

# **SMART E67: results and influence**



Latvian State Roads SMART E67 project manager



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## **Key data**

Objective: SMART E67 project aims to increase efficiency and safety of passenger and cargo mobility in the Central Baltic region by introducing ITS on E67 transport corridor.

<u>Target KPI:</u> a decrease of average travel time by <u>0,57%</u>, (approx. 1,5-2min. per vehicle on route or 70000+ hours saved yearly) if compared to the current situation in the influenced route's section of almost <u>400km</u>.

Total budget: **2,46** mil.EUR of which **2,09** mil.EUR (85%) is EU (ERDF) co-financing.

<u>Traffic management measures:</u> <u>42</u> spots & sections are equipped with overall <u>116</u> ITS units.

<u>Implementation period:</u> **4** years (11.2015. – 11.2019.)

<u>Initiation:</u> kick-off meeting of the previous BRA working cycle (11.2014.)



## New experience and challenges



- Open competition (1st call of Interreg CB 2014-2020).
- "Life cycle" project's type (combined investments & "soft" activities).
- R&D components included (complementary studies & pilots).
- Tight international partnership (mainly joint approach to management).
- Introduction of new traffic management (TM) measures in practice.
- Ambitions and allocations initially were not well-balanced (estimations).



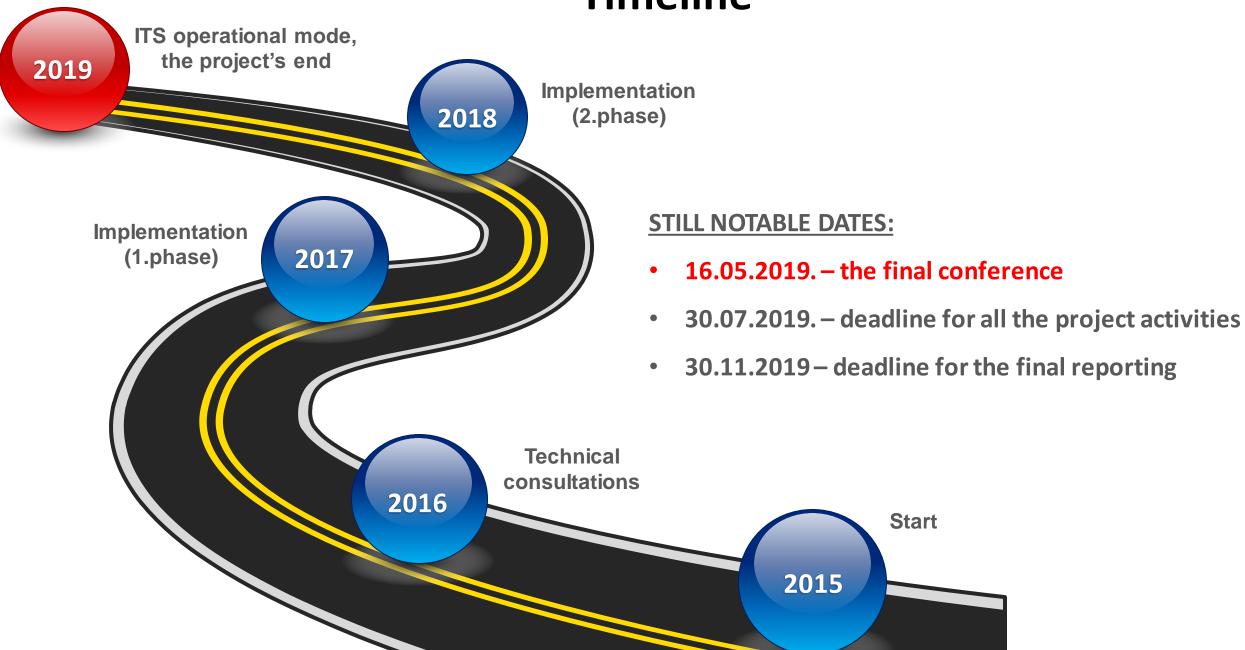
# Thematical scope (working packages)

- Technical consultations (feasibility study, ex-ante/ex-post analysis, technical design);
- Deployment of road ITS installations (VMS, traffic sensors, RWS, IMS and prep. works);
- TIC adaptation (complex software, staff training);
- Communication to the target groups (incl. info campaign and conference);
- Project's management (supportive measures, provided by the partners).

