



Central Asia Regional Economic Cooperation Program



ASIA-PACIFIC
ROAD SAFETY
OBSERVATORY

Road Crash Data Review and Reporting Training on improvement to crash data management Istanbul - 25-27 June 2024

Example of road safety data sharing

Egidijus Skrodenis

Mobility & Innovation Expert
MC Mobility Consultants GmbH

Roads in the EU are the Safest In The World

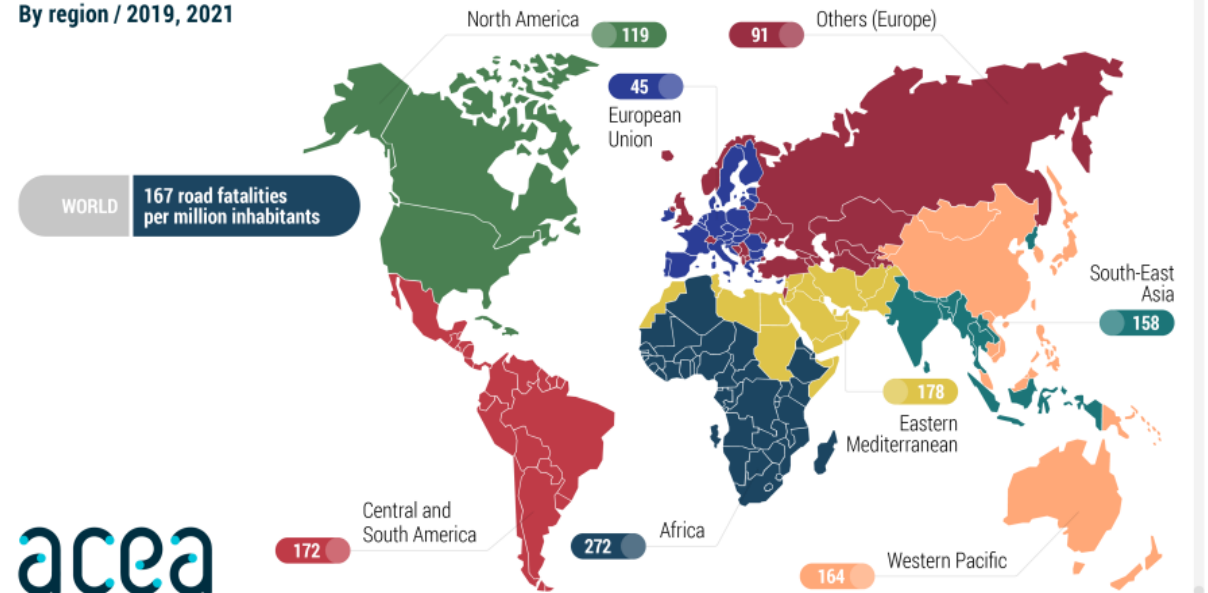
The EU counts on average less than **50 deaths per million inhabitants, against:**

- 174 deaths per million globally
- 106 deaths per million in the USA
- 93 deaths per million in geographical Europe.



ROAD FATALITIES PER MILLION INHABITANTS

By region / 2019, 2021



acea

European “White paper” and Valetta declaration on traffic safety

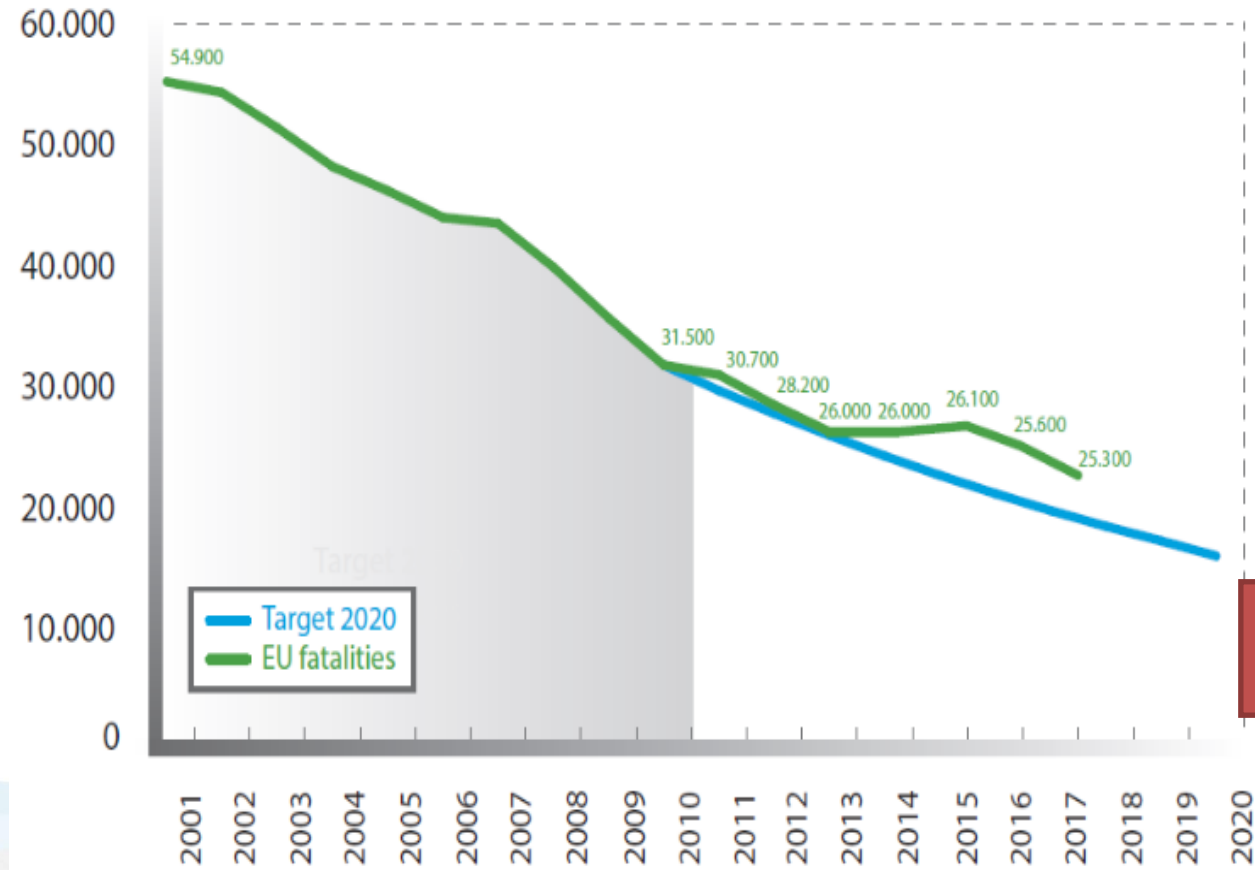
- In 2000 European Commission approved 1st “white paper” on traffic safety. Beside others, one of the main goals was to reduce fatalities on the European Union countries’ roads by **50% till 2010**
- In 2010 European Commission approved 2nd “white paper” on traffic safety. Beside others, one of the main goals was to reduce fatalities on the European Union countries’ roads **by 50% till 2020 and achieve 0 death in 2050**
- In 2017 Valetta declaration on road safety was signed between European Union transport ministers to reduce **by 50% death on European roads till 2030**



MALTA EU2017

Progress in the two decades from 2000 till 2020 in the EU has been remarkable

- The number of fatal crashes fell by **43% from 2001 to 2010**
- And by another **20% between 2010 and 2017**

