

RĪGAS SATIKSME

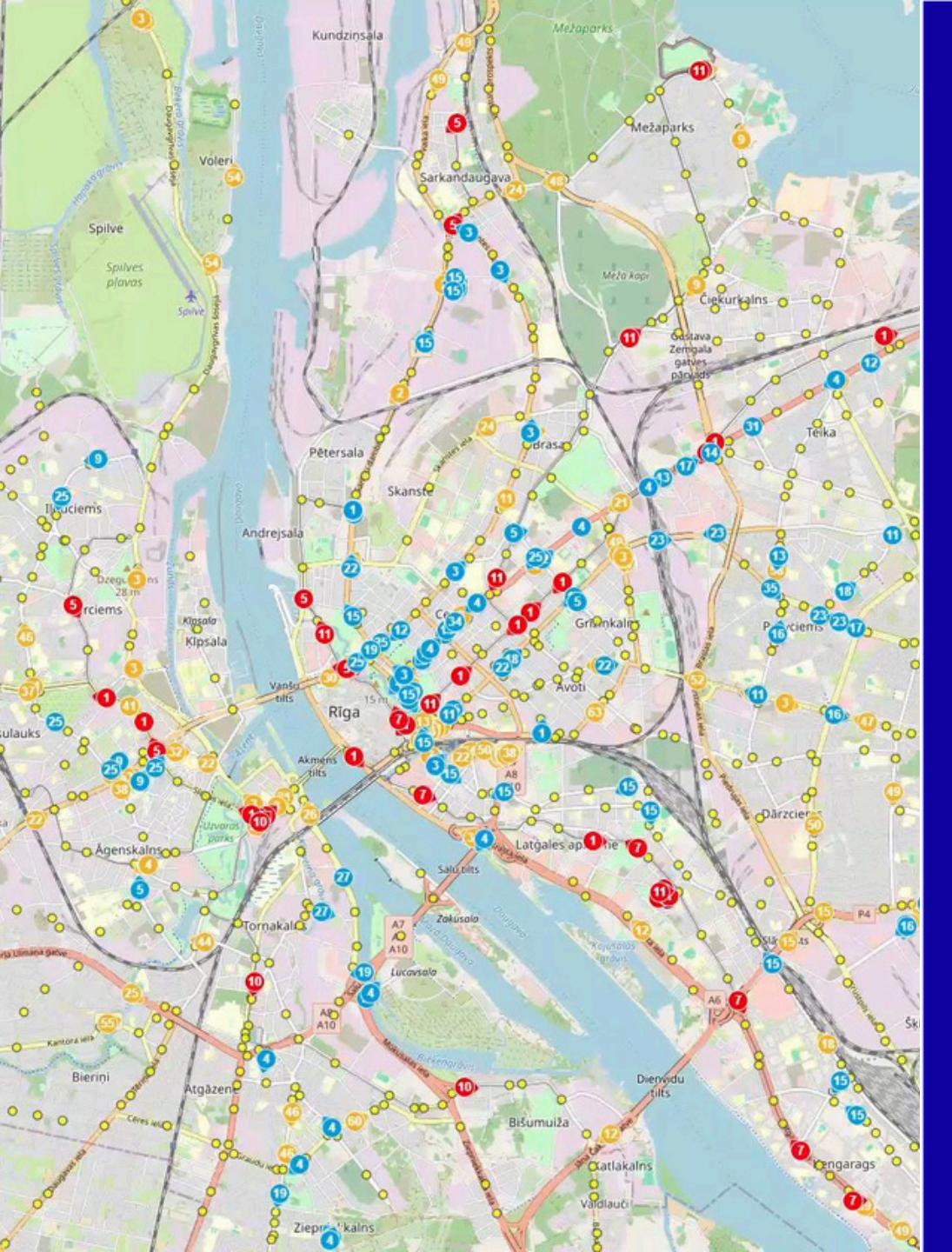
Development. Accountability. Security. Cooperation.

