LIETUVOS RESPUBLIKOS SUSISIEKIMO MINISTERIJA

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Duomenys kaupiami ir saugomi Juridinių asmenų registre, kodas 188620589

Europos Komisijai 2020-08- Nr.

Į Nr.

DĖL PAŽANGOS ATASKAITOS PAGAL DIREKTYVOS 2010/40/ES 17 STRAIPSNIO 3 DALĮ PATEIKIMO

Lietuvos Respublikos susisiekimo ministerija vadovaudamasi 2010 m. liepos 7 d. Europos Parlamento ir Tarybos direktyvos 2010/40/ES „Dėl kelių transporto ir jo sąsajų su kitų rūšių transportu srities intelektinių transporto sistemų diegimo sistemos“ 17 straipsnio 3 dalimi, teikia pažangos, padarytos įgyvendinant Intelektinius transporto sistemų projektus ataskaitą (anglų kalba).

PRIDEDAMA. Progress Report to the European Commission on the progress made for the implementation of the Directive 40/2010/EU, 9 lapai.

Susisiekimo viceministras Gytis Mažeika

A. Gasiūnienė, tel. (8 5) 239 3958, el. p. aiste.gasiuniene@sumin.lt

PROGRESS REPORT TO THE EUROPEAN COMMISSION ON THE PROGRESS MADE FOR THE IMPLEMENTATION OF DIRECTIVE 40/2010/EU

I. OPTIMAL USE OF ROAD, TRAFFIC AND TRAVEL DATA

TRAVEL DATA - MULTIMODAL JOURNEY PLANNING (IS VINTRA)

In 2015, the Lithuanian Road Administration under the Ministry of Transport and Communications (hereinafter referred to as LRA) launched a new convenient route planning system. The route search and planning electronic service is based on the Public Transport Multimodal Journey Planning Database System (hereinafter referred to as IS Vintra), which enables to get all required information quickly, to compare a trip by public transport with that in a private car and thus to select the most suitable (the fastest, the shortest or the most economical) alternative.

IS Vintra is specific because it collects the route data of different public transport modes in Lithuania (road, air, water and railway). When planning a new route, the system will select the fastest, the most economical or the shortest route, will visualize its track, stops, will calculate the driving time, etc. The design of IS Vintra web page is adapted not only for computers but for other mobile devices (notepad and smart phones). Therefore, a passenger will be able to review relevant timetables, maps, timetables of the selected stop, find information on a concrete vehicle and its arrival and departure time. This system is available at the address: http://www.visimarsrutai.lt/.

The IS has been updated several times since 2015:

In 2018 more than 800 units of GPS devices were bought and installed in local buses. Currently, more than 90 percent of all local transport buses and trolleybuses are equipped with GPS onboard units and share their real time data.

In 2018 LRA and DG Move signed the Agreement "For the Implementation of Union-wide Multimodal Travel Information Services on TEN-T Network MOVE/B4-2017-350". The objective of the Agreement is to support the early implementation of the delegated regulation 2017/1926 under Directive 2010/40/EU in Lithuania, including public authorities, public transport operators and service providers, for the provision of Union-wide multimodal travel information services which apply to the TEN-T network. The Project will make the existing public transport data accessible in interoperable European data/format/exchange protocol via national access point/points and the direct linking of different local/regional and/or national multimodal travel information services. The Project will help both public transport data conversion to prescribed European interoperable standards in Lithuania. The Project shall result in an increased level of multimodal travel information along the core network and its corridors at an early stage. Furthermore, the Project shall facilitate the preparation of the national access point and establish a NeTEx National Profile that identifies the key elements of the data exchange standard at the access point.

LRA is in the final stages of the Project implementation. It is planned to create a NETEX-based single access point till the end of 2020.

