Smart City Solutions for Small City

JELGAVA CITY INFRASTRUCTURE AND MUNICIPALITY OPERATIVE INFORMATION CENTER

GINTS REINSONS

HEAD OF JELGAVA OPERATIVE INFORMATION CENTER

Definition of Smart City

Smart cities use information and communication technologies (ICT) to be more intelligent and efficient in the use of resources, resulting in cost and energy savings, improved service delivery and quality of life, and reduced environmental footprint-all supporting innovation and the low-carbon economy.

"Smart Cities" includes

- Smart Living

- Smart Building & Home

- Smart Transportation

- Smart Energy (Renewable generation & storage, AMI, PQM, PLM, OMS)

- Smart Water Management

- Smart Waste Management (Recycling of waste, residual management, Recovery of waste organics & Energy)

- Smart Education (e-Education)

- Open Data

- Urban Mobility

- Smart Governance (e-governance)

- Smart Medical Facility (e-Medical)

- Smart Communications

- Smart Networks

- Environmental Awareness (i.e. changing weather conditions; human defined changes)

- Smart Crisis Managment

- Metrics and performance indicators

Jelgava – Smart City for Development!

Jelgava city

Jelgava – the fourth largest city in Latvia
Distance to Riga - 42 km
City area - 60 km2
Population - 62 000
One of 9 state importance cities
Member of Latvian Big Cities
Association and Latvian Association of
Local and Regional Governments

Jelgava - 750

Andris Rāviņš

Chairman of Jelgava

City Council

Jelgava City Digital Agenda

- Digital data transfer – shall be safe and fast

- Secured digital net – shall cover biggest part of city infrastructure

- Jelgava – has 368 streets with total length 264,05 km

- Magistral communication network- 20 km

- Optical fiber net- 13,99 km (only) and counting

- Latvia have 4th fastest internet speed in the whole world.
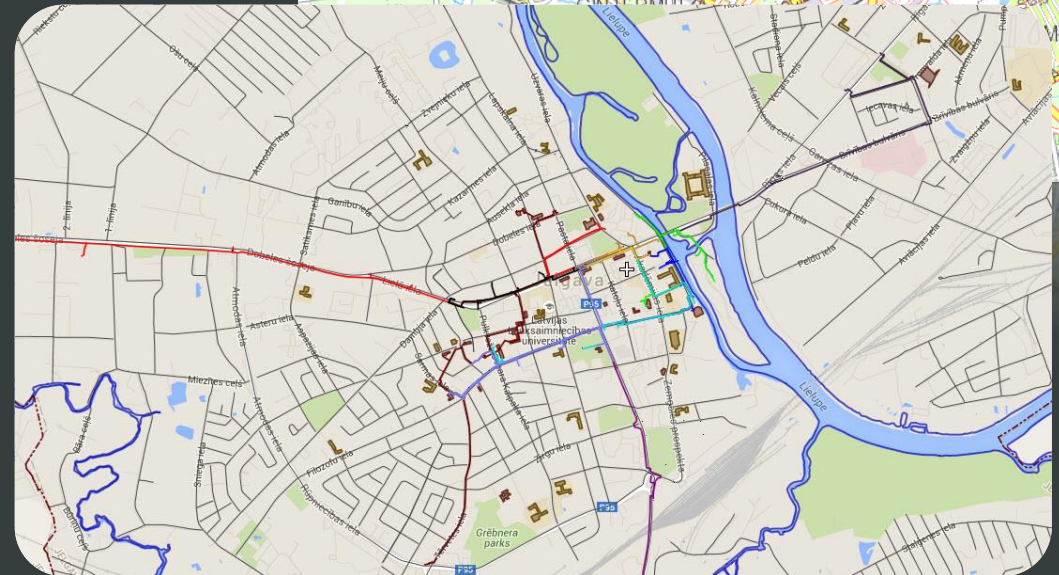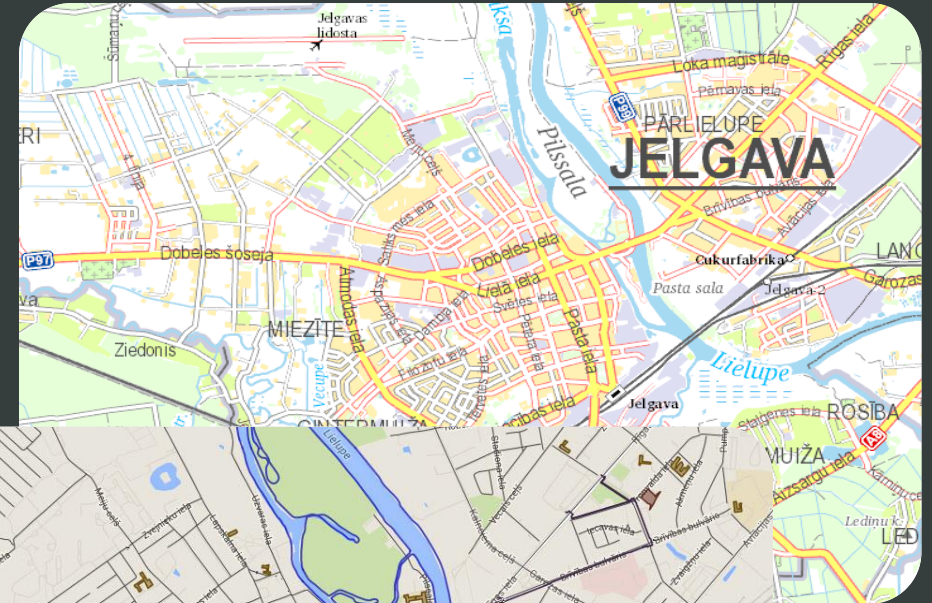
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- Jelgava city inhabitant complain and suggestion reception for 24/7

- Nonstop monitoring of different kind of infrastructural object monitoring systems for 24/7 (street light; pumping stations; meteorological stations; intelligent traffic light management system; s.f.)

