



4th Baltic Vision Zero Conference (online)

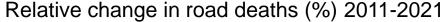
Vision Zero in a changing world

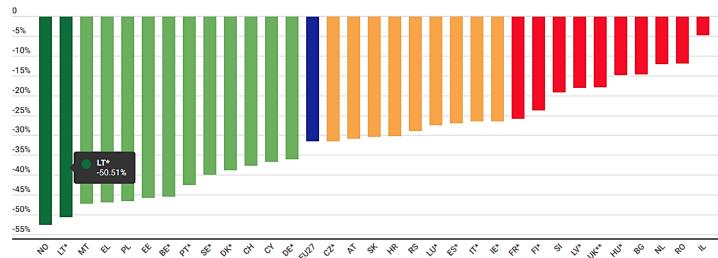
Dr Vidas Žuraulis 💆

Vision Zero in Lithuania

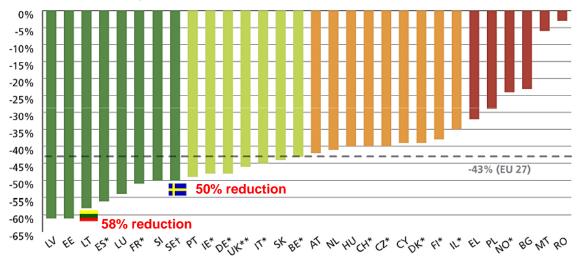
Road safety achievements in Lithuania

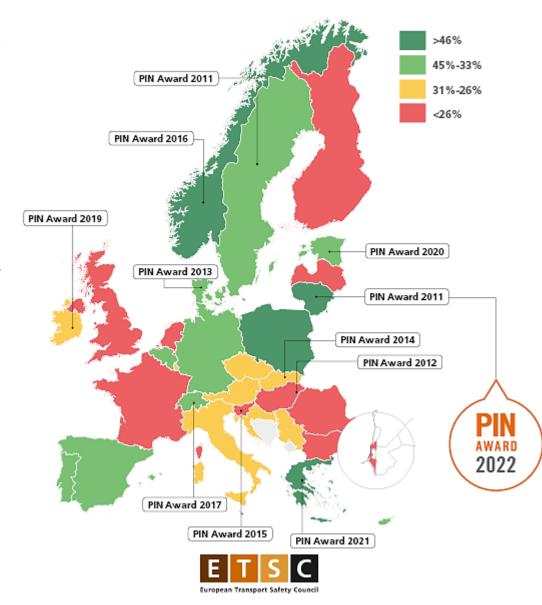






Relative change in road deaths (%) 2001-2010



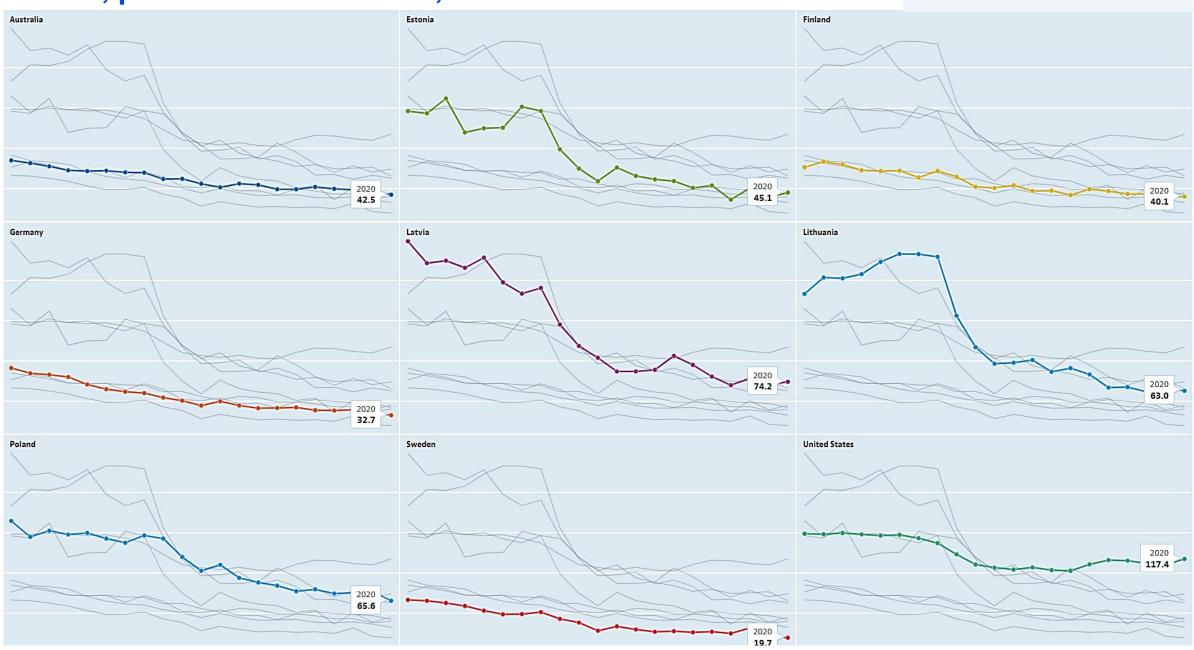


Road safety achievements in Lithuania 45%-33% PIN Award 2011 31%-26% PIN Award 2016 Relative change in road deaths (%) 2011-2021 PIN Award 2019 PIN Award 2020 PIN Award 2013 PIN Award 2011 -25% PIN Award 2014 -30% PIN Award 2012 -35% LT* -50.51% -40% PIN -45% AWARD 2022 -50% PIN Award 2015 PIN Award 2021 International Transport Forum Road Safety Data Fatalities Injury crashes Motor vehicles ■ Other road users ■ Car occupants ■ Motorcyclists ■ Moped riders ■ Cyclists ■ Pedestrians 18 Road fatality rate by age and road user group, 2019 16 Fatalities per 100 000 population 200 14 12 150 10 100 8 6 50 2010 2012 2013 2015 2014 15-17 18-20 21-24 25-64 65-74 ≥75

