



Smart City Solution

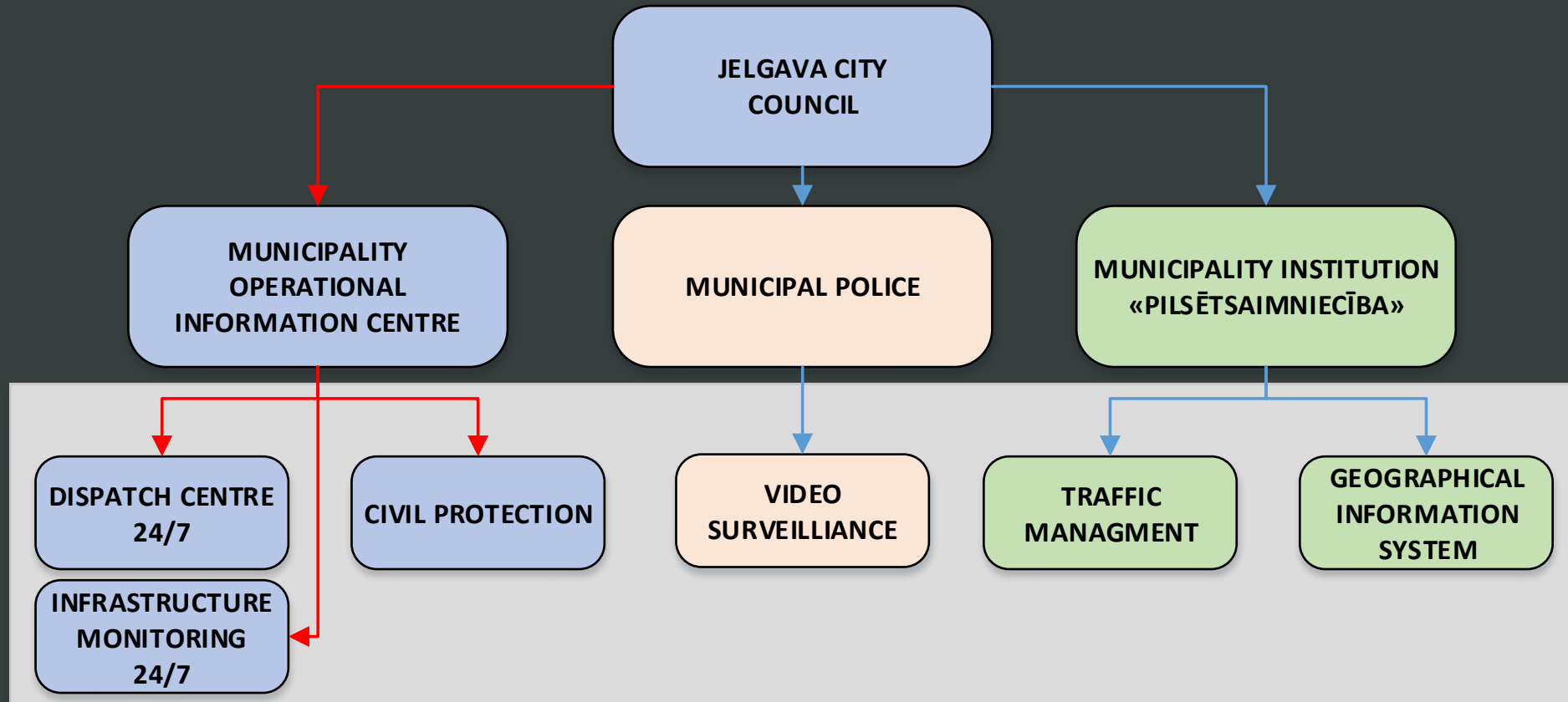
FLOOD RISK MANAGEMENT: JELGAVA CITY EXAMPLE