- Municipality infrastructure maintenance specialist and contractor daily work support and coordination. (night time; winter time)
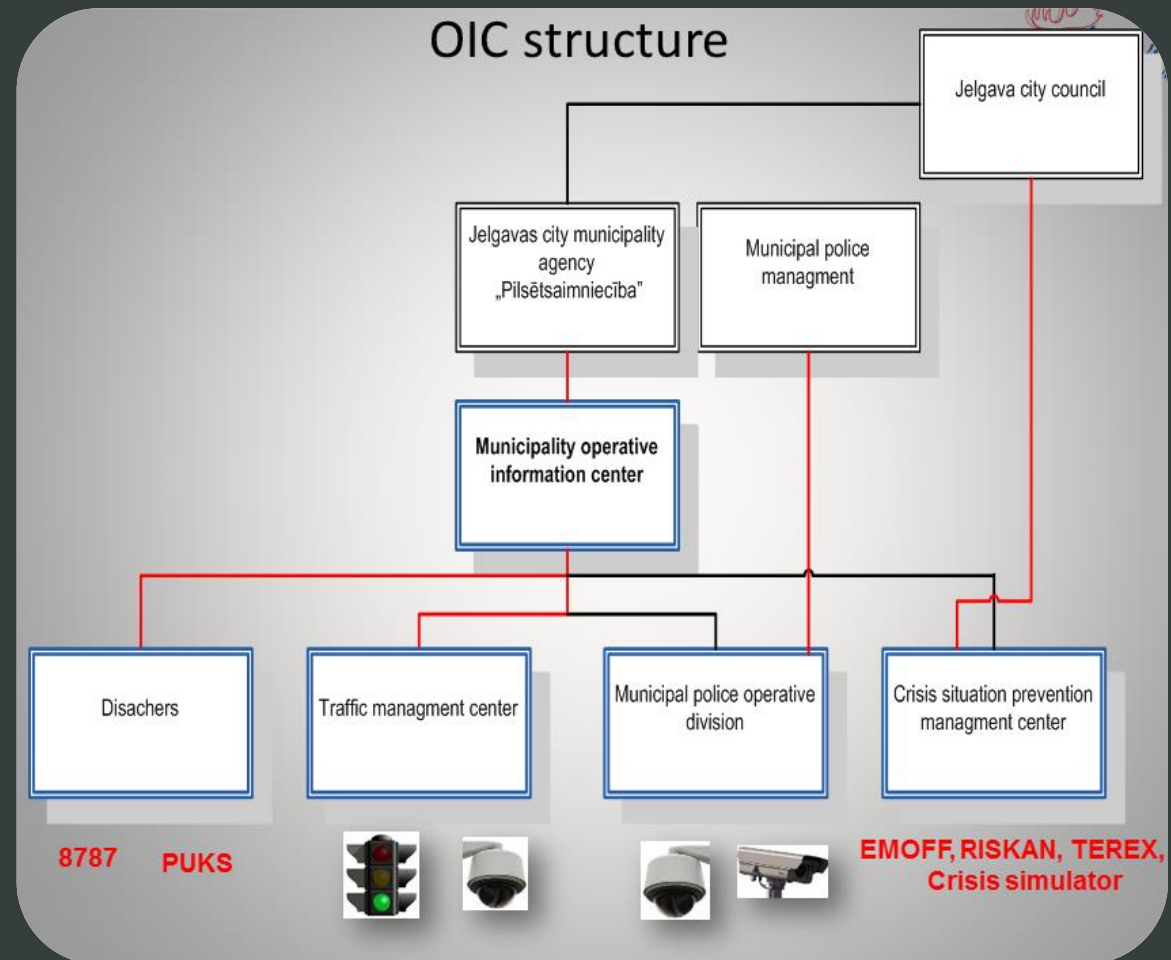
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- Public territory and object video surveillance

- Civil protection commission work aid by providing operative and qualitative information
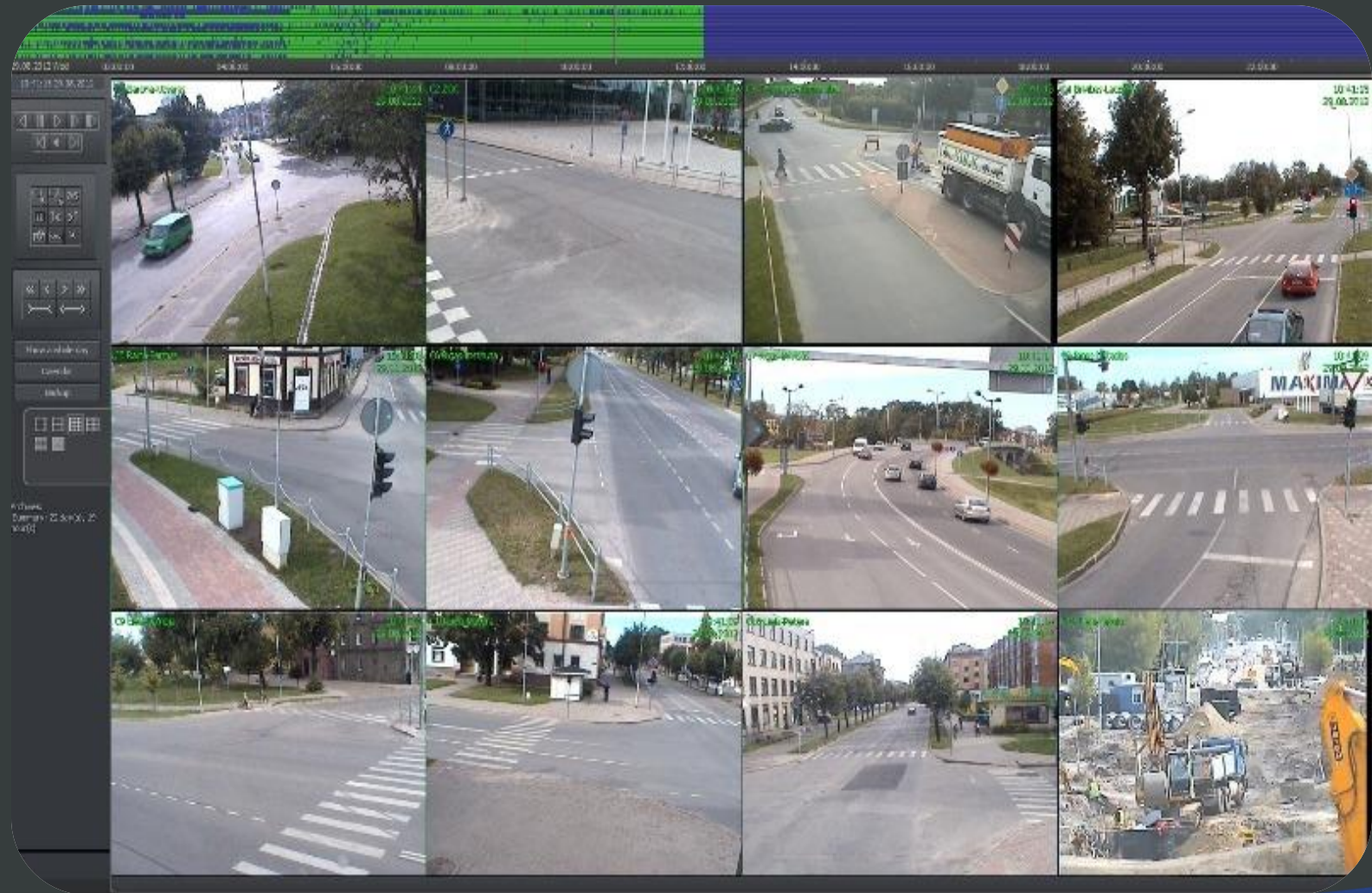
Smart information flow and its elements
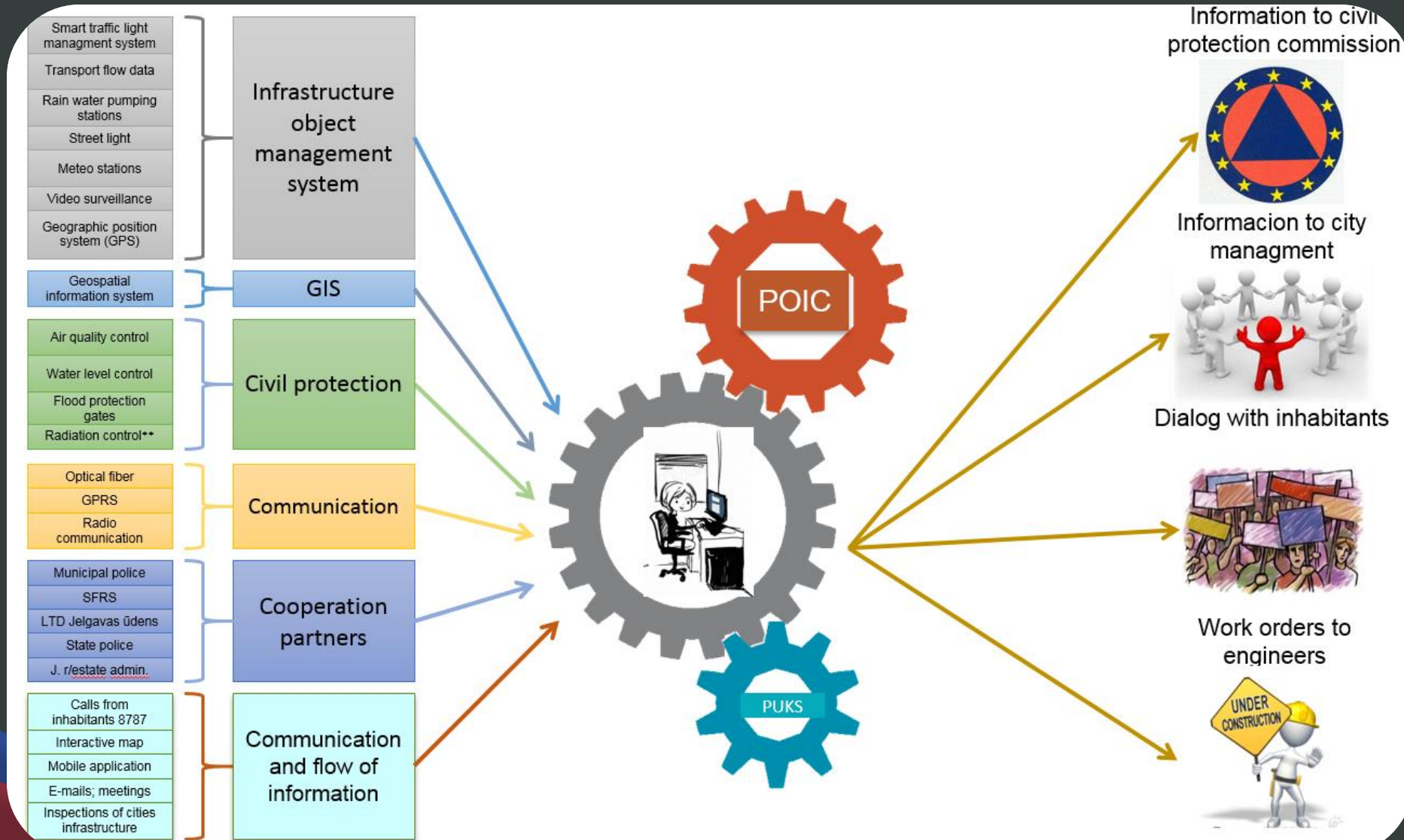
Smart Traffic Light Managment System

