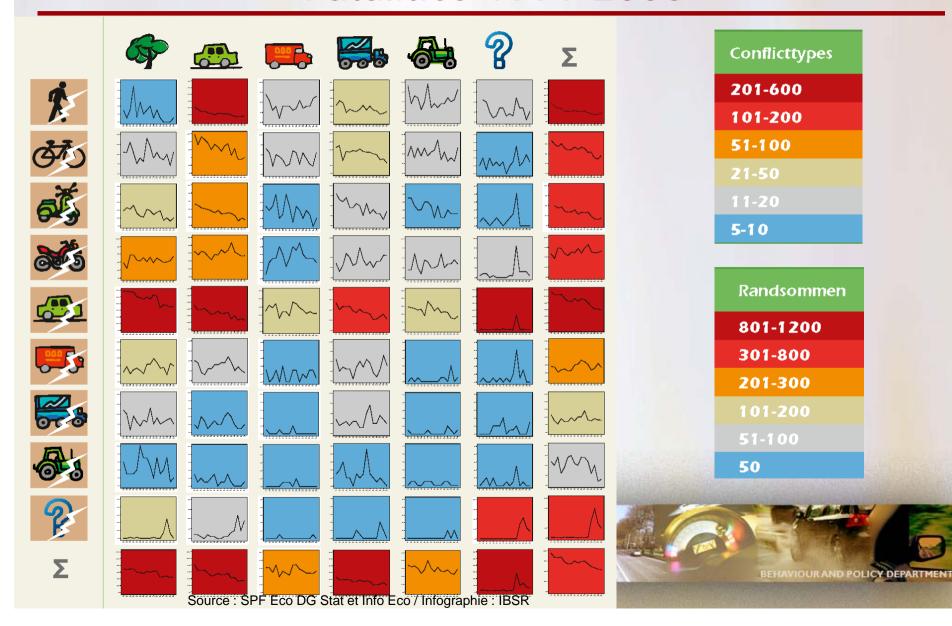


Two-wheeler accidents in Belgium

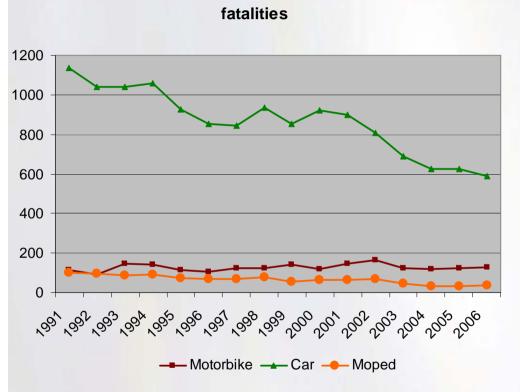
Heike Martensen & Yvan Casteels Belgian Road Safety Institute



Belgian Crash Matrix Fatalities 1991-2006



Belgian Crash Matrix 1991-2006



- Victimes among motorcyclists and moped riders constitute a substantial part of the fatalities in Belgium.
- The number of fatalities among motorcyclists is rising.
- The number of fatalities among moped riders is falling.





Development of motorcycle victims

Development in % relative to 1991



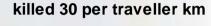
Increase in victim numbers

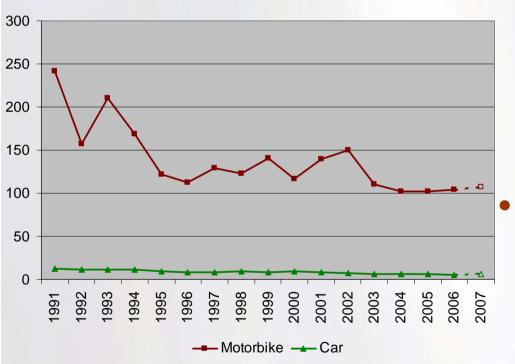
- strongest for slightly injured victims
- number of killed and severly injured victims more or less constant.
- Strong increase in vehicle km.
 - Increase in victims is smaller than increase in vehicle km.
 - > decrease of risk per km travelled.





Killed occupants/riders per km travelled





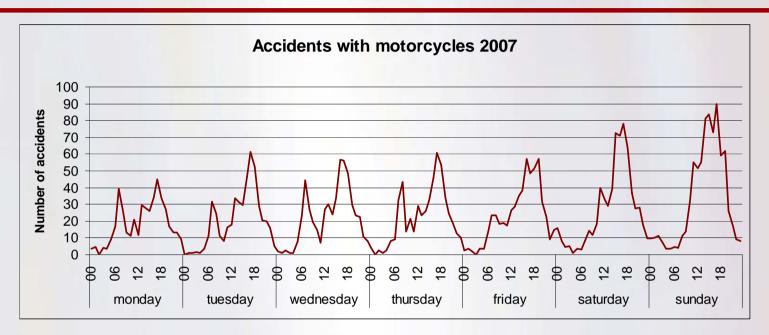
 The risk for motorcylists (fatalities per billion km travelled) is almost 20 times higher than for car occupants.

The risk has been decreasing until 2004 and seems to be stagnating now.





