Advanced traffic management on E67 transport corridor (SMART E67)

Programme Priority: P3 Well-connected region

Programme Specific Objective: 3.1. Improved transport flows of people and goods

Sub-programme: Central Baltic

Duration: 02.11.2015 - 31.10.2019

Total funding: 2.458.999 EUR

ERDF funding: 2.090.149 EUR ERDF

Project Summary:

The project SMART E67 aims at increasing efficiency and safety of passenger and cargo mobility in the Central Baltic region by introducing Intelligent Transport Systems (ITS) on a key transport corridor in Estonia and Latvia. In both countries among other routes, the E67 transport corridor has the highest annual average daily traffic rates. While basic road infrastructure has been modernized on E67 transport corridor in Latvia and Estonia, traffic information and management systems need improvements to ensure efficient, environment friendly, safe passenger and cargo transport.

In practice the project introduces the ITS elements via pilot investments by developing adaptive traffic management-roadside variable message signs, modernized traffic lights, road weather information systems and other equipment providing to traffic participants timely, efficient and accurate traffic information. The project is implemented in cooperation with the Latvian State Roads and Estonian Road Administration.

The project results in adding information, management and communication technology to E67 transport corridor covering 202 km in Latvia and 192 km in Estonia. E67 road is more efficient which decreases travel time of passengers and cargos. Traffic information about road conditions, road works, congestions, and accidents contribute to the achievement of traffic efficiency whereas roadside telematics reduce traffic accidents. All in all, project E67 results contribute to the achievement of traffic efficiency, safety and reduction of CO2 emissions.

Map of Partners

Partners

Lead Partner

Latvijas Republikas Satiksmes ministrija

Country: LV

http://www.sam.gov.lv [1]

Partner budget: 1.413.751 EUR

Amount of ERDF funding: 1.201.688 EUR ERDF

Project Partners

MAANTEEAMET

Country: EE

www.mnt.ee [2]

Partner budget: 1.045.249 EUR

Amount of ERDF funding: 888.461 EUR ERDF

Associated Partners

Liikennevirasto

Country: FI

Results

Expected results

Achieved results

Project result in category - Improved transport flow of goods

Smart E67 improved the transport corridor Via Baltica (road E67)

Project improved the transport corridor Via Baltica (road E67), a key North-South direction transport corridor in Estonia and Latvia by taking into use Intelligent Transport System. Project activities included installation of new road weather stations, different variable message and warning signs as well as improvement of the existing traffic lights by making them to work in adaptive regime considering impulses given by traffic sensors.

In order to operate Intelligent Transport System equipment installed on the road, both Estonian and Latvian Traffic Information Centres IT infrastructure was upgraded introducing the cloud services. Necessary software was

developed to ensure the synergy among the new and existing systems of both partners. In addition, project partners developed a common platform and procedures on what data how should be collected and processed to be usable for both countries to manage the traffic flow in the full length from Tallinn to border of Lithuania.

All new technologies and methods are synchronized with already existing traffic management systems and systems between countries; therefore, they are in use on a daily base and will be exploited in compliance with requirements issued by the producers.

An extensive information campaign was carried out to introduce the innovations on road E67 to the target group - drivers using the road. Information was provided to general public using leaflets, radio, TV broadcasts etc. In addition, videos with Estonian, Latvian, Russian and English subtitles were produced and disseminated via different channels https://www.youtube.com/playlist?list=PLQMKDpzUPO6DaQBj7UzjMH7lPShpaqj52 [3]

To assess the traffic situation and its improvements on the chosen road, a *Study on the effectiveness and on the improvements of the Central Baltic transport Project „Smart E67“* was carried out as ex-ante and ex-post evaluation. Based on the ex-post evaluation:

- Average driving time on the E67 route sections has been reduced by 2,05 minutes per vehicle;
- Average total travel time on the route sections has been decreased by 0,747%;
- The annual total travel time savings on E67 route sections is 192 000 hours/year.