GINTS REINSONS

HEAD OF JELGAVA CITY MUNICIPALITY
OPERATIVE INFORMATION CENTRE

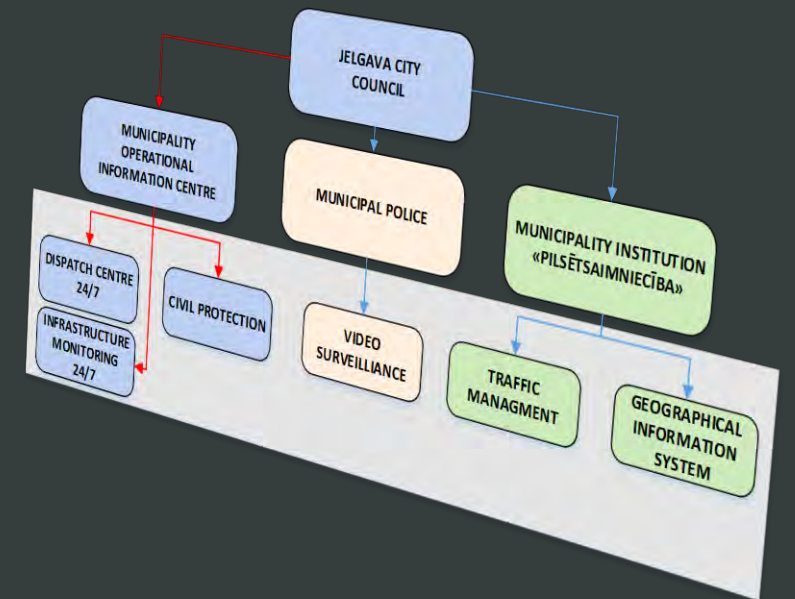
E-MAIL: GINTS.REINSONS@POIC.JELGAVA.LV

Jelgava City Municipality Operational Information Center competence

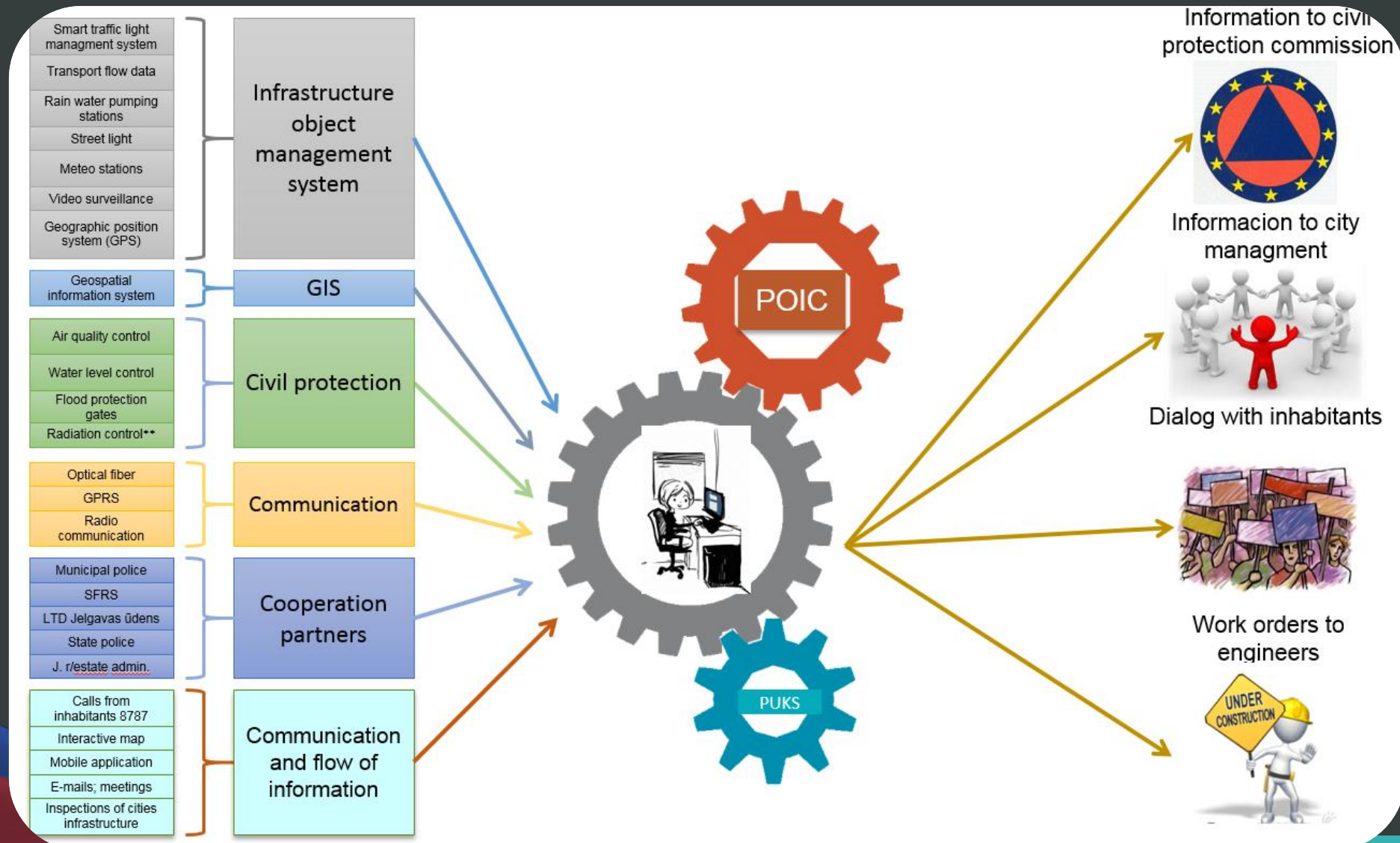


Jelgava City Municipality Operational Information Center main functions

- 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)
- Public territory and object video surveillance.
- Civil protections plan data actualization process providing.
- Civil protection commission work aid by providing operative and qualitative information.



