

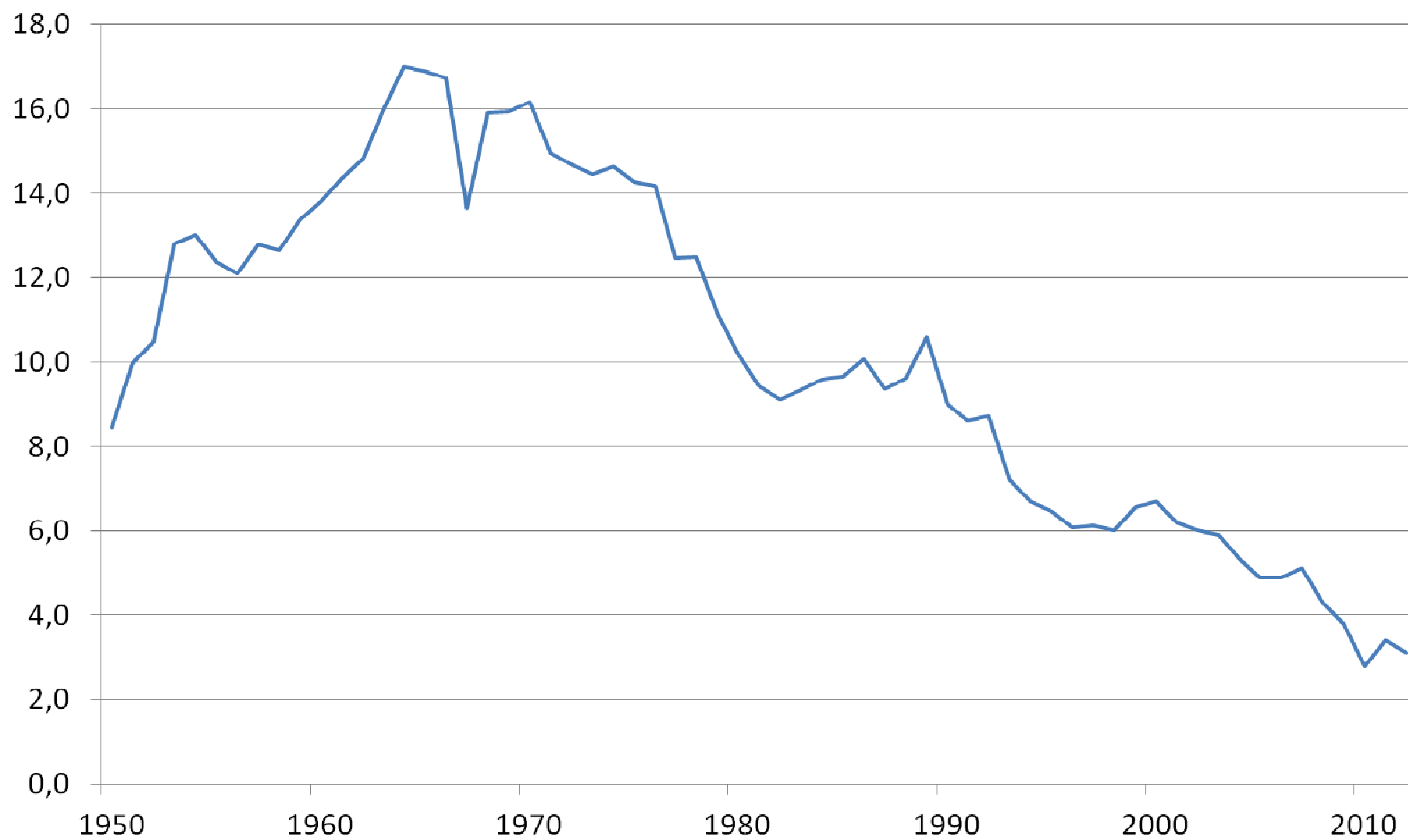
# Road safety PIN talk in the UK

**Claes Tingvall**

**Anders Lie**

Swedish Transport Administration

## Fatalities/100 000 inhabitants

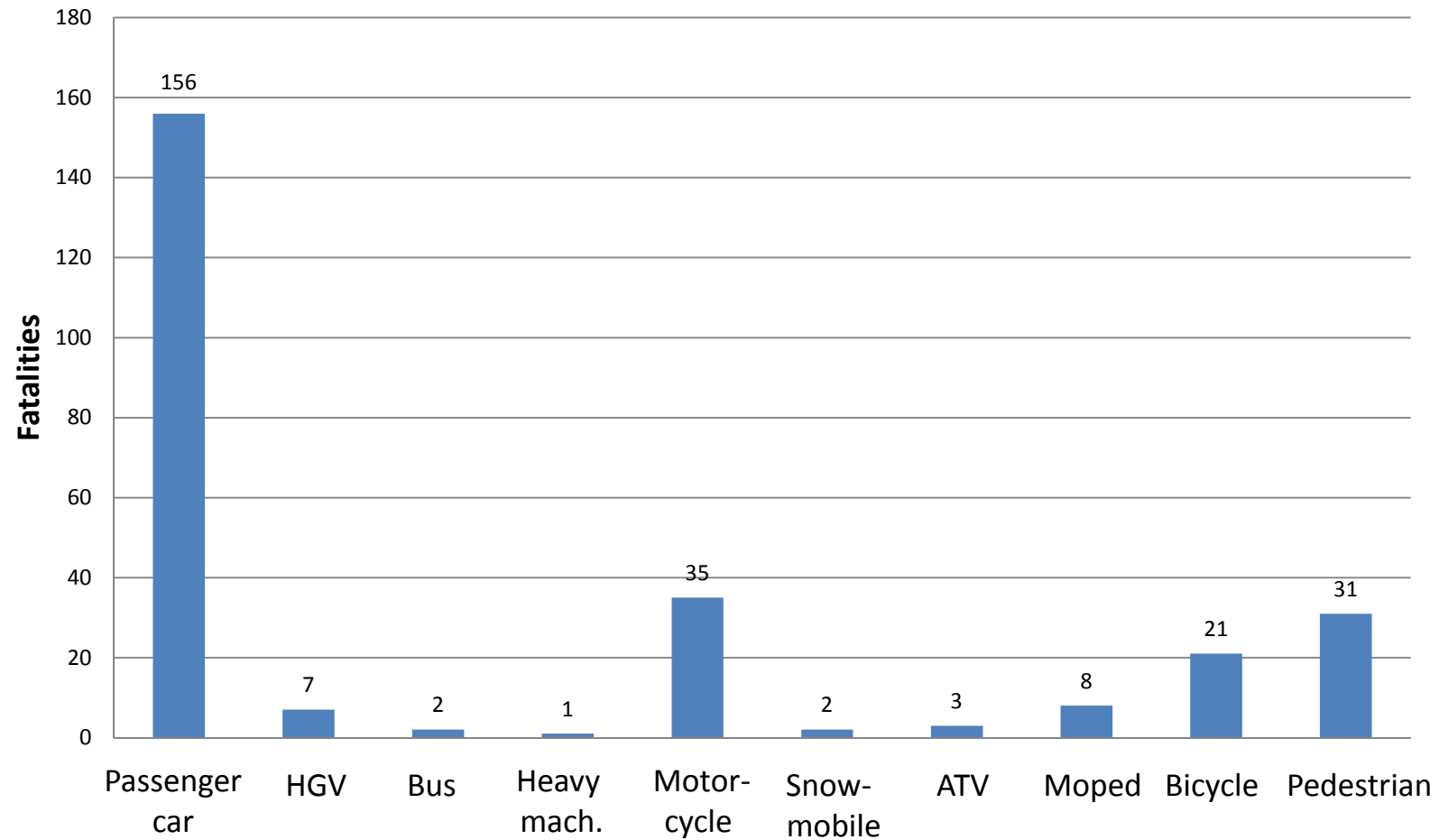


# Our approach

- Safety Culture
- Organizational behaviour
- Safety management
- System design
- Evidence based
- Planning for the future

