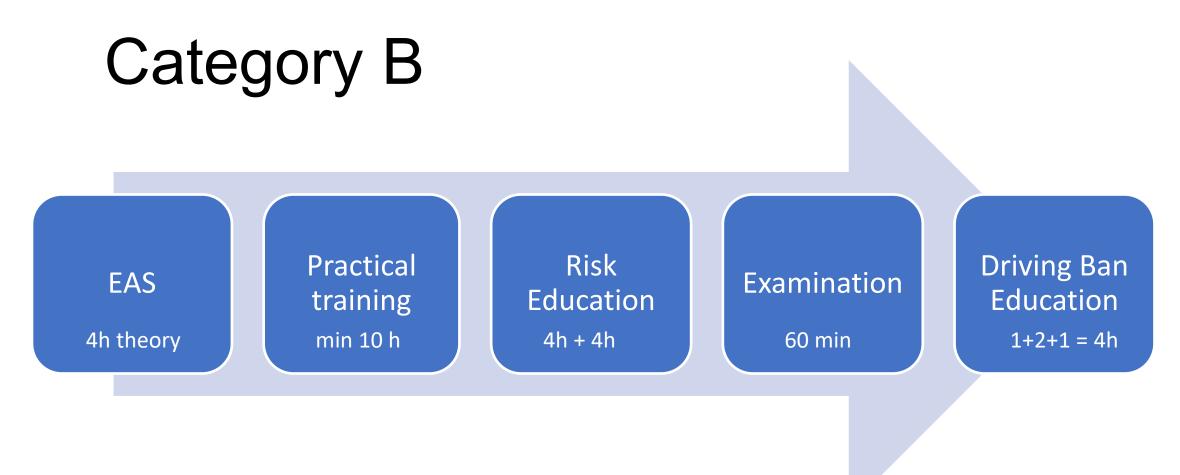


 Extension of the age exemption permit for the acquisition of a B driving license for 17-year-olds



Driver education models - history









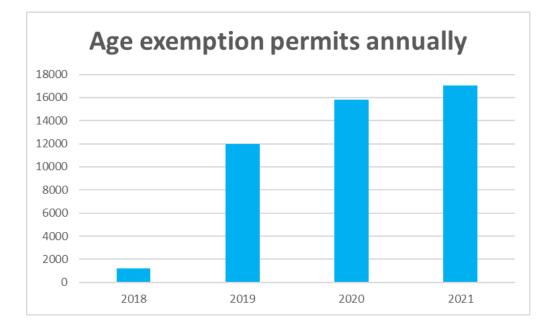
Age exemption permit at age 17

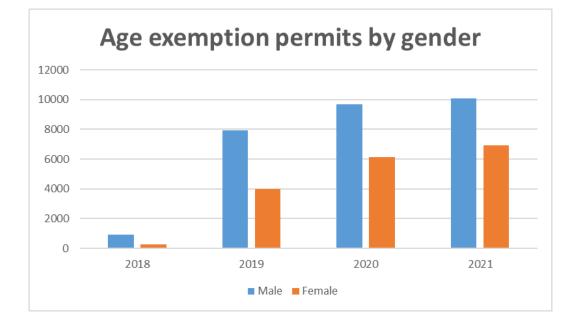
- Driving instruction is allowed from age 16 in category B and normal licensing age is 18
- With an age exception permit, a driving license may already be obtained at the age of 17 if there are special reasons for this
- Special reasons for the issuing of the permit include long distances or the lack of public transport connections that regularly impede travel to and from
 - school,
 - work,
 - training taking place at the workplace or
 - regular, goal-oriented hobby activities.
- Additionally, an age exception permit can be issued based on health-related reasons that hinder or prevent regular travel.
 - Same education and same examination as 18 year olds