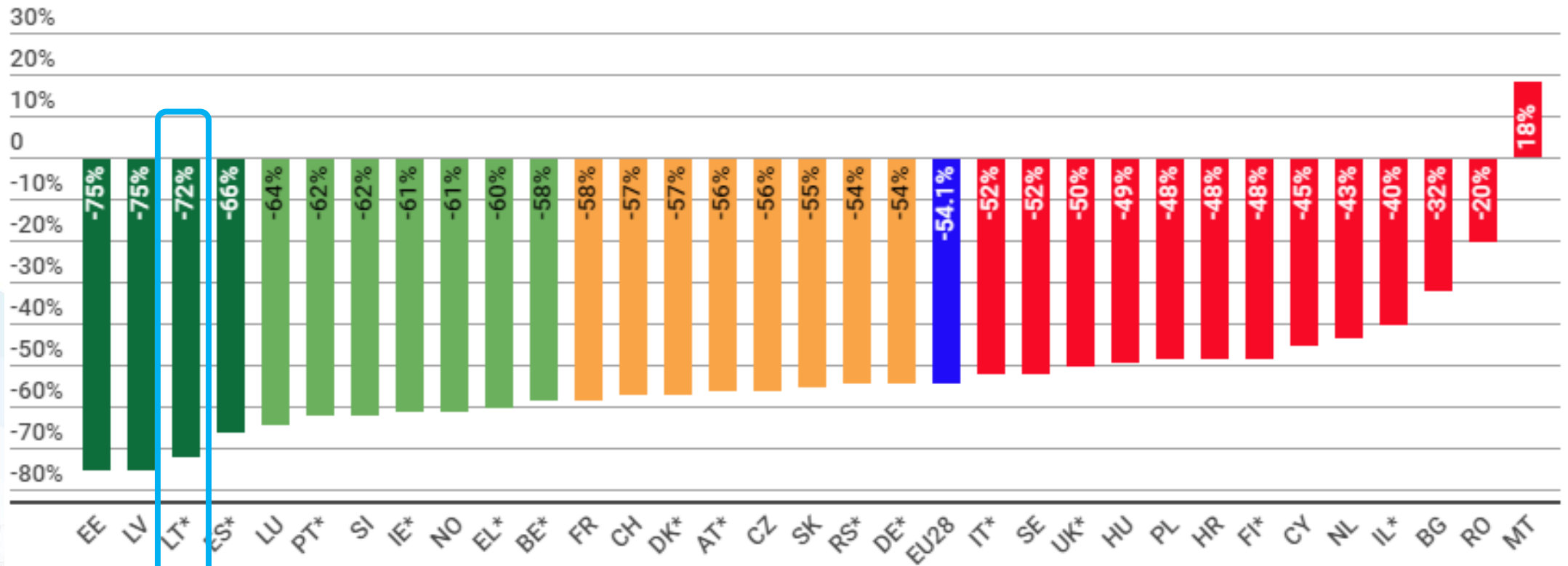


Source - CARE (EU road accidents database)

*Valletta
Declaration on
Road Safety*

Relative change in road deaths (%) 2001-2017

In 2004, Cyprus, the Czech Republic, Estonia, Hungary, Latvia, **Lithuania**, Malta, Poland, Slovakia and Slovenia joined EU and needed to fulfil EU targets, **including traffic safety**



Lithuanian experience



Key facts about Lithuania

Capital (and largest city): Vilnius

Official language: Lithuanian

Area: 65,300 km²

Population: 2,944 million

National currency: EURO

First mentioned: 9 March 1009

Borders' length: 1,732 km

Transport fleet: 2,275,977 (180,720 heavy)