250

Deaths, per 1 mln. inhabitants, 2000 – 2020

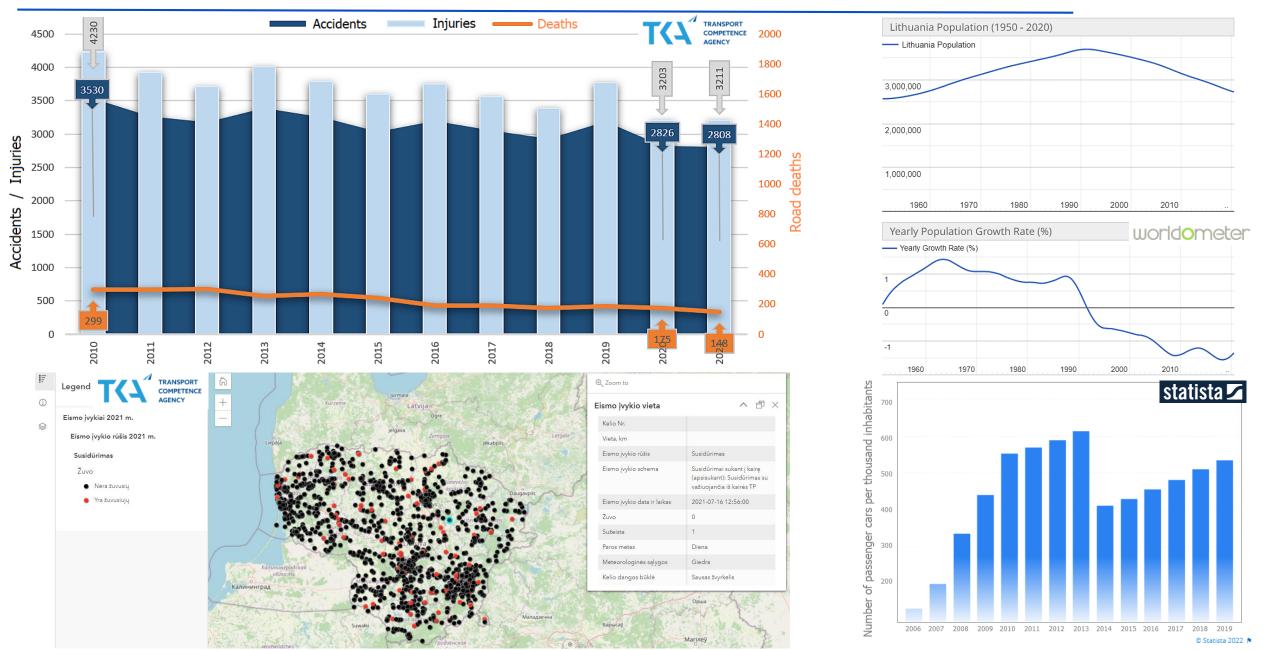




OECD (2022), Road accidents (indicator). doi: 10.1787/2fe1b899-en (Accessed on 03 December 2022)