Age exemption permit

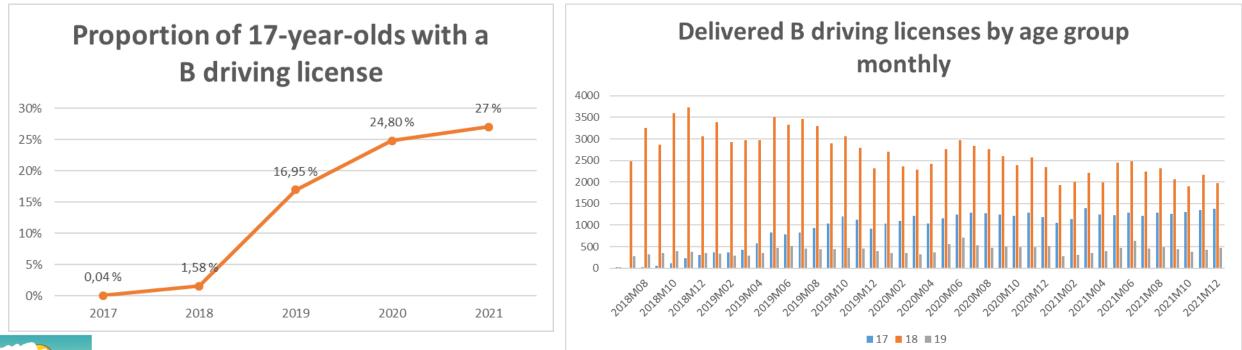








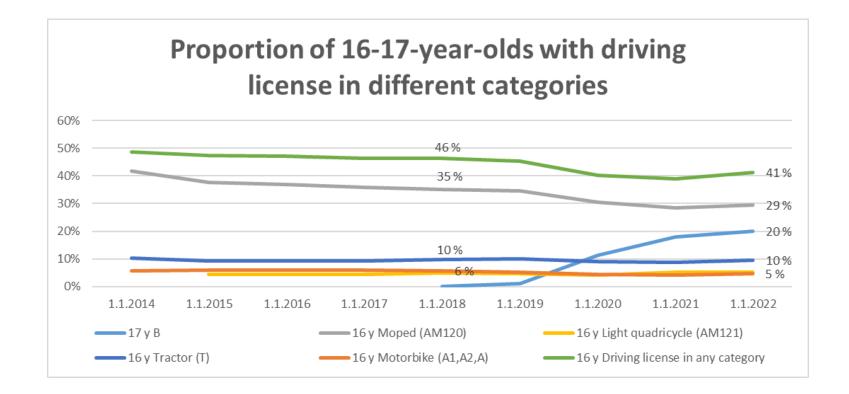
Category B







Driving license in any category











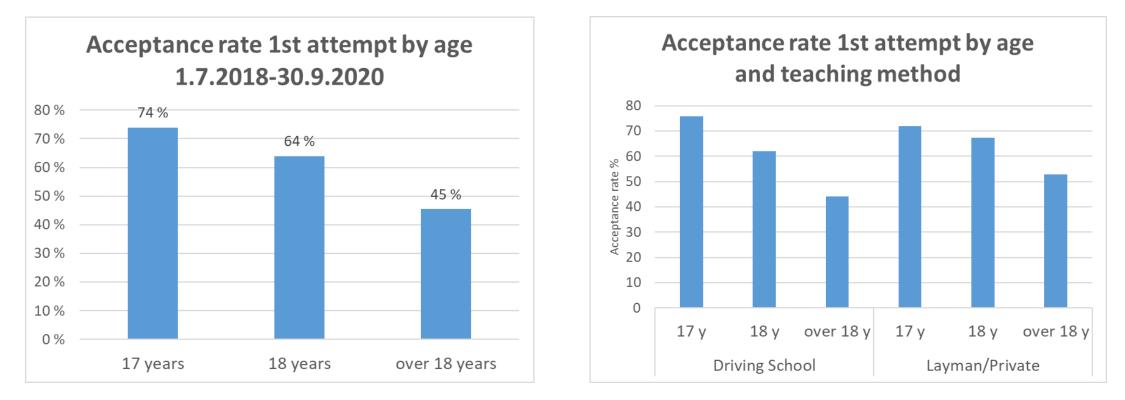


Driving test





Success in driving test



- First observation was that 17-year-olds have the highest acceptance rate in driving test
- The difference between the 17-year-olds and the 18-year-olds in the driving test pass rate was 10 percentage points
- The situation was the same whether the person had been taught in a driving school or with a teaching permit