Membership: EU, NATO

Trakai Castle



Anykščiai Church



Lake Sartai



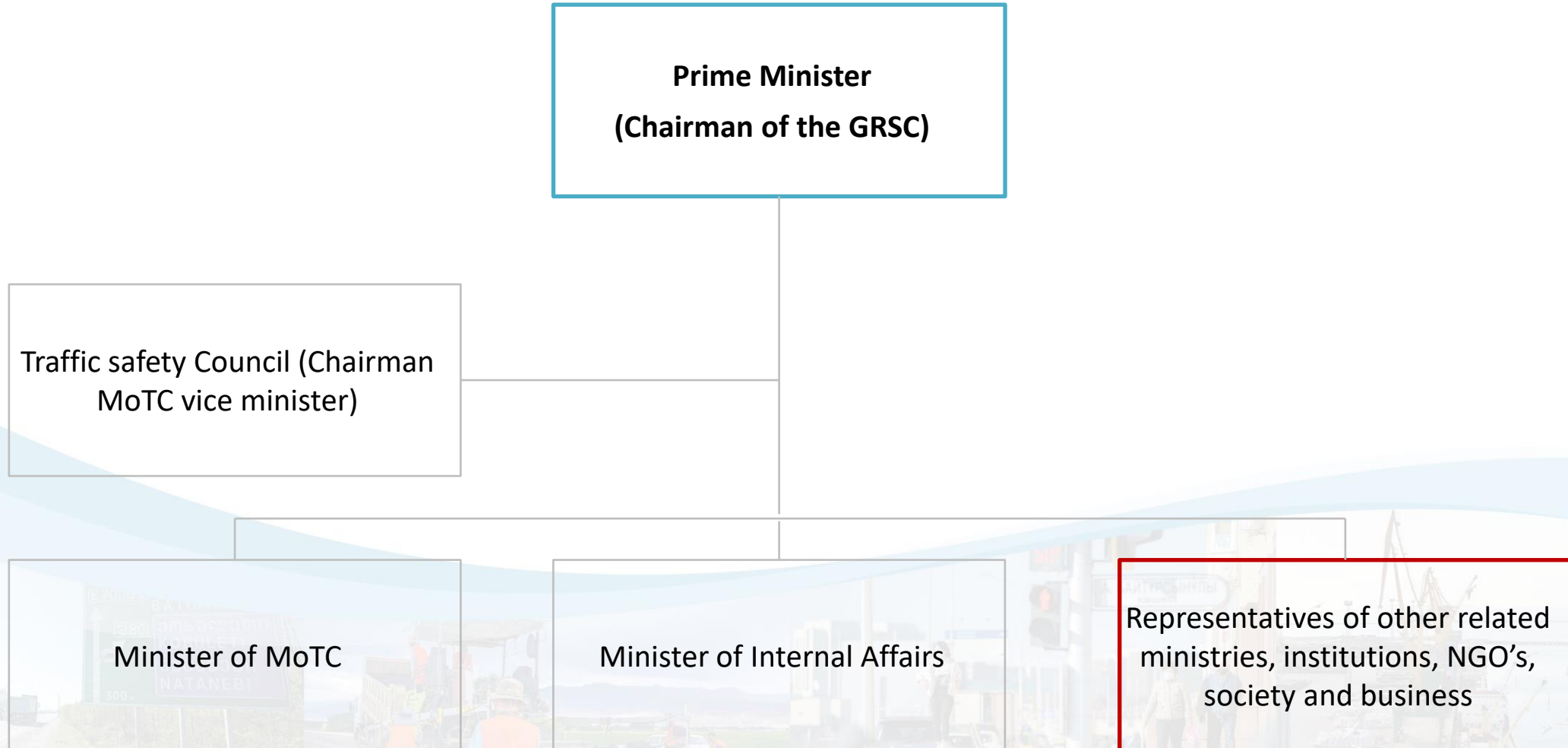
Kernavės Mounds



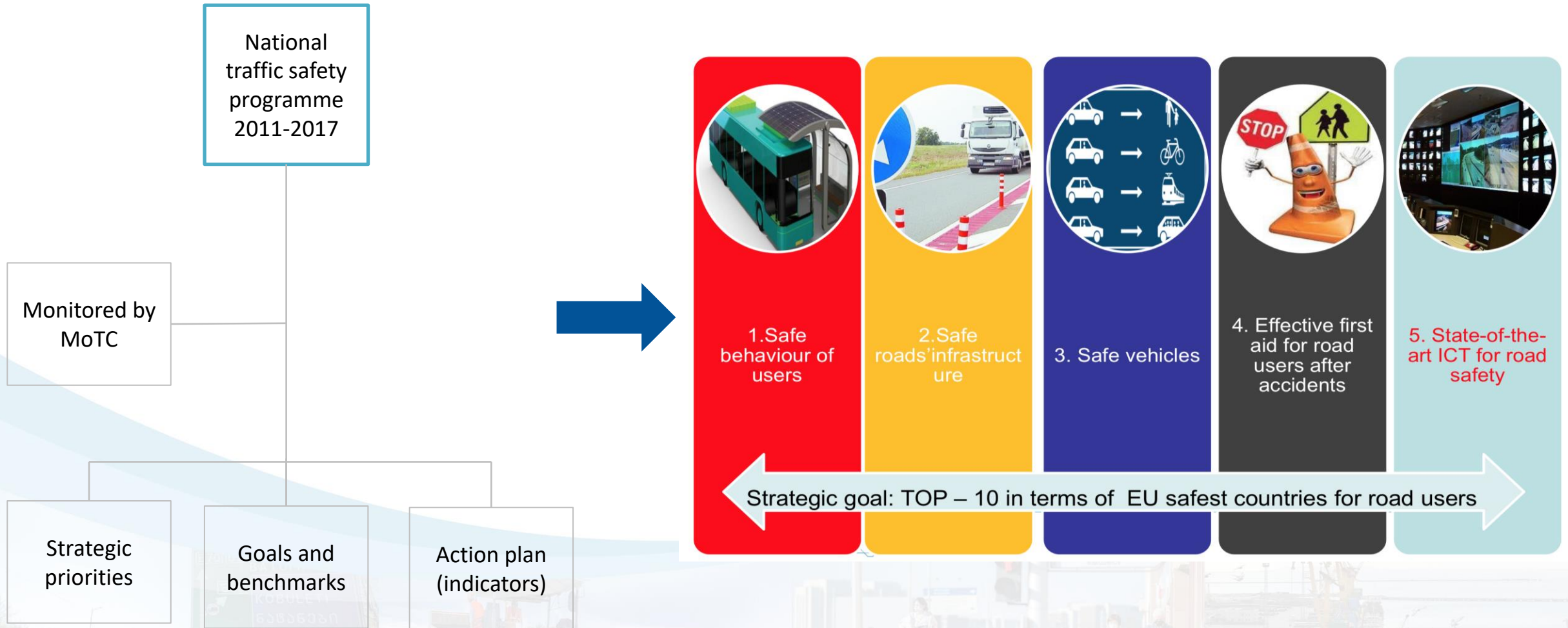
Lithuanian Road safety strategy 2008 - 2011



Structure of the governmental Road Safety Commission since 2008



2011-2017 Traffic safety programme



Lithuanian Vision-Zero programme for traffic safety 2020 -2030

Main targets:

- Not more than 75 fatalities per year till 2030
- Not more than 37 fatalities per year till 2040
- 0 fatalities per year till 2050



1 GOAL

Is to **reduce** the number of violations of the Road Traffic Rules

2 GOAL

Is to ensure that the **road infrastructure** meets the established requirements

3 GOAL

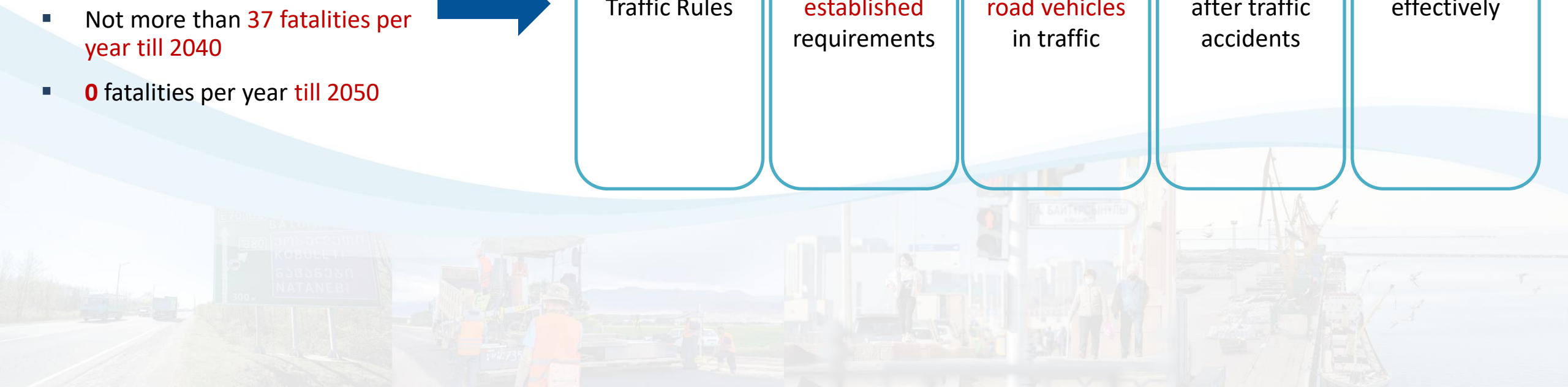
Is to reduce the **number of technically defective road vehicles** in traffic

