The experience of Denmark in improving pedestrian and cyclist safety

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The Danish Road Safety Council
Average killed pedestrians per million inhabitants in Latvia and Denmark 2011-2013

LV : 6 times higher risk to be killed as a pedestrian than in DK
Average killed pedestrians per million inhabitants in age groups in Latvia and Denmark 2011-2013

**LV**: Risk differs much regarding age – children and youngsters relative low. Adults and elderly 6 respectively 10 times higher risk to be killed as a pedestrian.

**DK**: Relatively low and similar risk for all – except elderly 65+.
Average killed cyclists per million inhabitants in Latvia and Denmark 2011-2013

LV : 50 % higher risk to be killed as a cyclist compared to DK
Average killed cyclists per million inhabitants in age groups in Latvia and Denmark 2011-2013

**LV**: Risk differ not much regarding age – beside children which is at lowest all others have values between 5 and 10

**DK**: Relative low and similar risk for all with values between 3-5 beside elderly 65+
Average share of killed cyclists in Urban and rural roads in Latvia and Denmark 2011-2013

LV: 80% cyclists killed on rural roads
DK: 66% cyclists killed on Urban Roads
Danish Road Safety Commission Action Plan 2013-2020 - Pedestrians

**Road engineering:**
- Speed management in urban areas
- Improved crossing facilities

**Vehicles:**
- Intelligent emergency braking system and pedestrian-friendly fronts with external airbags!

**Pedestrian visibility:**
- Use of reflective material and clothing
Danish Road Safety Commission Action Plan 2013-2020 - Cyclists

**Road engineering:**
separation of road users, cycle tracks, speed managements

**Vehicles**
Bicycle brakes and visibility, Intelligent emergency braking system, HGV’s mirrors

**Education and communication:**
5th grade cycle test, helmet use, accidents in crossings, elderly – friendly bicycles.

**Police control of cyclist behavior**
Danish Road Traffic Accident Investigation Board
In-depth study on right turning HGV’s and cyclists 2006

16 recommendations

7 Legislation/Control/sanctions
1 Road Engineering
3 Vehicle
4 Communication
1 Further research

- 15 has been realized!
Road Engineering – redesign of junctions

Withdrawn stop line – pregreen for cyclists

Pilot project with “cycle box”
Vehicles – improvements

New truck designs: Lower position of driver, wind screen and transparent doors

Communication to foreign drivers

Watch out for cyclists!
Achtung - Radfahrer!
Example Best Practice Denmark: Accidents between right turning HGV and cyclists
The key to success:

Excellent cooperation between authorities, private sector, unions and NGO’s.
Challenges in the future

- E-bikes
- Hospital data
- Expanding use of bicycles in urban roads with benefits for health, environment - and safety?
Thanks for your attention and all the best for Latvian pedestrians and cyclist.