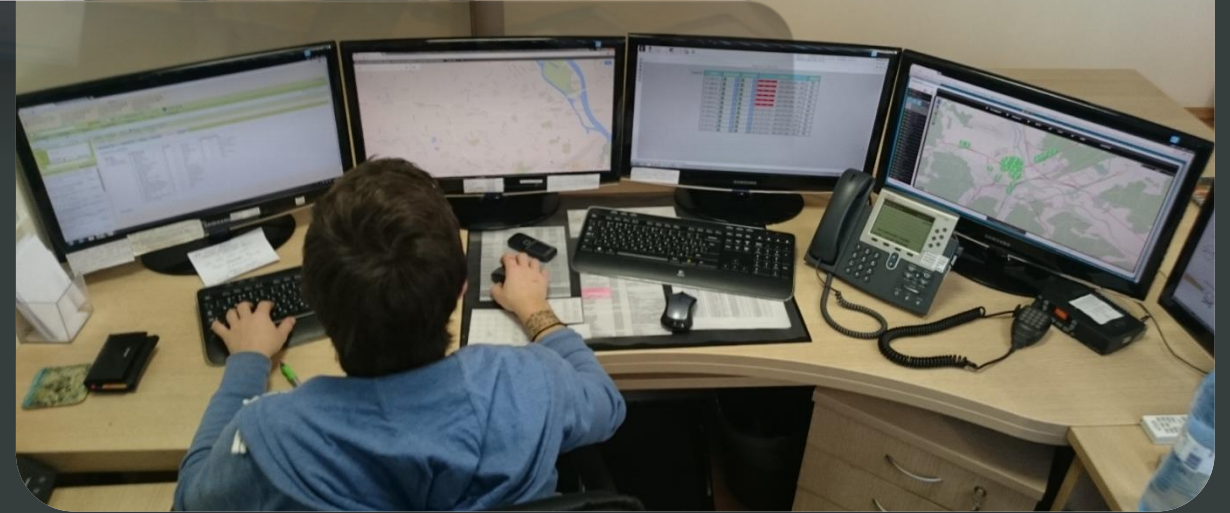
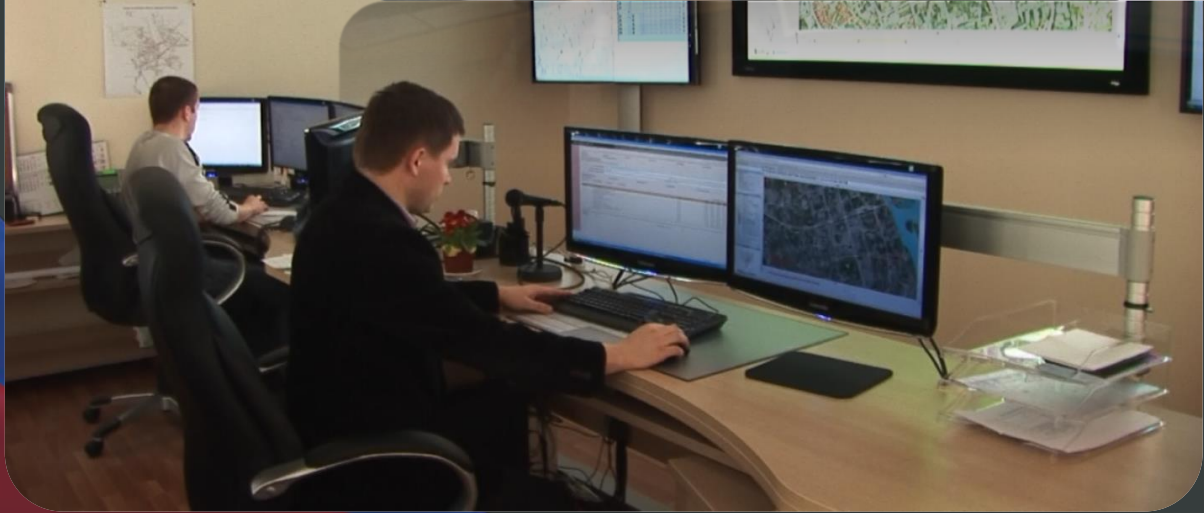
Information flow and its elements



