



#### Road Infrastructure Safety KPIs

January 16, 2023

## Network-wide Road Safety Assessment

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## The EU-funded Baseline project

- > The **Baseline project** aims to:
  - assist authorities of EU Member States 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
- > 18 EU Member States participated in the project
- Each MS provided 1-8 KPIs, based on a common methodological framework:
  - 1. KPI Speed
  - 2. KPI Safety belt
  - 3. KPI Protective equipment
  - 4. KPI Alcohol
  - 5. KPI Distraction
  - 6. KPI Vehicle safety
  - 7. KPI Infrastructure
  - 8. KPI Post-crash care



## Infrastructure KPI – Work in progress

**Common definition of the KPI** on Road Infrastructure Safety:

- Not available during Baseline project National definitions/methodologies for road infrastructure safety assessment were used
- Under preparation within the framework of the EU Directive 2019/1936
  EGRIS - DG Move Study on a EU Methodology for Network-wide Road Infrastructure Safety Assessment





## **Baseline versions of Infrastructure KPI**

**KPI (1)**: Percentage of the distance driven over roads with a safety rating above an agreed threshold

**KPI (2)**: Percentage of the road network length of roads with a safety rating above an agreed threshold

**KPI (3)**: Percentage of the distance driven over roads either with opposite traffic separation (by barrier or area) or with a speed limit equal to or lower than xx km/h in relation to total distance travelled [on all roads]

**KPI (4)**: Percentage of the road network length of roads either with opposite traffic separation (by barrier or area) or with a speed limit equal to or lower than xx km/h in relation to the total road network length.



## **Baseline Results**

- 6 EU MS provided data for the KPI on infrastructure safety based on national practices.
- > All countries provided data on rural roads.
- Sweden, Finland, Portugal and Lithuania also provided data for motorways. All KPIs for motorways had a value of 100%.
- Finland was the only country to provide data for urban areas.
- KPIs based on distance travelled have higher values than those based on the length of the road network.
- ➤ Results to be made public soon (February 2023)

#### KPIs for rural roads

	Finland	Latvia	Lithuania	Malta	Portugal	Sweden
KPI(1)	70,4%					
KPI(2)	48,7%					
KPI(3)*	31,3%					64,3%
KPI(4)*	19,0%	4,4%	53,77%	39,2%	27,8%	

\* Speed limit threshold for KPI(3) and KPI(4) was 70 km/h

# EGRIS - DG Move RISM Methodology



# RISM Methodology for the Network-wide Assessment of Roads

The outcome of the adopted RISM methodology is the classification of a network's road sections to one out of five classes, considering the section's level of safety:

Very High Priority	High Priority	Intermediate Priority	Low Priority	Very Low Priority	
(class 5)	(class 4)	(class 3)	(class 2)	(class 1)	

- Given the scope of the RISM methodology, KPIs for the road infrastructure safety can be developed for:
  - Urban motorways
  - Rural motorways
  - Primary divided roads
  - Primary undivided roads
- The KPIs for the road infrastructure safety may describe the percentage of the road network length within each class or percentage of the distance driven over roads within each class.

## Conclusion

- Baseline results demonstrated the lack of road infrastructure safety KPI in several countries and the need for a systematic and common approach across EU.
- The implementation of the developed EU common methodology for network-wide road infrastructure safety assessment will allow the development of road infrastructure safety KPIs in the EU countries for four road types: urban and rural motorways, primary divided and undivided roads.
- Trendline (the next phase of the KPI project 2023-2025) will use the data collected to produce such KPIs







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