4 GOAL

Is to **save** road users more **efficiently** after traffic accidents

5 GOAL

Is to **manage** traffic accident risks more effectively

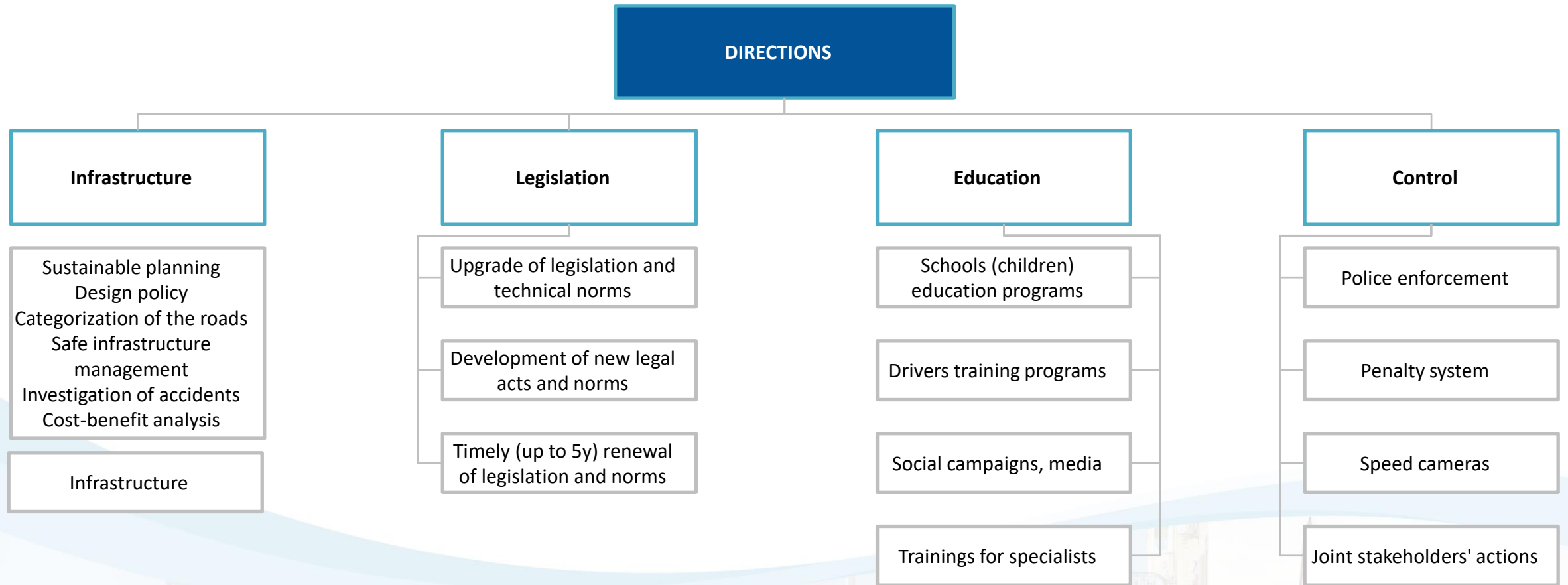


Cooperation and coordination of ALL actions between ALL stakeholders



- The most important is HUMAN and everything should be oriented to his safety and comfort
- Coordination all actions between all stakeholders
- Consolidate all funds and investments to common activities
- Involve society and business as much as possible in all activities
- Use media and journalists and coordinate activities by providing them information
- Organize joint between all stakeholders' social campaigns to increase public awareness
- **Openly exchange all possible data between organizations**
- **Provide open data for the society**

New traffic safety approach since 2008



GOOD QUALITY DATA

Road safety measures selection and implementation process

DATA COLLECTION AND ANALYSIS

Selection of dangerous points and stretches (Experts, society)

Network Safety Ranking procedure

Road Safety Impact Assessment procedure

Road Safety Audit procedure

Black Spots determination and Investigation procedure

Accidents Prediction procedure

Investigation of every fatal accident

Road Safety Inspection procedure

Traffic police patrolling sections selection

Providing information for society

Improvement of the legislation

COST-BENEFIT ANALYSIS AND SELECTION OF MEASURES

Installation of post-accident and preventive infrastructure

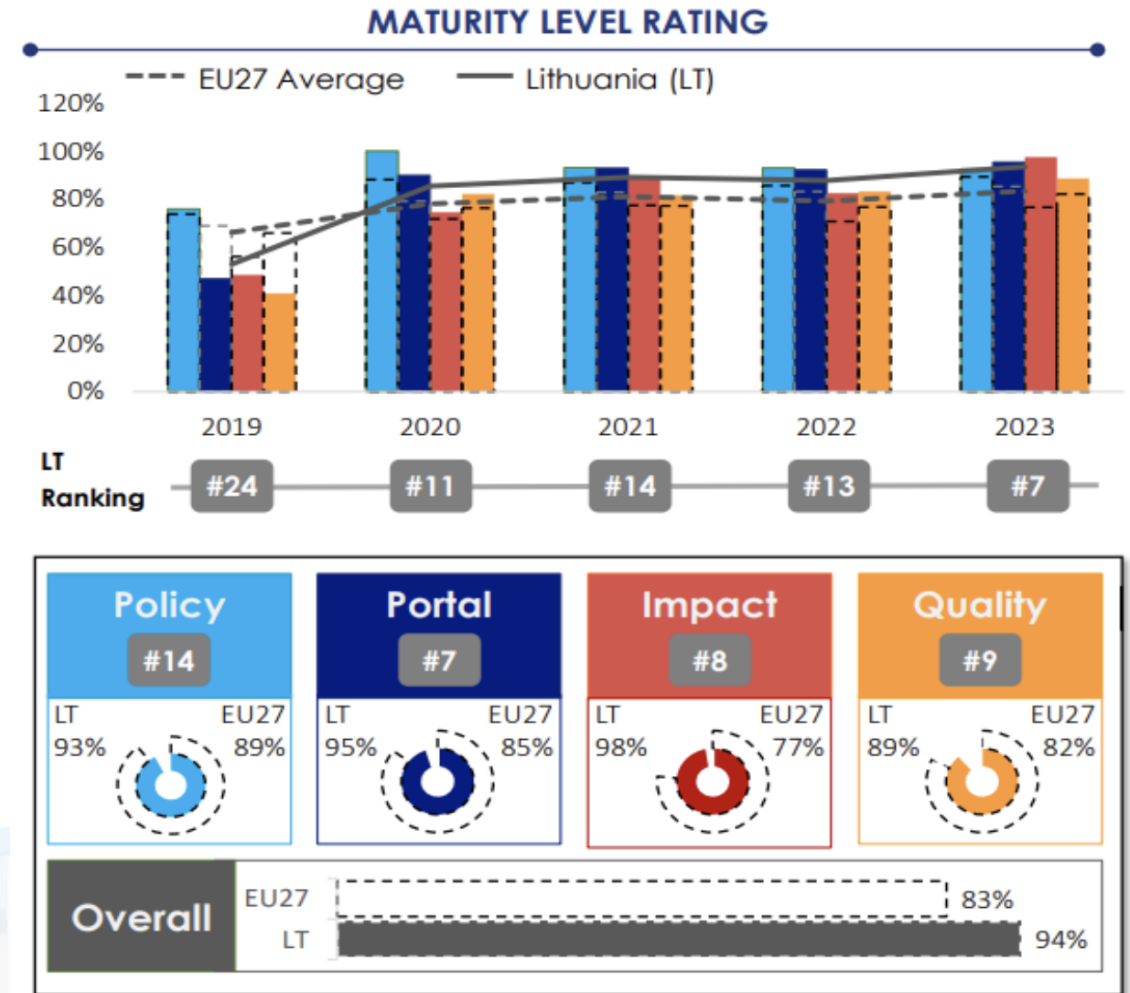
Planning the traffic control activities and updating the legislation