INFORMATION ON THE IMPLEMENTED PROJECT "ROAD DATA E-SERVICE DEVELOPMENT"

In 2017 the LRA started the implementation of the project *Road Data E-service Development* when implementing national significance road maintenance and development and traffic safety policy on

national significance roads in order to organize and coordinate national significance road rehabilitation, maintenance and development. The project aims to create a progressive road data e-service for road data suppliers and economy entities using road data from centralized national and local significance road database, where road data were managed from the beginning until the end of the road asset life-cycle. The National and Local Significance Road Asset Management Information System will guarantee the creation of higher quality and more convenient e-services in the transport sector and provision at the Lithuanian and European level. Processes optimized during the project will have a positive impact on the LRA and municipality resources. It will facilitate and simplify road asset management, which will shorten working hours for entering data and similar mechanical actions. The implementation of road projects and the integration of the projects managed by municipalities into the Road Asset Management Information System of LRA will help to avoid duplication of the coordination and to concentrate on direct activities. The Road Asset Management Information System will contribute to the road maintenance quality assurance. It is planned to complete project activities by the beginning of 2021.

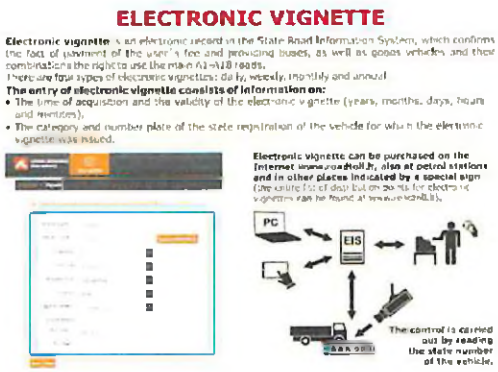
II. SUSTAINABILITY OF TRAFFIC AND FREIGHT MANAGEMENT ITS SERVICES

ELECTRONIC VIGNETTE

In 2018 the Lithuanian National Road Traffic Information System was created and the provision of pilot services was started. Road user charge could be paid in both ways: a conventional method (by buying a vignette) or a new method via information system till the beginning of 2019. Paper vignettes have been definitively abandoned since 2019. Currently, only the electronic vignette is circulating on the territory of Lithuania. The vignettes are distributed through the website www.keliumokestis.lt, which is adapted for both computer and mobile device as well as via distributors.

A road user has the choice to pay the charge using systems web page or at more than 400 user charge payment points at petrol stations or other places on the territory of the Lithuanian Republic near cross-border sections at the access road to toll national significance roads as well as other additional and convenient places to road users.

Information in English:https://sumin.lrv.lt/en/news/electronic-vignettes-come-into-force-in-lithuania



Lithuania has plans to move from a road user charge to the e-tolling system in the coming years. Preparatory works to change the legal framework is currently under way. Calculations of possible tax rates are performed and possible technical alternatives of the system are analyzed. The e-tolling system is scheduled to become operational in 2022.

iOS and Android APPLICATION EISMOINFO

On 10 May 2017 application *Eismoinfo* designed to inform road users on traffic conditions and to collect reports on traffic incidents or other relevant information was created. Mobile application *Eismoinfo* enables to:

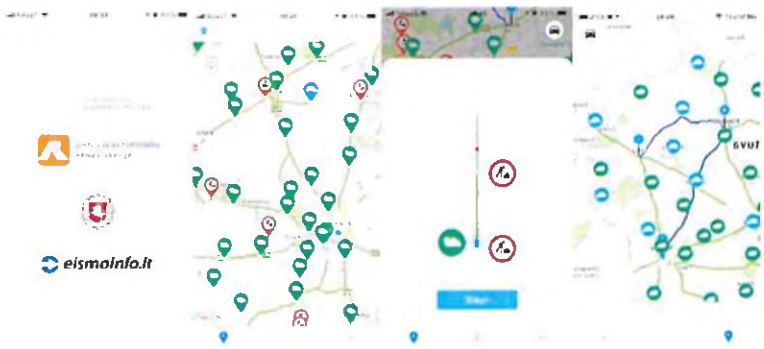
- **Review relevant and complete information on the map:** road condition, traffic volumes, traffic restriction, broadcasts of road-side cameras.
- **Review additional information.** Standard map information is supplemented with additional information from the app itself: additional map layers for places to visit, rest and electric vehicle charging stations, vignette distribution places.
- **Plan a route and see all relevant information.** Choose an origin and destination as well as mid-stops for the route and see all the relevant information either on a map or in a schematic line.
- **Receive *push notifications*** about relevant traffic and weather condition changes nearby and on the route.
- **Receive voice mails** on traffic disturbance on the planned route (traffic restriction due to works, traffic accidents, obstacles, etc.)
- **Report an issue on the route via a call or in-app.** In case of any obstacle or traffic violation of any kind, to report it with multimedia attachments using in-app form or just to make a call to the Traffic Information Centre operator.
- **Use the app as a dashcam.** The application has a dashcam working in a loop-over mode. Make a recording of any moment of the trip by defining pre- and post-recording intervals. The video is stored in the application for convenience.

