

Management Systems for Traffic Regulation

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Overview

Why to build it?

What is it?

Description of subsystems

ELTODO references

Conclusions

Why to do that?

Current status:

huge traffic flows, congestions, accidents



It causes:

huge expenses, time delays, downgrade of traffic levels, pollution



How to solve it?

Realize complete Traffic Management System

What does it mean?

Traffic Management System



Complex solution based on
integrated systems of intelligent
applications

1. Traffic control systems
2. Traffic information
3. Parking systems
4. Public transport
5. Enforcement systems
6. Data collection systems

System principle



Traffic Management
Center –
information/control



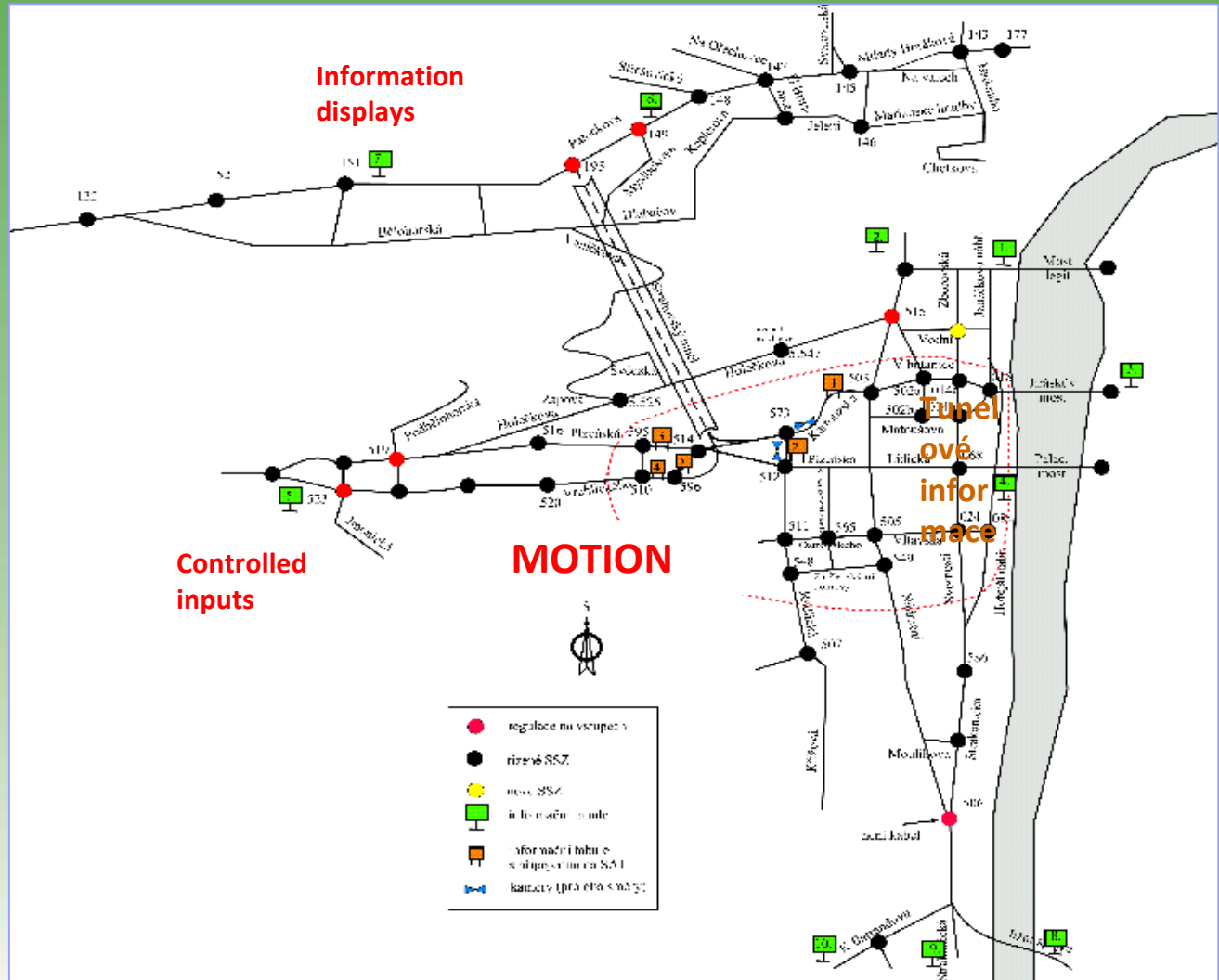
Data collection:

