Collection of Road Safety KPIs in the EU

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Together with:
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The Baseline project

- **Objectives**
  A common methodology for the collection of Key Performance Indicators (KPIs) for road safety in the European Union

- **Partners**
  VIAS (BE), SWOV (NL), NTUA (EL)

- **Duration of the project**
  24 months (July 2020 – July 2022)
Background

- The EC has put forward a new approach to EU road safety policy for the decade 2021-2030, highlighting also the need of establishing a range of road safety KPIs at European level.

- KPIs are directly related to the prevention of road accident fatalities and serious injuries.

- Several Member States already collect indicators for their national policies, in order to measure progress and effectiveness of road safety initiatives.

- Baseline project aims to:
  - assist authorities in the collection and harmonized reporting of KPIs for road safety and
  - contribute to building the capacity of those MS that have not yet collected the relevant data.
### EU Key Performance Indicators

<table>
<thead>
<tr>
<th>KPI area</th>
<th>KPI definition (European Commission 2019)</th>
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<tbody>
<tr>
<td><strong>Speed</strong></td>
<td>Percentage of vehicles travelling within the speed limit</td>
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<td><strong>Safety belt</strong></td>
<td>Percentage of vehicle occupants using the safety belt or child restraint system correctly</td>
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<td><strong>Protective equipment</strong></td>
<td>Percentage of riders of PTWs and bicycles wearing a protective helmet</td>
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<tr>
<td><strong>Alcohol</strong></td>
<td>Percentage of drivers driving within the legal limit for blood alcohol content (BAC)</td>
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<td><strong>Distraction</strong></td>
<td>Percentage of drivers not using a handheld mobile device</td>
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<td><strong>Vehicle Safety</strong></td>
<td>Percentage of passenger cars with a Euro NCAP safety rating equal or above a threshold</td>
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<td><strong>Infrastructure</strong></td>
<td>Percentage of distance driven over roads with a rating above an agreed threshold</td>
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<tr>
<td><strong>Post-crash care</strong></td>
<td>Time elapsed between the emergency call following a collision resulting in personal injury and the arrival at the scene of the collision of the emergency services</td>
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Baseline Methodology

- Develop a **common methodology** concerning data collection and analysis for the estimation of the KPIs
- Design and develop common KPI **datafiles**
- Member States undertake the fieldwork for the **data collection** with the assistance of a Coordination Team
- Member States **calculate the KPIs** with the assistance of a Coordination Team
- Harmonized **KPI datafiles and statistics** for the EU countries will be delivered to the EC
Scientific and Social Impact

- Continuous and systematic monitoring of road safety performance allows for a **better understanding of accident causalities**

- **Comparable KPIs** among the EU countries will be collected for the first time, allowing for further statistical analyses and understanding of road safety phenomenon

- The EU KPIs will constitute the **basis for monitoring and evaluating the road safety progress** at national and EU level over the period 2021-2030

- KPIs will contribute to the **proactive treatment of road safety problem** and the implementation of the proper measures and policies in order to prevent casualties
Future Challenges

- Systematic collection of KPIs in the future will contribute to a better evaluation of the road safety performance and progress made over time.

- KPI data in higher detail should be collected at EU level, so that more critical and hidden road safety properties are revealed and more appropriate solutions are identified.

- The use of new technologies in KPI data collection can be explored in the future, taking into account all the potential opportunities and challenges.
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