2024.10.17

Playing with the 5G cloud

SANDRIS GRANTIŅŠ Rīgas satiksme Information
Systems Head of Department





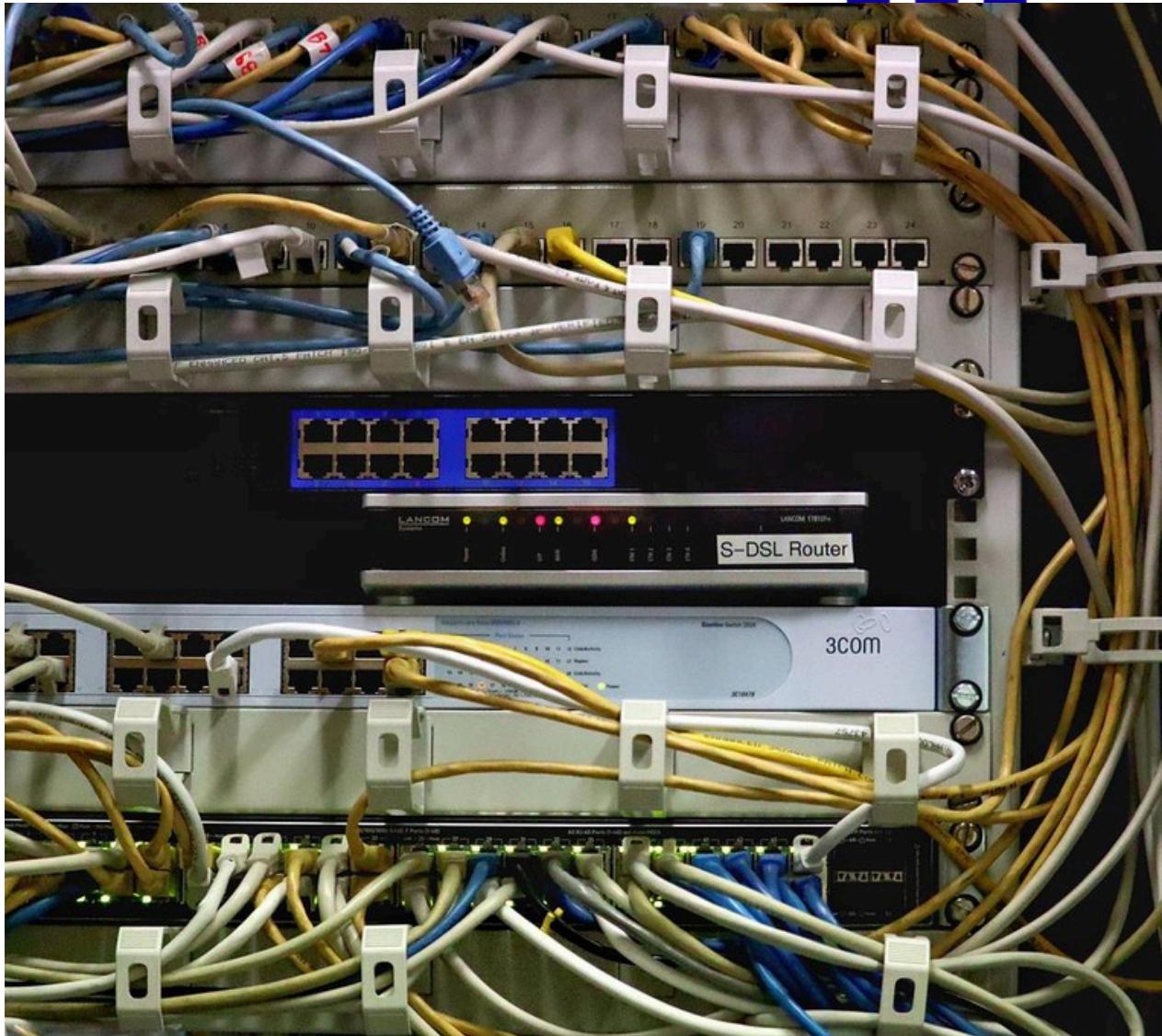
Rīgas satiksme

Few facts

- » The largest in the Baltics. **800+STL units** with a wide variety of types (oldestTL 19XX, newest electric bus 2024);
- » Average of more than **2.3 million validations per week**, which is 2 times more than the others carriers in Latvia combined;
- » More than **3 million km** per month;
- » **3400+ employees** providing services 7days/week from agrarian and long after midnight;
- » 2024 Humblest Transport brand According to BalticBrands;
- » Innovation from Zero to Hero (Saraksti.lv since since the beginning of the year - **1.7 million unique users, 12.3 million sessions**).

