

Exploring the development of an open data platform for road safety KPIs

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Presentation outline

Introduction (1)

**Road safety performance
indicators in the EU (3)**

**Open data platform for
road safety KPIs (4)**

Opportunities and barriers (2)

Conclusions (1)

01

02

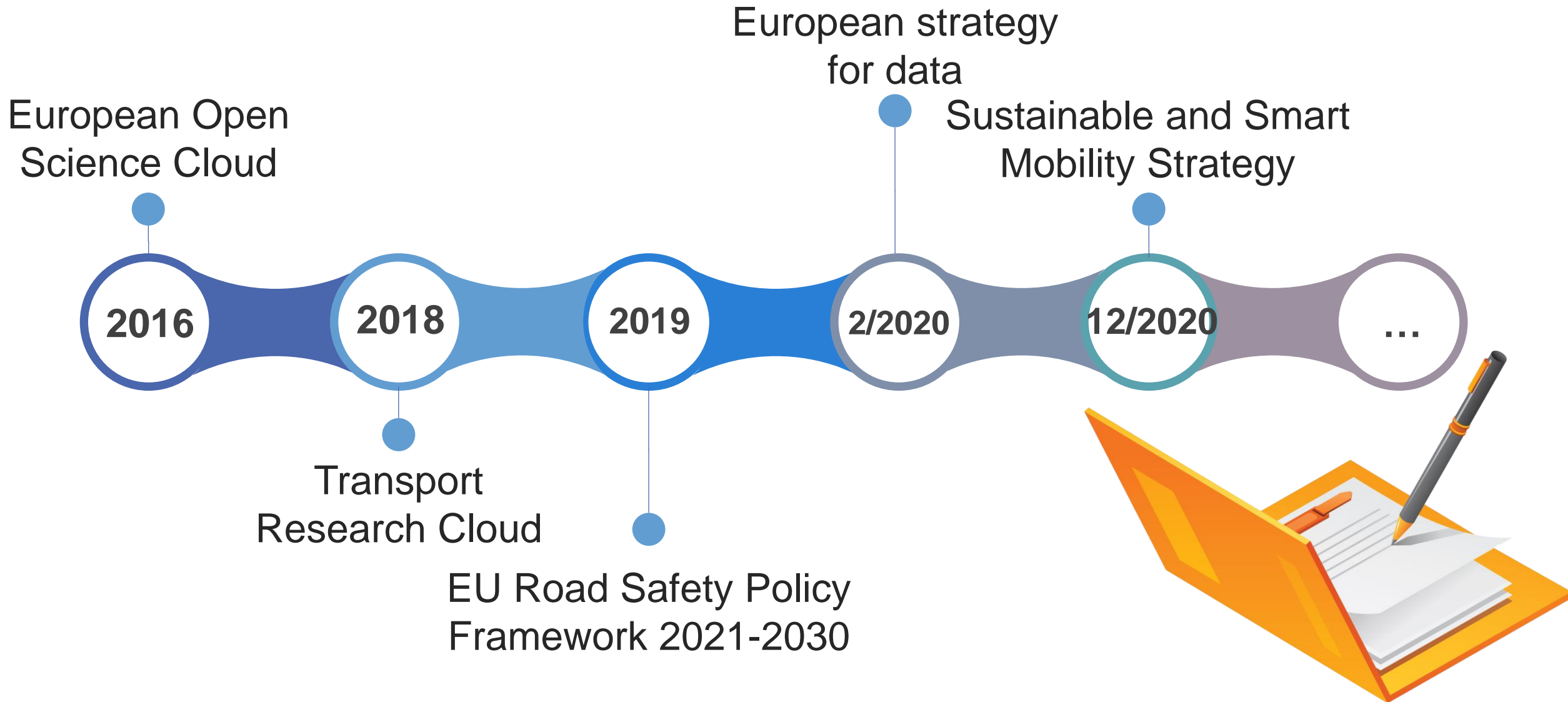
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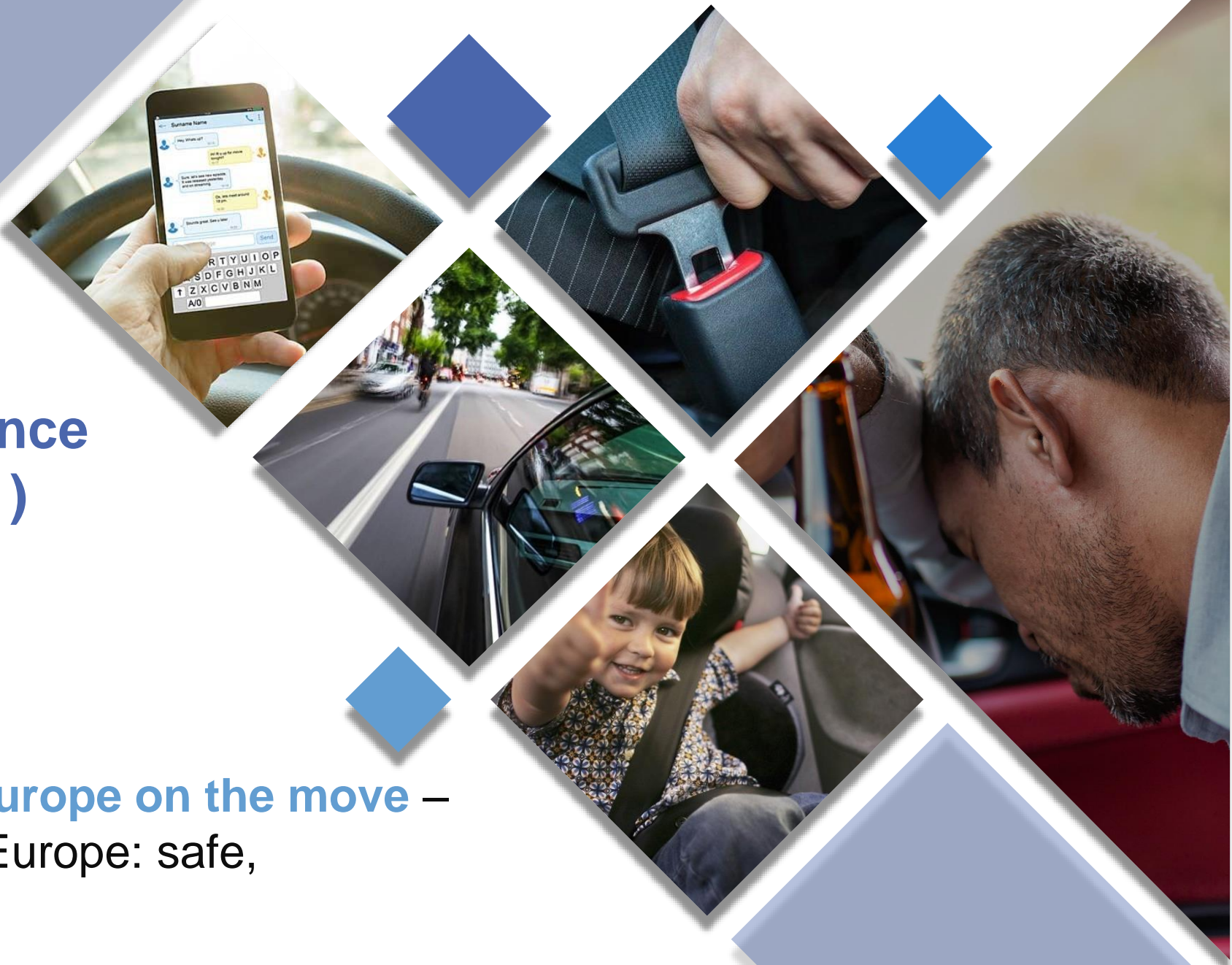