"Eismoinfo" is an application that informs about the traffic and road conditions on national roads as well as helps report any issues noticed while traveling.

Application features include:

- Review relevant and complete information about traffic conditions on the map: road and weather conditions, information on traffic intensity and traffic restrictions, broadcasts of road-side cameras.
- Review additional information. Standard map information is complemented with additional information from the app itself: additional map layers for places to visit, rest areas, electric vehicle charging stations as well as headpiece distribution places.
- Plan a route and see all relevant information. Choose an origin and destination as well as mid stops for your route and see all the relevant information on either a map or a schematic line.
- Receive push notifications about relevant traffic and weather condition changes nearby and on the route.
- Report an issue on the route through a call or in-app. In case of any obstacle or traffic violation of any kind, to report it with multimedia attachments using in-app form or just make a call.
- Use the app as a dashcam. Application has a dashcam working in a loop-over mode. Make a recording of any moment of your trip by defining the pre- and post-recording intervals. The video is stored in the application for your convenience.

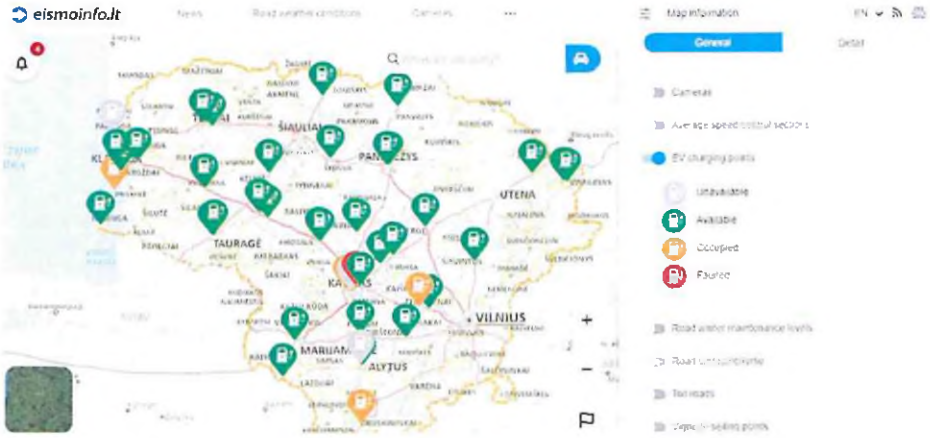
Information is provided in Lithuanian and English.



EV APPLICATION

Creation of electronic services for electric vehicle users: users may find electric vehicle public charging points via website www.eismoinfo.lt or, using mobile Eismoinfo application, observe the status of charging points from cameras and get real-time information from electric vehicle charging points.

Sample information available to the user on the website www.eismoinfo.lt is presented in the figure below.



All charging points managed by the LRA and municipalities (about 100 units) can be found on the website. The website provides both static (location, etc.) and dynamic (running/ failing, free/ in-use, etc.) information of the charging point.

The LRA and the European Commission have singed the Grant Agreement for the Programme Support Action (PSA) "Data Collection Related to Recharging/ Refuelling Points for Alternative Fuels and Unique Identification Codes Related to e-Mobility Actors" (IDACS).

According to the Agreement, the LRA shall:
- develop an approach and implement "a common ID registration repository" for exchanging information on these e-mobility ID codes across the Member States and for cross-referencing the assignment of new unique ID codes;
- collect missing data and ensure that all data of infrastructure for electricity are made available through the National Access Points, which are defined in Directive 2010/40/EU on Intelligent Transport Systems (ITS Directive) and the Commission Delegated Regulations in the format specified therein;
- support better consumer awareness and buy-in to the use of alternative fuels through better information about the location/ availability of alternative fuel infrastructure.