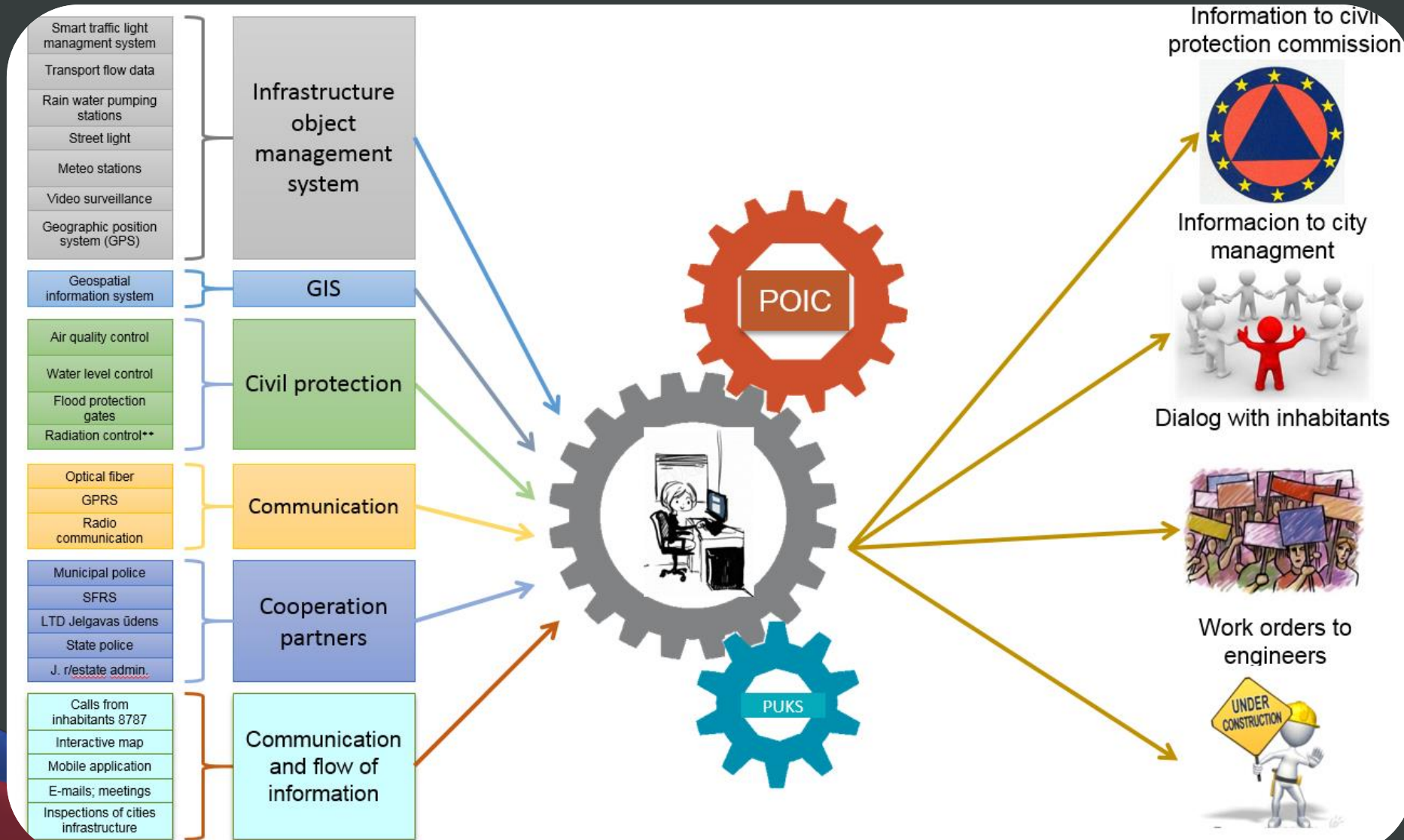
Jelgava City Municipality Operative Information Center



At Work ...



Information flow and its elements



Rain water sewerage

energo.jelgava.lv/scadaframeset.php?lang=lv&proxy=false&sid=kkn2r8jtjr4v20462u90q3f0

Grafiki Notikumi Sakari Mērījumi Atskaļes (BETA) Palīdzība 08:22

LLU

The interface displays a schematic of the rainwater sewerage system (LLU) with two pumps (Sūkņi1 and Sūkņi2) and a valve (V1). The system is monitored for various parameters including flow, work time, and levels.

Monitoring Data:

Līmeņi, m	
2 sūkņa lesl.	1,34
1 sūkņa lesl.	1,50
Izsl.	0,60

Strāva, A	
Sūkņi1	0,0
Sūkņi2	0,0

Darba laiks, h	
Sūkņi1	612
Sūkņi2	545

Ieļļas skaits	
Sūkņi1	3865
Sūkņi2	2187

Ieļļas automāts	
Sūkņi1	1
Sūkņi2	1

FKB	
Sūkņi1	Norma
Sūkņi2	Norma

Sakari ar PLK	
Sūkņi1	IR
Sūkņi2	IR

Control and Protection:

V1 ieejas automāts	
V1	1

Kopā, m³	
V1	26098

Apsardze	
Fāzes kontr. bloks	Norma
Nogulsņējuma augsts līmenis1	Norma
Nogulsņējuma augsts līmenis2	Norma
Oil1 augsts līmenis	Norma
Oil2 augsts līmenis	Norma

Navigation icons: Home, Back, Forward, Refresh, Stop, Play, Pause, Full Screen, Print, Help.

Left sidebar menu:

- Ziediņu ceļš
- Peldus iela
- Aviācijas iela
- Tērvetes iela
- Mātera iela
- Pasta iela
- Māras iela
- Kalnciema ceļš
- Gaisma
- Karte