NB: the first extensive deployment of variable message signs (VMS) for traffic management in Latvia and Estonia.



### **Timeline**



#### **Production scheme**



MANAGEMENT & IMPLEMENTATION





Partner (EE)



Associate partner (FI)

ITS DEPLOYMENT











THE OTHER KEY EXTERNAL SERVICES



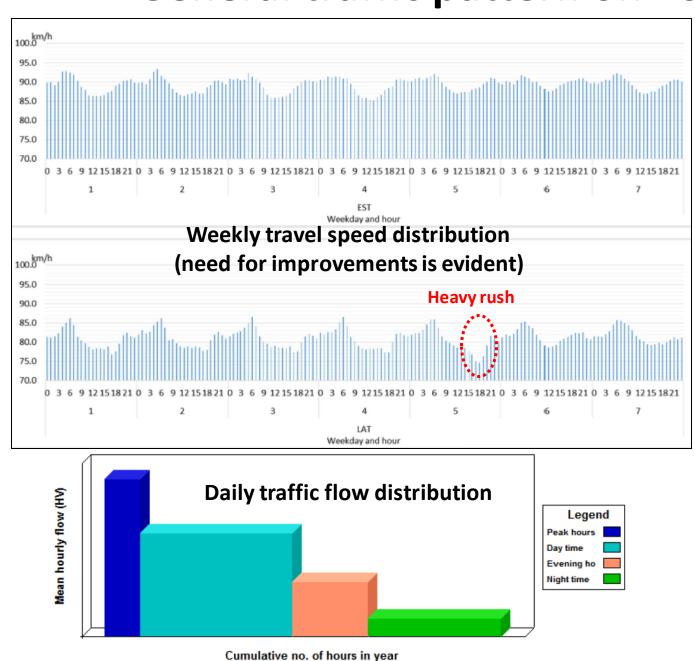


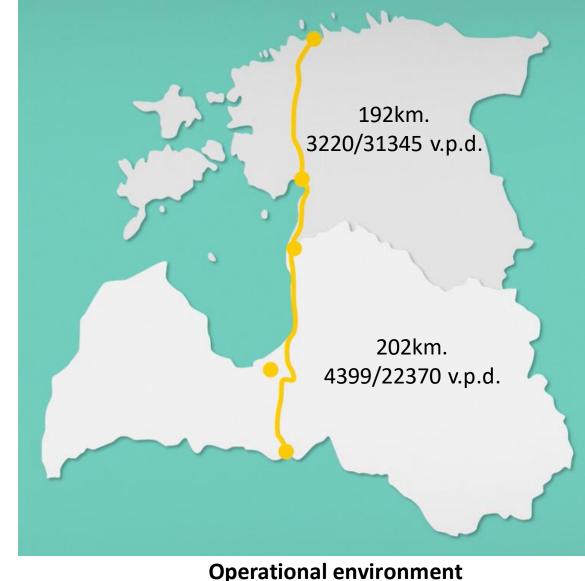




## General traffic pattern on E67 (2016., ex-ante analysis)







#### SMART E 67

## The project's service concept (2016., feasibility study)



#### **KEY FEATURES:**

- harmonization between the partners;
- compliance to the EIP;
- cohesion to the existing ITS elements;
- further scalability to the road network.

# The project's key TM technologies





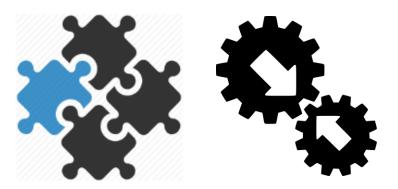
Variable message signs







The advanced traffic/environment detection



The integrated approach to the operational TM solutions



# The main differencies in TM approach between the partners

#### LV:

- various scattered TM spots along the route;
- IMS pilots for 2 locations;
- in-depth RWS/VMS(only warning type) integration on-site.



