Safety Performance Indicators in Sweden

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System designers are responsible for the design of the road transport system and are thereby responsible for the level of safety within the entire system.

If the users fail to comply with these rules, the system designers are required to take the necessary further steps to counteract people being killed or injured.

Road users are responsible for following the rules for using the road transport system set by the system designers.

Vision Zero – ethical platform
Vision Zero – Design principles

- Every crash should be survivable
  - People will always make mistakes
  - The consequence of the mistake should be manageable

Relative risk of death:
- 100
- 10
- 1
A Safe Road Transport System

Safe Speed

Safe Vehicle
Criteria:
• Five-star rated by Euro NCAP
• Electronic Stability Control

Safe Road
Criteria:
• Four-star rated by Euro RAP

Safe Road User
Criteria:
• Wears a seat belt
• Follows the speed limits
• Sober

Biomechanical limits that the road user can tolerate without sustaining severe injuries
# Safety Performance Indicators

<table>
<thead>
<tr>
<th>Indicator</th>
<th>Starting point</th>
<th>2014</th>
<th>Target for 2020</th>
<th>Trend</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of road traffic fatalities</td>
<td>440</td>
<td>270</td>
<td>220</td>
<td>In line with the required trend</td>
</tr>
<tr>
<td>Number of seriously injured</td>
<td>5 400</td>
<td>4 900</td>
<td>4 000</td>
<td>Not in line with the required trend</td>
</tr>
<tr>
<td>Share of traffic volume within speed limits, national road network</td>
<td>43 %</td>
<td>46 %</td>
<td>80 %</td>
<td>Not in line with the required trend</td>
</tr>
<tr>
<td>Share of traffic volume within speed limits, municipal road network</td>
<td>64 %</td>
<td>63 %</td>
<td>80 %</td>
<td>Not in line with the required trend</td>
</tr>
<tr>
<td>Share of traffic volume with sober drivers</td>
<td>99,71 %</td>
<td>99,78%</td>
<td>99,90%</td>
<td>Not in line with the required trend</td>
</tr>
<tr>
<td>Share of front seat passenger car occupants wearing a seat belt</td>
<td>96 %</td>
<td>97 %</td>
<td>99 %</td>
<td>In line with the required trend</td>
</tr>
<tr>
<td>Share of cyclists wearing a helmet</td>
<td>27 %</td>
<td>37 %</td>
<td>70 %</td>
<td>Not in line with the required trend</td>
</tr>
<tr>
<td>Share of moped riders using a helmet correctly</td>
<td>96 %</td>
<td>96 %</td>
<td>99 %</td>
<td>Not in line with the required trend</td>
</tr>
<tr>
<td>Share of new passenger cars with the highest Euro NCAP score</td>
<td>20 %</td>
<td>57 %</td>
<td>80 %</td>
<td>In line with the required trend</td>
</tr>
<tr>
<td>Share of safe motorcycles (ABS)</td>
<td>9 %</td>
<td>39 %</td>
<td>70 %</td>
<td>In line with the required trend</td>
</tr>
<tr>
<td>Share of traffic volume on roads with speed limit above 80 km/h and median barriers</td>
<td>50 %</td>
<td>73 %</td>
<td>75 %</td>
<td>In line with the required trend</td>
</tr>
<tr>
<td>Share of safe pedestrian, cycle and moped crossings on main municipal road networks</td>
<td>19 %</td>
<td>25 %</td>
<td>Not defined</td>
<td>Cannot be assessed</td>
</tr>
<tr>
<td>Share of municipalities with good-quality maintenance of pedestrian and cycle paths</td>
<td>15 %</td>
<td>No measurement in 2014</td>
<td>70 %</td>
<td>Starting year for the measurement in 2013, no measurement in 2014 – cannot be assessed</td>
</tr>
</tbody>
</table>
259 fatalities
Vision Zero - driving forces for change

Road safety interventions + Methods to make things happen =

Zero deaths, zero injuries
Methods to make things happen

- Policies
- Management systems
- ISO39001
- Regulations
- ...

- Traffic safety cameras
- Median barriers
- Insurance incentives
- Audits
- NCAP
- Demonstrations
- ...

Final outcome in terms of health losses:
- Fatalities
- Seriously injured
Management by objectives

Expert groups for strategy development:

- Safe speeds
- Sober traffic
- VRUs (pedestrians and bicyclists)
- VRUs (PTW and ATV)
- Safe cars
- Safe rural streets and urban roads
Management by objectives

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Summary

Vision Zero – ethical framework

Design principles

Safe system

Safety Performance Indicators

Management by objectives

Strategies for actions
Thank you for your attention!

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