



National Technical University of Athens  
Road Safety Observatory

Online  
workshop  
in the framework of

6TH UN GLOBAL ROAD SAFETY WEEK  
17 - 23 May 2021



Streets for Life

#Love30



Thursday  
20 May  
2021

Innovation in Road Safety Research

# Collection of Road Safety KPIs in the EU

**Christina Gonidi**

Transportation Engineer, Researcher

Together with:  
Katerina Folla, George Yannis



# 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

KPI area	KPI definition (European Commission 2019)
<b>Speed</b>	Percentage of vehicles travelling within the speed limit
<b>Safety belt</b>	Percentage of vehicle occupants using the safety belt or child restraint system correctly
<b>Protective equipment</b>	Percentage of riders of PTWs and bicycles wearing a protective helmet
<b>Alcohol</b>	Percentage of drivers driving within the legal limit for blood alcohol content (BAC)
<b>Distraction</b>	Percentage of drivers not using a handheld mobile device
<b>Vehicle Safety</b>	Percentage of passenger cars with a Euro NCAP safety rating equal or above a threshold
<b>Infrastructure</b>	Percentage of distance driven over roads with a rating above an agreed threshold
<b>Post-crash care</b>	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



# 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





National Technical University of Athens  
Road Safety Observatory

Online  
workshop  
in the framework of

6TH UN GLOBAL ROAD SAFETY WEEK  
17 - 23 May 2021



Streets for Life

#Love30



Thursday  
20 May  
2021

Innovation in Road Safety Research

# Collection of Road Safety KPIs in the EU

**Christina Gonidi**

Transportation Engineer, Researcher

Together with:  
Katerina Folla, George Yannis

