



Young Drivers The road to safety

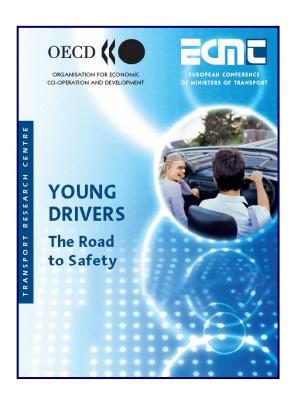


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Content of the study



- Accident analyses
- Factors explaining the high risk
- Effective countermeasures
- New measures (ITS)
- Implementation strategies





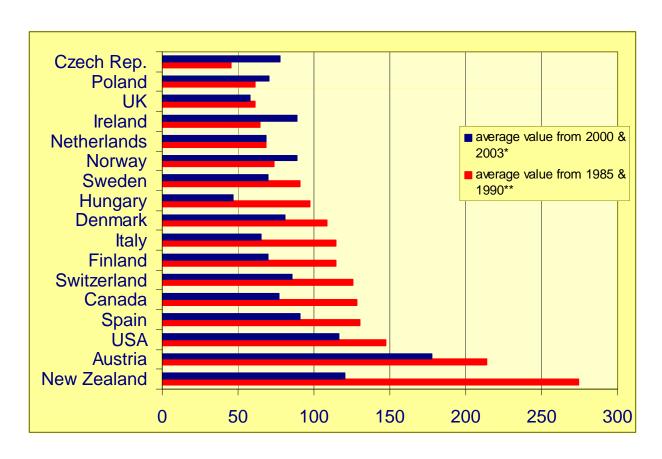
Magnitude and forecast

- Young drivers: 27% of all driver fatalities but are only 10% of the population in OECD countries
- For each killed young driver about 1.3 "others" die!
- Young driver fatalities in EU will increase as a result of economic growth and motorization, in particular in former communist countries





Countries and development







Why are these countries so different?

- Different levels of motorization and rapid increase in motorization leads to deterioration (e.g. former eastern Germany)
- General safety levels: countries safe for experienced drivers are also safe for novice drivers





Priority 0: Benefits from general road safety



Strict drink and drug driving laws and enforcement:

random breath testing

Seat belt use:

reminders

Speed management:

Camera's

Vehicle design:

Old cars less protection

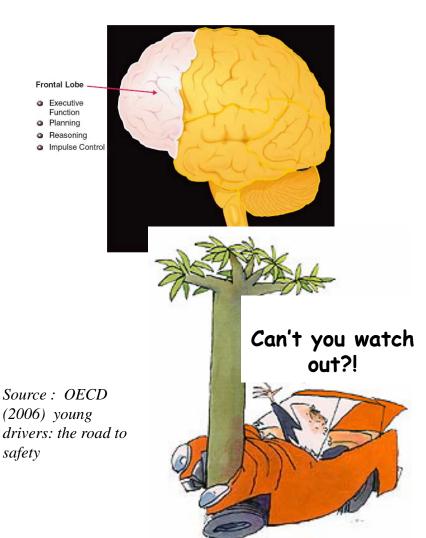
Safe infrastructure





Contributing factors

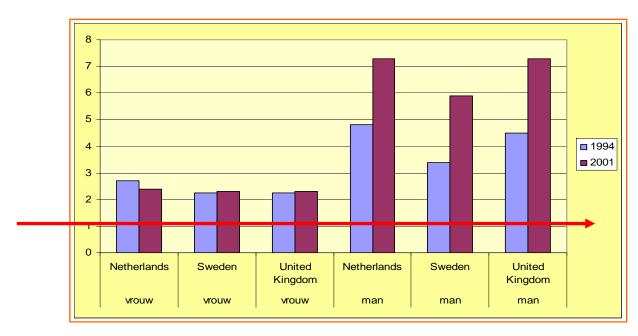
- Biological immaturity
- Lack of experience
- Poor self assessment
- High exposure to dangerous conditions







All youngsters equally dangerous?



Bron: Lynam, Nilsson, Morsink, Sexton, Twisk, Goldenbeld, & Wegman (2005) SUNflower +6: An extended study of the development of road safety in Sweden, the United Kingdom, and the Netherlands.

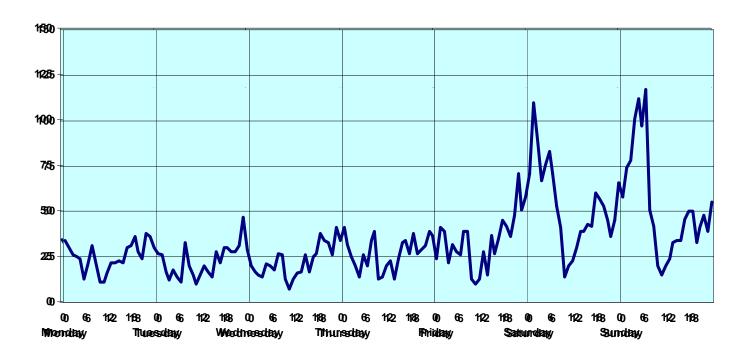
The development of accidents involvement per kilometre of inexperienced drivers (18-24) relative to that of experienced drivers (35-50) in three EU countries







All conditions equally risky?

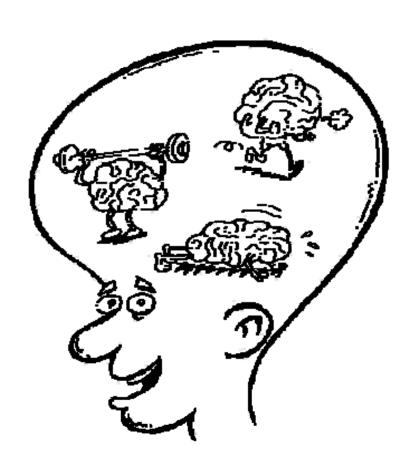


18-25 Year-Olds Killed in Road Crashes, by Hour and Day European Union 15 (minus Germany), 2004 Source: EU





Priority 1:Experience before solo driving



Pre-license training with higher levels of practice under supervised driving conditions

Practice makes perfect





Priority 2: Protection in solo driving



- Zero alcohol for young drivers (widely accepted)
- Restrictions on peer age passengers;
- Restrict night-time driving (more difficult to implement)

Restrictions can be lifted progressively as drivers gain experience





Priority 3: training and licensing



- Focus on self-evaluation and risk increasing factors
- Research benefits of driver training
- Improve driving test
- Key elements in test are key elements in training





Priority 4: new technology



- Explore, develop and test technology
- Monitoring of solo driving restrictions (smart key)
- Rewards and enforcement green box
- Giving useful driver support (not yet available)





Conclusions

- General safety measures first
- Accompanied driving as instrument to boost experience
- Restrictive measures: only zero alcohol in the short term
- Demerit systems too low in effects
- 18 will always be 18 (?)
- More (other?) measures needed to target young males