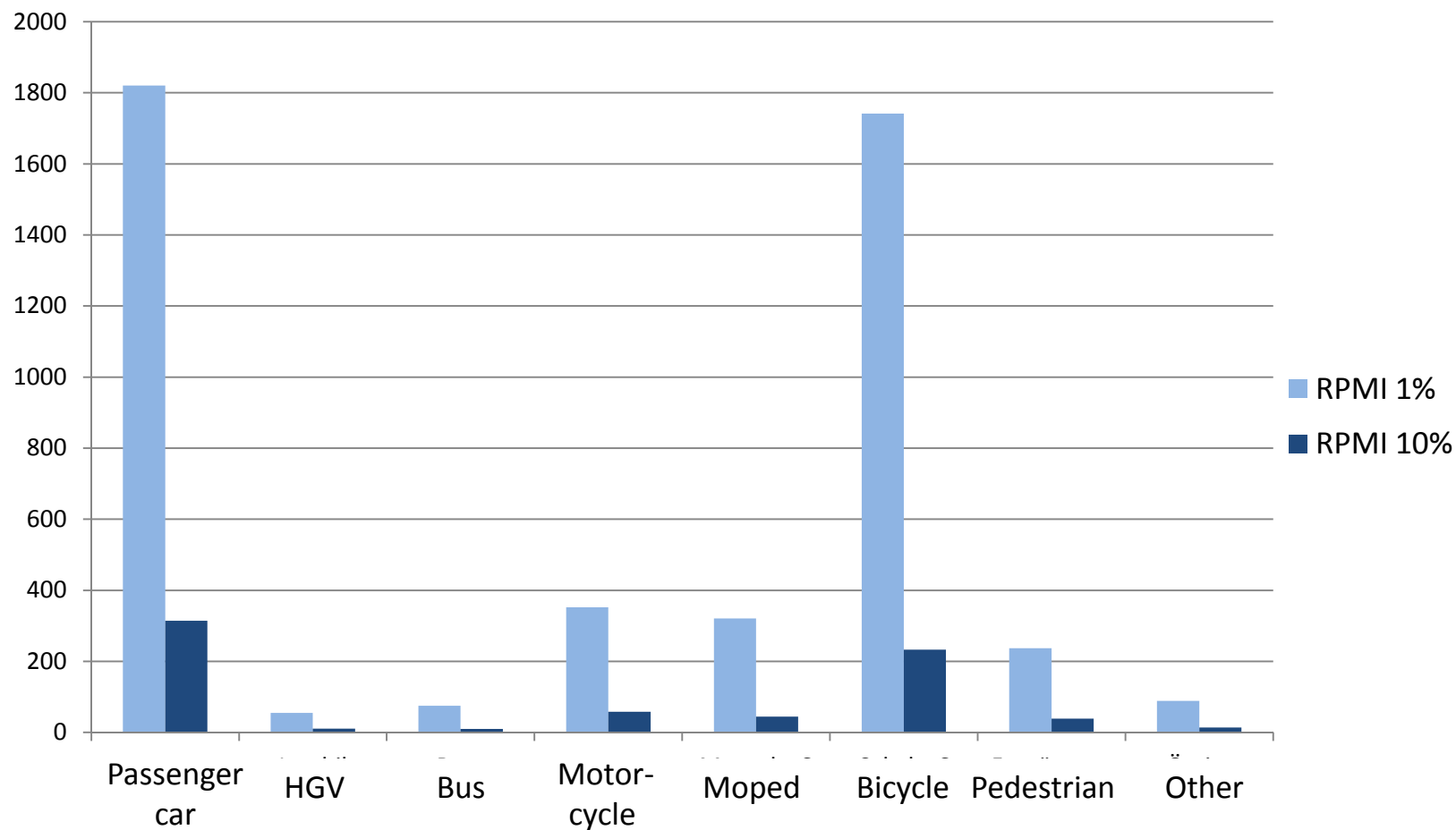
# Baseline for 2010

266 fatalities excluding suicide



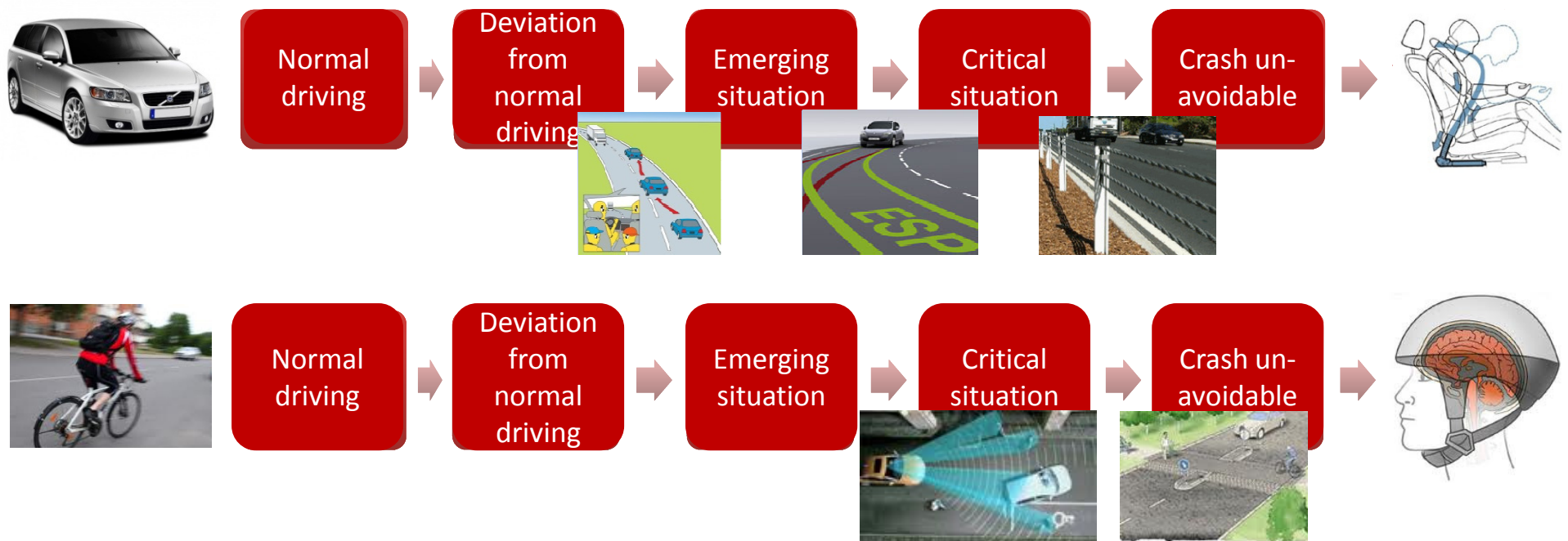
# Baseline for 2010

4690 persons with permanent medical impairment  $\geq 1\%$  (RPMI1%), 724 with RPMI10%