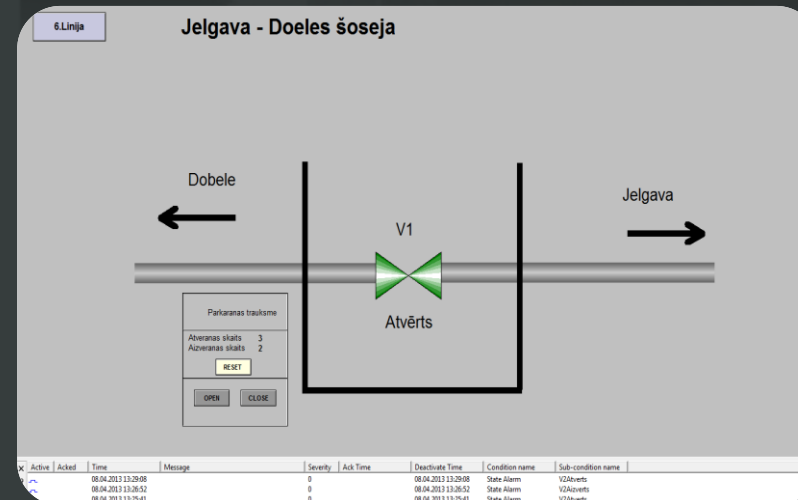
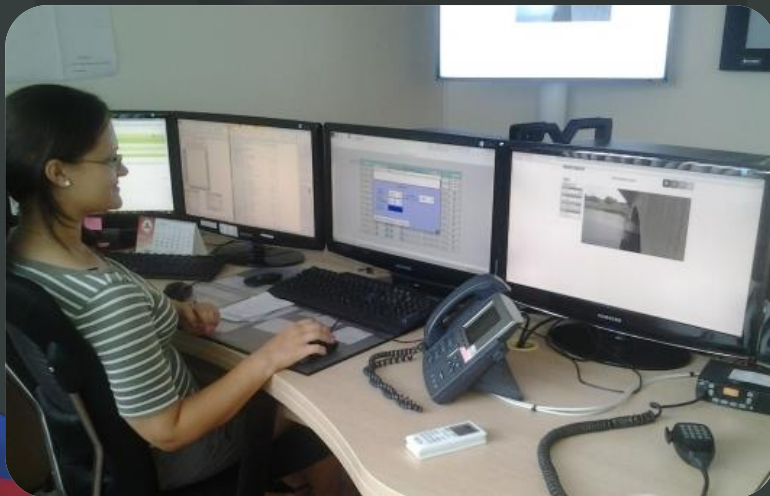
Pieslēgts pie energo.jelgava.lv:9011 - ok

202 msek

Meteo stations



Water Level Control, Flood Protection Gates



Crisis Management System

EMOFF

114 Saturs / Līvelnes lapa

Analizē
Risks, draudi

Atbalsta resursi

Plānošana

Par...

Par...

Par...

Apziņojumi

670 Vērdnīca
5.0

952 SKRUMS

742 Draudi

1367 RĪKOK

792 Pasākumi

1987 Procedūras

15 Resursi

425 Personāls

762 Organizācija

6 Nātkums

539 Apziņojuma

6 Nātkuma protokols

1985 Būvgrāmi un zīmējumi

1575 Dokumenti

1416 Plānkārti

1834 Deklarācija

1927 RĪKOK drukašāna

337 Tekstfaili

776 RĪKOK vadība

364 Organizācijas

1679 Grupu vadība

491 Savstāhī

771 Pārbauda

878 Pārbauda

Beigās

TerEx / NBC Expert - Substance properties

Substance: **Vinylchloride** CH2=CHCl
State: **Liquid gas**

Formula UN 1086

Substance parameters

Basic parameters	Emergency and toxic properties	Incident models	Physical properties	Description	
Temperature [°C]					
Sublim.	Fusing	-162	Boiling	-13,2	
Specific density [kg/m³]					
900	Vapour spec.densitiv / air	2,2	Relative mol. mass		
Heat [kJ/kg]		Thermal power [kJ/kg]			
of vapor.	365,1	of combus.	18852	17500	
Specific heat for [kJ/kgK]					
gas	0,878	liquid	1,431	Cp/Cv ratio for	
Others					
Diffusion coef.	0,1191	Lower expl.limit [%]	3,6	Partial press. 2	183,58
Emit.rad. ratio	0,35	Upper expl.limit [%]	33	Partial press. 1	0,043
Burning speed	0,09	Critical press. [MPa]	5,67	Critical temp. [K]	432
Satur.vap.press.		Evaporability [mg/l]		Ignition temper. [°C]	