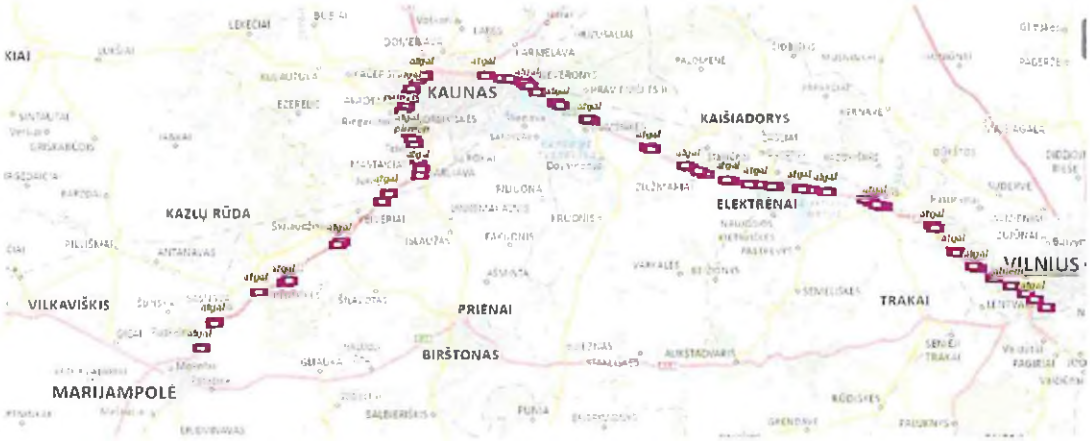
Web services for the transmission of data via NAP have already been developed. EV data can be accessed via the following links: http://eismoinfo.lt/eismoinfo-backend/feature-info/EIA/ID and http://eismoinfo.lt/eismoinfo-backend/layer-static-features/EIA?lks=true

ITS ROAD SAFETY AND SECURITY APPLICATIONS

Dynamic Traffic Management System

The implementation of the up-to-date measures planned under this project will enable high quality, dependable and safe dynamic traffic management on Via Baltica and Corridor IXB. The implemented measures will enable to improve traffic safety taking into account the actual traffic conditions and will enable to reduce travel time as well as the number of accidents and fatalities on the road.

It shall be pointed out that this project targets not only roads A1 and A5 that carry the highest traffic flows, but the roads of the highest economic value in the Republic of Lithuania. As a matter of fact, traffic volumes of light and heavy vehicles on both A1 and A5 roads have been increasing each year, which presumably will cause traffic safety, insufficient transport throughput, road user information and dynamic traffic management problems.



The project implementation will result in the development and implementation of the dynamic traffic management system on Via Baltica and IXB Corridor. The use of EU and the Lithuanian Republic budgetary means on roads A1 and A5 will enable to implement the following measures:

- Variable Message Signs;
- Traffic volumes and speed monitoring and analyzing devices;
- Weather and visibility sensors, wind speed, road surface and condition sensors.

Project's target group

The project's target groups are as follows: Lithuanian and foreign road users using Via Baltica and IXB Corridor, the Lithuanian Road Administration under the Ministry of Transport and Communications, road maintenance enterprise(s), emergency services and other institutions.

Indirect project's target group: other road users of the Lithuanian Republic.

The project's implementation is divided into two stages:

- Stage I: Road A1 between Vilnius and Kaunas (100 km road section). Currently, public procurement procedures have been completed. The contractor has already started the system's design works. Mounting will be started on the road at the end of 2020 – the beginning of 2021;
- Stage II: Road A5 between Kaunas and Marijampolė (60 km road section). Currently, preparations are made for public procurement procedures. It is planned to complete them and select a successful tenderer by the beginning of 2021. Implementation will be completed by the end of 2021– beginning of 2022.