Introduction (1)

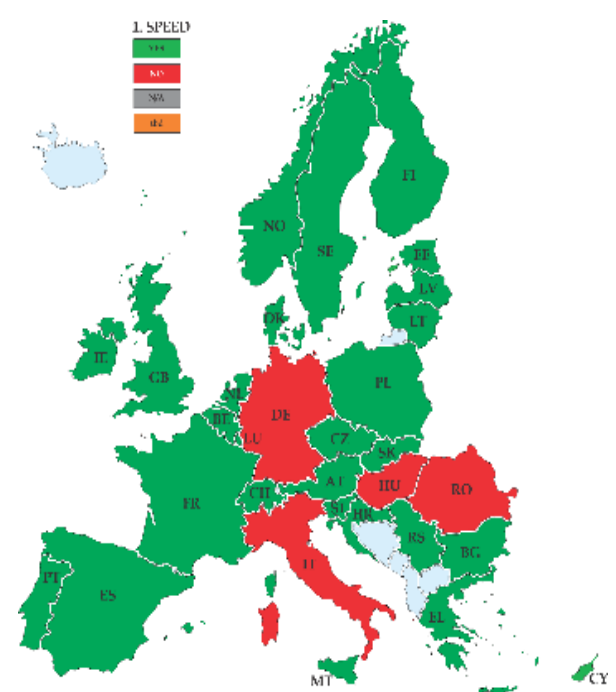


Road safety performance indicators in the EU (1)

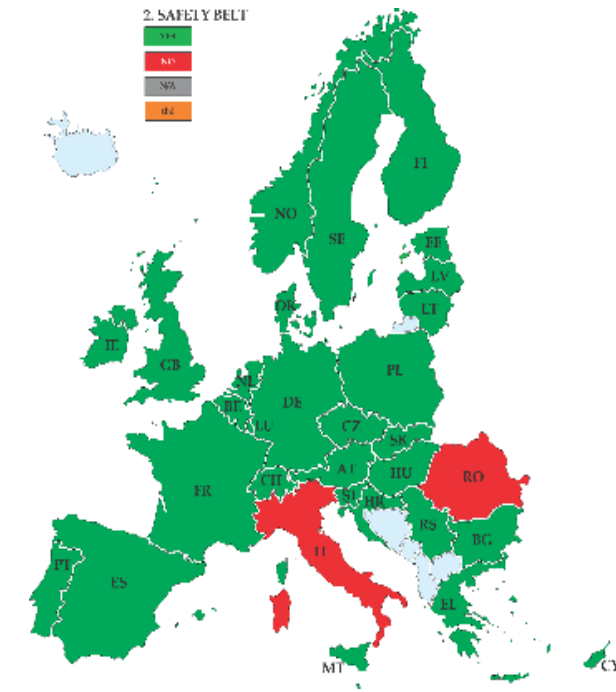
- **ETSC** (2001)
- **SafetyNET** (2008)
- **DaCOTA** (2010-2013)
- **SafeFITS** (2018)
- **3rd Mobility Package Europe on the move** – Sustainable Mobility for Europe: safe, connected, and clean