## 2. Analysis of fatal crashes

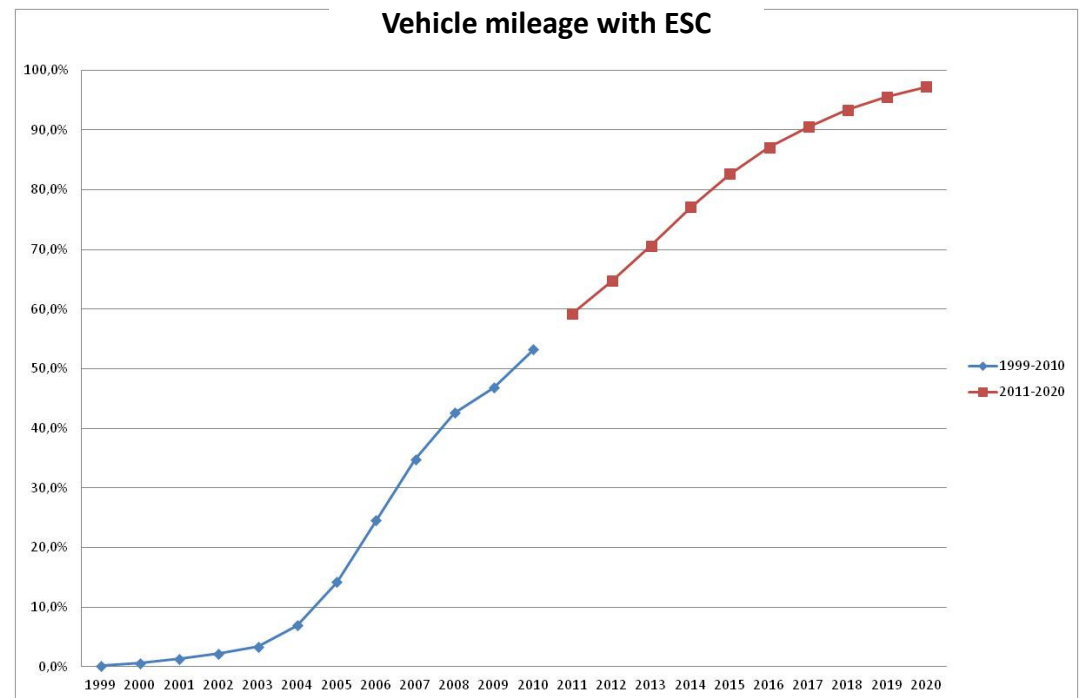
- STA's in-depth studies
- Every fatal crash in 2010 was investigated, case by case
- Chain of events in each crash was analyzed separately