HERITAGE

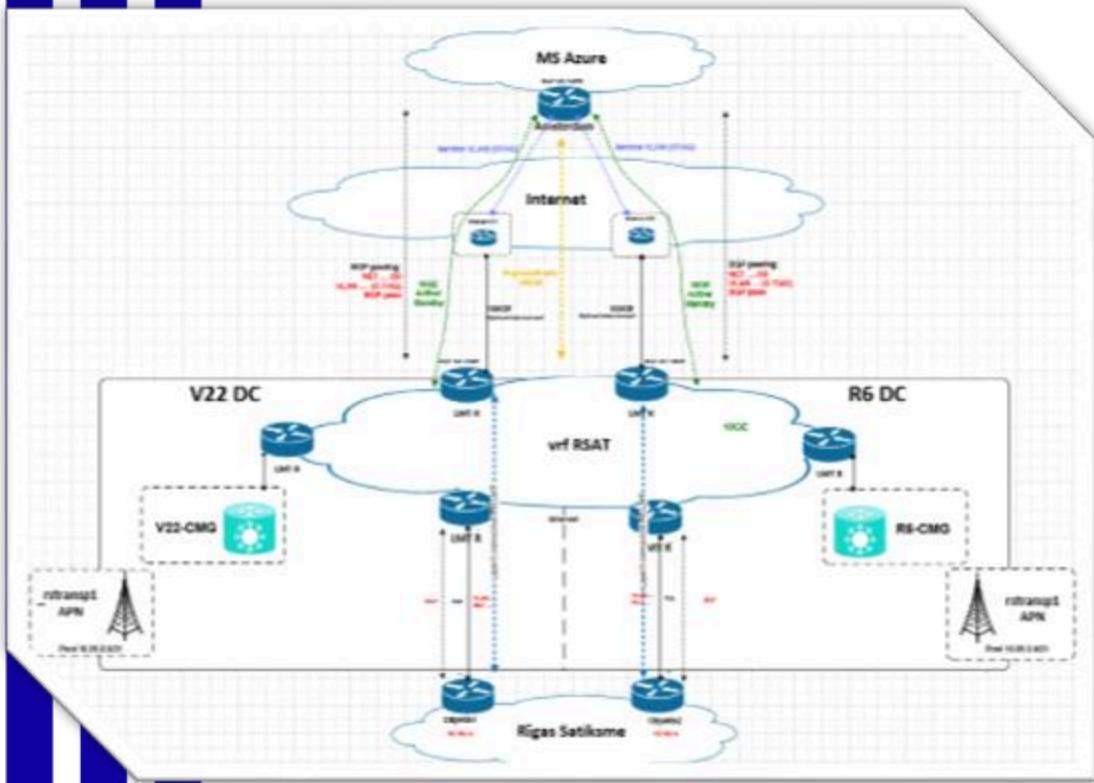
- » 4 different and fragmented technologically outdated offline video surveillance systems, storage in STL up to 7 days due to technical limitations
- » 8 out of 10 requests for video without results
- » Minimum 160 man-hours per week to maintain functionality
- » Data exchange via Wi-Fi or physical wired or SD card STL on arrival at the park
- » Unmanaged monitoring of camera activity
- » Decision to discontinue historical outsourcing to reduce disproportionate costs from external service provider 02.05.2023



RELIABLE TEAM AND TECHNOLOGY



We built, built and we did it...



- » Real-time data transfer via LMT 5G Riga Traffic private network to LMT data centre
- » From LMT data centre Riga Traffic private 10G *Microsoft Express Route* to *Microsoft Azure* data centre
- » Backup of video material to STL and *Microsoft Azure* via Digifort Solution
- » Video traffic over 400TB per month

BENEFITS

- » Monitoring the "health" of the video system
- » Online emergency monitoring and rapid incident response
- » Simplified support For the National Police
- » Online access to both STL in real time, 14 days from Microsoft Azure Cloud





On the way....

- » 5G Industrial Teltonics router installation in STL
- » STL on-board computer upgrade to Windows LTS and SSD
- » Establishment of the first Microsoft Express Route on the LMT network

This project involved...

Galvenajās lomās

Rīgas satiksme Tramvaji, Autobusi, Trolejbusi,
Borta numuri

Microsoft

Arnis Straume
Kārlis Laivīņš

Digifort Global

Francois Levy

Latvijas Mobilais telefons

Aleksejs Gordons
Ģirts Sokolovskis
Andis Onzuls



This project involved...

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Andis Onzuls

...



This project involved...

In the main roles

Rīgas satiksme Tramvaji, Autobusi, Trolejbusi,
Borta numuri

Microsoft

Arnis Straume
Kārlis Laiviņš

Digifort Global

Francois Levy

ALTAS IT

Māris Baltbergs
Ivars Nagainis
Gatis Osiņš
Sanita Meijere
Evita Kopāne
Oskars Pīrags



This project involved...

Latvijas Mobilais Telefons

Aleksejs Gordons
Ģirts Sokolovskis
Andis Onzuls

Teltonika Engineers...

Teltonika Networks

Aušra Masevičiūte
Tautvydas Vaičiackas
Sandra Ditkevičiene



This project involved...