Weight-in-motion (WIM) systems

Two types of WIM technologies are used in Lithuania: an accurate system (Multifunctional Traffic Enforcement System) with automatic enforcement and a non-automated system (preselection) that helps to select potential offenders from the entire flow. There are 6 check-points installed (3 check-points of Multifunctional Traffic Enforcement System, and 3 check-points of preselection) on the main roads of Lithuania (see map below).

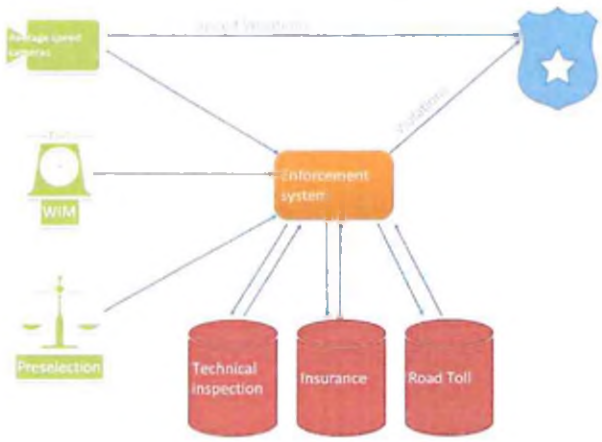
Multifunctional Traffic Enforcement System

The implementation of Multifunctional Traffic Enforcement System has been started on the main roads. In total, three check-points have been installed on the roads.

The system will not only weigh the cars, but will also register their dimensions, read number plate data and collect traffic volume statistics. The data collected by these systems are used to check if the road user charge has been paid and if a vehicle has been insured and carries a valid technical supervision certificate.

The aim of the system is to send a fine cheque for vehicle holders who exceeded the weight limits or made other violations in the same manner as an identified violator gets the speeding fine cheque now.

Schematic view of enforcement system in Lithuania



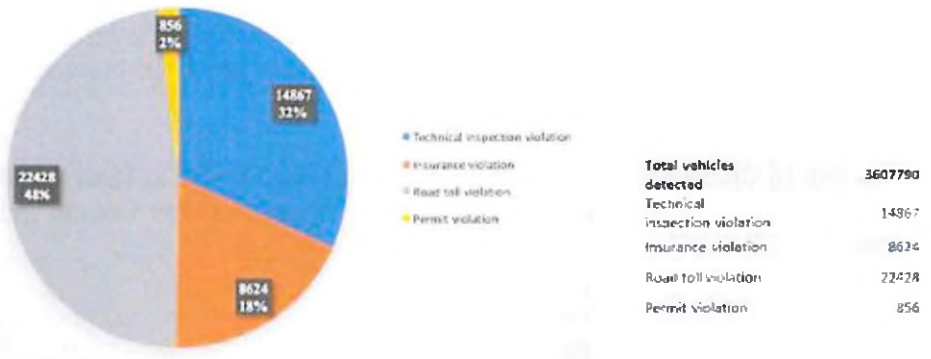
Violation enforcement system is being implemented on three high traffic volume road sections in Lithuania on the highway *Vilnius–Kaunas* near the Kaunas Sea, on the road Via Baltica between Kalvarijos and the Lithuanian–Polish border and on the road *Kaunas–Zarasai–Daugavpils* near Jonava.

Gantries have been installed on the road. Sensors measure the vehicle's dimensions; video cameras record front, lateral and rear view of the vehicle and identify number plates as well as record possible acts of vandalism.

The violation enforcement system identifies:
- Vehicle's weight, exceeded axle loads;
- Heavy vehicles using the roads without permit;
- Vehicles without valid technical supervision certificate;
- Not insured vehicles;
- Traffic flow speed and volumes;
- Types of vehicles;
- Routes of vehicles.

Statistics of violations

Violations (May-July)



PRESELECTION

The system monitors violations of road traffic regulations; however, it does not fine automatically, but helps officers to identify overloaded trucks in the main flow.

Automatic preliminary weighing equipment (systems) installed in addition to the existing traffic volume counters on two traffic lanes (in one direction) will measure vehicle's axle loads and the total weight of each car without impacting and stopping cars. Vehicle number plate recognition camera will read the vehicles license plate number. Afterwards the combined data package is sent to Enforcement system for processing.