# Deeper knowledge about SPI by 2020

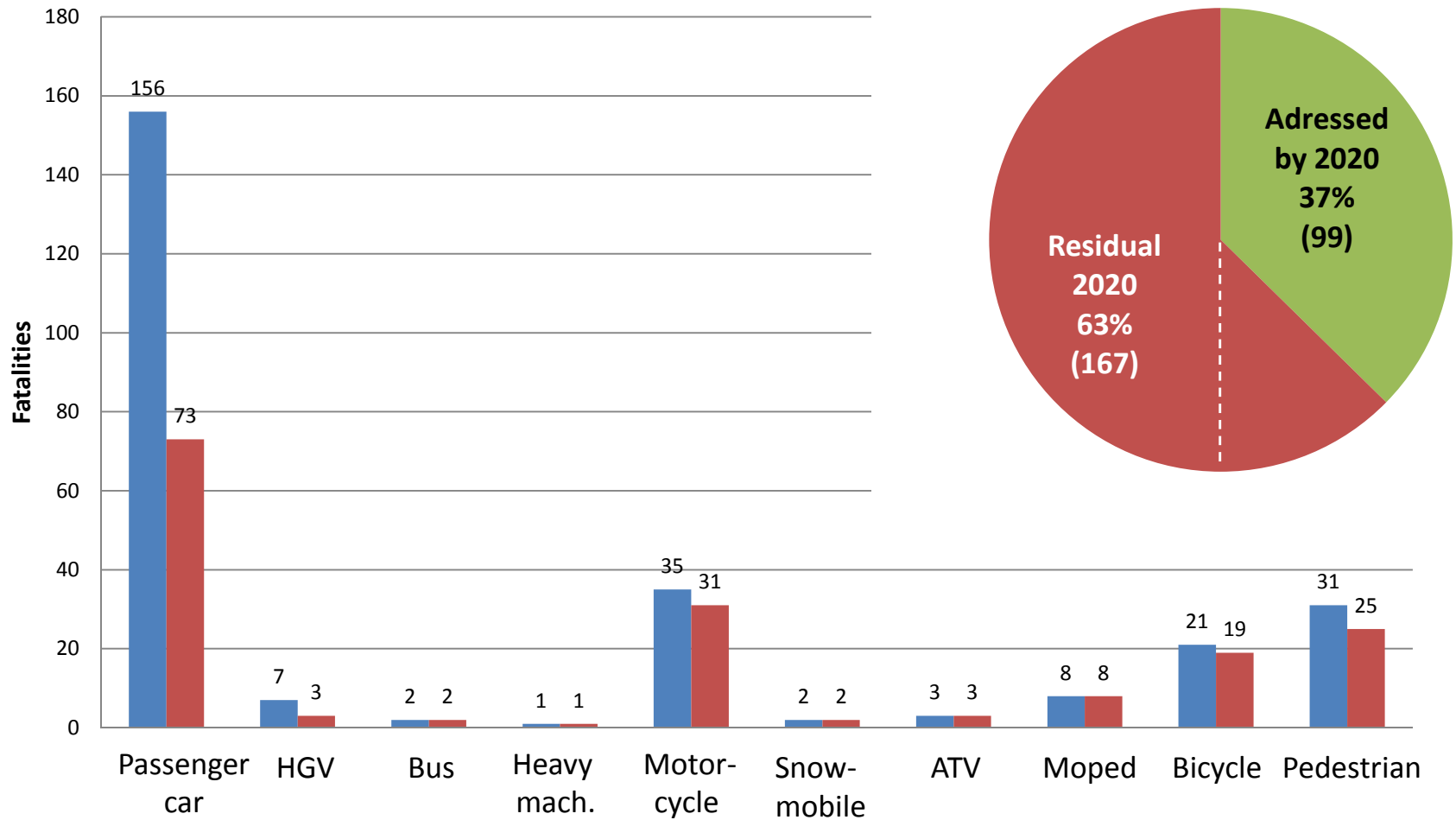
It is possible to make reasonable predictions for 2020 for different SPI

