Road Traffic Control Centre
Tallinn Transport Department

Raimond Nõugast

Tallinn

Road Traffic Control Centre

Tallinn 159.2 km2, population 437 811, density 2800/km2

- Traffic light management - **293** controllers and **403** intersections, **66** VSL

  175 controllers in OMNIA, 128 controllers in OmniVue (19.01.23)

  All of the controllers can be managed from the central management system from the

  beginning of 2020 (In 2014 there were 60 controllers integrated to the central management)

  2018-2019 from observer to informant!

- **49** intersections with public transport prioritisation

- Vehicle counting system (46 intersections, **440** detectors) (01.02.23)

  http://seire.tallinn.ee/

- Management of traffic cameras (**208** cameras) (01.02.23) http://ristmikud.tallinn.ee/

- Development of VIP traffic service (2017)

- Development of traffic weather station (2017-2018)

- Development of overspeeding and red light driving violation system (2023)

OMNIA

- Central management for ITS infrastructure (traffic lights system, VMS/VSL, detectors)

- Supports adaptive traffic light control (needs SPOT unit at the adaptively controlled intersection)

- Allows to replay phases of signal lights

4
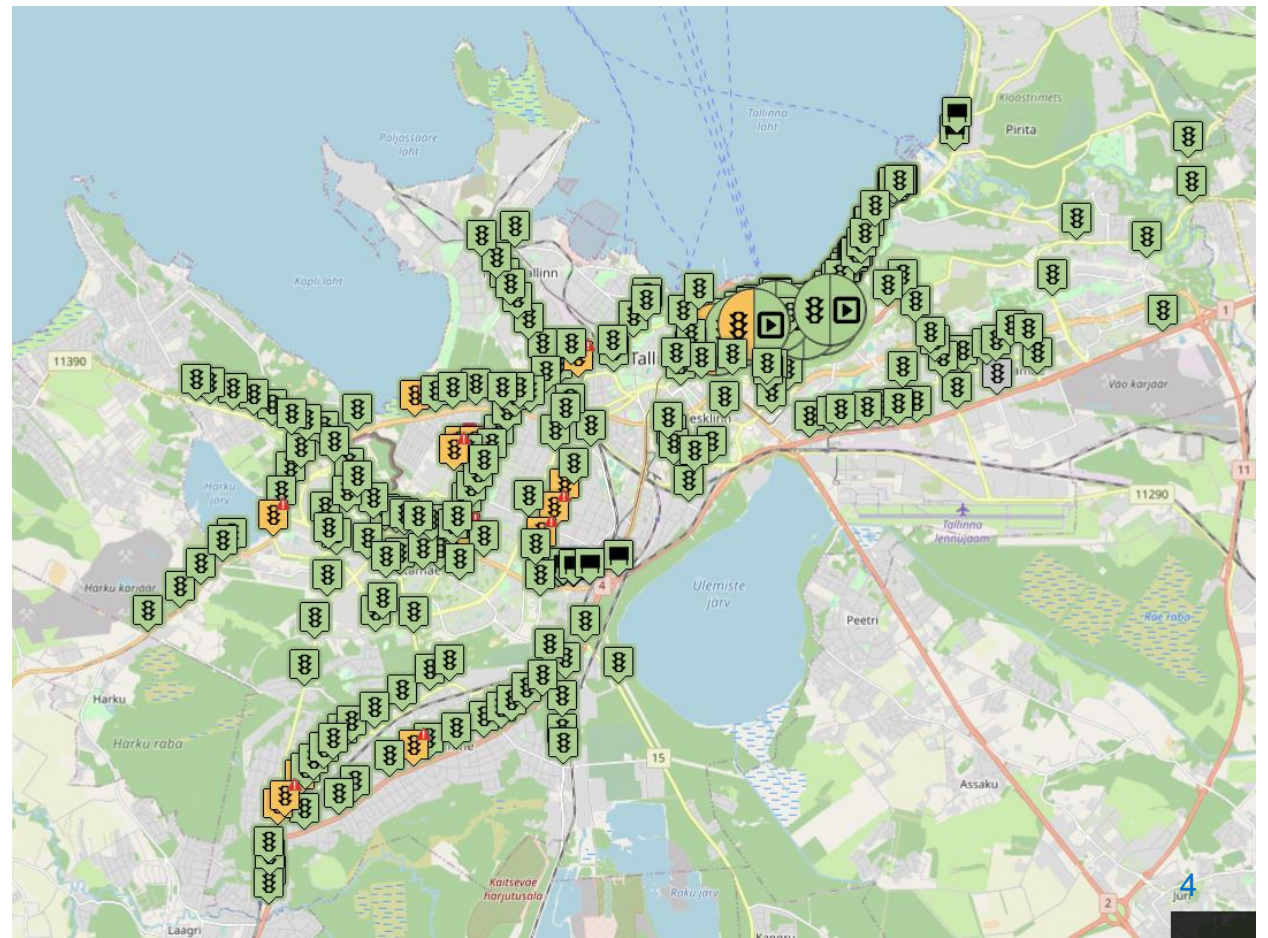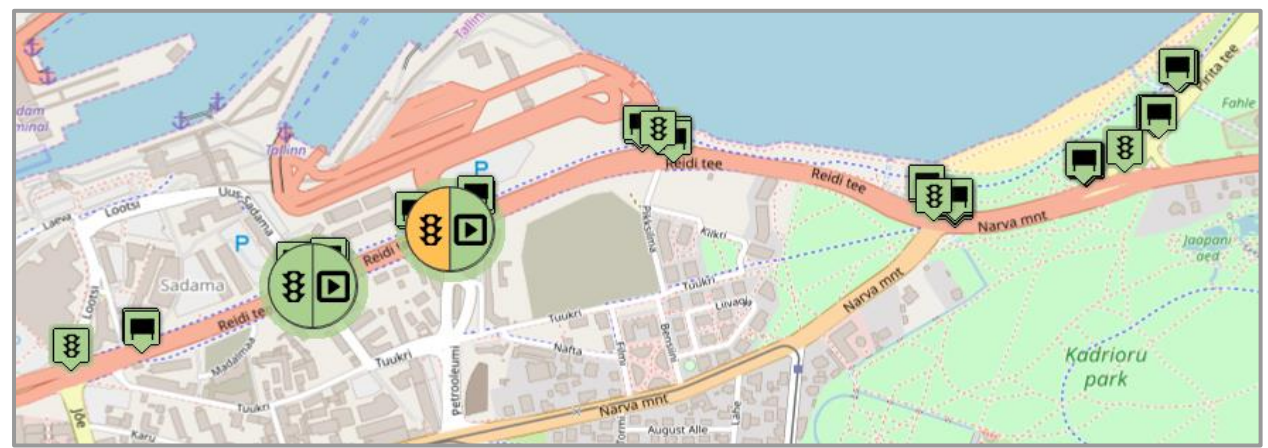
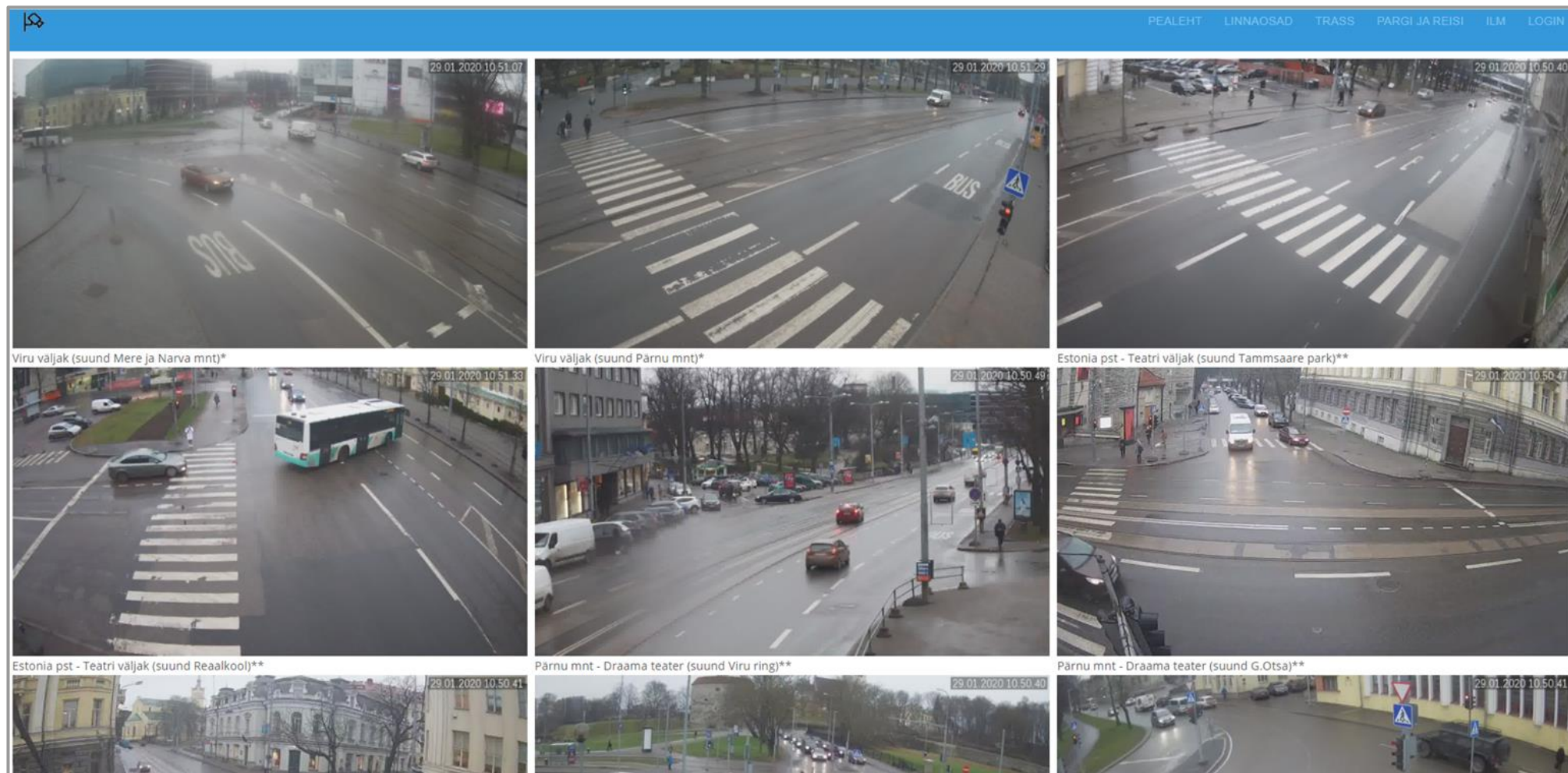# VSL (Variable Speed Limit) 66 pcs.