AVERAGE SPEED MEASURING SYSTEMS

Principle of action. Average speed cameras consist of two cameras, which are in different places of the same road, and back office software in the data center. When the driver passes the first camera, the vehicle's number plate is identified and sent to the back-office software. The second speed camera performs the same action and only then the data obtained in the central software from both cameras are compared and average driving speed is calculated. If speed violation is calculated encoded data package is sent to the Register of Administrative Offences, where the protocol of the violation is formed.

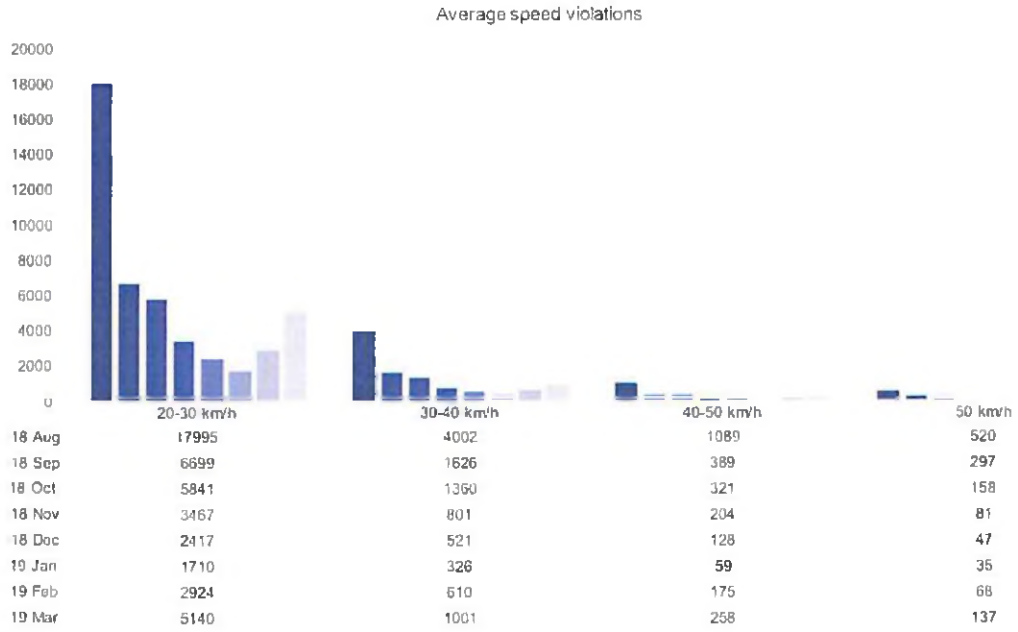
This system is implemented due to its extremely high efficiency in terms of traffic safety. Tests have shown that when this measure has been implemented on the road section, a number of road accidents and fatalities can be reduced by up to 85 per cent.

AVERAGE SPEED MEASURING CONTROL SECTIONS:

No	Road No	Road name	Beginning of the section, km	End of the section km	Section length, km
1	A12	Riga–Šiauliai–Tauragė–Kaliningrad	168.944	173.581	4.637
2	A12	Riga–Šiauliai–Tauragė–Kaliningrad	7.041	10.242	3.201
3	A11	Šiauliai–Palanga	40.326	47.445	7.119
4	A7	Marijampolė–Kybartai–Kaliningrad	8.521	11.225	2.704
5	A4	Vilnius–Varėna–Grodno	87.938	96.228	8.29
6	A15	Vilnius–Lida	19.946	24.447	4.501
7	A3	Vilnius–Minsk	12.519	17.711	5.192
8	A16	Vilnius–Prienai–Marijampolė	36.639	43.504	6.865
9	A6	Kaunas–Zarasai–Daugavpils	154.77	158.173	3.403
10	A9	Panevėžys–Šiauliai	14.03	20.555	6.525
11	A8	Panevėžys–Aristava–Sitkūnai	47.99	53.23	5.24
12	A5	Kaunas–Marijampolė–Suwałki	76.936	80.368	3.432
13	A10	Panevėžys–Pasvalys–Riga	46.902	50.462	3.56
14	A12	Riga–Šiauliai–Tauragė–Kaliningrad	113.13	118.301	5.171
15	141	Kaunas–Jurbarkas–Šilutė–Klaipėda	44.526	50.712	6.186
16	141	Kaunas–Jurbarkas–Šilutė–Klaipėda	164.013	168.989	4.976
17	164	Mažeikiai–Plungė–Tauragė	80.812	86.173	5.361
18	122	Daugavpils–Rokiškis–Panevėžys	93.193	97.295	4.102
19	102	Vilnius–Švenčionys–Zarasai	77.198	81.946	4.748
20	103	Vilnius–Polock	18.461	22.157	3.696