Transport flow data collection

- Analysis and sensor action maintenace solution

- Adaptive/responsive traffic control system

- Wireless vehicle detection solutions

Real Time Optimisation

Smart Licence Plate Recognition

Crisis Management System

GPS

Geographical information system

Early Warning System

Water Level Control, Flood Protection Gates
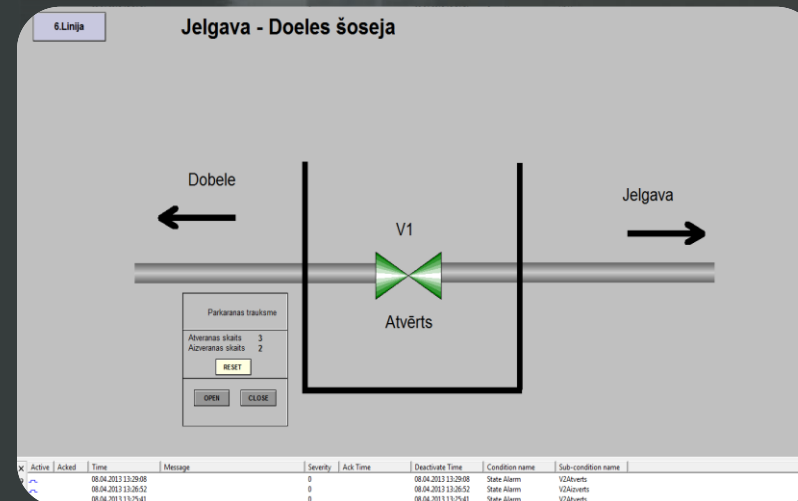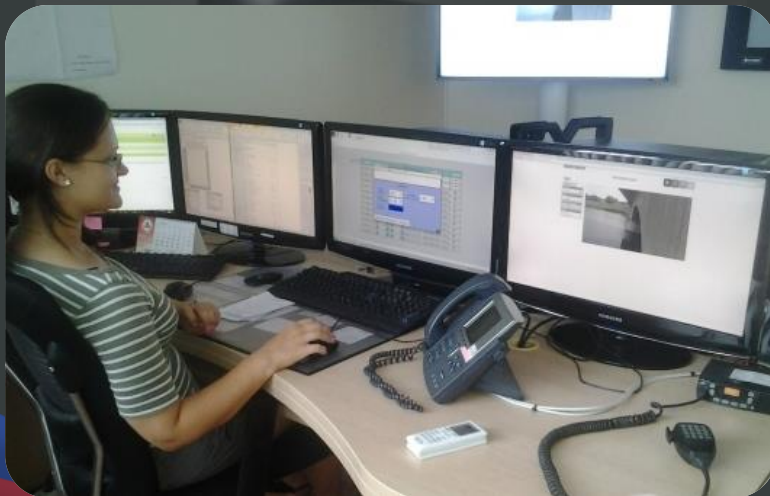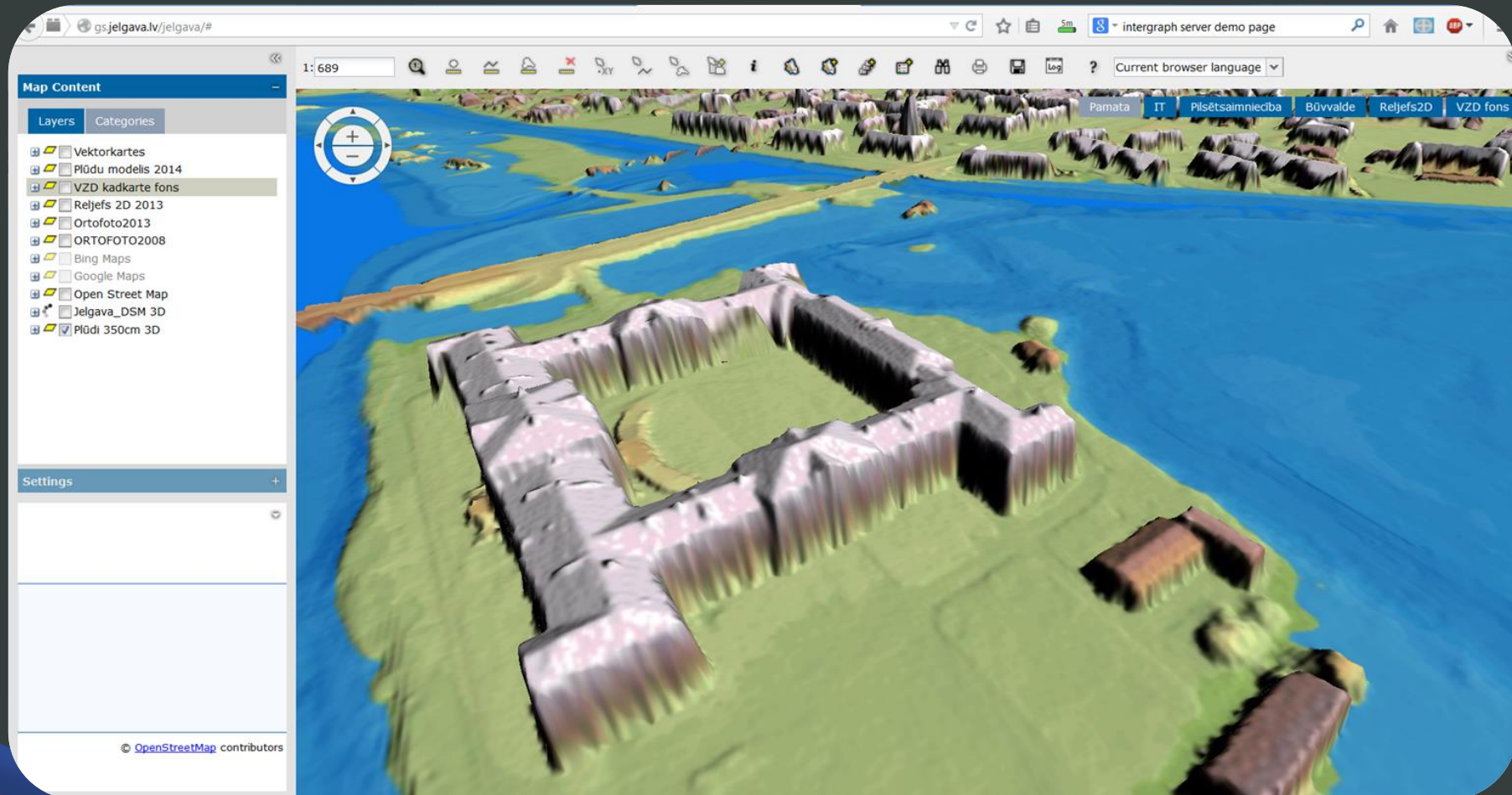
Meteo stations