- Safe vehicles  
ie ESC, AEB, ABS mc
- Safe infrastructure  
ie median barrier



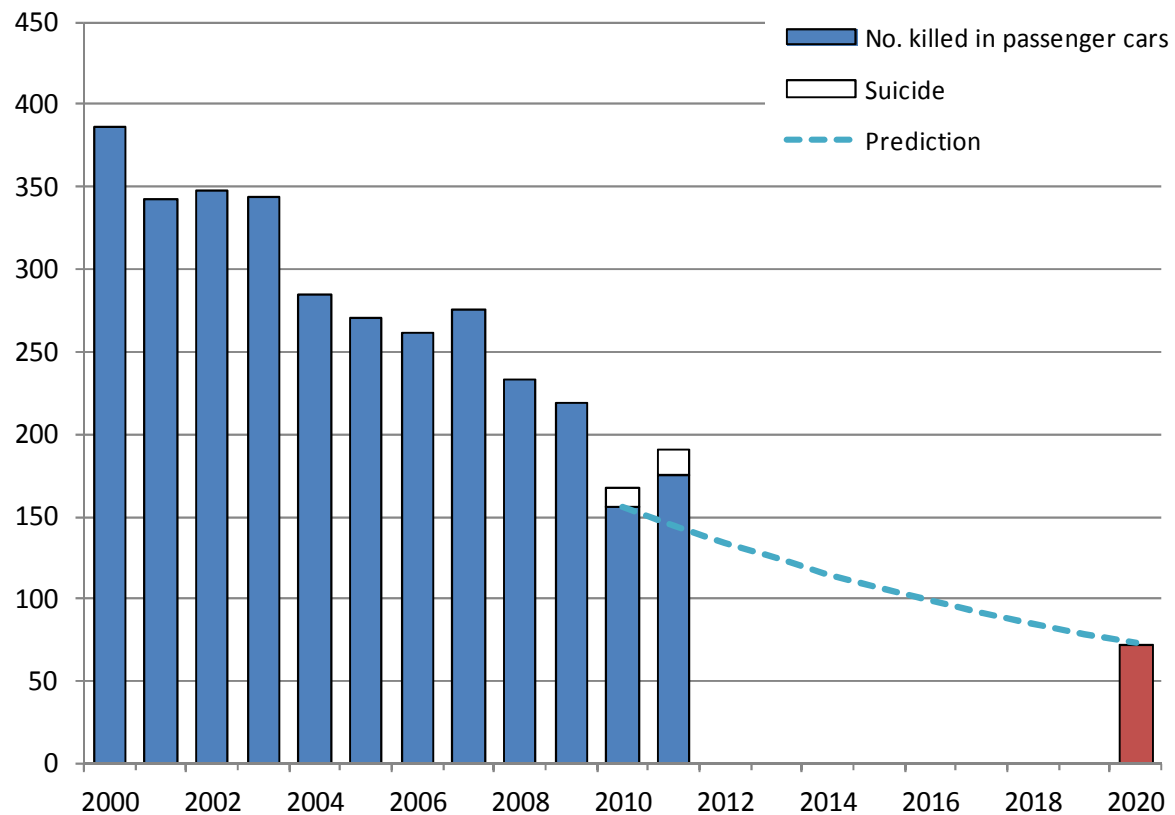
# Prediction 2020 based on assumptions

## Fatalities




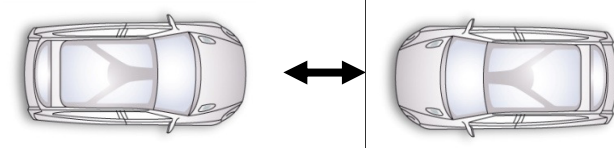



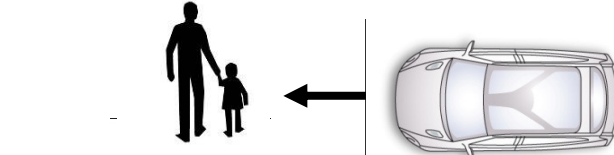



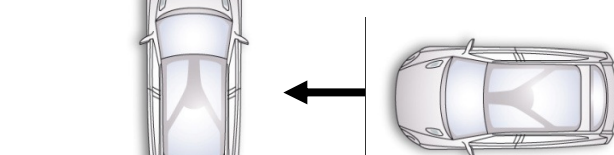



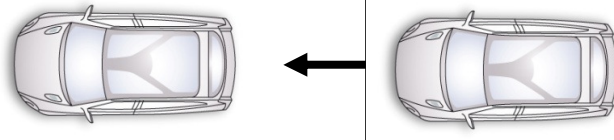



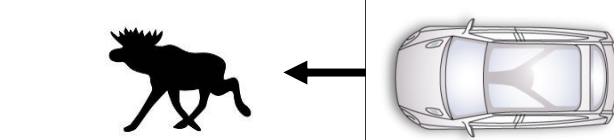




# Prediction of reduced fatalities in passenger cars



# New Safety Performance Indicators

SPI	Baseline 2007	Baseline 2010	Earlier target	New target
1. Speed compliance, national road network	43 %	Ca 43 %	80 %	80%
2. Speed compliance, municipal road network	52 %	Ca 52 %	80 %	80%
3. Sober driving	99,71 %	99,74 %	99,90 %	99,9% / 100 %
4. Belt use	96 %	96 %	99 %	99 %
5. Helmet use				
- Bicycle	27 %	27 %	70 %	65 %
- Moped				
6. Safe passenger cars	20 %	35 %	Not defined	80%
7. Safe motorcycles (ABS)	9 %	18 %	Not defined	70 %
8. Safe roads	50 %	67 %	75 %	95 %
9. Safe passages for vulnerable road users	Ca 25 %	Unknown	Not defined	
10. Safe road surfaces for cyclists and mopeds		Unknown	Not defined	