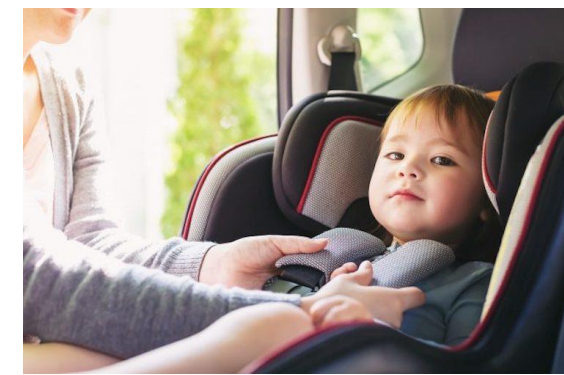
Availability maps of KPIs in the European countries (2)



% of vehicles travelling within the speed limit



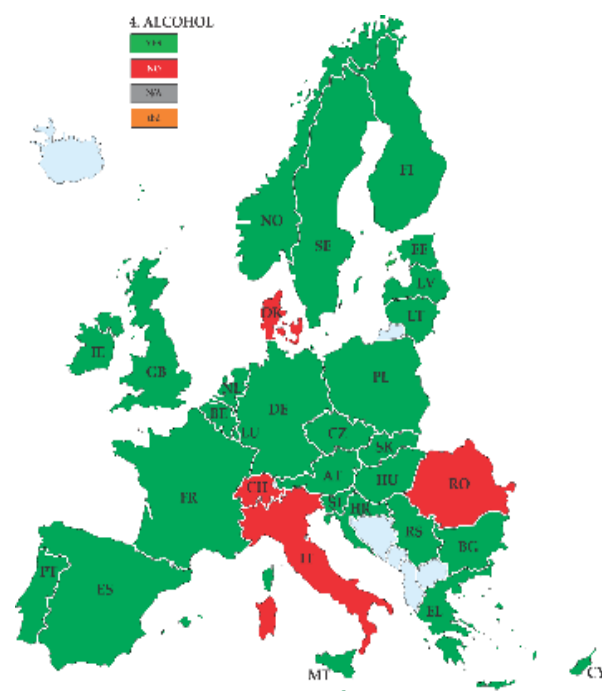
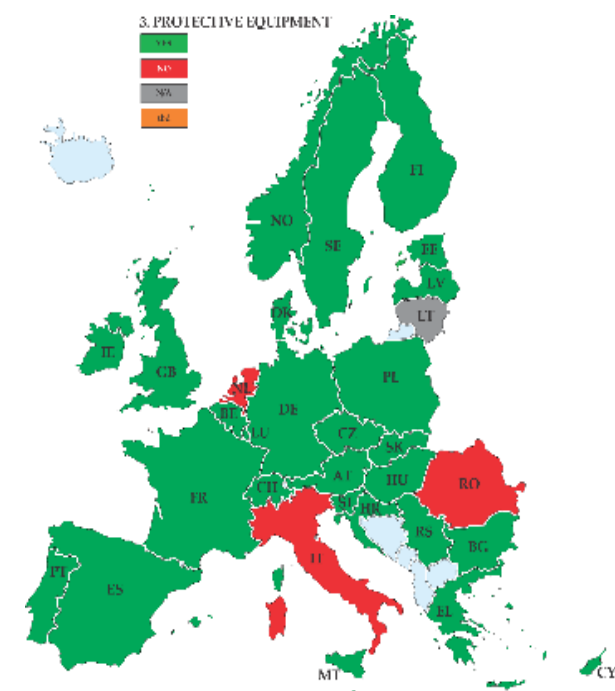
% of vehicle occupants using the safety belt or CRS correctly



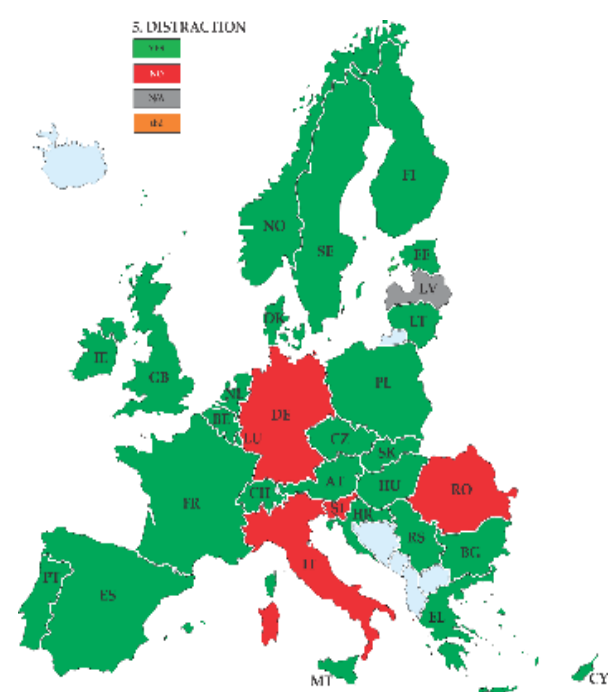
% of riders of powered two wheelers and bicycles wearing a protective helmet