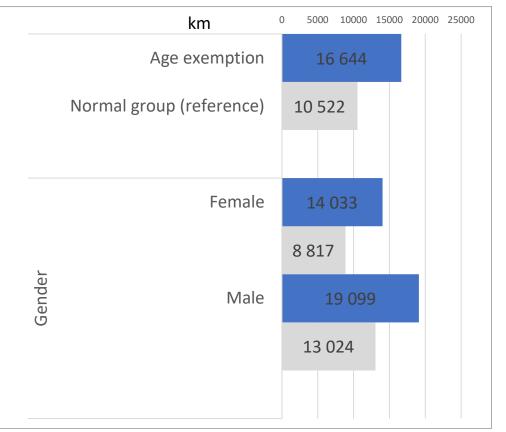






Accumulated mileage

- 87% of those who received a driving license with an age exemption stated that they travel by car every day or almost every day. The share of those who travel less than once a week was 2%.
- 67% of respondents reported carrying a passenger to school or work at least once a week. In terms of leisure travel it was almost 80 percent.
- During the first year of driving, those who had obtained an driving license with an age exemption had driven significantly more than all those who had obtained a driving license on average. There was a difference of almost 60% in the average driving performance in the first year
- Of the different groups of drivers, male respondents and respondents living in small towns had the highest mileage





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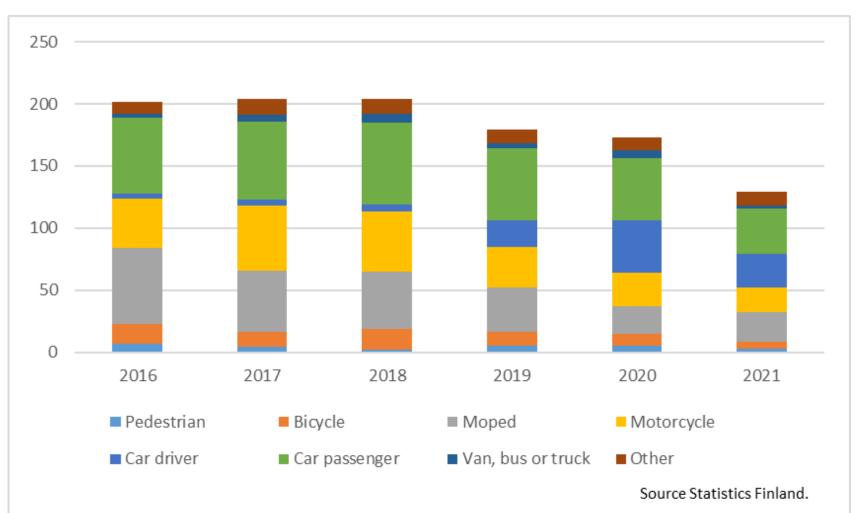


Behavior Accidents





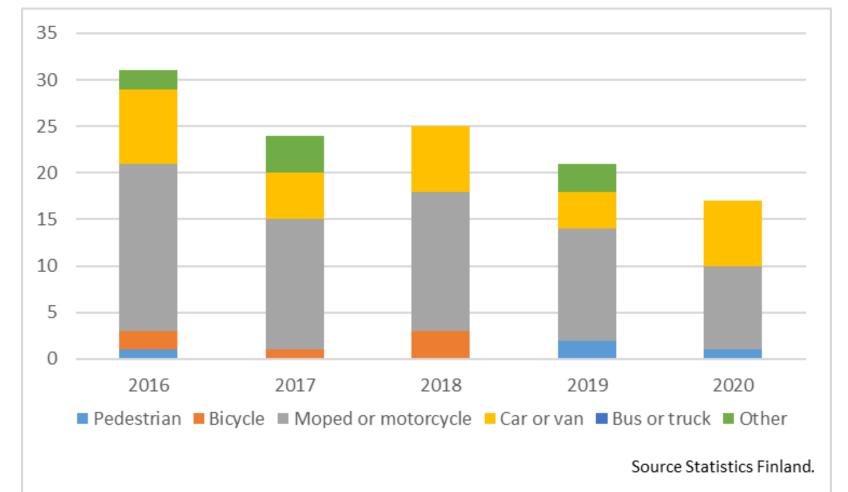
17 years old injured by mode of transport, police reported injuries



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17 years old seriously injured by mode of transport, hospital data