		Head-on	 + 
		Pedestrians	 + 
		Side	 + 
		Rear-end	 + 
		Large animals	 + 

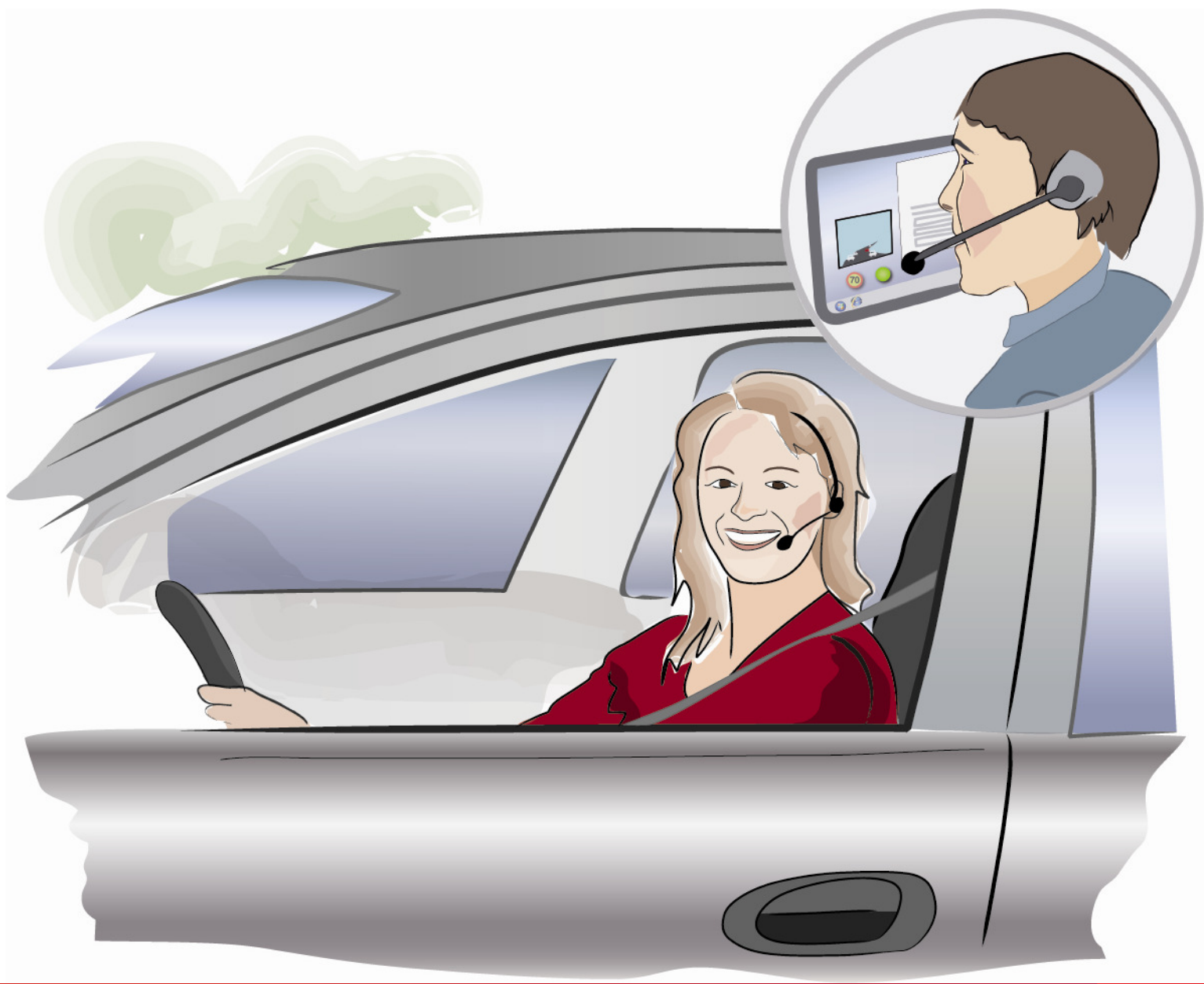




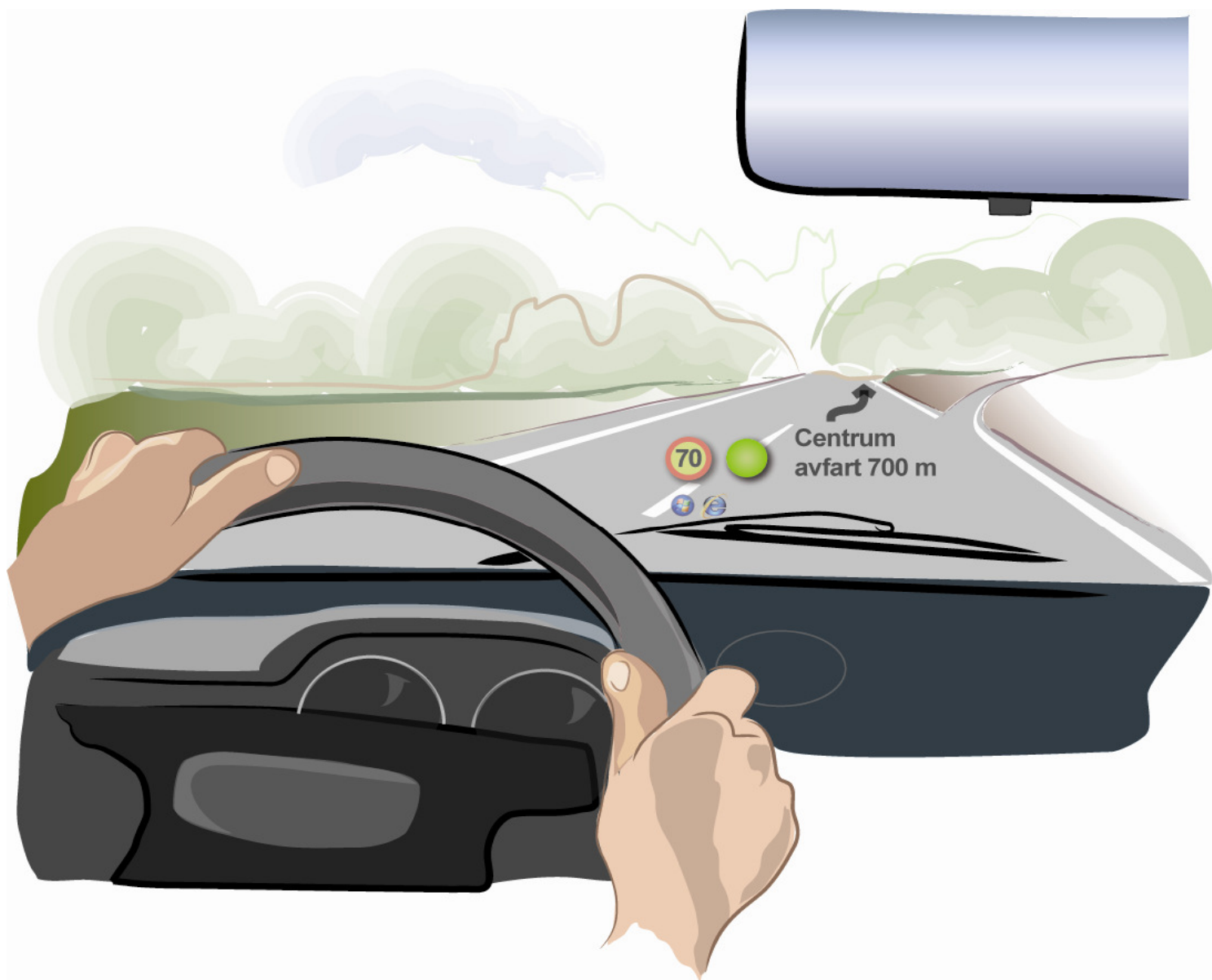


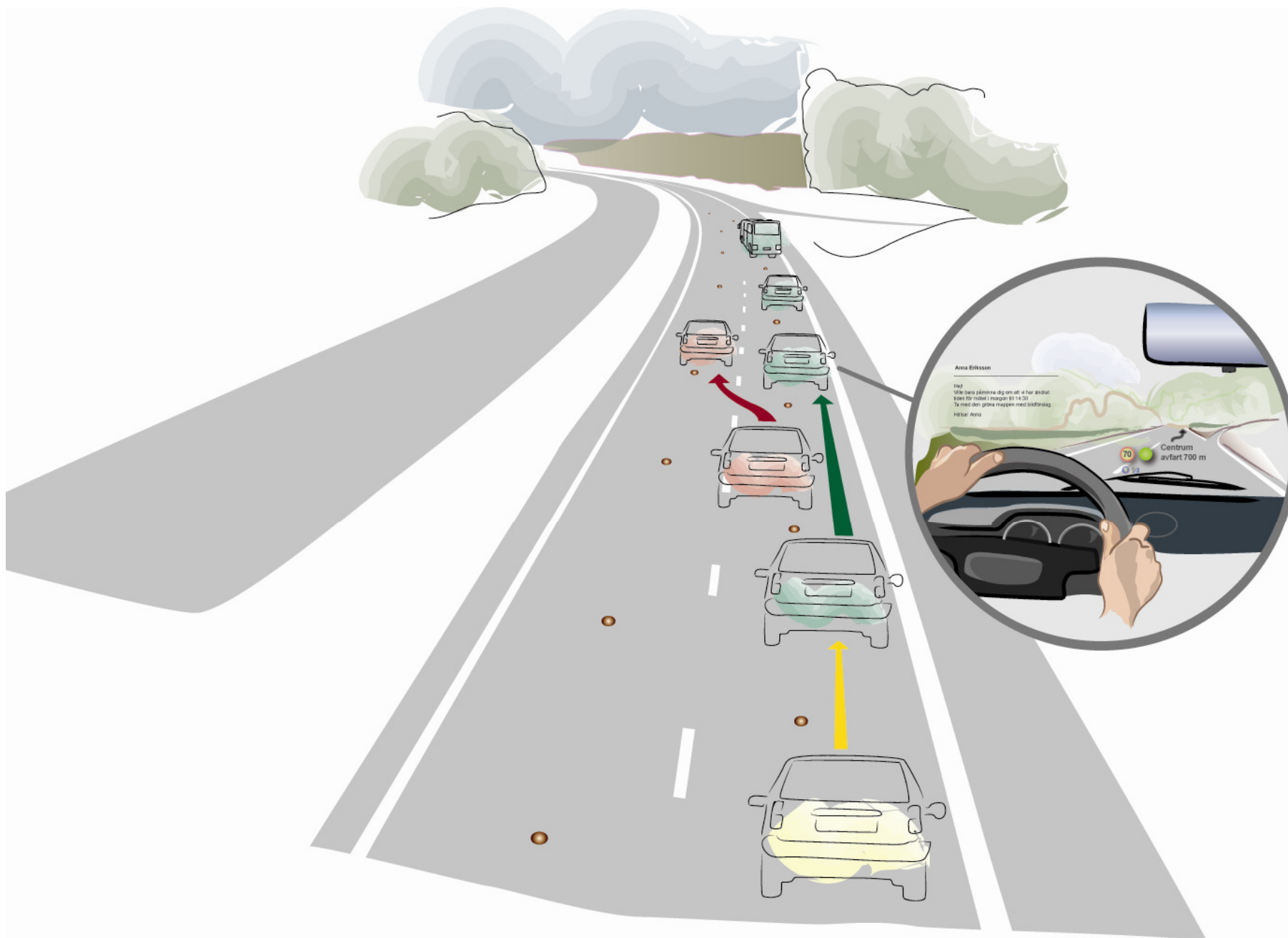