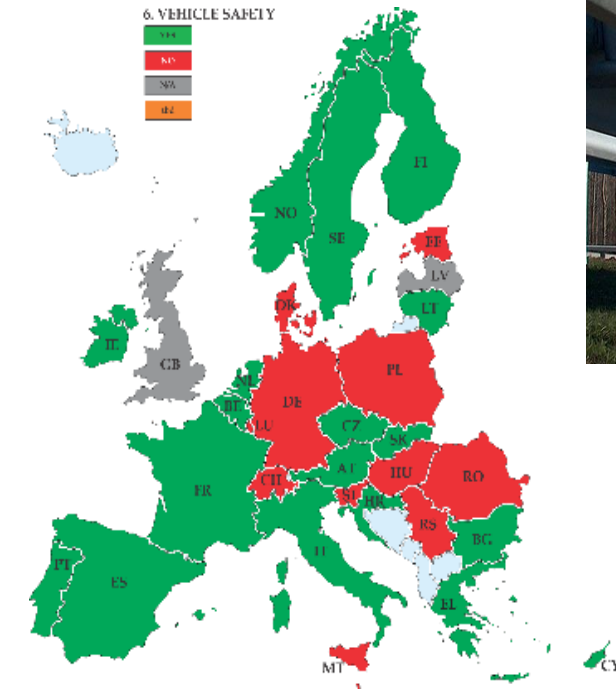
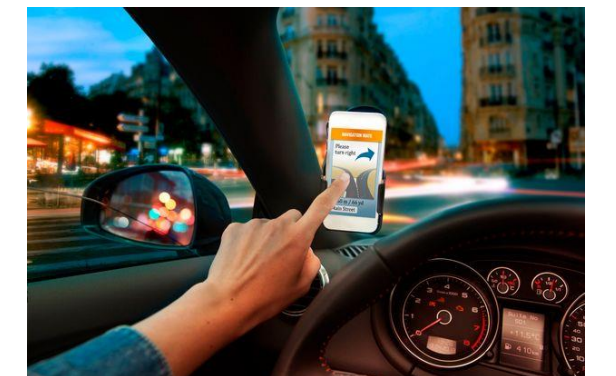
% of drivers driving within the legal limit for blood alcohol content (BAC)



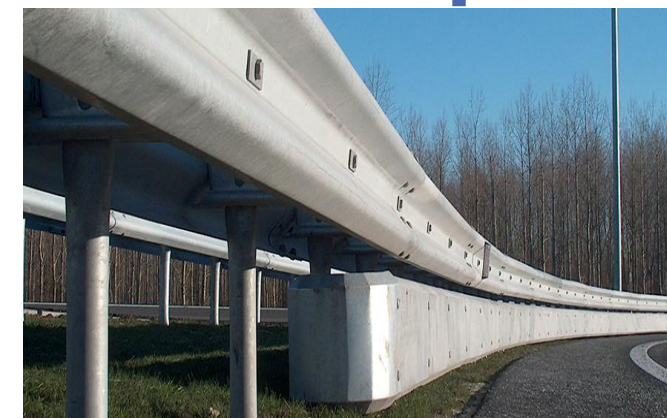
Availability maps of KPIs in the European countries (3)



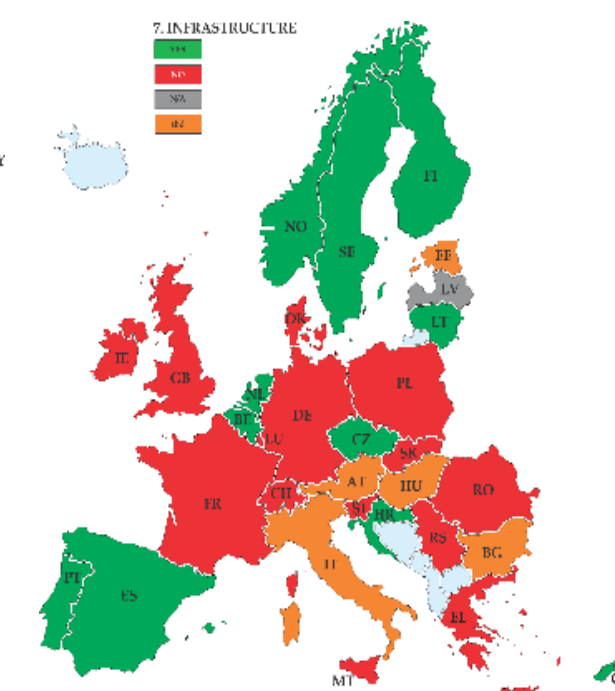
% of drivers NOT using a handheld mobile device



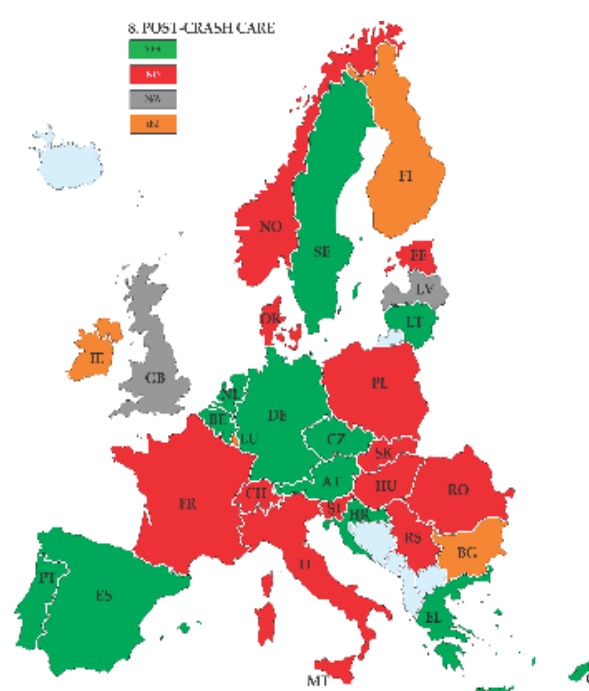
% of new passenger cars with a EuroNCAP safety rating equal or above a predefined threshold (e.g., 4-star)