Rain water sewerage
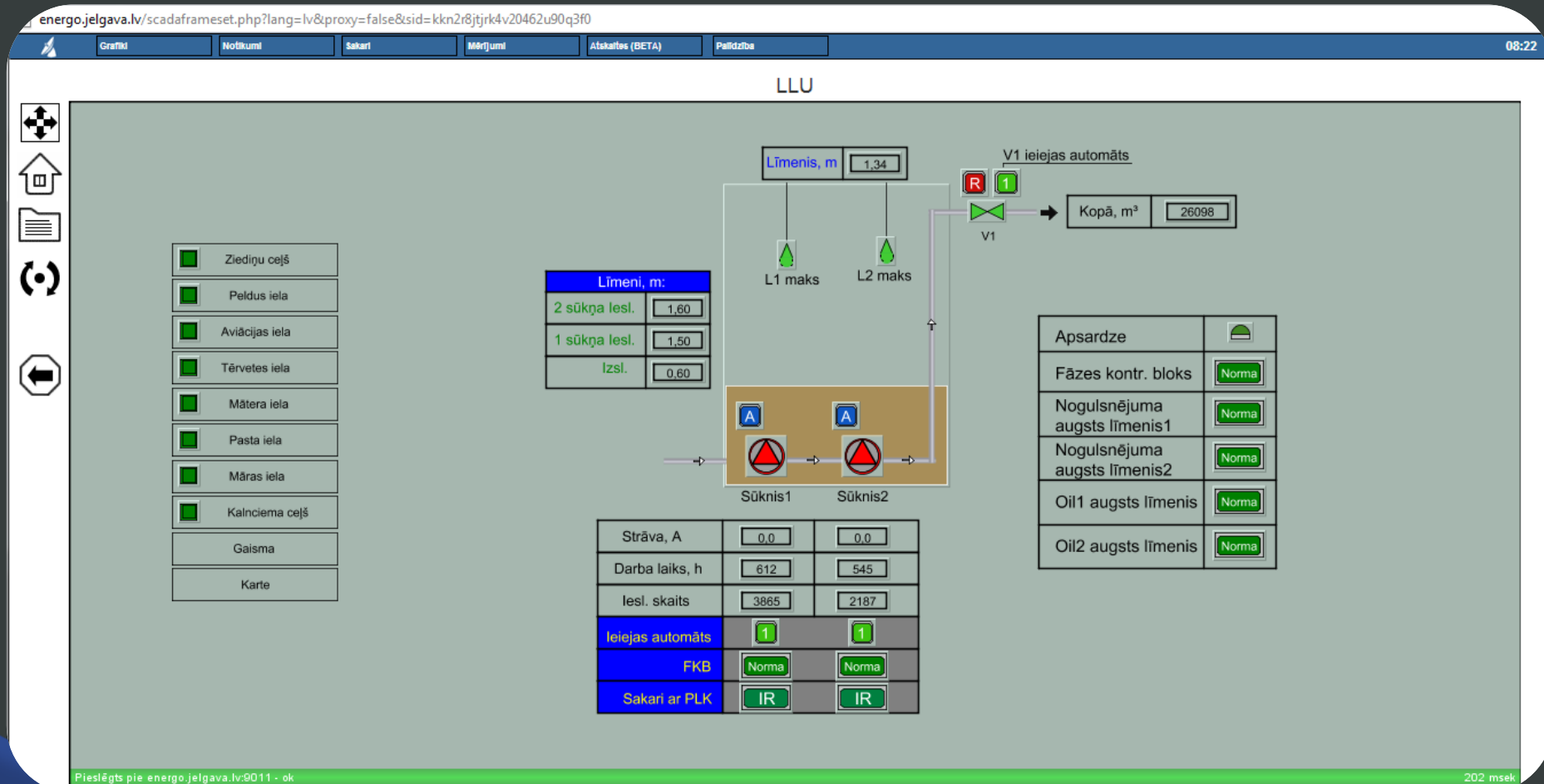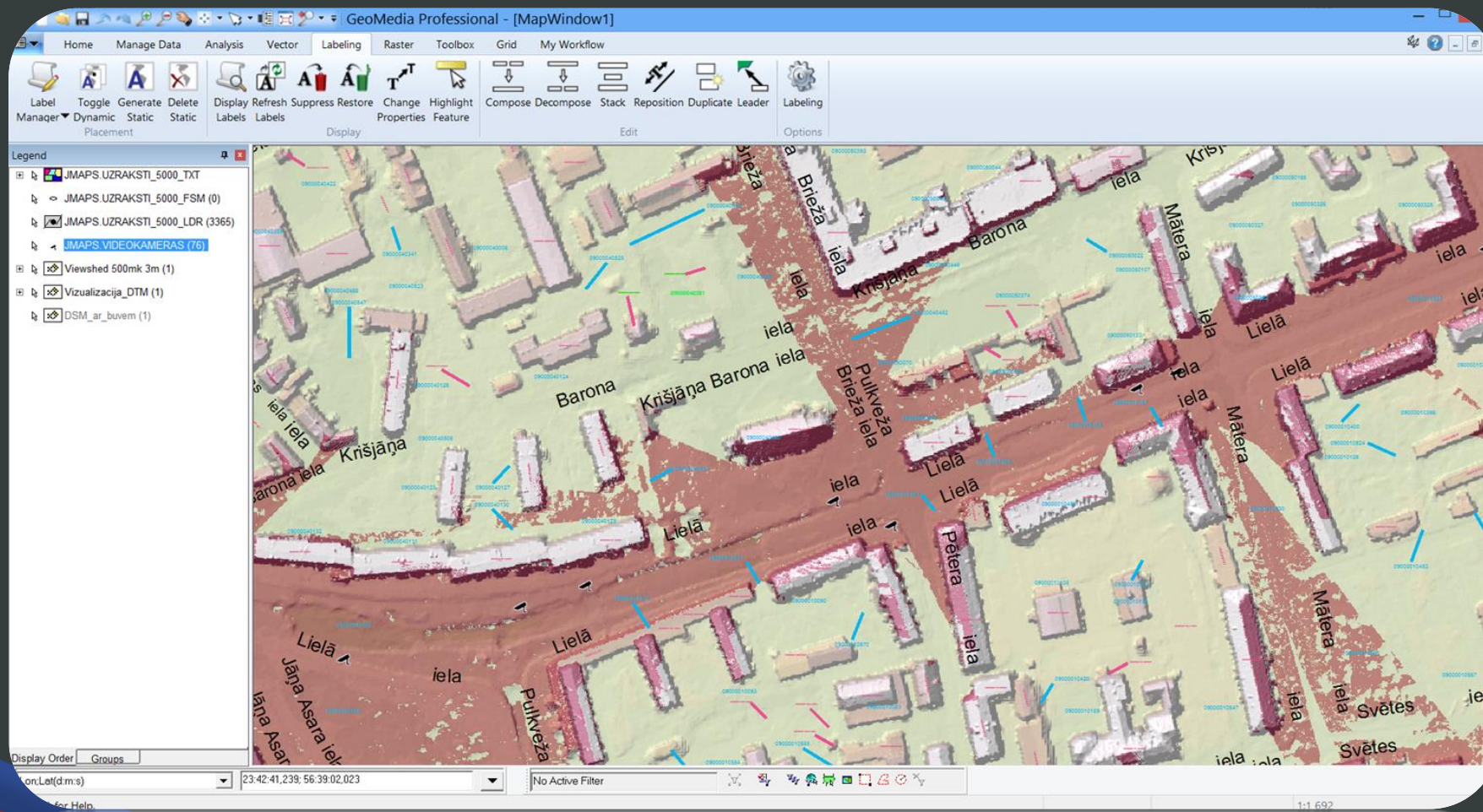