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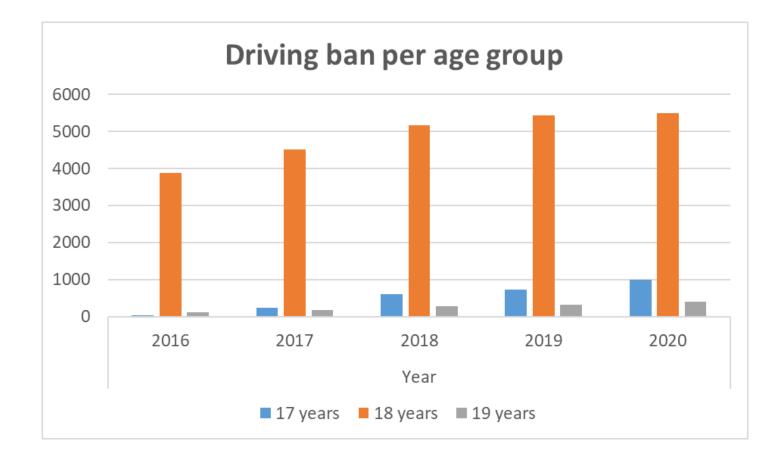
Behavior Driving bans

A temporary driving ban imposed by the police at traffic control





Development of driving bans for young drivers (B)



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Behavior Age





Before and after licensing

Age	Driving ban after B license	Driving ban before and after B license	Percentage
	псензе	and after D ficense	
17 years	662	101	15 %
18 years	2264	284	13 %
19 years	95	10	11 %

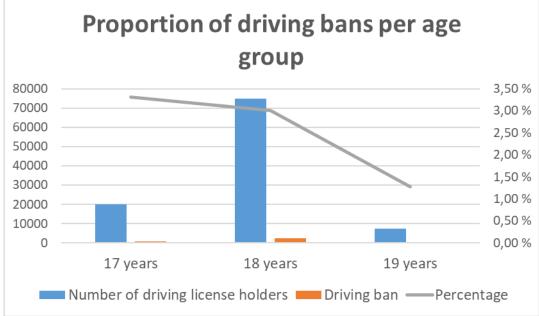
• If the person had a driving ban before category B license, the probability that he or she will repeat the offense after obtaining a B driving license is higher if he or she is 17 years old





Driving bans per age group after licensing

Age	Driving license holders	Driving ban	Percentage
17 years	19 988	662	3,31 %
18 years	74 978	2 264	3,01 %
19 years	7 419	95	1,28 %

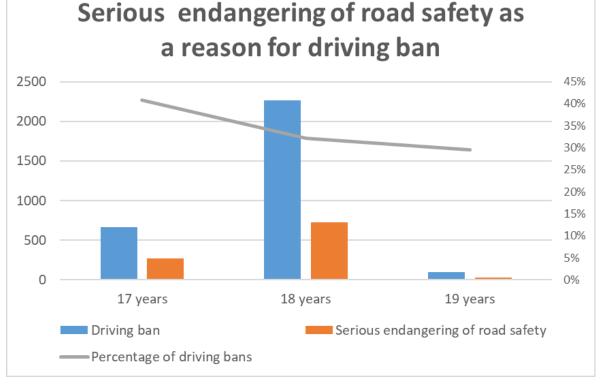


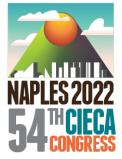




Reason for driving ban - Serious endangering of road safety

Age	Driving ban	Serious endangering of road safety	Percentage of driving bans	
17 years	662	270	40,78 %	
18 years	2264	727	32,11 %	
19 years	95	28	29,47 %	





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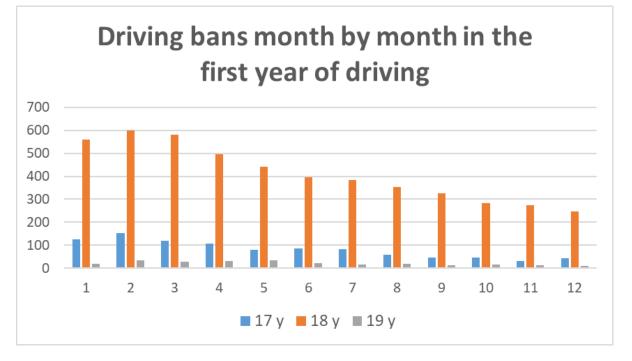
Behavior Driving experience First year as a driver





Driving bans during the first year

- The risk behavior of new drivers had the same characteristics regardless of age group.
- Approximately 50% of driving offenses in the first year of driving occurred within the first 4 months of obtaining a driving license in all age groups.





