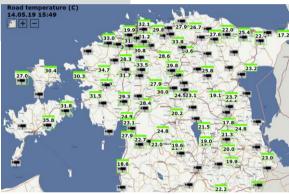


# SMART E67 LESSONS LEARNED AND NEXT STEPS IN DYNAMIC TRAFFIC MANAGEMENT

16.05.2019

## The situation before SMART E67 project in Estonia

Good road weather station and road camera network mainly for road maintenance purposes



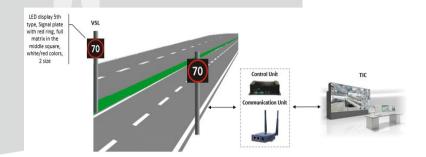
❖ 3 variable message signs with no central management





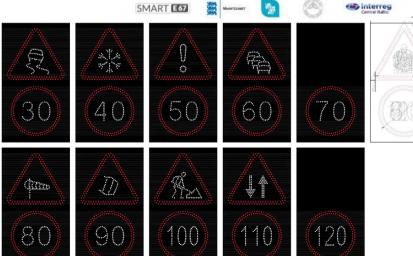
Operational traffic and road information provided only by press releases, website and mobile apps

#### **SMART E67** project









#### **SMART E67** main Estonian outputs

- ❖ Weather and road conditions dependable variable speed and warning signs – Laagri-Ääsmäe 4-lane road section (13 km) and Pärnu Papiniidu bridge – 30 pcs
- \* Rahula U turn vehicle recognition system



- ❖ VMS information boards Exit of cities, on Latvian border and near important junctions 8 pcs
- Development of existing traffic light systems
   Pärnu bypass road section





#### **Project impacts for ERA**

Traffic Information Center

Traffic Management Center







- Traffic Management common software platform OMNIA (all future dynamic traffic implementations will be integrated)
- Huge "in-house" knowledge gained in technical, market, organizational issues in the field of ITS
- ❖ ITS importance is better recognized all over the administration for future planning and strategic decisions

#### **Lessons** learned

- ❖ Traffic management software is not ready on the shelf for you for easy implementation. You are most probably "first in the world" with quite a few of your needs and requirements and devil is in the details so prepare sufficient time for development
- Proper market research and thorough tender preparation are crucial for succesful tender process
- Getting best practice from "developed countries" in the field of ITS is invaluable (Thank you Finnish Transport Agency!)
- ❖ Positive public opinion creates higher expectations drivers demand more demand creates possibilities for future implementations

#### **Technical lessons**

- Wireless network (4G) is OK for VMS communication
- Technology is sometimes "too efficient" for our conditions

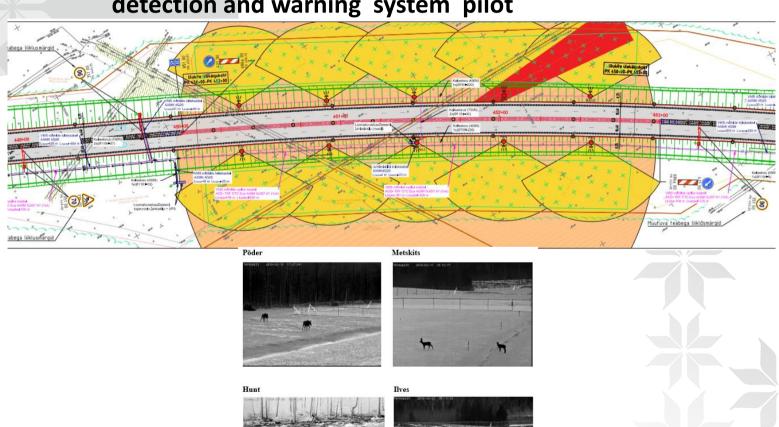


What's the speed?

- Construction (mounting structure) design is also very important part when planning "new" ITS equipment
- ❖ Totally automatic, road weather station based variable speed management is very difficult to achieve – in winter time TMC operator is needed

#### Inspiration for next projects 1

❖ Road no 2 Kose-Võõbu 26 km new road section — RWS controlled variable speed and warning VMS + wildlife detection and warning system pilot



#### Inspiration for next projects 2

2019-2023 Tallinn ringroad ITS project— (co-funded by CEF), variable speed, warnings, AID, accident rerouting, C-ITS (V2I/I2V) repeaters and smart truck parking



- Long term vision: all 2+2 lane highways equipped with cost effective dynamic traffic management
- \* Next balticwide crossborder project .....?

#### Thank you very much

**❖**IB Foor



\*AS Teede Tehnokeskus Tehnokeskus



**❖** ERC Konsultatsiooni OÜ



**❖**S4ID



Latvian State Roads



#### What's the purpose of all this?

❖ To increase safety and decrease time of travel by providing operational and preventive information for the affected road users



### Thank You!

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