Society awareness raising and social campaigns planning

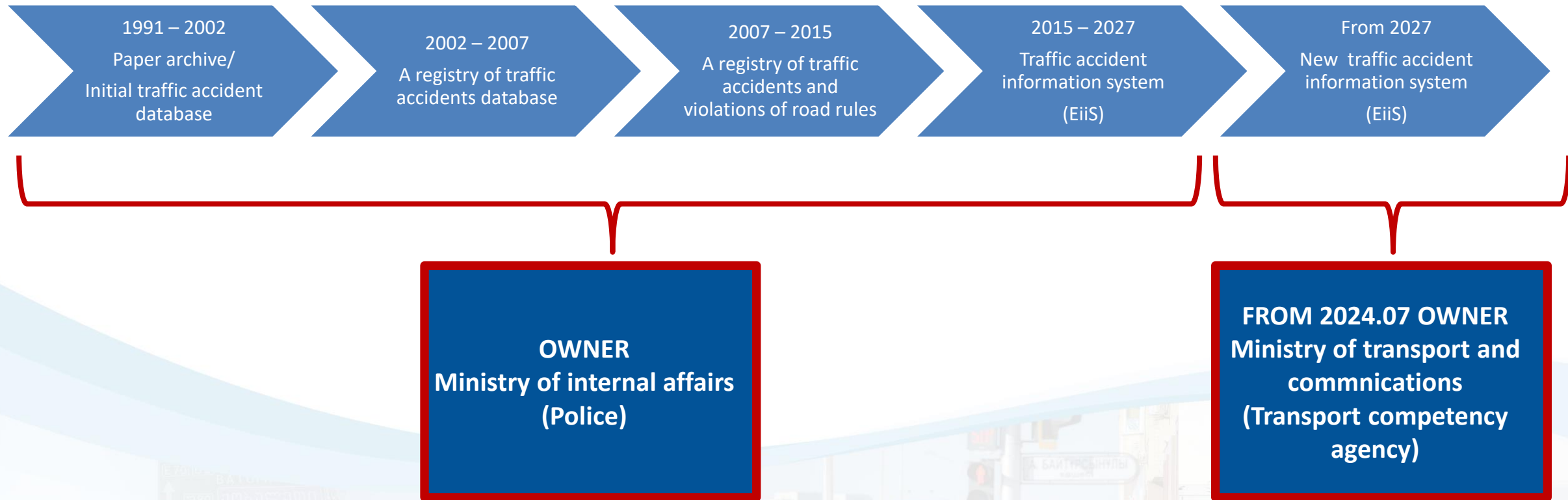
The open data

- The good quality data is a base for all decisions' making, including traffic safety
- Public open data law got in force from 2016

State of play on open data – 2023



Timeline of the development of traffic accidents' information systems/databases (EiIS)



The purposes of the existing EIS

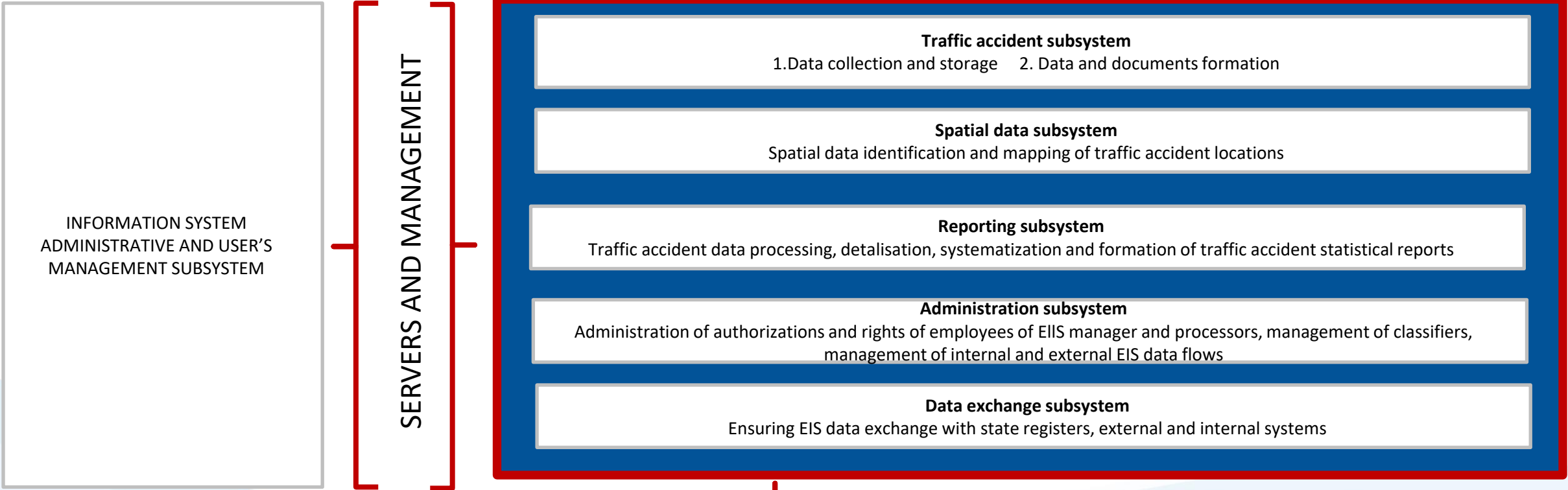
The purpose of the EIS development was to create an information system for:

- planning the deployment of police forces and patrol routes on roads
- organizing preventive and other measures aimed at ensuring traffic safety
- providing the institutions of the Republic of Lithuania and the European Union
- other legal entities and individuals with police-registered traffic incidents that occur in Lithuania
- publishing statistical data

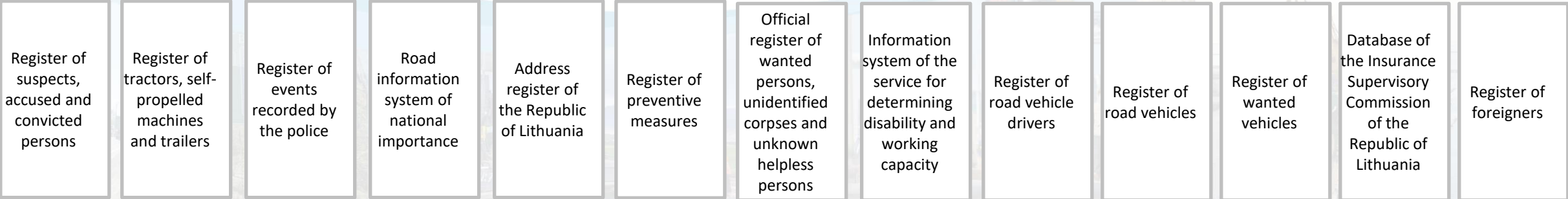


Existing traffic accidents information system structure

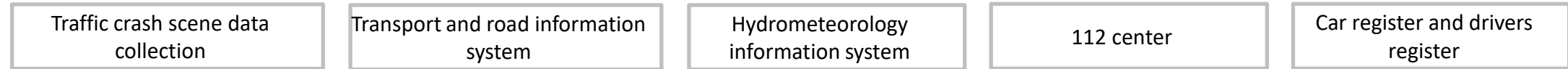
TRAFFIC ACCIDENTS INFORMATION SYSTEM SUBSYSTEMS



