MAKING WALKING AND CYCLING ON EUROPE’S ROADS SAFER
Volvo Safety Days
8/11/ 2017

Presented by Katja Kircher (VTI) on behalf of ETSC

Graziella.jost@etsc.eu
www.etsc.eu
@etsc_eu
ETSC Funders
ETSC Activities

Monitoring EU transport safety policy

Road Safety Performance Index (PIN)

YEARS
YOUNG ROAD USERS

REVIVE
IMPROVING POST-COLLISION RESPONSE AND EMERGENCY CARE IN EUROPE

SAFE & SOBER

SMART
SOBER MOBILITY ACROSS ROAD TRANSPORT

iSAFER
INTELLIGENT SPEED ASSISTANCE FOR EUROPEAN ROADS

PRAISE
Work-Related Road Safety

DRUG DRIVING
2014-2016: bad years for road safety
25,670 people died in road traffic in the EU28 in 2016
135,000* seriously injured in road traffic in the EU in 2014

*Estimation for the European Commission based on seriously injured as MAIS3+
THE EU TARGET IS AT STAKE

-19%
-50%
ETSC PIN Flash 24 Towards Safer Transport of Goods and Passengers in Europe

- 4,250 people lost their lives in collisions involving heavy goods vehicles (HGVs) in 2011.

Occupants of HGVs make 12% of the deaths in collisions involving a truck.

51% are car occupants
27% are VRUs
HGV deaths by distance travelled

- deaths per distance all vehicles
- deaths per distance HGV

<table>
<thead>
<tr>
<th>Country</th>
<th>AT</th>
<th>BE</th>
<th>EE</th>
<th>FR</th>
<th>IL</th>
<th>LV</th>
<th>PL</th>
<th>SE</th>
<th>CH</th>
<th>GB</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>8</td>
<td>9</td>
<td>11</td>
<td>12</td>
<td>15</td>
<td>19</td>
<td>17</td>
<td>20</td>
<td>27</td>
<td>61</td>
</tr>
</tbody>
</table>
% of HGV deaths involving a nearside turn

AT: 5.1%
BE: 6.9%
DK: 11.3%
FR: 3.2%
IT*: 0.6%
NL: 17.7%
ES: 1.1%
CH: 14.6%
GB: 4.6%
HGVs exceeding speed limit on rural roads
HGVs exceeding speed limit on urban roads


AT30 AT50 AT70 FR50 IL50 SE50 GB48 GB64
7,600 People died in road traffic while cycling or walking in the EU in 2013.
Pedestrians and cyclists account for 29% of all road deaths in the EU

ETSC PIN Flash 29 (2015), Making walking and cycling safer on Europe’s roads
People who walk or cycle are not getting a fair share of improvements in road safety

Reductions in road deaths 2002-2012

-53%

-41%

-37%

ETSC PIN Flash 29 (2015), Making walking and cycling safer on Europe’s roads
69% of pedestrians and 56% of cyclists are killed on urban roads.

Average of the years 2011-2013 for the EU as a whole.

ETSC PIN Flash 29 (2015), Making walking and cycling safer on Europe’s roads.
94% of pedestrians and 78% of cyclists are killed in collisions with (a) motorised vehicle(s).

Average of the years 2011-2013 for the EU as a whole

ETSC PIN Flash 29 (2015), Making walking and cycling safer on Europe’s roads
Safety = road users + infrastructure + vehicle design
EU VEHICLE SAFETY STANDARDS

- Figures would have been significantly higher without vehicle safety measures already taken by the EU

- **Vehicle safety standards**: exclusive competence (Article 114 of the EU Treaty)

- Last revision of the EU common vehicle safety rules in 2009 with the General Safety Regulation 661/2009 and Pedestrian Protection Regulation 78/2009

- The European Commission is considering making **24 new vehicle safety measures mandatory**, **ISA** is one of them
Safer vehicles good for cyclists and pedestrians

- Overridable assisting ISA on all new vehicles default ON
- Alcohol interlocks on professional vehicles and a standard interface for all vehicles
- Autonomous Emergency Braking (AEB) including AEB-PCD
- Event Data Recorders (EDR)
- Improved pedestrian protection offered by cars
- Safer truck fronts and sides
Safer trucks good for pedestrians and cyclists

- Fit all new vehicles (including turning HGVs) with AEB systems able to detect VRUs
- Fit all new vehicles (including trucks) with overridable assisting ISA
- Direct & enhanced vision for HGVs
- Indicator lights along side of the trucks/trailers
INTELLIGENT SPEED ASSISTANCE

WHAT IS INTELLIGENT SPEED ASSISTANCE?

1. Car receives position information via GPS and current speed limit from a digital map. Can also be combined with video camera sign recognition.

2. Speed limit is displayed on the dashboard.

3. Car helps driver not to speed when speed limit is reached.

Driver can override system by pushing harder on accelerator.

ETSC movie ‘Fit Safety as Standard’
https://www.youtube.com/watch?v=SoZLrZTnUGs&t=26s
INTELLIGENT SPEED ASSISTANCE

ISA COULD CUT COLLISIONS BY 30% AND DEATHS BY 20%

- Cars fitted with ISA could reduce CO2 emissions by 8%
- EuroNCAP awards extra points to cars fitted with ISA
- 78% of road users 64% of car drivers say they support in-vehicle speed limiters (SATRE 2012)

+ ISA helps drivers avoid speeding tickets!
All new London busses fitted with ISA

Mayor of London set out a 'Vision Zero' approach: no one to be killed in or by a London bus by 2030.

Bus Safety Programme: all new buses will be have to be fitted with mandatory ISA

- TfL provides the Digital Speed Limit Map
- TfL buy~900 buses/year. The whole fleet of 9000 buses will be renewed in 10 years.
- Technology for the ISA trial was provided by Zeta Automotive (part of Arriva group).
Find out more: etsc.eu