Road Intelligent Transport System design and implementation won the 1st prize in the contest of new engineering structures of 2018 [4] by Building design and Construction Council in Latvia.

Project website: Smart E67 [5] (in Latvian) and Facebook page [6] (in English)

Project page in database
Advanced traffic management on E67 transport corridor [7]
At a glance

- Used Intelligent Transport System.
- Installed new road weather stations, signs, improved existing traffic lights.
- The annual total travel time savings on E67 route sections is 192 000 hours/year.

Files
Smart E67 Ex-ante evaluation [8]
Smart E67 Ex-post evaluation [9]
Tags
Transport and mobility [10]
Improving transport connections [11]
infrastructure [12]

Project Visibility

Social media links

Webpage (Latvian language) [13]

Facebook page [6]

Other media visibility

Automaatika hakkab hoiatama tagasipöördele suunduva auto eest [14]

Papiniidu silla elektroonsed liiklusmärgid hakkavad peagi tööle [15]

Elektroonsete liiklusmärkide juhtimissüsteemi valmimine lükkub uude aastasse [16]

500 kilomeetrit kattev nutikate liiklusmärkide süsteem võtab ilmet [17]

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Muutteabega märgid annavad võimaluse talvel senisest kiiremini sõita [19]

Algab elektrooniliste liiklusmärkide paigaldus [20]

??????????? ????????? ? ????? ?? ????? ???????-????? ???????? ? 2019 ???? [21]

Kadri Simson: Balti riigid peavad transpordialaste edusammude saavutamiseks koostööd tegema [22]

Galerii: Pärnusse hakati paigaldama elektroonseid liiklusmärke [23]

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Pärnusse hakati paigaldama elektroonseid liiklusmärke [25]

Tallinna–Ikla maanteel testitakse nutikaid liiklusmärke [26]

Maanteeamet testib Tallinna–Pärnu maanteel elektroonilisi liiklusmärke [27]

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Tallinna–Ääsmäe lõigul hakati testima elektroonilisi liiklusmärke [32]

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Muutuva teabega elektrooniliste liiklusmärkide testimine oli edukas [34]

Eesti maanteel hakkab tööle tavatu hoiatussüsteem [35]

Maanteeamet alustab uudse sõidukite tuvastus- ja hoiatussüsteemi katsetamist [36]

Automaatika hakkab Tallinna-Pärnu teel hoiatama tagasipöördele suunduva auto eest [37]

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Tallinn-Pärnu maanteel hakati testima nutikat hoiatussüsteemi [40]

Maanteeamet testib muutuva teabega hoiatussüsteemi [41]

Project videos

https://www.youtube.com/watch?v=JTKL1t5-Cq8
https://www.youtube.com/watch?v=1ubKzgluD5k