INTEGRATIONS WITH OTHER PUBLIC SYSTEMS



Users of existing traffic accidents information system



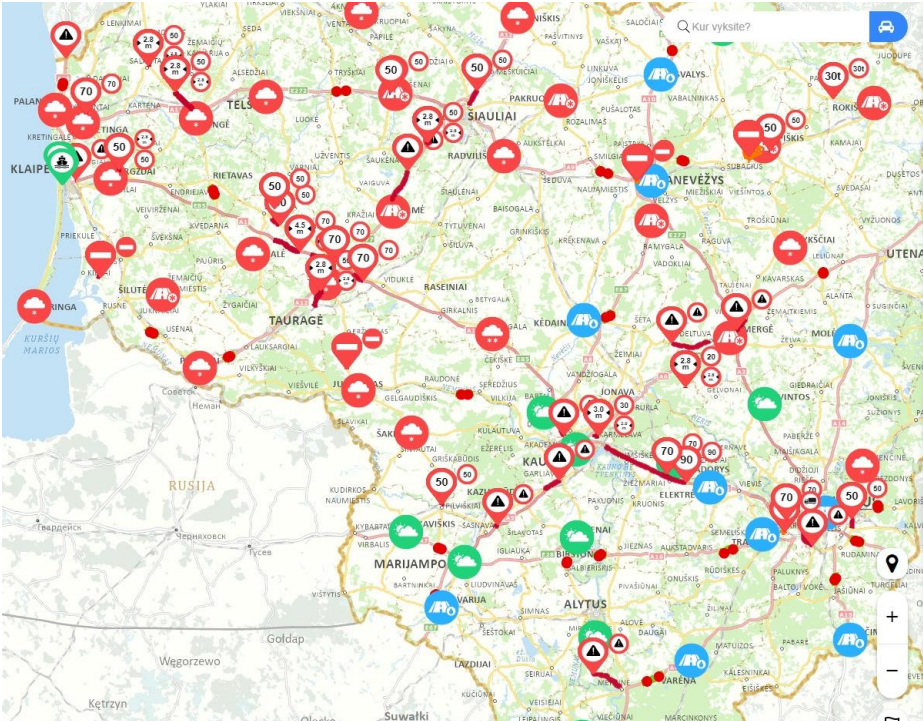
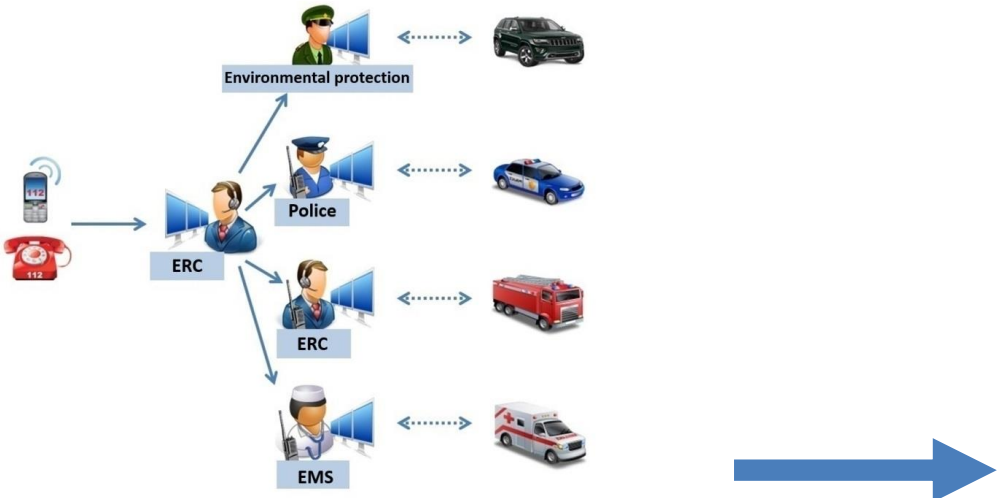
DATA SOURCES



DATA USERS



Real time accident data for the society



New approach from 2024.07: the owner of EIS will be MoTC

The purpose of the EIS development project is to create (modernize) EIS for:

- registering EIS objects
- collecting, storing, processing, systematizing, monitoring traffic incidents
- performing statistical analysis
- storing, using and providing EIS to institutions of the Republic of Lithuania and the European Union other legal entities and natural persons the data of registered traffic incidents
- publish data publicly
- plan preventive, infrastructural, traffic control and other traffic safety measures,
- planning the deployment of police forces and patrol routes on roads



LIETUVOS POLICIJA

Lithuanian Ministry of internal affairs and Lithuanian police will be responsible for the traffic safety prevention and control`

Data provider`



LIETUVOS RESPUBLIKOS
SUSISIEKIMO MINISTERIJA

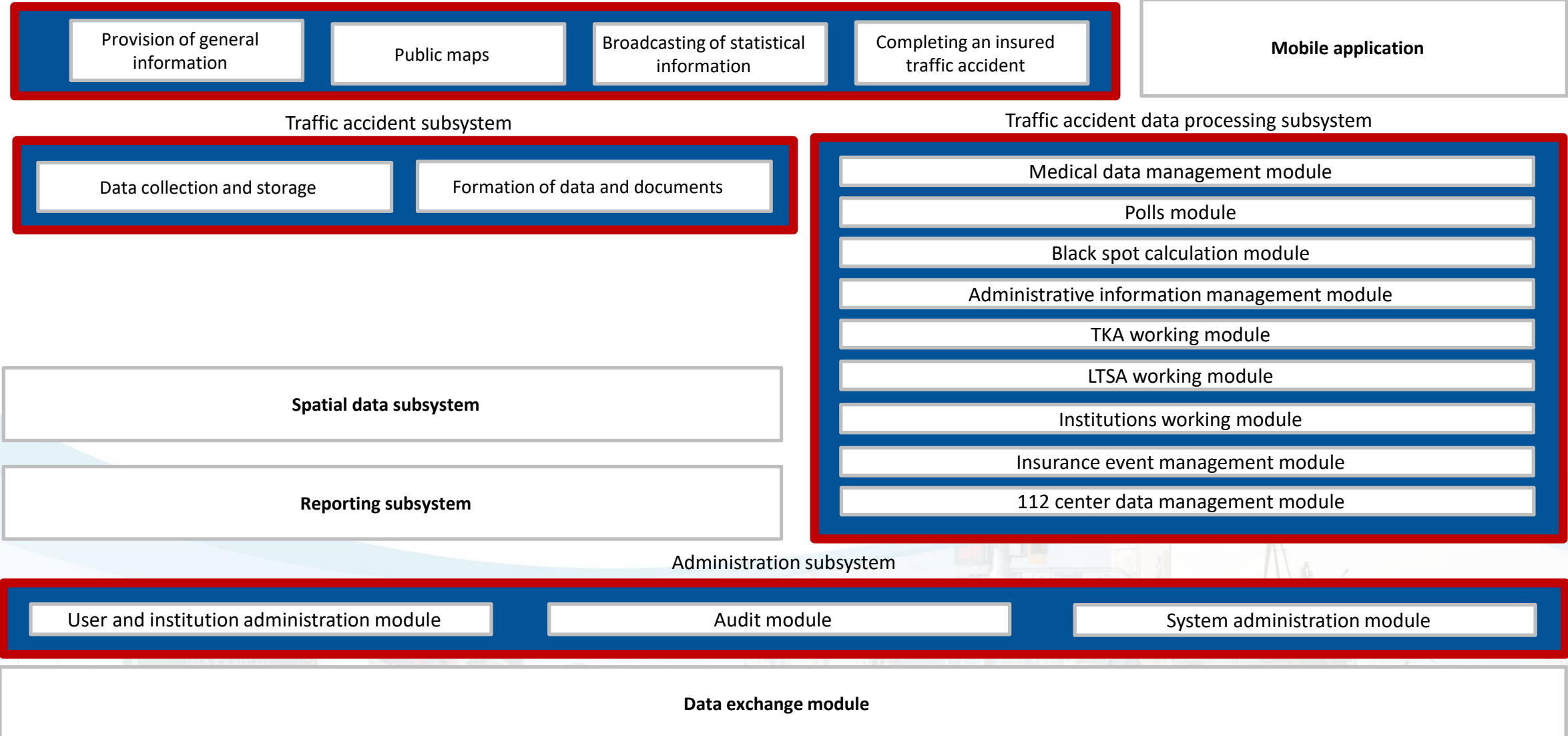
Lithuanian Ministry of Transport and Communications and Transport competency agency will be responsible for the traffic safety analysis, social campaigns and infrastructure upgrades