ERG 2004 NIOSH

Terex - Google Maps

Map Satellite Hybrid

500 m
2000 ft

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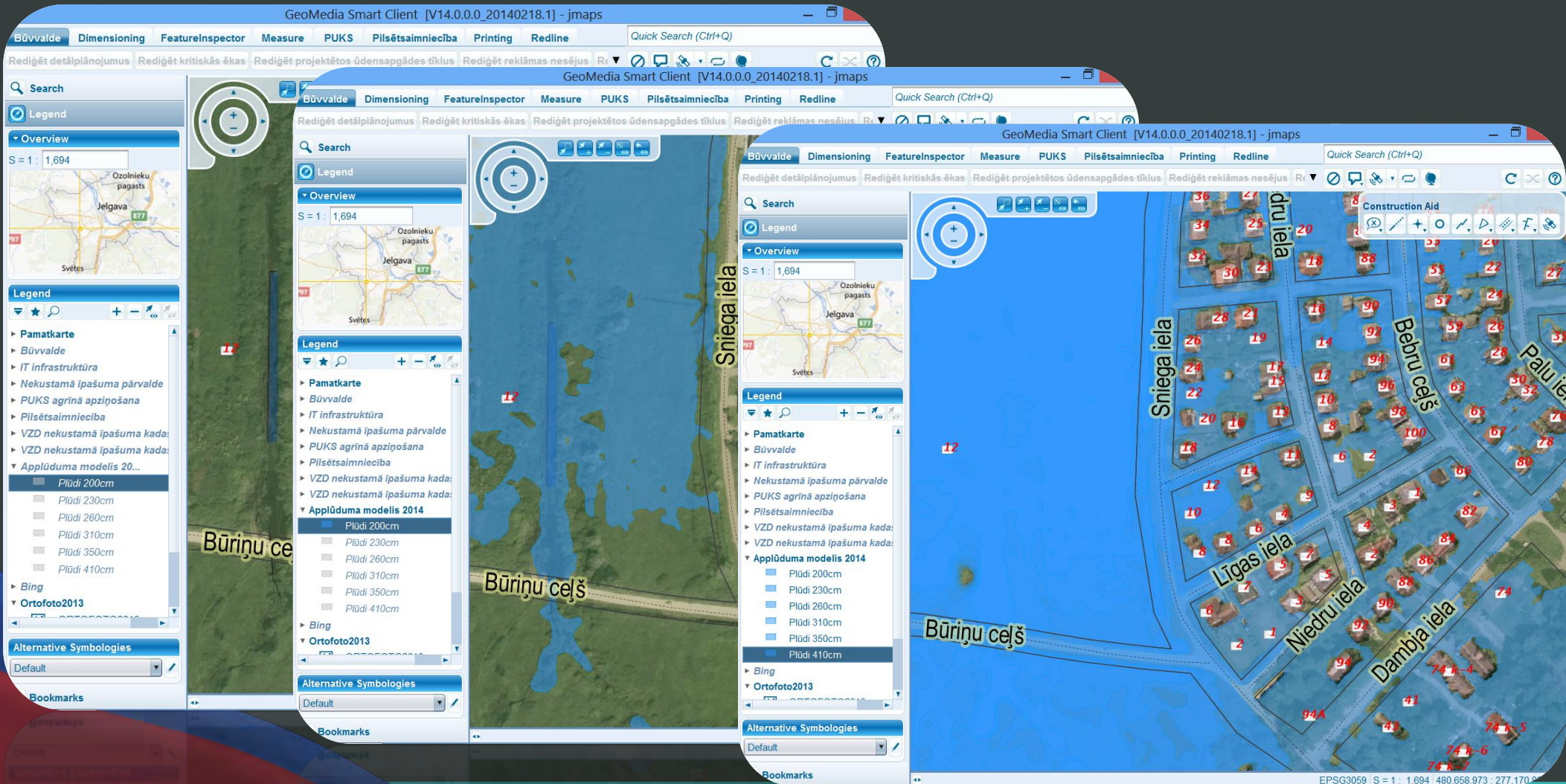
Latitude, Longitude