Source URL:https://database.centralbaltic.eu/printview/33

Links
[1] http://www.sam.gov.lv [2] http://www.mnt.ee [3] https://www.youtube.com/playlist?list=PLQMKDpzUPO6DaQBj7UzjMH7lPShpaqj52 [4] https://www.buvniekupadome.lv/konkurss/konkursa-latvijas-buvniecibas-gada-balva-2018-rezultati/ [5] https://lvceli.lv/celu-tikls/projekti/interreg-projekti/smart-e67-uzlabota-satiksmes-vadiba-e67-transporta-koridora/ [6] https://www.facebook.com/smarte67/ [7] https://database.centralbaltic.eu/project/33 [8] https://database.centralbaltic.eu/sites/default/files/Smart_E67_Exante%208-2016.pdf [9] https://database.centralbaltic.eu/sites/default/files/smart67_expost_9-2019.pdf [10] https://database.centralbaltic.eu/tags/transport-and-mobility [11] https://database.centralbaltic.eu/tags/improving-transport-connections [12] https://database.centralbaltic.eu/tags/infrastructure [13] https://lvceli.lv/projekti/ [14] http://www.pealinn.ee/newset/automaatika-hakkab-hoiatama-tagasipoordele-suunduva-auto-eest-n222404 [15] https://parnu.postimees.ee/4509663/papiniidu-silla-elektroonsed-liiklusmargid-hakkavad-peagi-toole [16] https://parnu.postimees.ee/6400621/elektroonsete-liiklusmarkide-juhtimissusteemi-valmimine-lukkub-uude-aastasse [17] https://parnu.postimees.ee/6498762/500-kilomeetrit-kattev-nutikate-liiklusmarkide-susteem-votab-ilmet [18] https://rus.err.ee/914544/dorogoj-s-naibolee-intensivnym-dvizheniem-prodolzhaet-ostavatsja-shosse-tallinn-pjarnu-ikla [19] https://headteed.postimees.ee/6871481/muutteabega-margid-annavad-voimaluse-talvel-senisest-kiiremini-soita [20] https://parnu.postimees.ee/4310361/algab-elektrooniliste-liiklusmarkide-paigaldus [21] https://rus.err.ee/642905/jelektronnye-infotablo-i-znaki-na-shosse-tallinn-pjarnu-pojavjatsja-v-2019-godu [22] http://www.pealinn.ee/newset/kadri-simson-balti-riigid-peavad-transpordialaste-edusammude-n206149 [23] https://parnu.postimees.ee/4327529/galerii-parnusse-hakati-paigaldama-elektroonseid-liiklusmarke [24] https://rus.postimees.ee/4327867/foto-na-dorogah-estonii-ustanavlivayut-elektronnye-znaki [25] https://parnu.postimees.ee/4327885/parnusse-hakati-paigaldama-elektroonseid-liiklusmarke [26] https://www.ohtuleht.ee/847733/tallinnaikla-maanteel-testitakse-nutikaid-liiklusmarke [27] https://www.delfi.ee/news/paevauudised/eesti/maanteeamet-testib-tallinnaparnu-maanteel-elektroonilisi-liiklusmarke [28] https://www.auto24.ee/uudised/uudised.php [29] https://parnu.postimees.ee/4351703/parnumaal-asutakse-elektroonilisi-liiklusmarke-testima-tuleval-nadalal [30] https://majandus24.postimees.ee/4351757/tallinna-parnu-loigul-testitakse-elektroonilisi-liiklusmarke [31] https://auto.geenius.ee/rubriik/uudis/parnu-maanteel-alustati-nutikate-liiklusmarkide-testimist/ [32] https://online.le.ee/2017/12/21/tallinna-aasmae-loigul-hakati-testima-elektroonilisi-liiklusmarke/ [33] https://www.logistikauudised.ee/uudised/2017/12/29/maanteeamet-testib-elektroonilisi-liiklusmarke [34] http://www.pealinn.ee/newset/muutuva-teabega-elektrooniliste-liiklusmarkide-testimine-oli-edukas-n210701 [35] https://www.postimees.ee/4497635/eesti-maanteel-hakkab-toole-tavatu-hoiatussusteem [36] https://www.accelerista.com/uudis/eesti/katsetama-susteemi/ [37] https://www.err.ee/836190/automaatika-hakkab-tallinna-parnu-teel-hoiatama-tagasipoordele-suunduva-auto-eest [38] https://rus.postimees.ee/4497644/na-estonskom-shosse-zarabotala-neobychnaya-sistema-preduprezhdeniy [39] https://rus.err.ee/836200/avtomatika-na-shosse-tallinn-pjarnu-budet-preduprezhdat-o-razvorachivajuwihsja-mashinah [40] https://auto.geenius.ee/rubriik/uudis/tallinn-parnu-maanteel-hakati-testima-nutikat-hoiatussusteemi/ [41] https://www.logistikauudised.ee/uudised/2018/06/01/maanteeamet-testib-muutuva-teabega-hoiatussusteemi