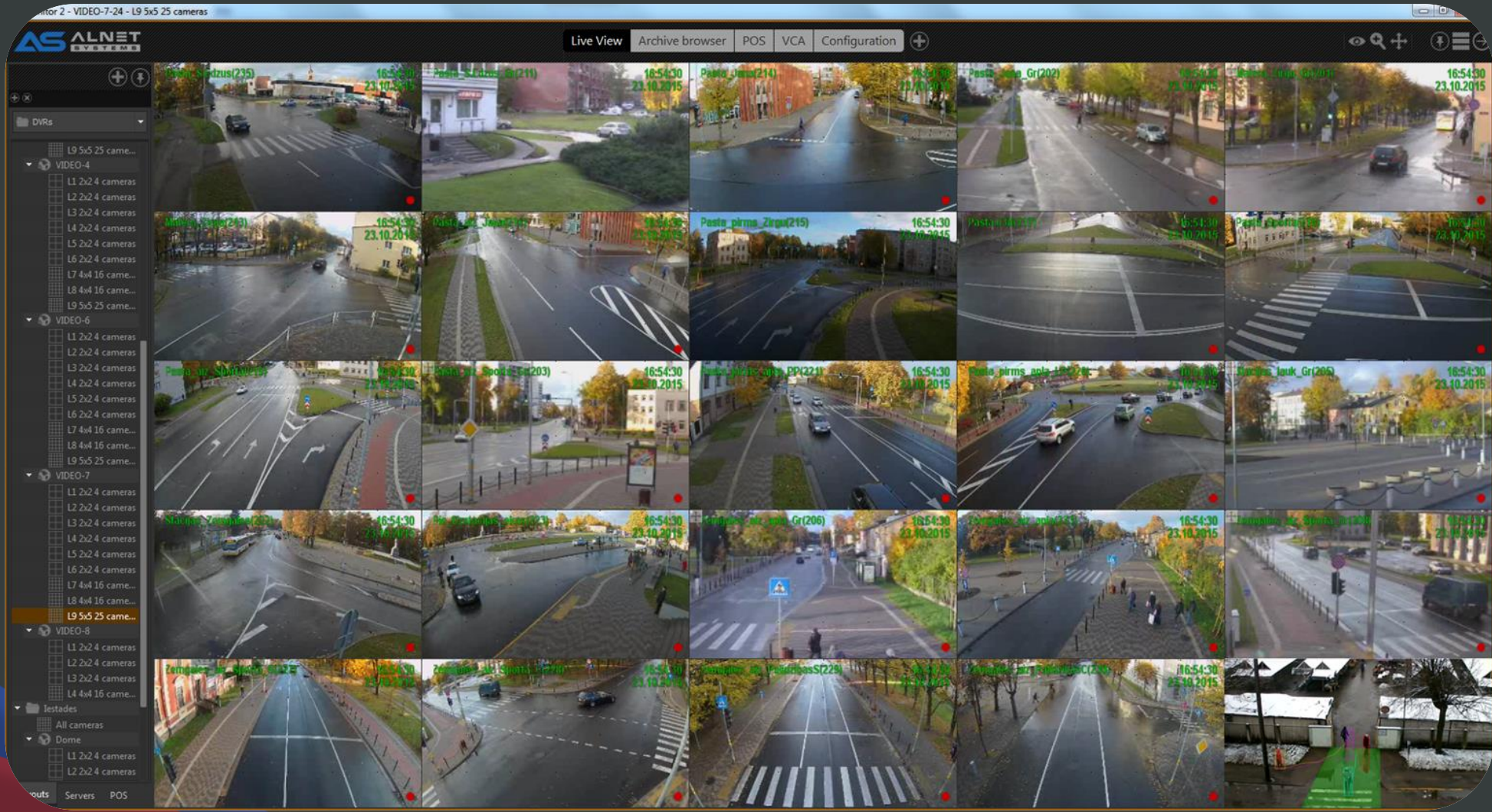# Street Light Control System