56.645516,23.725319 Go

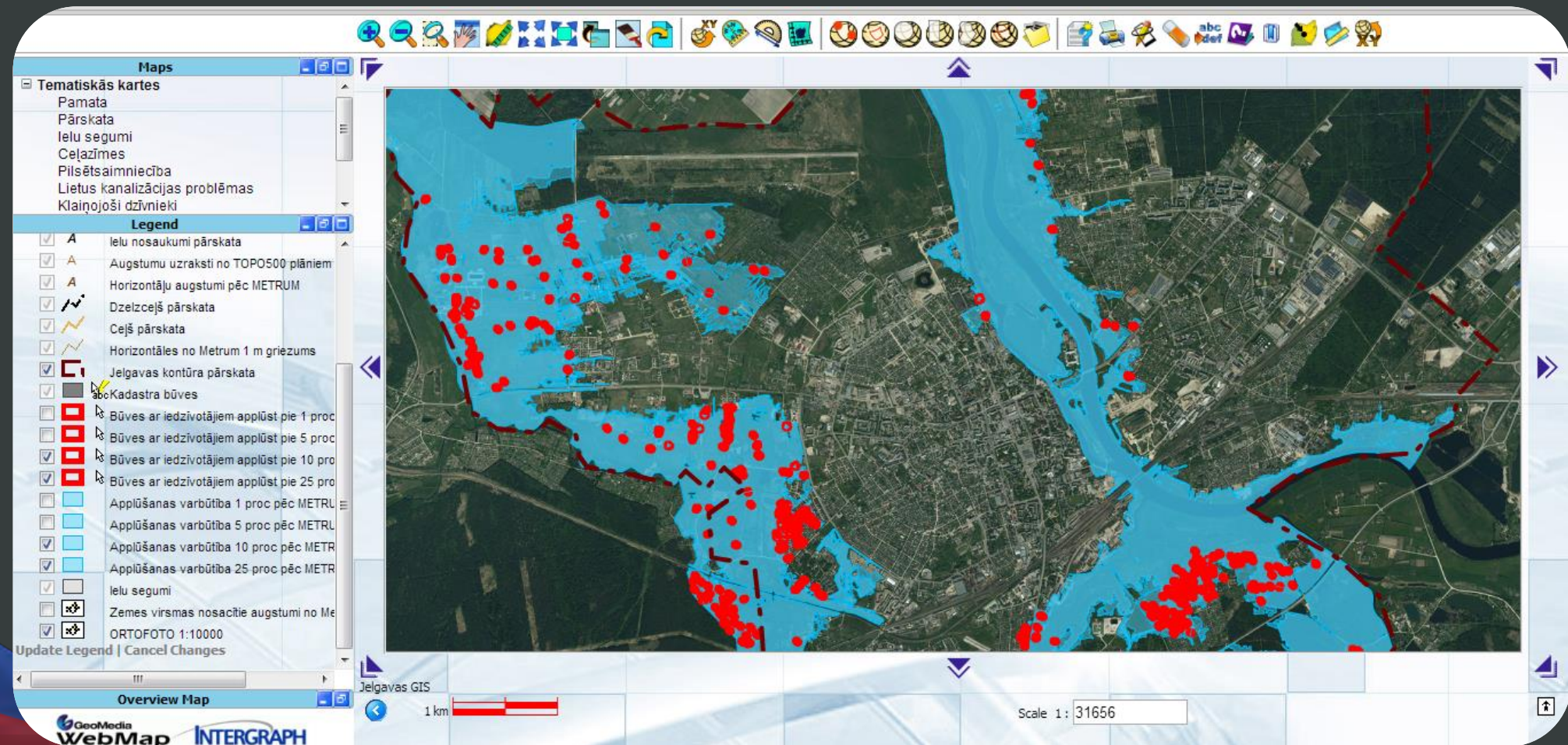
City, Country code

Jelgava.LT Go

GIS Smart Client

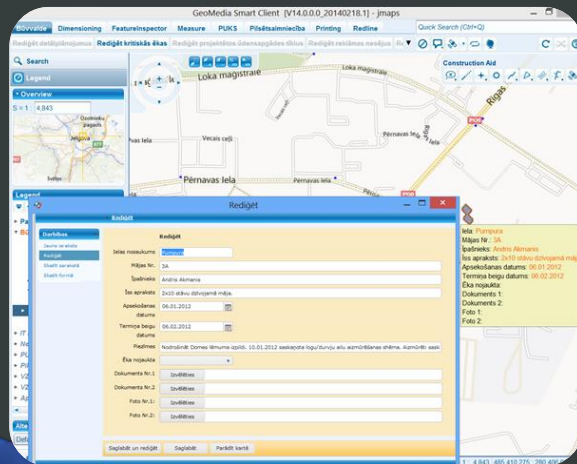


Jelgava city geographical information system (GIS) and Early warning system

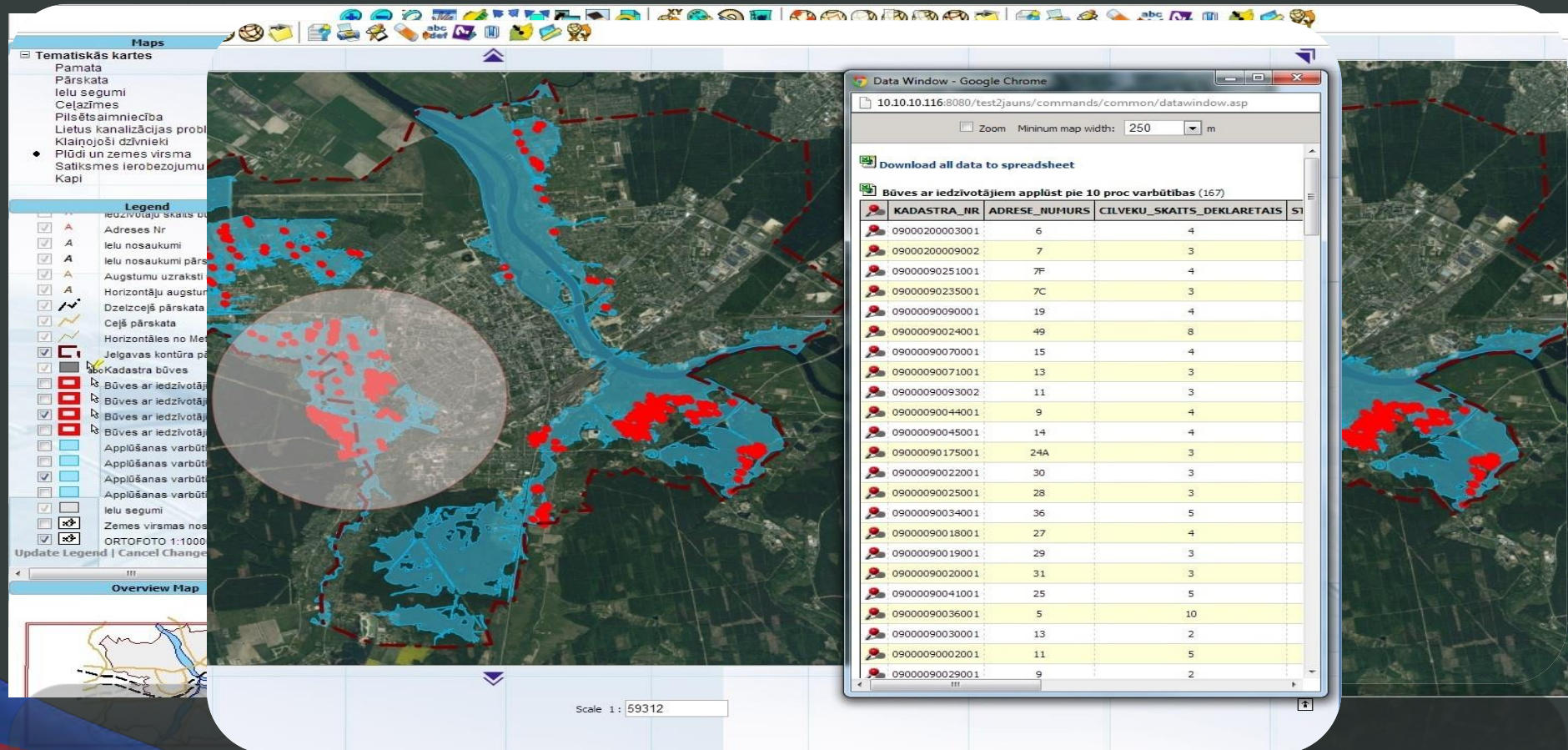


GIS based early warning system – how it works

- The dispatcher initiates the specific GMSC workflow and chooses one of fixed flooding levels or draws a polygon
- System prepares data of all cadastral buildings and number of declared inhabitants in it and sends that data to system called « PUKS»
- System «PUKS» displays number of influenced buildings. After that it is possible to make 4 early warning actions.



Jelgava city geographical information system (GIS) and Early warning system



Early Warning System

The interface displays a map with flood zones in blue and red. A pop-up window titled "Jauns ieraksts" (New record) allows for data entry. Below the map, a summary bar shows the status of various communication channels.

Jauns ieraksts

Darbibas: Jauns ieraksts, Rediģēt, Skatīt sarakstā, Skatīt formā

Veidot jaunu