- All of the VSLs in OMNIA in the end of 2020

- Different programmed scenarios or changing based on need (temporary traffic management because of events, congestions, accidents *etc*.)

Foto: Erik Tikan, Postimees

Traffic cameras (ristmikud.tallinn.ee)

AID based VMS management (FLUX tunnel)
(2013)

Variable Message Boards (55 pcs, 2020)

One example how ITS can help us

Swarco Smart Intersection

Adaptive traffic control (pilot project) on Kopli-Sitsi-Tööstuse-Paljassaare intersection with tram prioritisation

Tools

- Different detectors (video detectors, thermal detectors, buttons etc)

- Smart Intersection software

Why ?

- Public transport prioritisation

- Not "wasting" green time

- Study

Results

- total waiting time for cars smaller

- better distribution between different direction

  - pedestrian must push the button (only negative impact)

	TRAM TRAVEL TIME BETWEEN 2 STOPS (avr.)
Maleva > Sitsi	
Before	2:13
After	1:49
Difference	**00:24**
Sitsi > Maleva	
Before	2:04
After	1:51
Difference	**00:12**

Thank you!

Raimond Nõugast
Tallinn Transport Department
Traffic Control Department
Chief Specialist of Traffic Devices

Raimond.Nougast@tallinnlv.ee

Tallinn