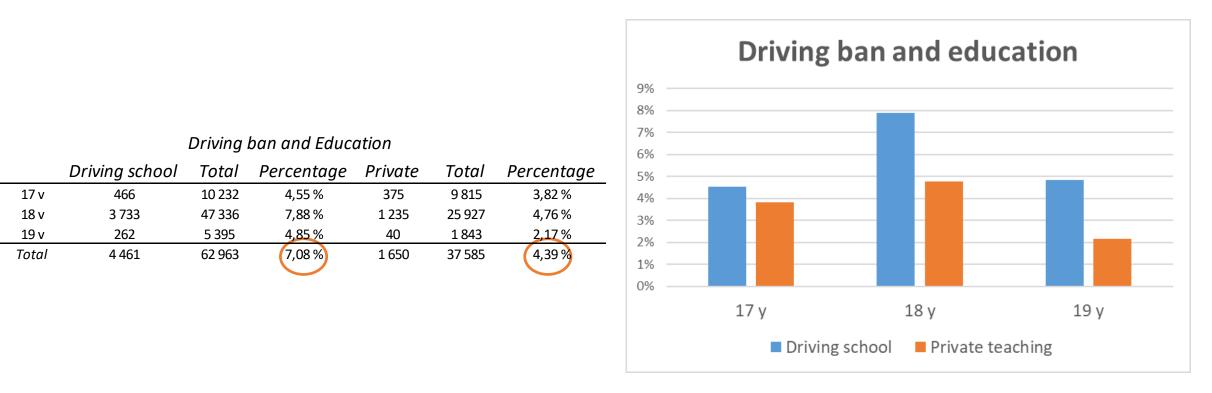


Behavior Education

Professional vs. non-professional One stage vs. three stage system







 Novice drivers trained in driving schools were relatively more likely to commit driving offenses than those who were in private education – in all age groups



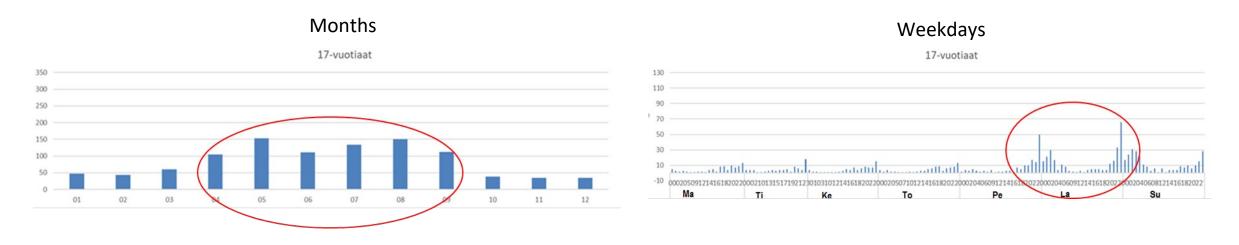
The phenomenon was similar during the three-stage education system, i.e.
before the reform

Behavior

Season, day of the week, time of the day







- The effect of the Finnish seasons on driving behavior was clearly distinguished from driving offenses
- Most driving bans are imposed in spring, summer and early autumn, i.e. at a bright time of the year
- Day of the week and time of the day for weekends and night time.
- Behavior was similar in all age groups 17, 18 and 19 years of age

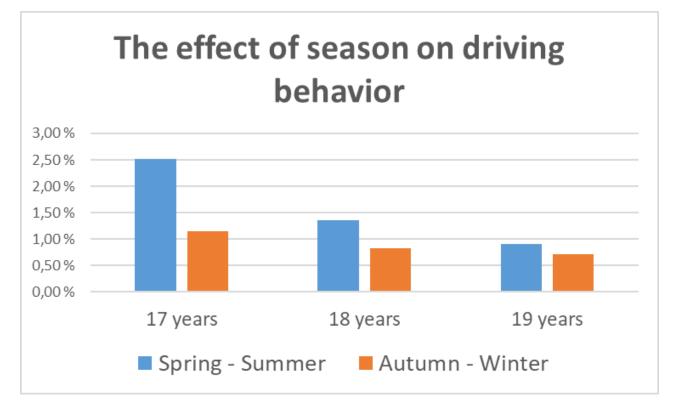




Comparison – first 6 months

	Septemper 2019 - February 2020			
	Driving license	Driving		
Age	holders	bans	Percentage	
17 years	6 657	76	1,14 %	
18 years	15 550	128	0,82 %	
19 years	1 935	14	0,72 %	