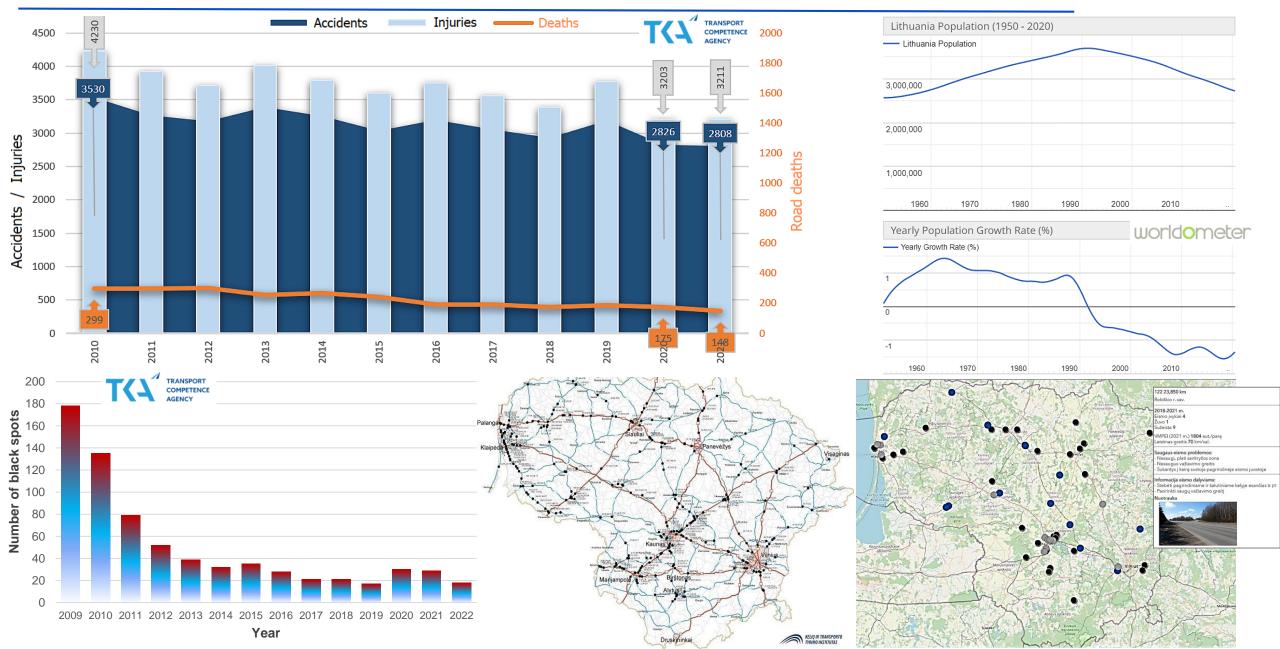
Road accident data





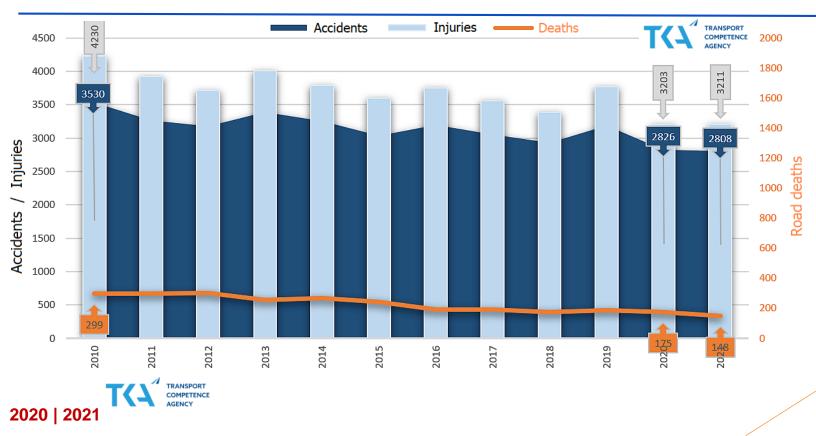
Road accident data





Road accident data – highlights





- 2 times higher number of road accidents with e-scooters involved (mostly 7-18 year aged)
- 14% more children injured on the roads
- 11% more road accidents on intersections



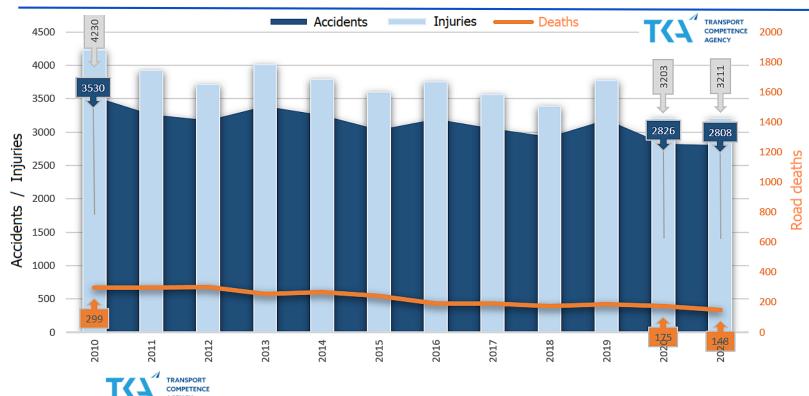


Hospitals warn but tighter regulation is still under discussion...



Road accident data – highlights







2020 | 2021

- 2 times higher number of road accidents with e-scooters involved (mostly 7-18 year aged)
- 14% more children injured on the roads
- 11% more road accidents on intersections
- the most frequent type of road accident with deaths and injuries hitting a tree after leaving the road