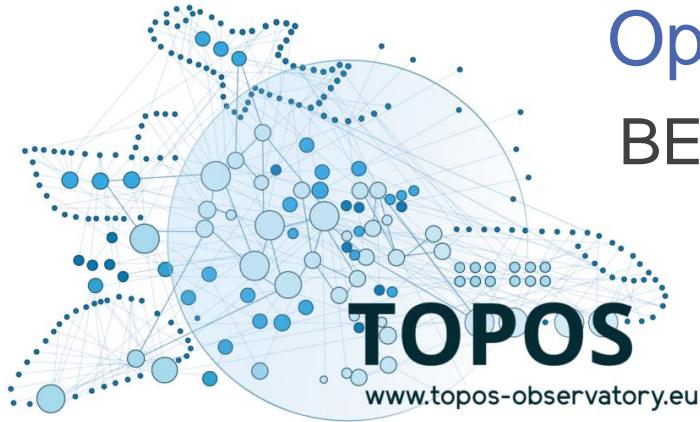
% of distance driven on roads with a safety rating above an agreed threshold



Time elapsed in minutes and seconds between the emergency call following a collision which resulted in personal injury, and the arrival of emergency services at the scene of the collision (to the value of the 95th percentile)

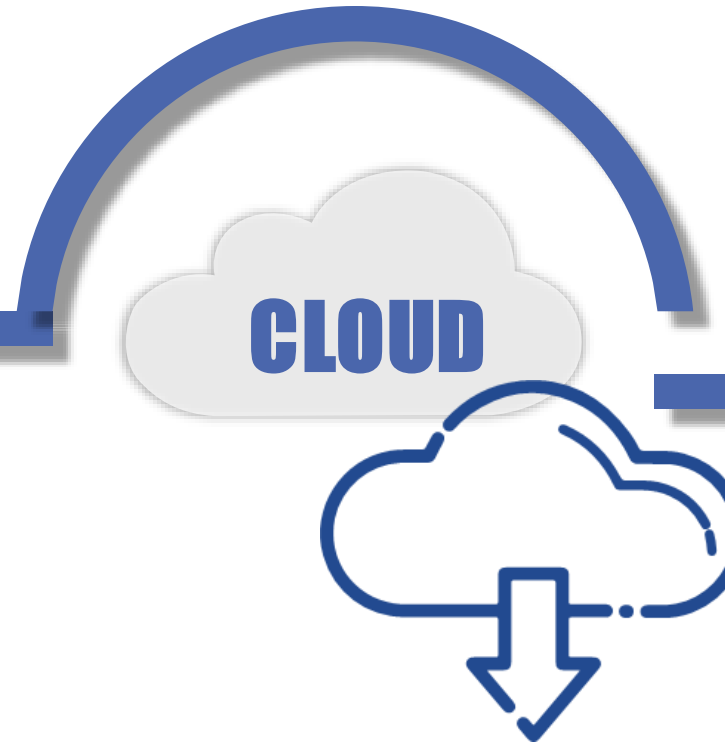


Open data platform for road safety KPIs (1)



Open Science in transport research

BEOPEN Project- H2020- <https://beopen-project.eu/the-project>



KEY PERFORMANCE INDICATORS

are recognized as a part of the platform for **global road safety data analysis**

Transport Research Cloud, as a subset of the EOSC platform

Open data platform for road safety KPIs (2)

Strategic Research and Innovation Agenda (SRIA) of the EOSC

EOSC principles:

P.1. Multi- stakeholderism
Wide range of stakeholders

P.2. Openness
Culture of sharing data

P.3. FAIR principles

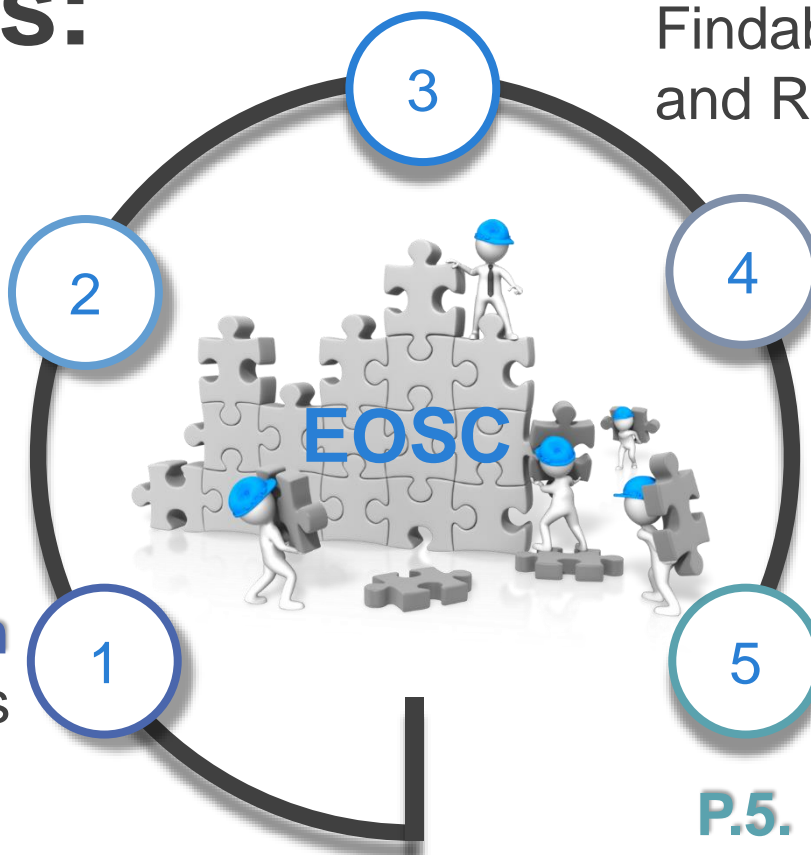
Findable, Accessible, Interoperable
and Reusable