- Detectors
- TV cameras
- Meteo sensors
- WIM sensors
- ETC sensors
- Parking sensors

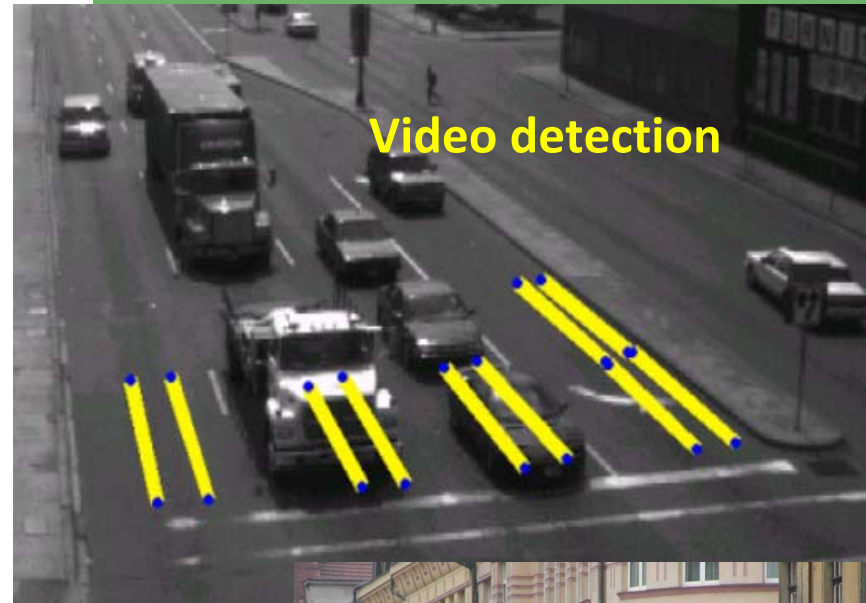
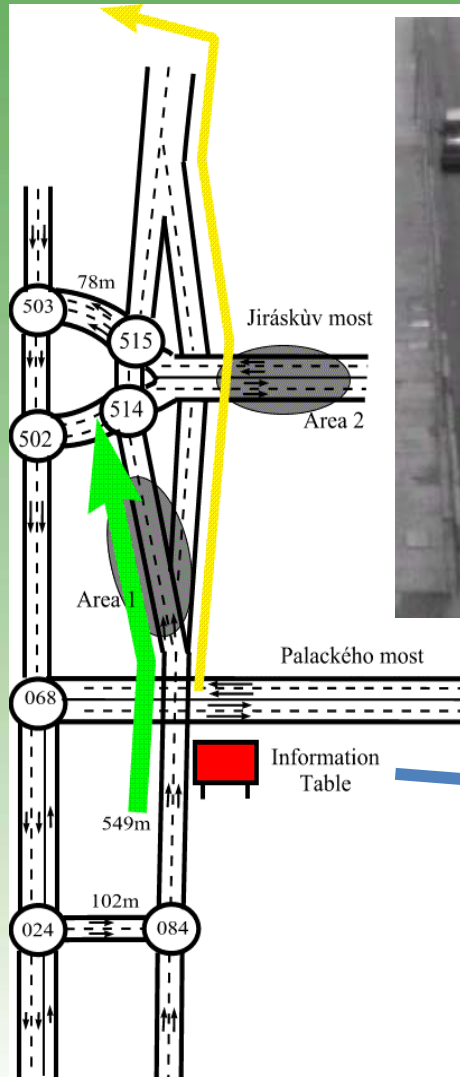


Actuators:

- Control Network
- Information displays
- Parking tables
- WEB, GSM,...

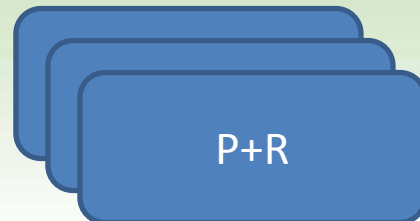
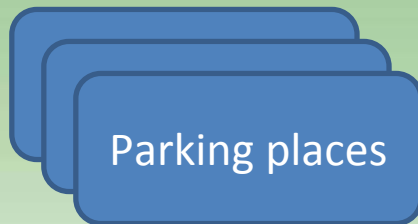