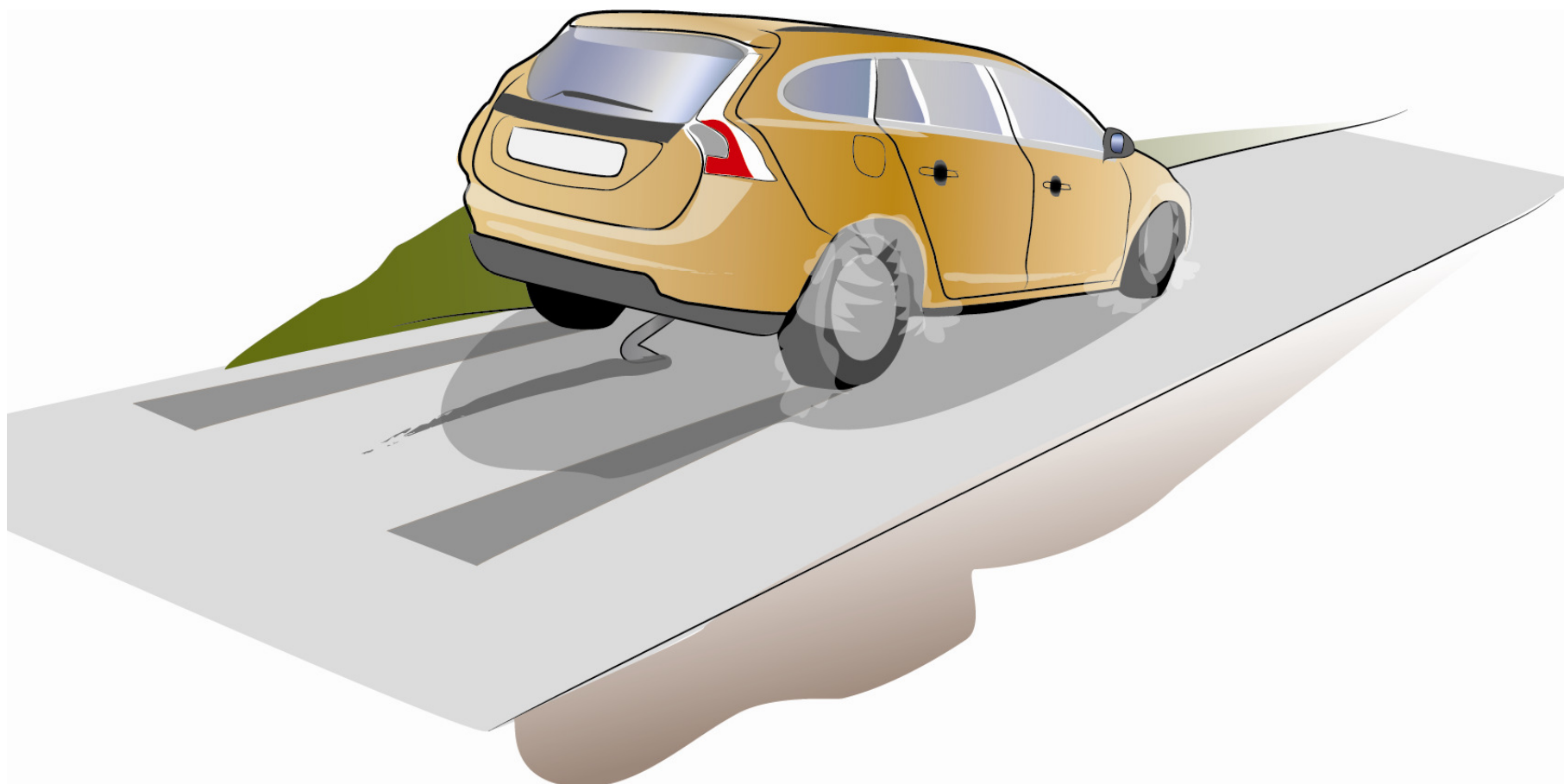












## ■ Examples of technologies

New and advanced safety technologies are considerably broadening the automotive safety landscape. Euro NCAP Advanced aims to provide car buyers with clear guidance about the safety benefits offered by these new technologies. Here is a list of some advanced safety systems recently developed by car manufacturers.

### Blind Spot Monitoring



### Lane Support Systems



### Speed Alert Systems