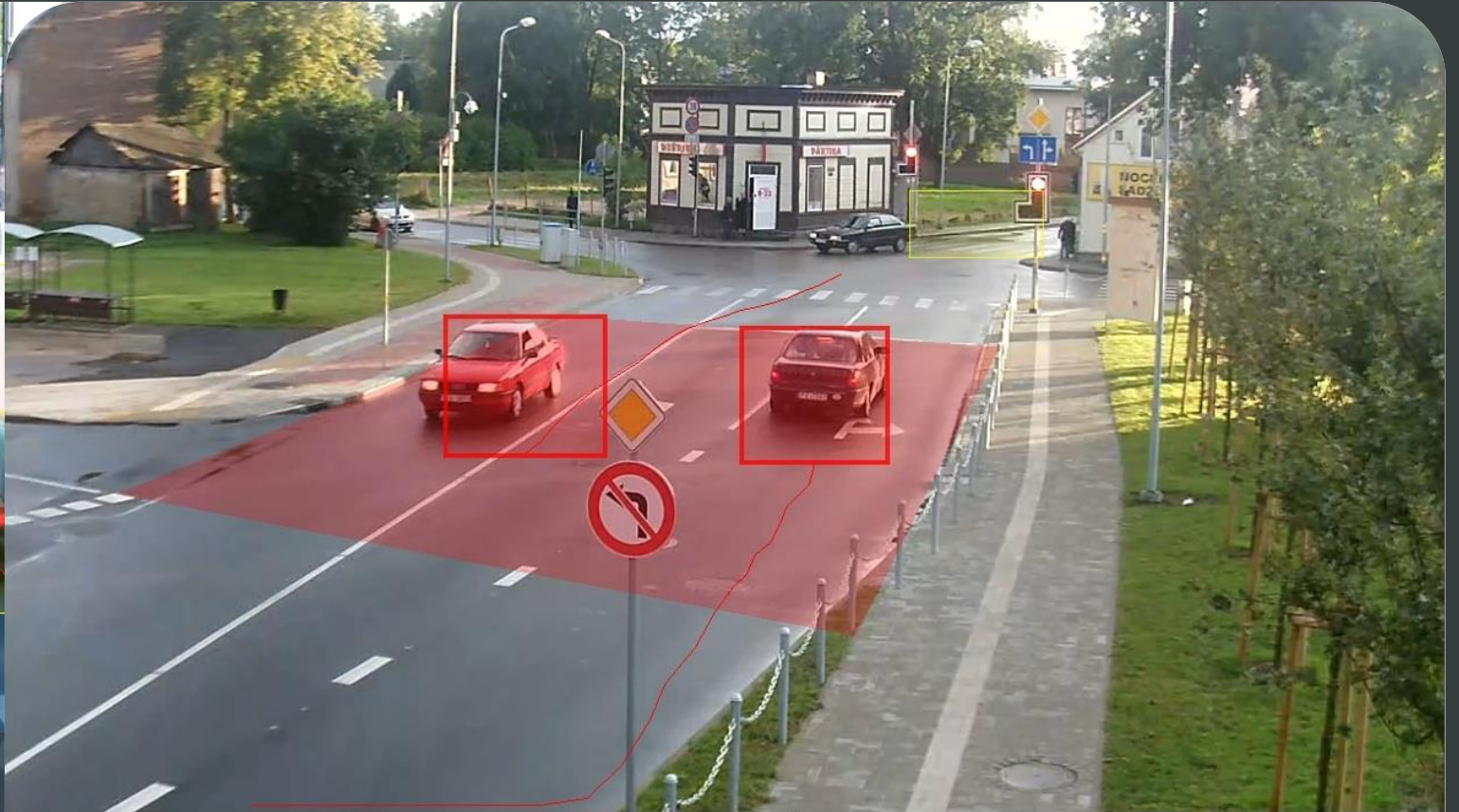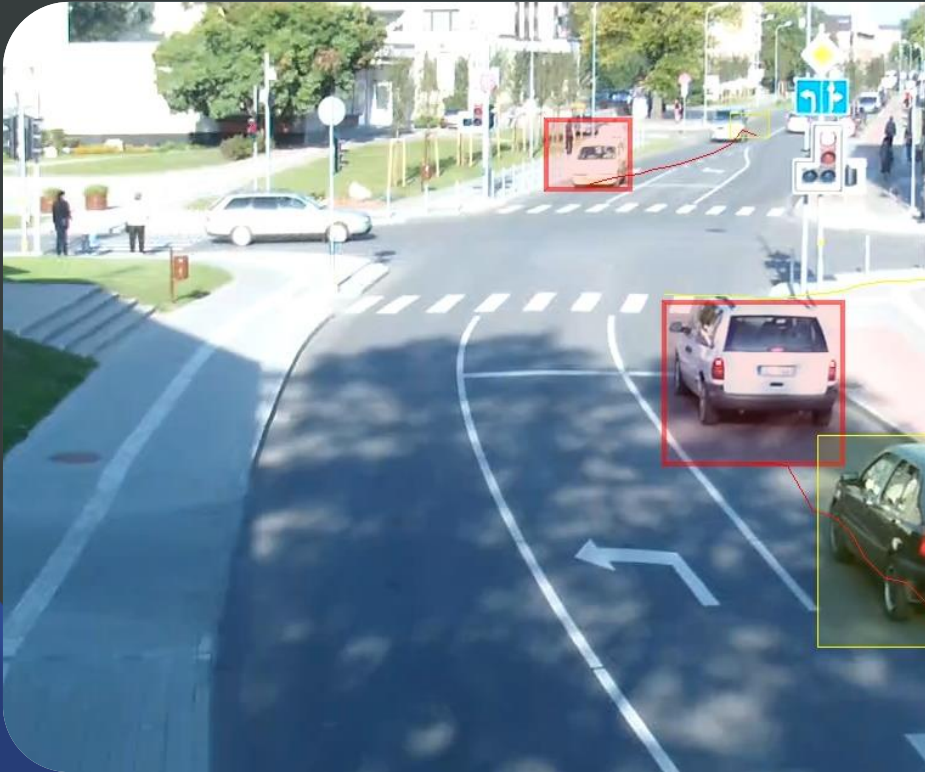# GIS Smart Client