21	A13	Klaipėda–Liepāja	33.309	36.184	2.875
22	A16	Vilnius–Prienai–Marijampolė	83.868	88.293	4.425
23	130	Kaunas–Prienai–Alytus	41.615	44.919	3.304
24	A6	Kaunas–Zarasai–Daugavpils	112.107	114.237	2.13
25	A8	Panevėžys–Aristava–Sitkūnai	13.013	17.902	4.889

After the system had been launched at the end of 2018, the number of speeding cases decreased significantly (graph below).
Based on positive findings, the LRA decided to expand the system and to install 106 new sections by 2022.



Lithuania will continue to use ITS to further ensure effective reduction of congestion and accidents, control of traffic management, increase of choice of public transport, and availability of comprehensive and clear information to users.

DETALŪS METADUOMENYS	
Dokumento sudarytojas (-ai)	Lietuvos Respublikos susisiekimo ministerija 188620589, Gedimino pr. 17, 01505 Vilnius
Dokumento pavadinimas (antraštė)	DĖL PAŽANGOS ATASKAITOS PAGAL DIREKTYVOS 2010/40/ES 17 STRAIPSNIO 3 DALĮ PATEIKIMO
Dokumento registracijos data ir numeris	2020-08-13 Nr. 2-4045
Dokumento gavimo data ir dokumento gavimo registracijos numeris	–
Dokumento specifikacijos identifikavimo žymuo	ADOC-V1.0
Parašo paskirtis	Pasirašymas
Parašą sukūrusio asmens vardas, pavardė ir pareigos	Gytis Mažeika, Susisiekimo viceministras, Vadovybė
Sertifikatas išduotas	GYTIS,MAŽEIKA LT
Parašo sukūrimo data ir laikas	2020-08-12 17:02:12 (GMT+03:00)
Parašo formatas	XAdES-T
Laiko žymoje nurodytas laikas	2020-08-12 17:02:26 (GMT+03:00)
Informacija apie sertifikavimo paslaugų teikėją	EID-SK 2016, AS Sertifitseerimiskeskus EE
Sertifikato galiojimo laikas	2019-11-15 18:53:43 – 2024-11-13 23:59:59
Informacija apie būdus, naudotus metaduomenų vientisumui užtikrinti	"Registravimas" paskirties metaduomenų vientisumas užtikrintas naudojant "RCSC IssuingCA, VI Registru centras - i.k. 124110246 LT" išduotą sertifikatą "Dokumentų valdymo sistema Avilys, Lietuvos Respublikos susisiekimo ministerija, į.k.188620589 LT", sertifikatas galioja nuo 2018-12-27 13:55:24 iki 2021-12-26 13:55:24
Pagrindinio dokumento priedų skaičius	1
Pagrindinio dokumento pridedamų dokumentų skaičius	–
Pridedamo dokumento sudarytojas (-ai)	–
Pridedamo dokumento pavadinimas (antraštė)	–
Pridedamo dokumento registracijos data ir numeris	–
Programinės įrangos, kuria naudojantis sudarytas elektroninis dokumentas, pavadinimas	Dokumentų valdymo sistema Avilys, versija 3.5.28.1
Informacija apie elektroninio dokumento ir elektroninio (-ių) parašo (-ų) tikrinimą (tikrinimo data)	Atitinka specifikacijos keliamus reikalavimus. Visi dokumente esantys elektroniniai parašai galioja (2020-08-13 08:51:52)
Paieškos nuoroda	–
Papildomi metaduomenys	Nuorašą suformavo 2020-08-13 08:51:52 Dokumentų valdymo sistema Avilys