#### EE:

- sections' approach to traffic control (2 main stretches);
- emphasize on VMS deployment (more units and types).

## **Cross-boarder cooperation LV-EE**



Participants of LV-EE TM training (Tallinn, 03.2019.)

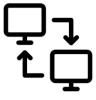
Knowledge transfer (meetings, info exchange etc.)



Joint efforts (decision-making process & some procurements)



• TM coherence provision (common procedures & tech. compatibility)





# The project's results



#### **Target (traffic) oriented:**

- Travel time savings
- Better traffic safety
- Less veh. emissions



#### Added value (planned):

- External investments, attracted to the assets
- Staff development, inc. covering expenses
- Scalability of the created TM solutions

Positive PR



#### **Synergy (unplanned):**

- Cost savings, transferred to the additional activities
- Better functionality of the delivered ITS products

## Acknowledgements

The project's activity: Design and works on SMART E67 road ITS elements in Latvia (single contract with "Fima Group")

**Contest:** Industrial prize of the year, awarded by "Latvian building, design and construction council"

Latvija 100 KONKURSS

Ranking: the 1.place in the category of new engineering constructions, 2018.





## The project's related PR activities (VMS use oriented)





TV programs

#### Autovadītājus sagaida jaunas – mainīgās ceļa zīmes

VAS "Latvijas Valsts ceļi" (LVC) jau vairākus gadus strādā pie projekta, kas Via Baltica (E67) maršrutā paredz ieviest viedās transporta sistēmas – mainīgās ceļa zīmes, viedos luksoforus u.c. Par projekta virzību "Autoceļu Avīzei" stāsta projekta komunikācijas vadītājs Lauris Vilnītis.

palta fona, taču tie būs tie paši Latvijā un Eiropā pienemtie ojumi, brīdinājuma un infor-

ierobežojumu. Šo zimju gal-venais uzdevums, sekojot lidzi aktuālajiem braukšanas apskā parastajām ceļa zīmēm - ja uz elektroniskā displeja būt attēlots ātruma ierobežojums 50 tākļiem un situācijai uz ceļa, no Ainažiem līdz Rīgai. uzlabot satiksmes drošību. Cik vietās šādas mainīgās km/h, tad, braucot átrák, auto-

Autovadītājiem būs jā- ceļa zīmes plānots uzstādīt? brīdinājumu par miglu vai slidenu celu, bet iau nāka-

**Newspapers** 

13 vietas ar mainīgajām ceļa (SIC) dispečeriem. SIC speciālis zīmēm un divās vietās attēlo- ti, redzot tielsaistē kādu kļūdu



SMART F67

**SMART** 

E 67

Social networks (FB)





The dedicated infographics and leaflets





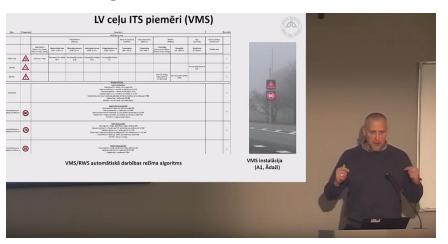
The promotional video

### SMART E 67

# The project's introducuction to the professional community







https://www.youtube.com/watch?v=BTPSleDvsSg

#### **Presentation**



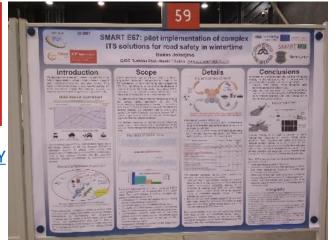
http://www.balticroads.org/index.php/conference/ presentations-and-papers/tallinn-2017.html

**Proceeding & presentation** 



https://drive.google.com/drive/folders/1WL9yWLFbDlcVY CrL31hkRr3m84TiSfd7

**Proceeding & poster** 





## **Lessons learned**





#### **KEY SUCCESS FACTORS**









## **Thank You for attention!**