New owner of the EIS

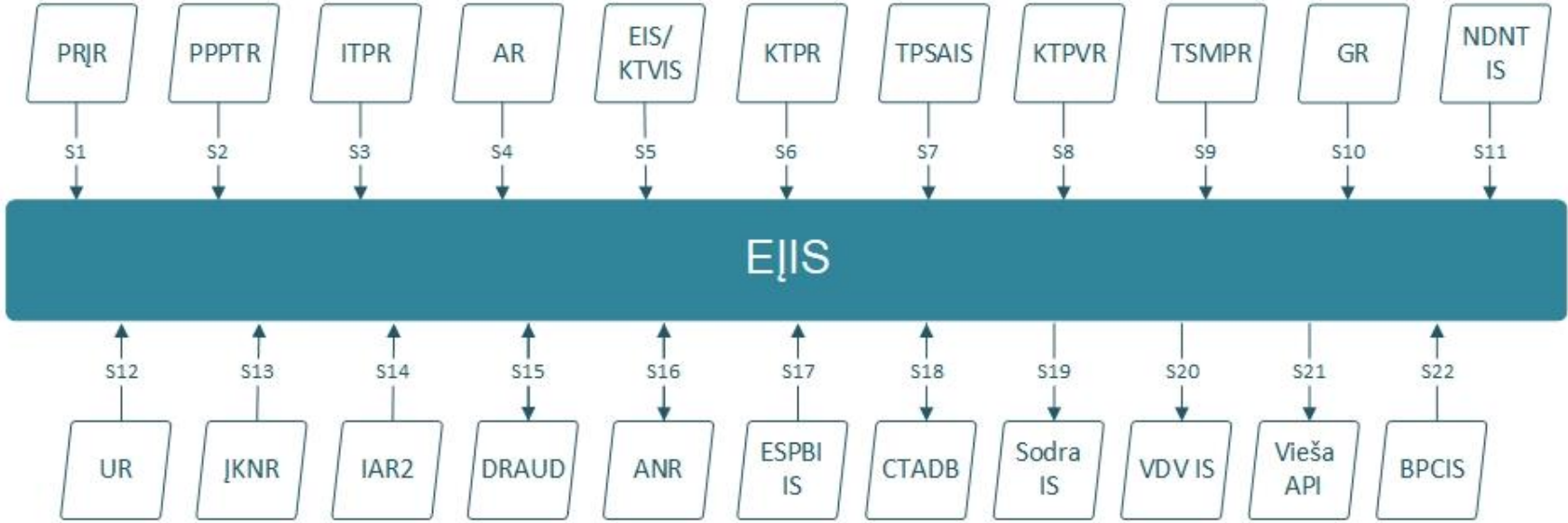


New EIS structure

Public portal

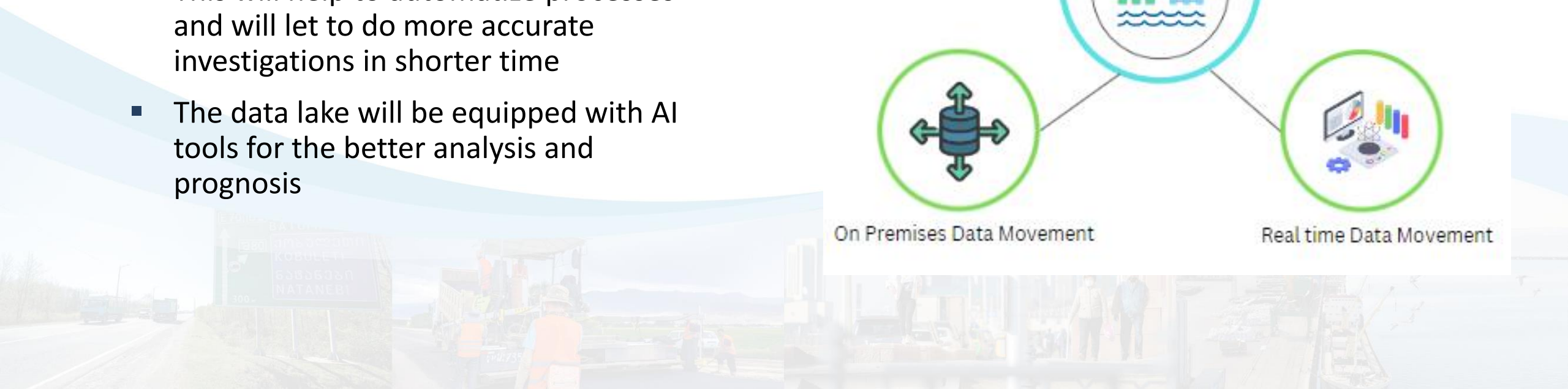
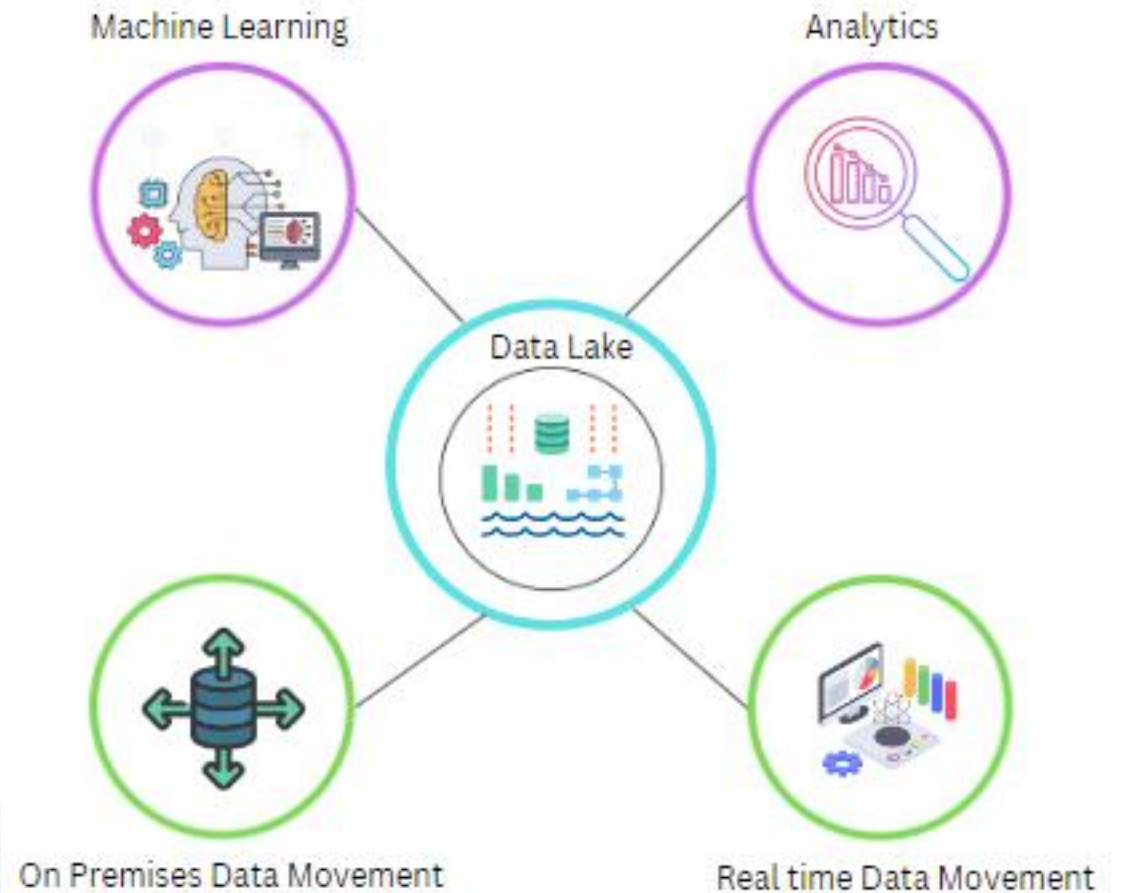