**P.4. Federation of
infrastructures**

The federation of the existing
and planned research data
infrastructures

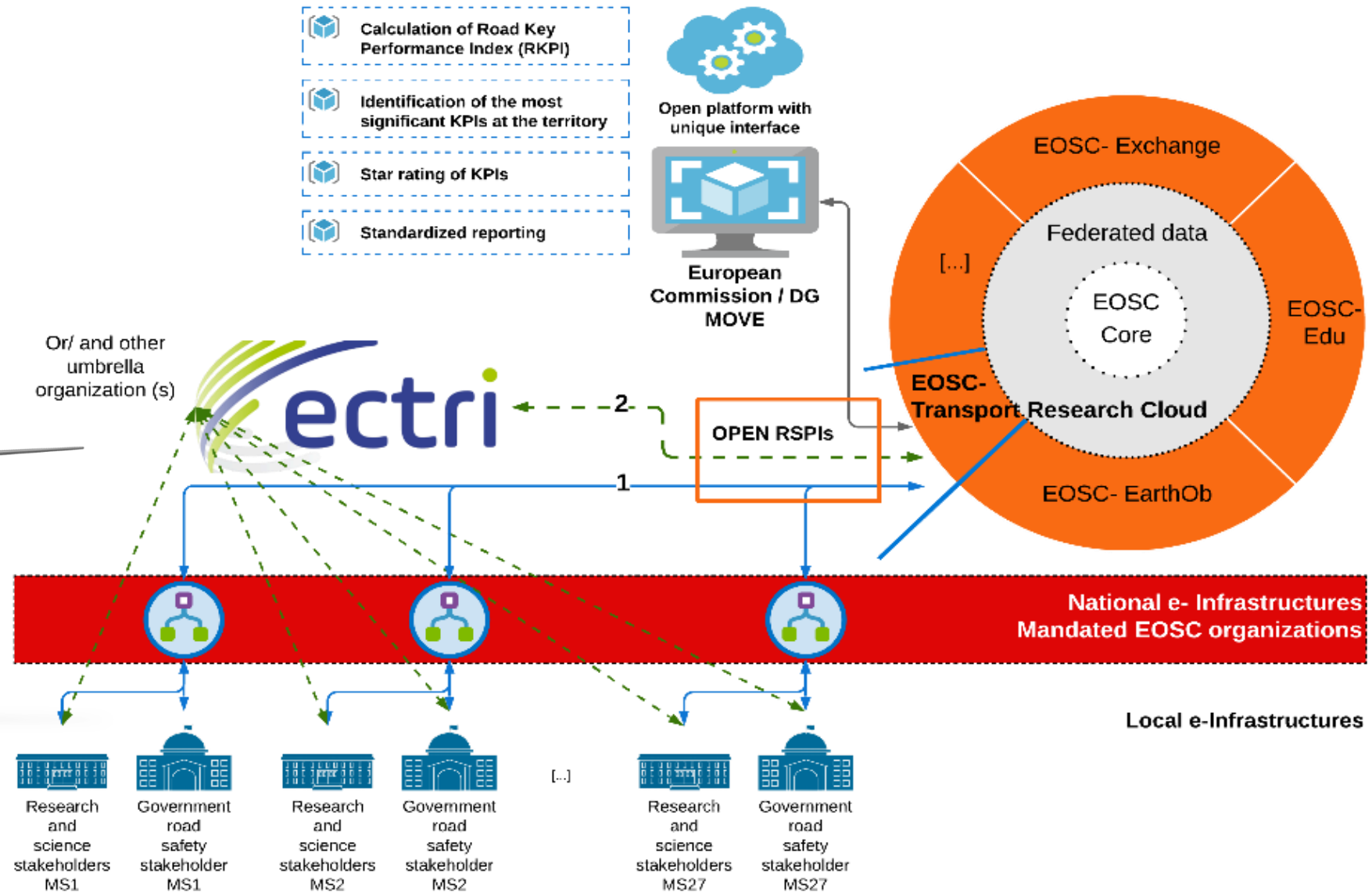
P.5. Machine-actionable

Metadata must be catalogues based
on machine-readable metadata

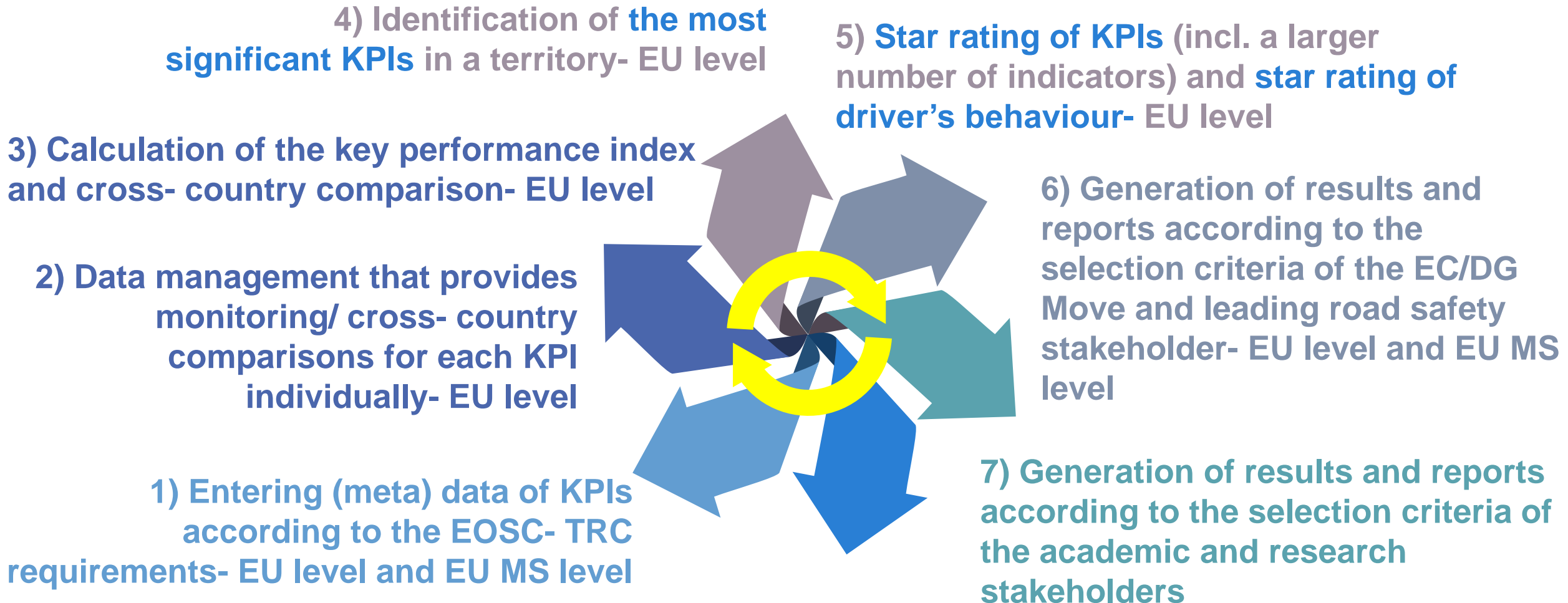


Open data platform for road safety KPIs (3)

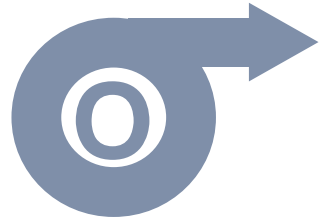
Concept of the **OPEN RSPIs**



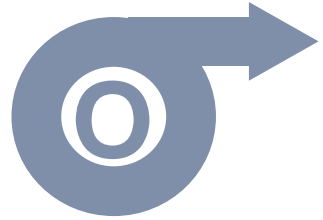
OPEN RSPIs enables...(4)



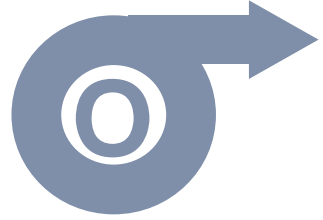
Opportunities and barriers to road safety KPIs data collecting and sharing (1)



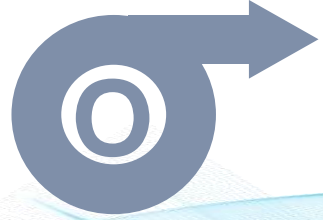
The transition period must be as safe as possible



Automated process of KPIs data collection by using the AI, V2X, IoT, etc.



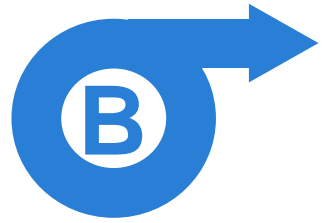
Next generation of FAIR professionals and professionals for the management data of KPIs



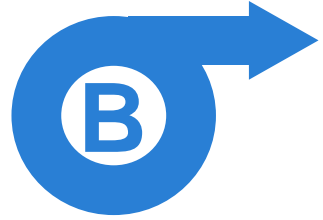
Higher level of culture of the data sharing and interoperability



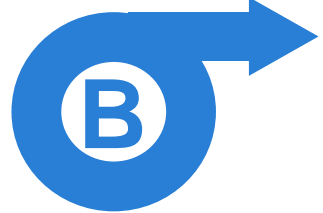
Opportunities and barriers to road safety KPIs data collecting and sharing (2)