- high accident rate with animals involved in rural roads (forested areas)

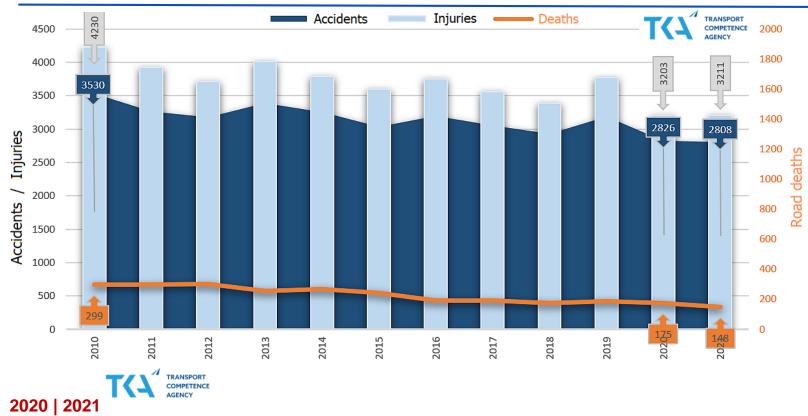
More attention to roadside objects during road safety inpections



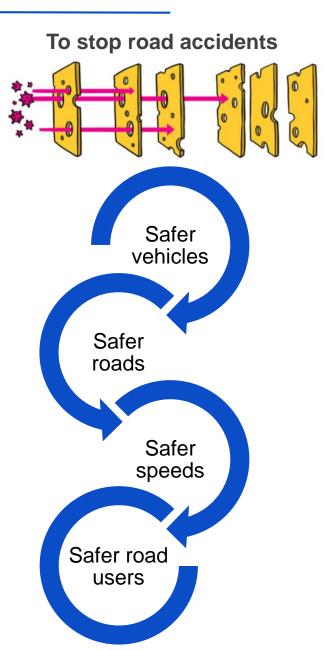


Road accident data – highlights





- 2 times higher number of road accidents with **e-scooters** involved (mostly 7-18 year aged)
- 14% more children injured on the roads
- 11% more road accidents on intersections
- the most frequent type of road accident with deaths and injuries hitting a tree after leaving the road
- high accident rate with animals involved in rural roads (forested areas)
- 14% fewer deaths on rural roads and highways
- 46% fewer pedestrian deaths