Time and day of the week: Motorcycles

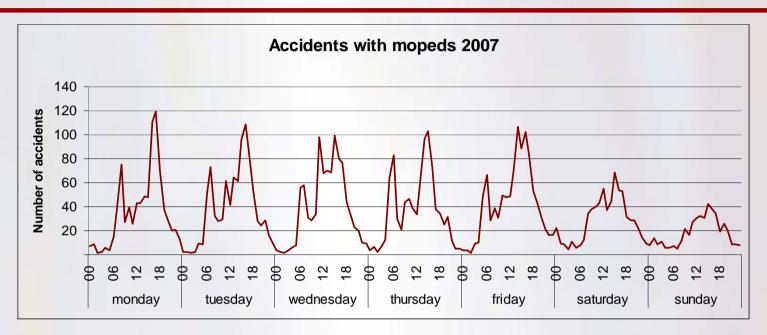


- More victims on weekend days than on weekdays.
- During the week, most victims during rush-hour (more in the evening than in the morning).
- During weekend: most victims in the afternoon.





Time and day of the week: Mopeds



- More victims on weekdays than in the weekend.
- During the week, most victims during rush-hour (school start and end?) except on wednesday afternoons.
- During weekend: most victims in the afternoon.

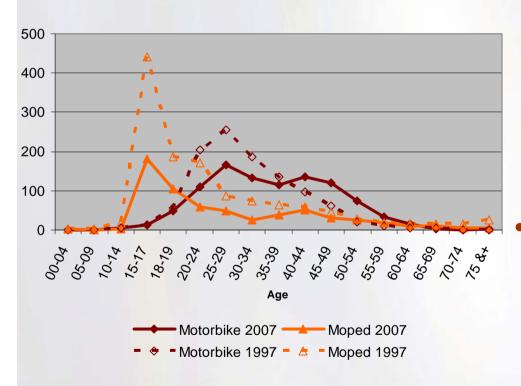




Source : SPF Eco DG Stat et Info Eco / Infographie : IBSR

Killed and seriously injured per age group

Killed & seriously injured 2007



Moped victims

- peak during teenage years and few victims among older age groups.
- decrease in numbers during last 10 years
- pattern across age groups remains the same.

Motorcycle victims

- (peak between 20 and 30.)
- decrease among young adults
- increase among older adults
- in 2007 almost even distribution between 20 and 50.

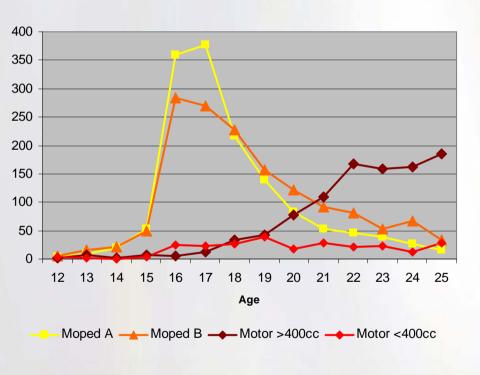




Source: SPF Eco DG Stat et Info Eco / Infographie: IBSR

Age and type of vehicle in detail

Sum of killed and seriously injured over 5 years: 2001 - 2006



- Moped A (max 25kmh): Permitted to ride without license
 - Teenagers (15-19) riding moped A constitute the majority of the moped victims.
- Moped B (max 40kmh): Theoretical and practical examen required
 - Fewer victims than moped A, same age-pattern.
- Small Motorcycles (<400cc)
 - More victims than large motorcycles between 16 and 17 but generally few victims.
- Large Motorcycles (>400cc)
 - Number of victims increases steadily from 17 years on.





Source: SPF Eco DG Stat et Info Eco / Infographie: IBSR

Children on motorbikes?



"This is me with my youngest. By now she is a bit older and I have a larger machine ... but I still remember these times fondly."

... very touching, but was it really worth the risk?

- In 2006 and 2007 in Belgium:
- 1 child (0-9 years) killed
- 6 children severly injured
- 17 children slightly injured





Source: SPF Eco DG Stat et Info Eco / Infographie: IBSR

Summary Motorcycles

- The number of motorcycle accidents and victims has been increasing.
- The risk per km travelled has been decreasing until 2004 and is now stagnating.
- Motorcycle accidents are particularly frequent in urban areas and more often on weekend days than on weekdays.
- Motorcycle accident have always involved many young people but recently there was a shift towards older riders.





Summary Mopeds

- The number of moped accidents and victims has been decreasing since 1991.
- Moped accidents involve mostly teenagers and are relatively infrequent among older persons.
- The majority of the moped accidents happens with Type A mopeds that do not require a licence to be ridden.





Thank you for your attention





Killed per km travelled in 2005

- IBSR
- Killed motorcyclists
 - -123
- Killed mopedists
 - 30
- Billions km travelled by motorcycles (FOD mobility)
 - -1.2
- Killed motorcyclists per km travelled
 - -102

- ETSC
- Killed PTW riders
 - 148

- Billions km travelled by motorcycles (Eurostat):
 - -1.083
- Killed motorcyclists per km travelled:
 - 137