Nosaukums: Plūdu 230 cm tests

Plūdu līmeņi*: Plūdi_230_S

Piezīmes:

BUKS

PUKS

09000090251001 7F 4

09000090235001 7C 3

09000090090001 19 4

Atskaites

Pārskats par objektiem | Darbību pārskats | Apsekojumu žurnāls

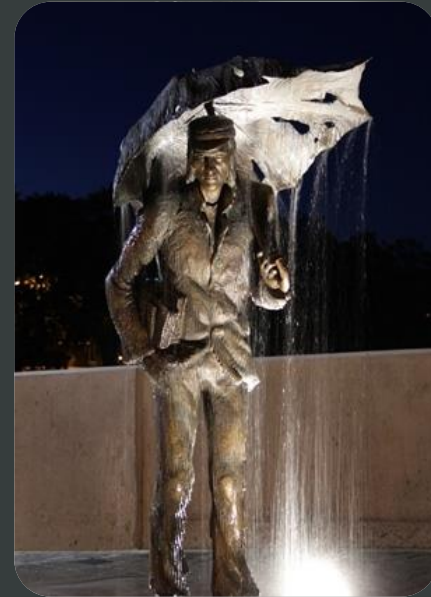
Bez tipa

Saziņas statuss: 1/10 | SMS: 0/10 | Zvani: 1/10 | Epasti: 0/10 | Apmeklējumi: 0/10 | Pārtraukti: 0/10 | Vēl nav darbību: 9 90.00%

	Veids	Nosaukums	Adrese	Tālrunis	Epasts	Karte	Darbibas
▣	Ēka	Aspazijas iela 20	Aspazijas iela 20, Jelgava, LV-3001	21234567	tests@tests.lv	NAV	OK
▣	Ēka	Aspazijas iela 29A	Aspazijas iela 29A, Jelgava, LV-3001			OK	
▣	Ēka	Dobeles šoseja 24	Dobeles šoseja 24, Jelgava, LV-3007			OK	
▣	Ēka	Dobeles šoseja 37	Dobeles šoseja 37, Jelgava, LV-3007			OK	
▣	Ēka	Dobeles šoseja 39	Dobeles šoseja 39, Jelgava, LV-3007			OK	
▣	Ēka	Dobeles šoseja 4A	Dobeles šoseja 4A, Jelgava, LV-3007			OK	
▣	Ēka	Dobeles šoseja 4A	Dobeles šoseja 4A, Jelgava, LV-3007			OK	
▣	Ēka	Satiksmes iela 2A	Satiksmes iela 2A			OK	
▣	Ēka	Šķūņu iela 16A	Šķūņu iela 16A			OK	

Scale 1: 59312

jelgava
city for development!



Thank You for Attention!