2D Flood Modelling
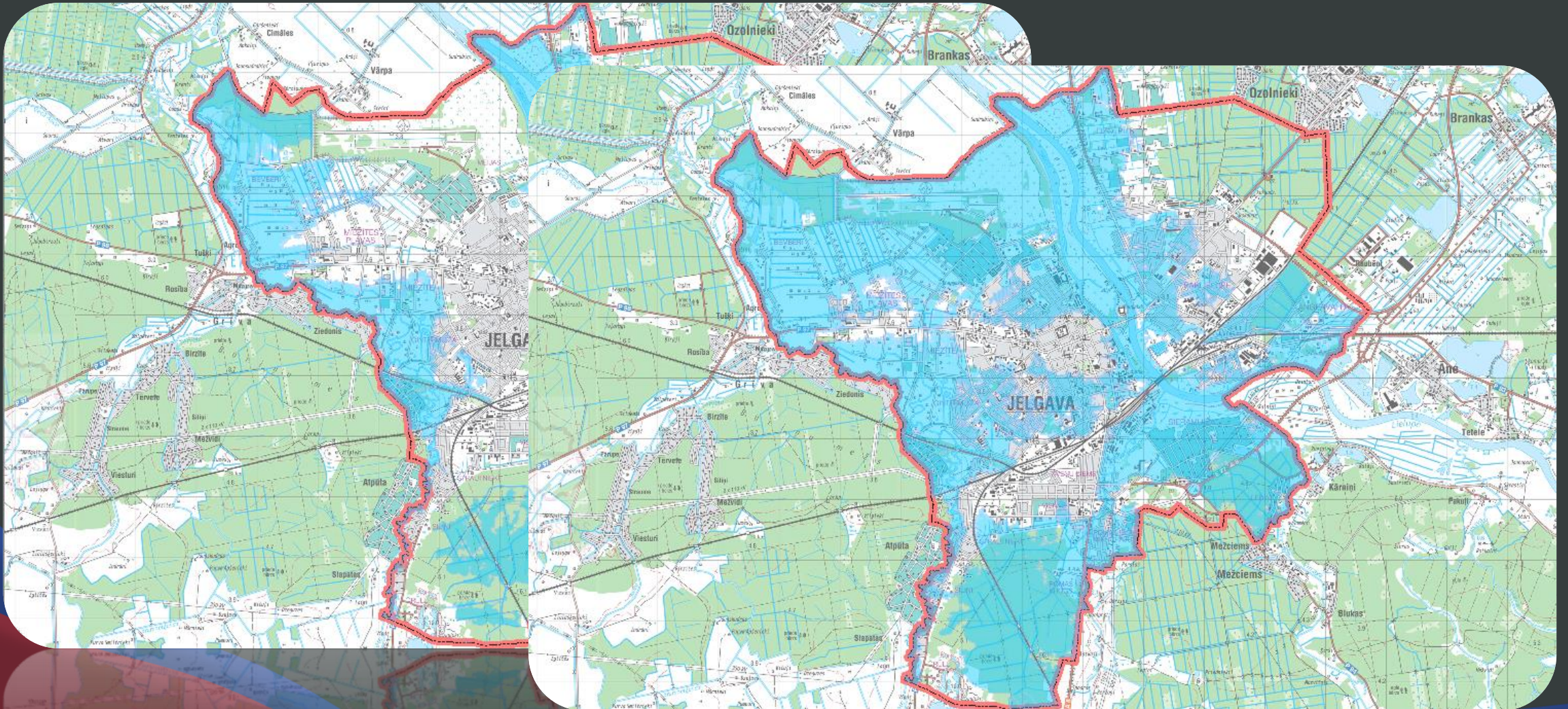
Jelgava 3D maps
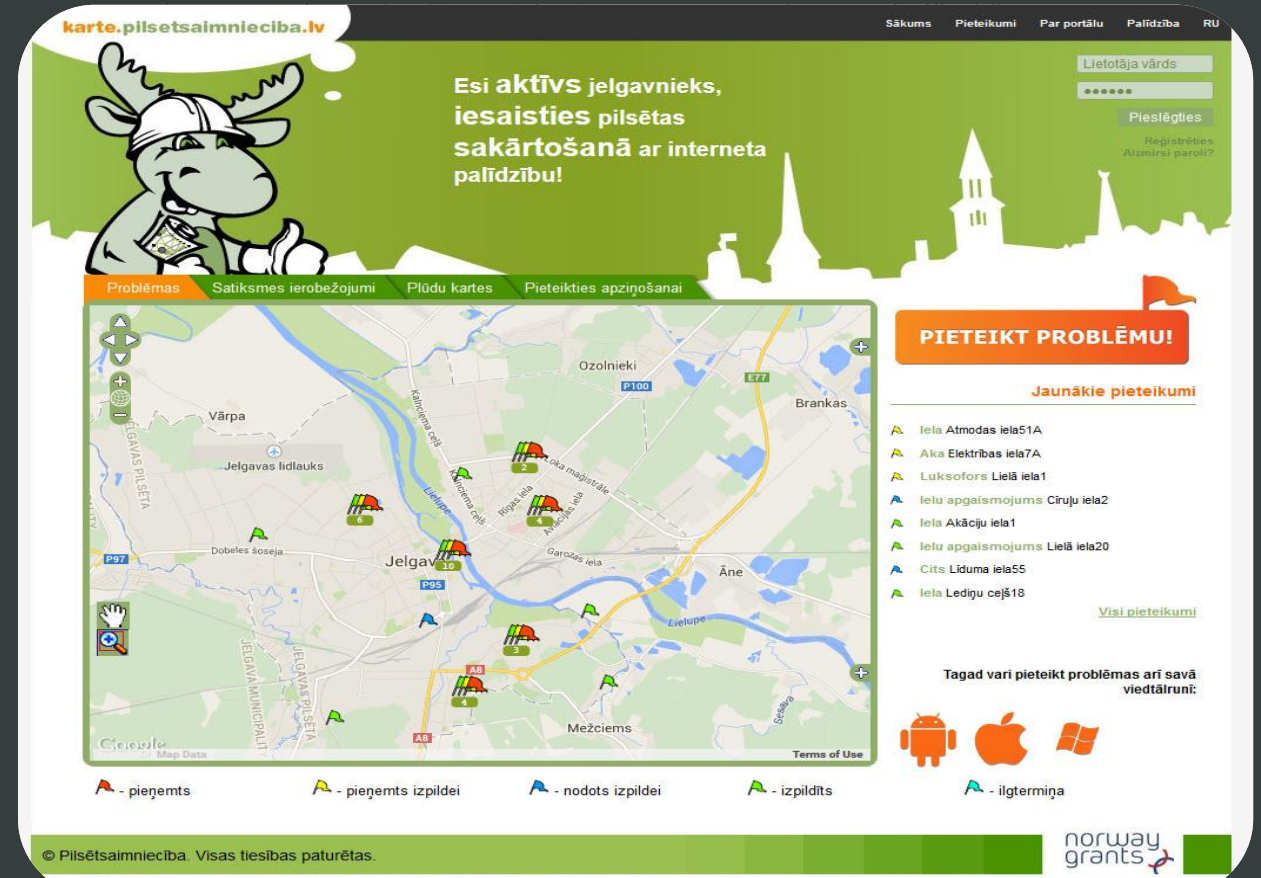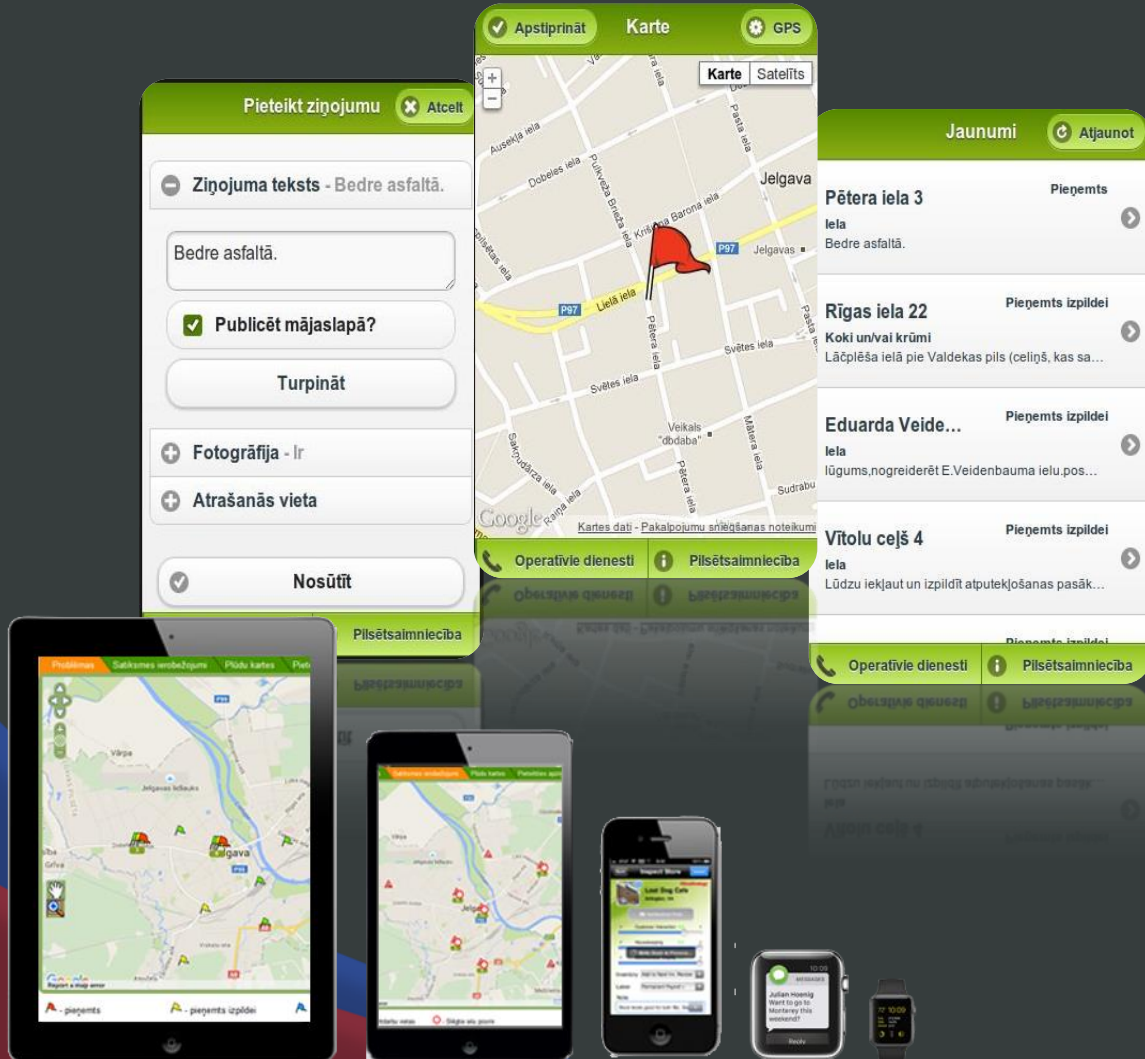
Video Surveillance 3D Modeling