Subsystem – information displays, traffic sensors

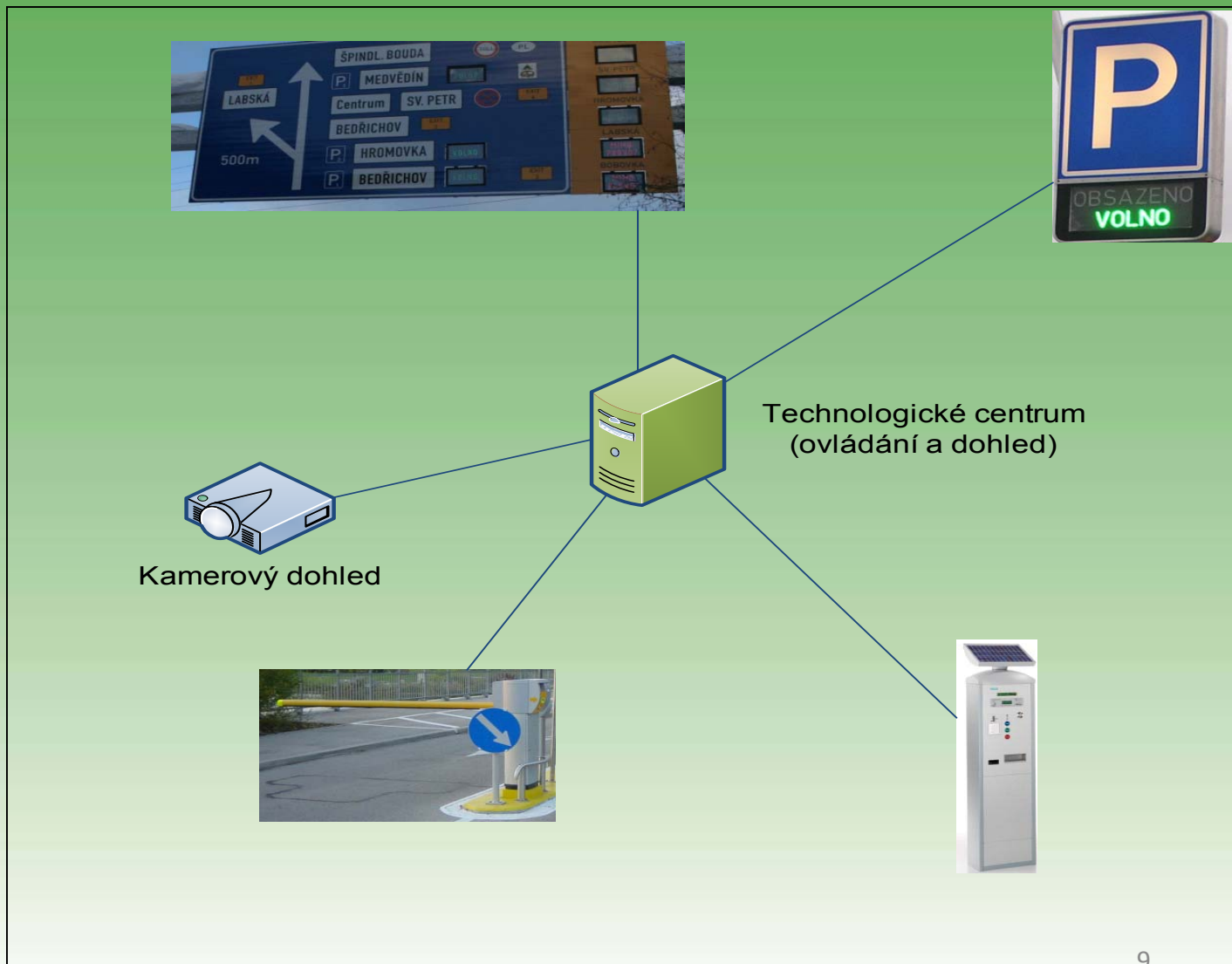


Subsystem – parking systems, dynamic information

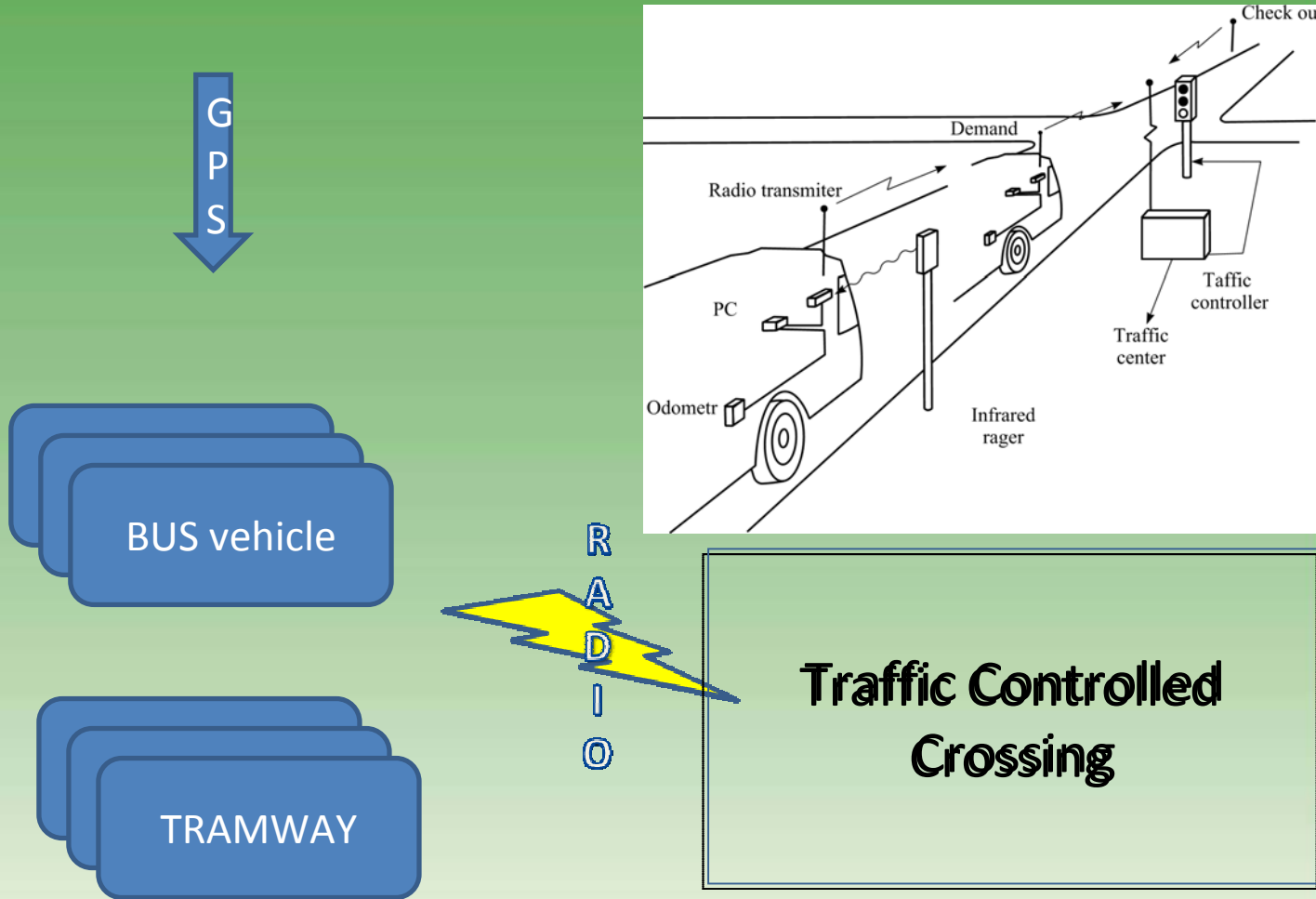
Traffic Management
Center – back office



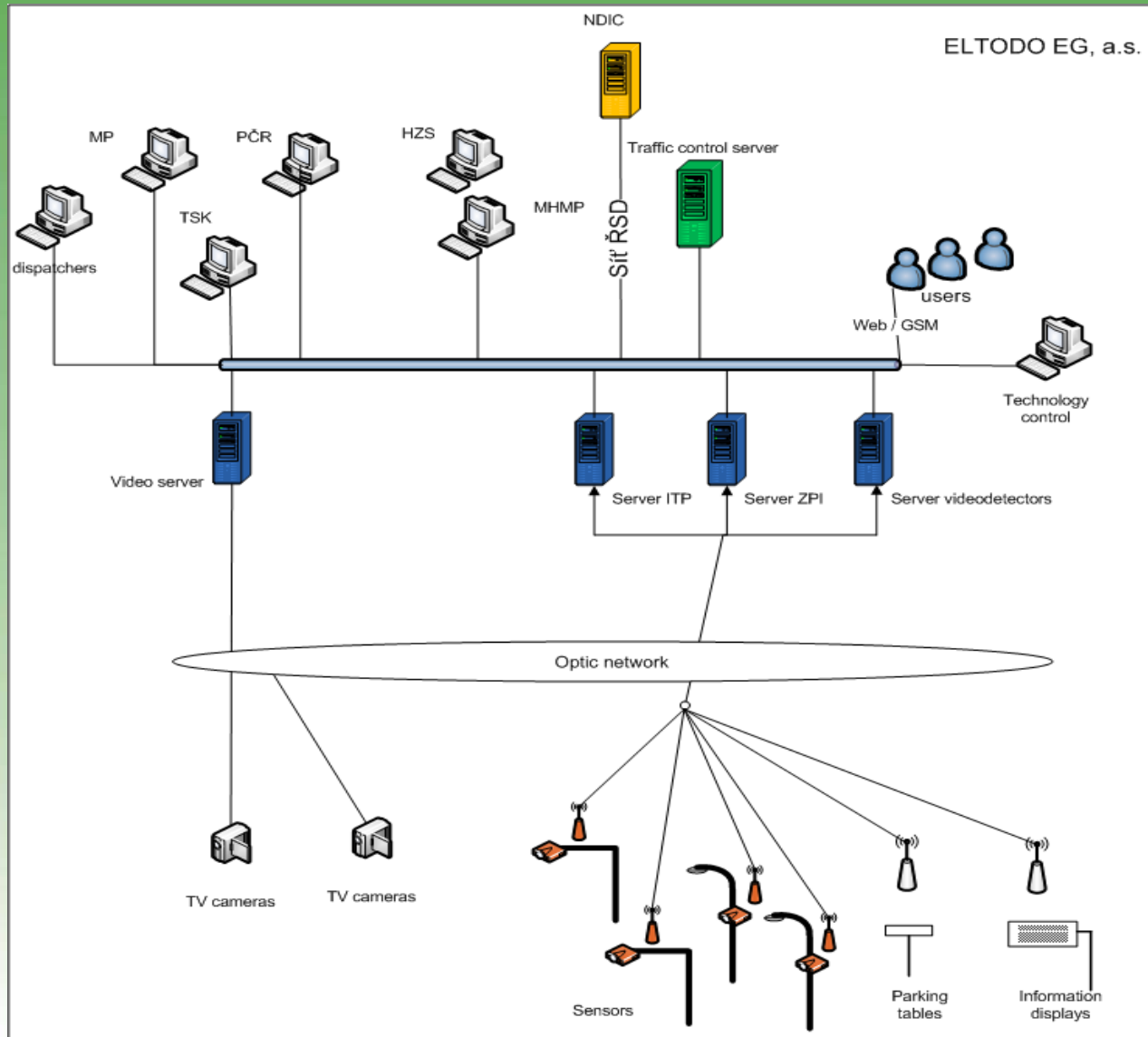
Subsystem – complex parking system



Subsystem – public transport preference



Example - System architecture



ELTODO – Technology Monitoring Center

- since 2008, ELTODO has own Technology Monitoring Center

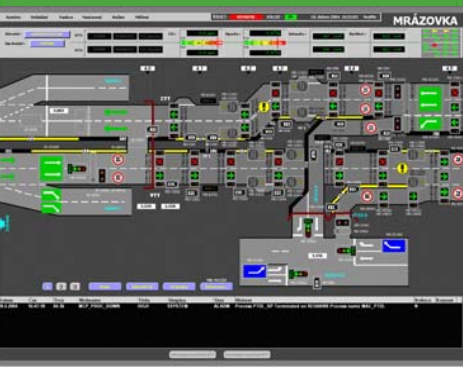
Monitoring of:

- Traffic controlled network
- Parking systems
- Information displays
- Public lighting





- Prague: 10 year contract for extension of current management system, contract covers maintenance as well
- Traffic Management Systems in Olomouc, Ostrava, Brno
- Czech Republic: tunnel technology system , with traffic control systems, variable message signs, etc.
- Highway D1: Information system (supplier of 22 information displays)
- Supplier of HW and SW part of National Information Centre



Conclusions

- Complex Traffic Management System is right way how to improve traffic conditions in cities
- ELTODO is key player in area of Traffic Management Systems
- ELTODO offers complex design, supply and maintenance of Intelligent Traffic Systems

Thank you for attention

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