Rīgas satiksme

Džineta Inussa, Gints Zeltiņš
Jānis Golubevs, Mārtiņš Baltais
Aldis Lācis, Sandris Laukazīle
Madara Lange, Jānis Laiviņš
Ēriks Puzankovs, Andris Gailums
Viktors Kisļicins, Ieva Kristīne Karlsone
Artūrs Muižnieks, Aleksandrs Aleksejevs
Raimonds Zamovskis, Zita Purene
Guntars Zeipe, Ilze Tenberga
Juris Šimkus, Arnis Pazars,
Maksims Auziņš

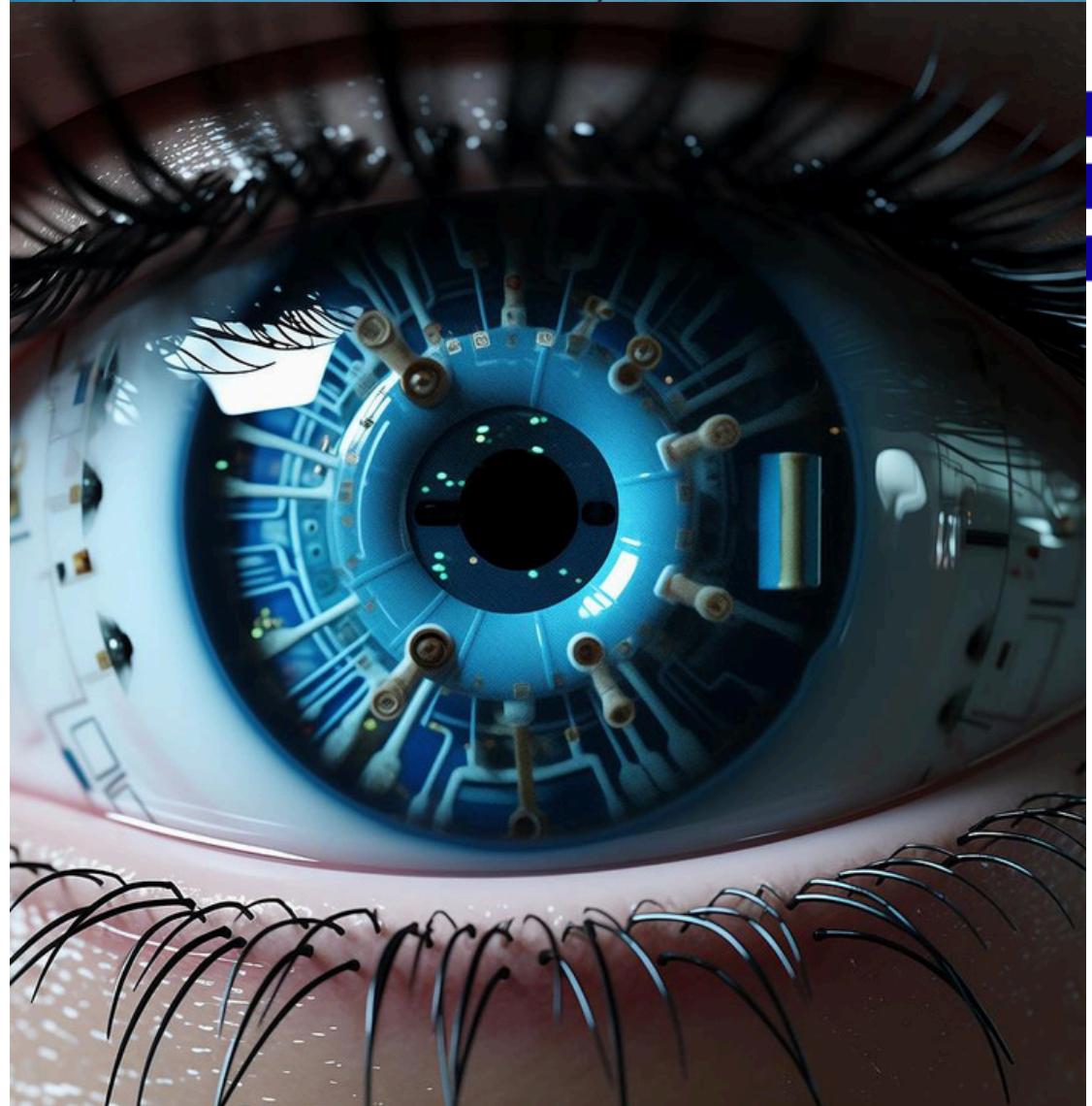
And many others...



To be continued...

We're planning

- » Control of public transport lanes
- » Using Artificial Intelligence in video analysis and incident investigation





Questions & Answers