Actions towards Vision Zero



1st program was in force from 2002 to 2004

The main purpose of this program was "to ensure that fewer people comparing with 2011 are killed and affected in road crashes". To reduce the number of fatalities:

- o by 4% in 2002
- o by 5% in 2003
- by 6% in 2004

2nd program was in force from 2005 to 2010

The main objective of this program has already been linked to that of the European Union – "to reduce the number of road fatalities in half by 2010 compared to 2004":

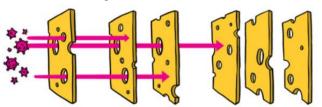
- o to reduce road fatalities by 25% by 2008 (reached 33%)
- o by 2008, reduce the number of road accident victims by 10% (reached 26%)
- by 2010, to reduce the number of road accident victims by 20% (achieved 45%)

3rd program is valid from 2011 to 2017

For the first time, this program mentions a long-term vision on road safety "No deaths and no serious injuries of road users in Lithuania".

TARGET – zero fatalities and serious injuries in road transport

To stop road accidents



Safer vehicles

Safer roads

Safer speeds

Safer road users

Actions towards Vision Zero



1st priority – safer behavior of road users

- compliance with permitted and safe speed
- o public intolerance of drunk driving
- o no use of mobile devices during driving
- use of reflective elements
- o ..

2nd priority – safer roads

- implementation of advanced technology in road infrastructure management
- development of road infrastructure to improve road safety and mobility
- to deploy a dynamic safety speed management system on state roads
- 0 ...

3rd priority – safer vehicles

- o implementation of safe vehicles on the roads
- aim to reduce the average age of the passenger car fleet
- ensure that only safe vehicles are returned to traffic after road crashes
- 0 ...

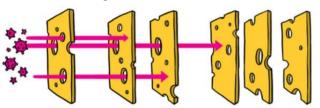
4th priority - more efficient post-crash care

- development of national Emergency Response Centre
- to improve financial provision for rescue measures and materials

5th priority – detail investigation of road accidents

- in-depth analysis of collisions involving road users
- categorize injuries sustained in road crashes as minor and severe (MAIS3+ method)

To stop road accidents



Safer vehicles

Safer roads

Safer speeds

Safer road users



Vilniaus miesto savivaldybė informavo, kad Paneriškių-Gari

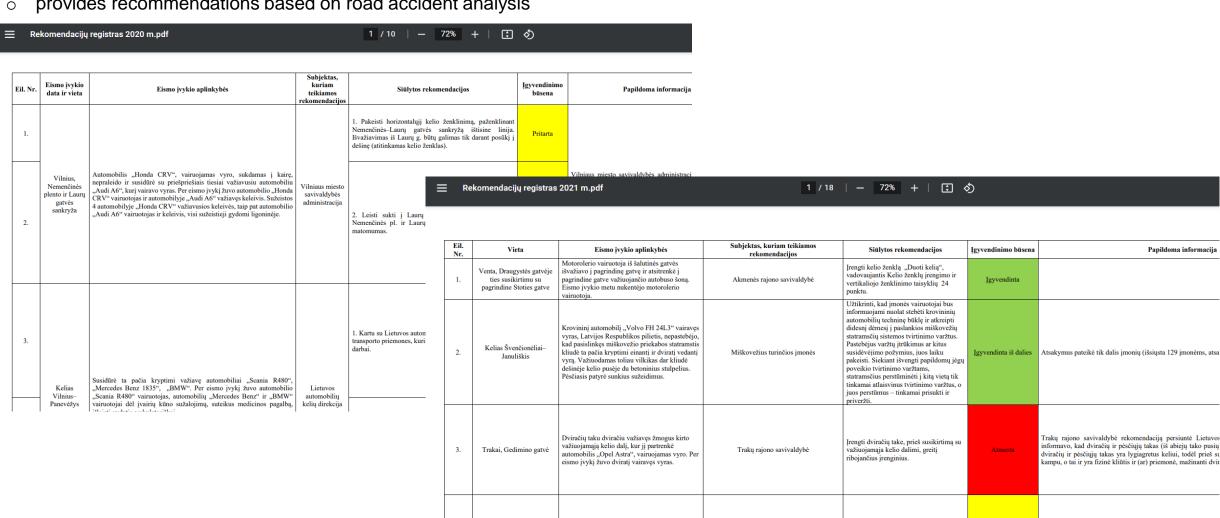
kreipėsi į statybos darbų vykdytoją, kuris atsakė, kad šiuc

