

Experience: Laser trigger & LPR camera

Background

- ❑ Vidamin LPR-camera systems are used to identify cars entering and leaving parking spaces.
- ❑ Noptel laser radars are used to detect vehicles passing exact locations.
- ❑ By combining these two, Noptel sensors can be used to trigger Vidamin camera for effective recognition of license plates.
- ❑ Furthermore, laser sensors provide additional information regarding the passing vehicles.
- ❑ Traditionally trigger is delivered via dedicated wiring, but we use IP-network to reduce wiring and enable more flexible routing for trigger.

Application

- ❑ Vehicle speed and location is taken into account when delivering accurate trigger event for LPR-camera
- ❑ Register plates are recognized with LPR-camera
- ❑ This data is used to fetch identification data from Trafi database
- ❑ And this data is merged with data collected by Noptel sensors
- ❑ Individual vehicles are not identified, postal code is the most accurate data produced



Instrument installation work onto the gantry

Data in use

- ❑ Noptel sensors detect vehicle speeds, sizes and distances between vehicles
- ❑ LPR camera provides register plate data
- ❑ Identification data from Trafi database
- ❑ This information can be used for:
 - ❑ Traffic optimization and planning
 - ❑ Route selection analysis



Road section monitored with Noptel sensors and Vidamin LPR-camera

Data flow

- ❑ Data is stored on Noptel's database
- ❑ Data from the site is delivered to Noptel using LAN network owned by City of Oulu

Status

- ❑ The pilot is up and running for Tuiran Sillat (Oulu) where Noptel's and Vidamin's instruments have been installed

Next steps

- ❑ Testing during winter 2014-2015