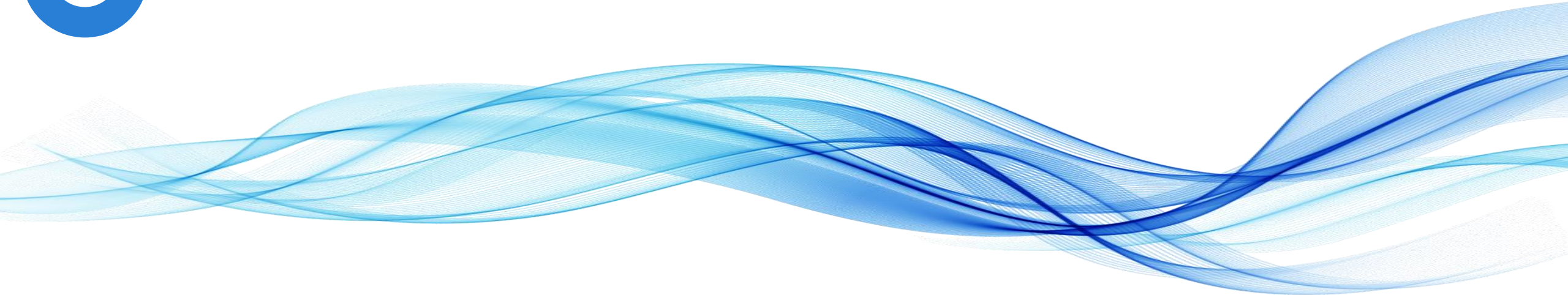
Data storage, fragmentation of data ownership, a lack of interoperability between datasets and platforms, etc.



Funding and sustainability of collecting KPIs data



Data quality, diversity of definitions of a wider list of KPIs and several ethical issues arising from opening up the raw/ survey KPIs data



Conclusions (1)

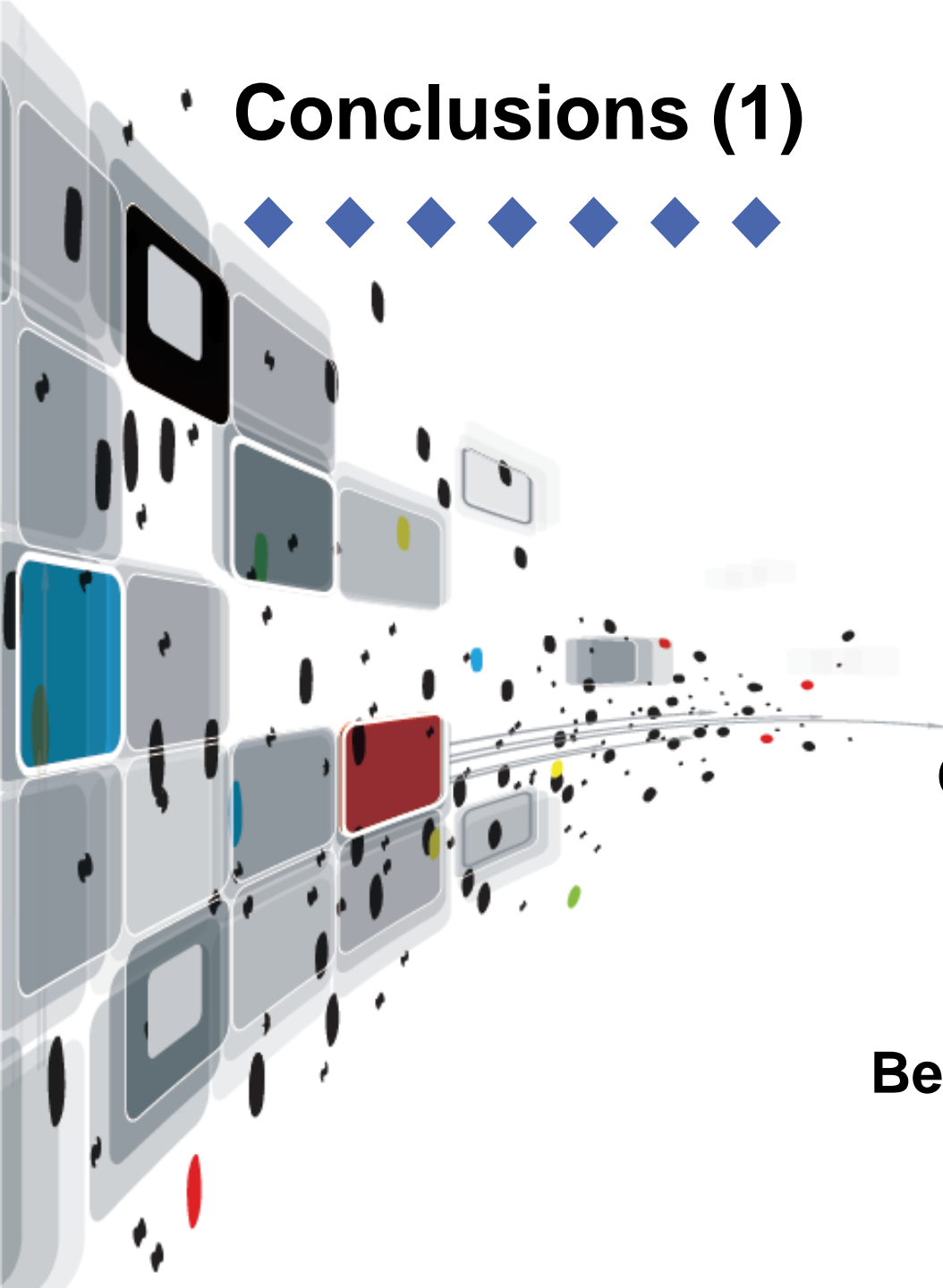


Comprehensive management of the KPIs data

FAIRness of road safety KPIs data

Better understanding of the road safety problem

Define the earlier goal-oriented actions



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Thank you