Įrengti priemonę pėstiesiems saugiai

Vilniaus miesto savivaldybė

Lithuanian Transport Safety Administration

provides recommendations based on road accident analysis



Vairuotojas, vairuodamas krovininį automobilį

MAN, pervažiavo per važiuojamąją dalį

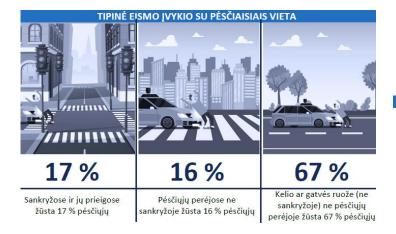
Vilnius. Paneriškiu gatvė

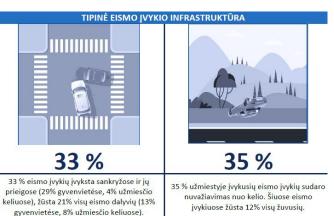


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o detail road accident statistics with highlights to the most critical cases or tendencies







- pėstysis;
- vyras apie 57-59 metų amžiaus;
- blaivus;
- kertantis važiuojamąją dalį ne pėsčiųjų perėjoje/einantis kelio važiuojamąja dalimi, tamsiu paros metu.

35 %



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research on road infrastructure safety and road users behavior

3.4 Kelias A8 Panevėžys-Aristava-Sitkūnai 46,3 km (Lančiūnava).

Magistraliniame kelyje A8 Panevėžys-Aristava-Sitkūnai 46,3 km, eismo dalyvių stebėjimai tamsiu paros metu buvo atliekami 3,5 valandos. Iš viso buvo užfiksuoti 56 eismo dalyviai. Eismo dalyvių suskirstytų į penkias grupes skaičius pateikiamas lentelėje (3.8 lentelė).

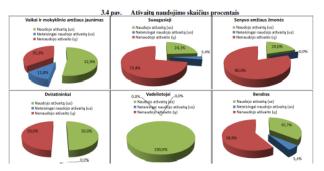
3.8 Lentelė Stebėtų eismo dalyvių skaičius

Eismo dalyvių grupė	Eismo dalyvių skaičius
Vaikai ir mokyklinio amžiaus jaunimas	17
Suaugusieji	29
Senyvo amžiaus žmonės	5
Dviratininkai	4
Vadeliotojai	1

Buvo nustatyti eismo dalyviai, teisingai naudojantys atšvaitą (us), neteisingai naudojantys atšvaitą (us) ir ju nenaudojantys. Rezultatai pateikti lentelėje (3.9 lentelė) ir paveiksle (3.4 pav.).

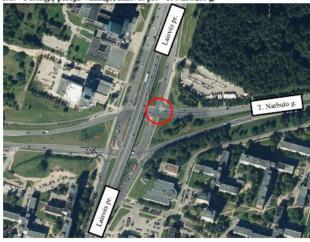
3.9 Lentelė Atšvaitų naudojimo skaičius procentais

Kelio Nr.	Vieta, km	Eismo dalyvių grupė	Eismo dalyvių skaičius, %		
			Naudojo atšvaita (us)	Neteisingai naudojo atšvaita (us)	Nenaudojo atšvaito (ų)
A8	46,3	Vaikai ir mokyklinio amžiaus jaunimas	52,9%	11,8%	35,3%
		Suaugusieji	24,1%	3,4%	72,4%
		Senyvo amžiaus žmonės	20,0%	0,0%	80,0%
		Dviratininkai	50,0%	0,0%	50,0%
		Vadeliotojai	100,0%	0,0%	0,0%
		Bendras	35,7%	5,4%	58,9%