Video surveillance

Video Content Analysis

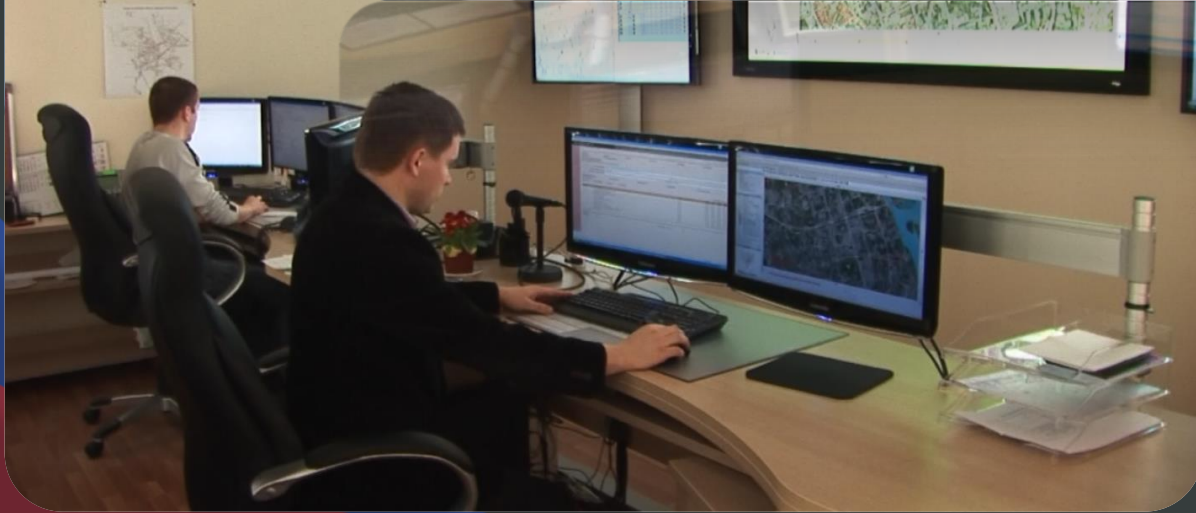# Interactive Map, Mobile Application

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At Work ...

Near Field Communication (NFC)

NFC technology around ticketing and payment
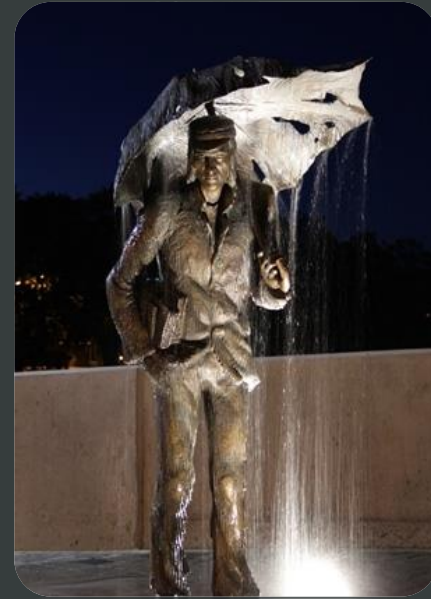
NFC standards:

Social Benefits and Payments Administration System

Terminals will be "Mobile Ready"

Thank You for Attention!