May 2020 - August 2020			
	Driving license	Driving	
Age	holders	bans	Percentage
17 years	7 298	184	2,52 %
18 years	15 070	205	1,36 %
19 years	1 871	17	0,90 %







Behavior Gender



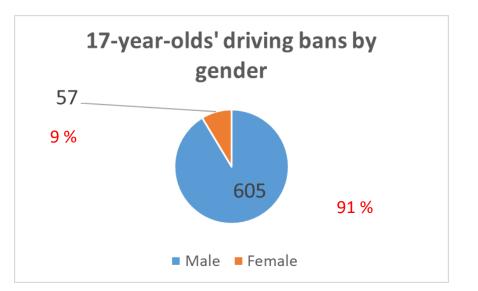


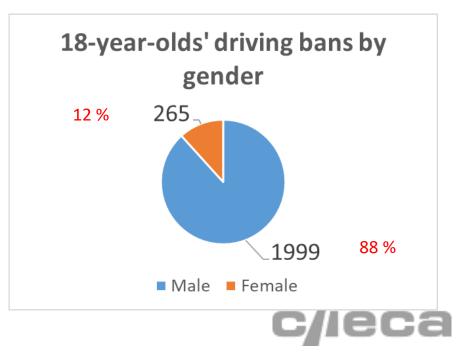
Risk behavior

- A significant issue in all age groups is the risk behavior of men.
- The proportion of men among driving offenses was almost 90 % in all age groups.
- For 17-year-olds, the importance of gender is particularly pronounced, as there were twice as many men as women in the age group of 17-year-old drivers in the study population.



	Age	Male	Female	Total	
	17	13 687	6 570	20 257	
	18	38 969	35 141	74 110	
	19	3 347	3 970	7 317	
Total		56 003	45 681	101 684	





Behavior Driving ban education





Driving ban education

- It seems that the compulsory driving ban education has a positive impact on behavior of novice driver
- 92 % of drivers banned from driving are no longer repeat offenders
- The corresponding percentage before the reform was 87 %





Driving Ban Education

A driving ban may be imposed on the person if he or she has committed one or more driving offences during this two-year period

- Analysis of your own behaviour as a driver (1 h)
 - Analysis of your own skills and actions as a driver, a description of circumstances and factors leading to violation/offence, description of determination of guilt and consequenses and feelings after the offence
 - Either in writing or a private discussion with a counselor/teacher
- Group discussion (2 h)
 - Concentrates on relevant themes based on those topics found in own analysis; impacts and feelings of oneself and family, the effect of punishment, the meaning of traffic safety and how you can contribute to that
- Finding solutions (1 h)
 - Individual plan how to prevent offence in the future
 - Either in writing or a private discussion with a counselor/teacher





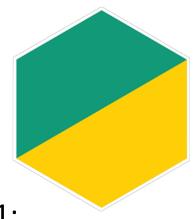
New legislation





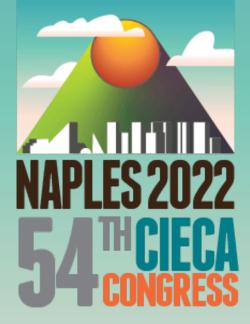
New legislation

- No age exemption permit anymore a 17 year old can apply a Class B driving license with the consent of a guardian
- Limitations:
 - Night time driving ban between 00 5 am every night
 - Only one passanger per car
 - 17 year olds identification plate in the window
- 2 more hours for risk education for everyone
- Driving ban education extended for other categories in group 1:
 - Tractor (T)
 - Moped (AM120)
 - Light quadricycle (AM121)









Thank you for your attention!

More information elina.uusitalo@traficom.fi

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