Victa (Miestas, gatvė, koordinatė) Stebėjimo data ir laikas Pėsčiųjų perėjos tipas (reguliuojama, nereguliuojama) Bendras stebėtų pėsčiųjų kiekis			Vilnius, Laisvés pr T. Narbuto g., 578838, 6063278 2014-05-13 9:37-10:17 reguliuojama 146							
						Eil. Nr.	Rizikos veiksnys	Kiekis	Amžiaus grupė (0-20-60-100)	Pastabos
						1	Prieš įcidamas į perėją neapsidairo	0	0-0-0	2
						2	Eidamas per perėją tinkamai nesižvalgo	0	0-0-0	
3	Eina atitrauktu démesiu	3	0-3-0	Šneka telefonu.						
4	Eina de gant draudžiamam šviesoforo signalui	48	10-24-14	Netoli perėjos autobusų stotelė.						
5	Neatsargiai įbėga (arba greitai įvažiuoja dviračiu)	7	1-5-1	9						
6	Stovi perėjoje	. 1	0-1-0							
7	Eina nors automobilis pavojingai arti (nevertina atstumo ir greičio)	0	0-0-0							
8	Eina ne per perėją	12	0-8-4	Netoli perėjos autobusų stotelė.						
9	Kita	0	0-0-0	0						

Reguliuojama pėsčiųjų perėja šešių eismo juostų gatvėje viena kryptimi. Perėja į dvi dalis perskirta saugaus eismo salele, atskiriančia transporto srautus važiuojančius tiesiai ir sukančius į dešinę. Dažnais atvejais dvi į dešinę sukančiųjų eismo juostas, pėstieji kerta degant draudžiamam šviesoforo signalui. Susidaro pavojingos eismo situacijos, nes transporto priemonių vairuotojai kerta sankryža dideliu greičiu. Taip pat dažnais atvejais pėstieji gatvę kerta eidami ne per perėją.



Transport Competence Agency



activities on road infrastructure safety management



Vision Zero in transport – common goal of society



Government

- Ministries
- Municipalities
- Elderships

Social groups

- Cyclists
- Motorcyclists
- Vehicle clubs
- Hikers



Mass information

- Journalists
- Social media
- Bloggers

Emergency services

- Police
- Fire and resque service
- Medical service
- Road maintenance service

Education and science

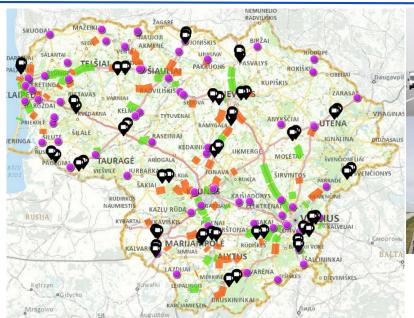
- Schools and kindergartens
- Universities
- Research centres
- Driving schools

Speed management

VILNIUS TECH

- Currently: 81 road sections + 70 fixed speed cameras
- Expansion this year: 50 road sections
- Cameras functionality expansion:
 - √ road tax payment
 - √ technical inspection
 - √ insurance validity
 - ✓ prohibited overtaking enforcement
- Portable speed cameras

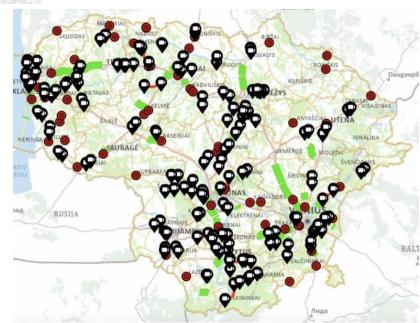






Established 70% fewer road accidents involving casualties





Attention to cyclists



infrastructure development for cyclists





ride priority misunderstandings







Attention to pedestrians



- The condition of all pedestrian crossings on national roads was comprehensively assessed → 90% of them are insufficiently safe;
- Applied measures (1700 crossings):
 - traffic speed not higher that 50 km/h
 - directional lighting
 - traffic islands
 - narrowing of roadway
 - safe and convenient access
 - peed reduction measures
 - o more prominent markings



















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Thank you for your attention