External EIS data flows and users



Nearest future – establish transport sector data lake

- The next step will be to establish open data lake for the Lithuanian transport sector and **EIIS will be the part of the data-lake**
- This will help to automatize processes and will let to do more accurate investigations in shorter time
- The data lake will be equipped with AI tools for the better analysis and prognosis

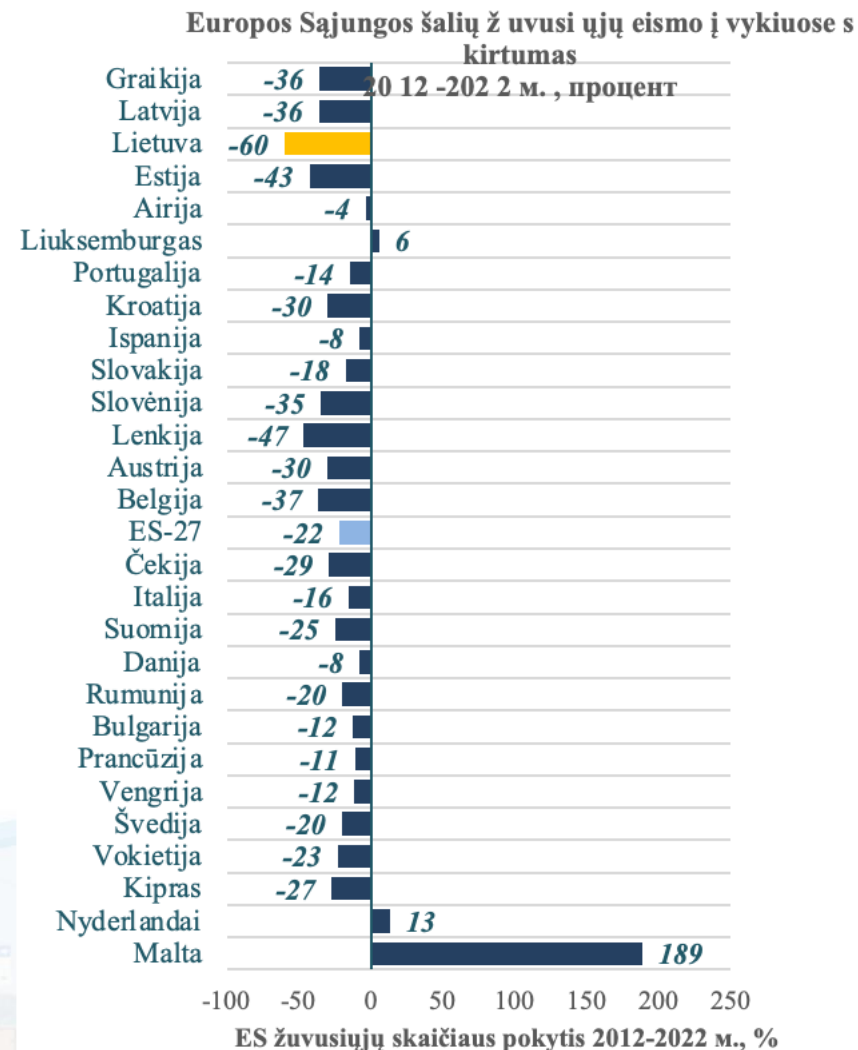


Traffic safety achievements in Lithuania

- For the achievements of the last decade in improving road safety, Lithuania was awarded the most important European road safety award **2 times — the European Transport Safety Council (ETSC) PIN Award**
- Out of the European countries assessed by the organization, **Lithuania was the only European Union country to halve road deaths between 2011 and 2021**

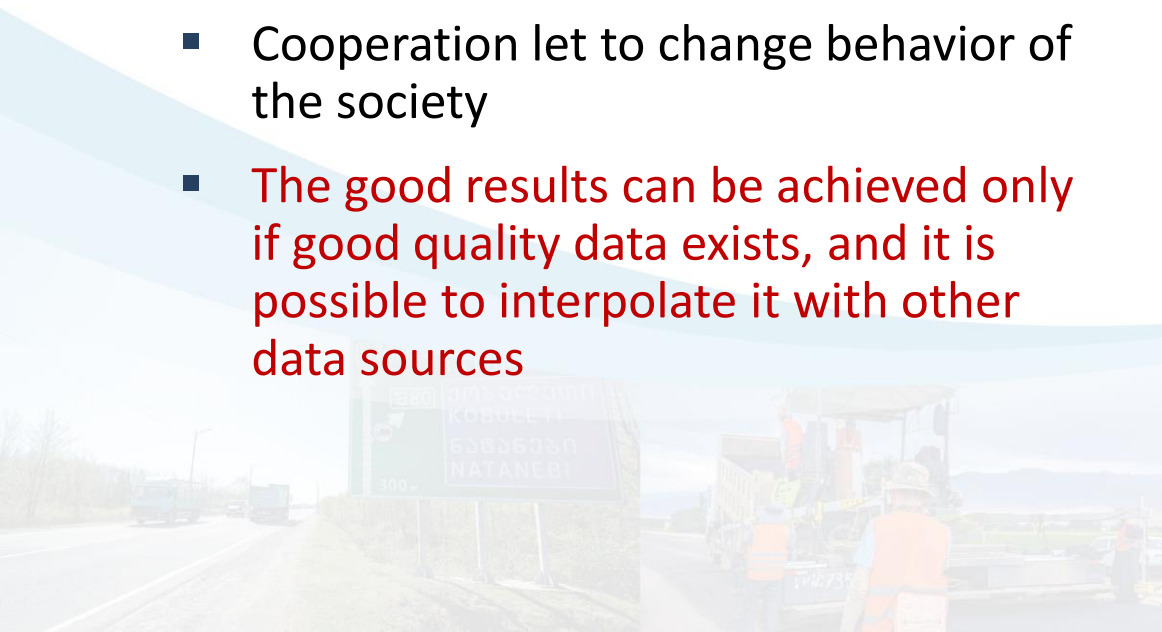


EC PIN award in 2022 and 2012



Conclusions

- Cooperation of the stakeholders was the main trigger to achieve real reduction of the fatalities on the Lithuanian roads
- Cooperation let to use the funding in the most efficient way
- Cooperation let to change behavior of the society
- The good results can be achieved only if good quality data exists, and it is possible to interpolate it with other data sources



Thank You!

Egidijus Skrodenis

Mobility & Innovation Expert

MC Mobility Consultants GmbH

Egidijus.skrodenis@vilnius-mc.com

+37069859146

