SEGMIC ENGINEERING

Solution Empowered by Innovations

Solutions for Safe and Smart Road & Transportation

Transportation Systems with PLC based Control

As a specialist in PLC-based control, Segmic delivers advanced control systems for road and transport infrastructure. Our integrated approach combines field controllers, sensors, cameras and SCADA into scalable solutions for safer, smoother and better-informed mobility.

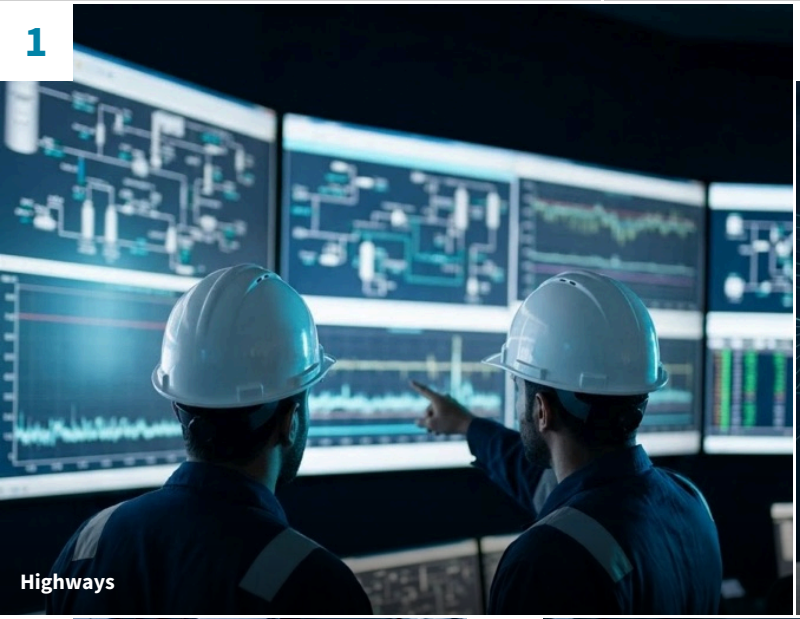
Our solutions are designed for availability and long-term performance, for new corridors and upgrades of existing networks. With expertise in platforms such as Siemens, Allen-Bradley, SICK and many more, we deliver traffic management, tunnel and road systems, tolling and predictive maintenance tailored to each authority.

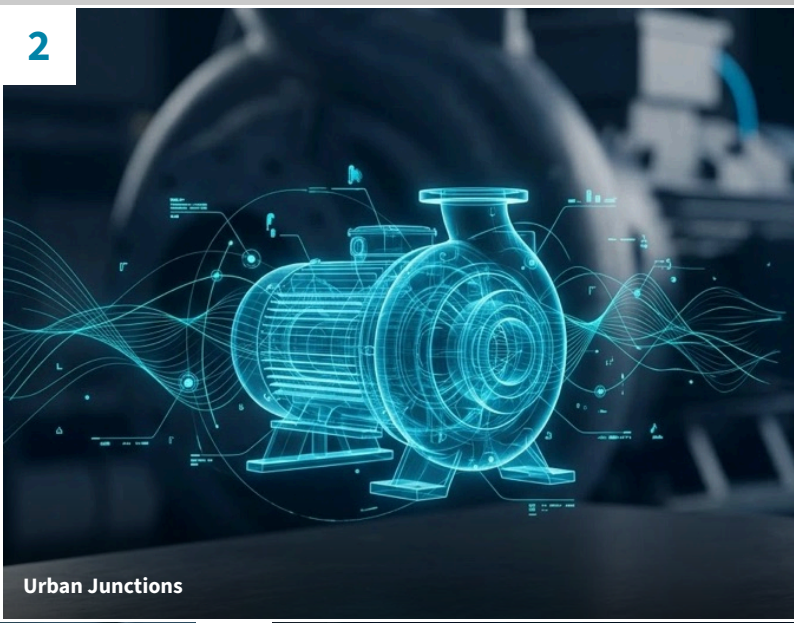
From highways, junctions and tunnels to bridges, stations, depots and car parks, our systems reduce congestion and emissions, detect incidents faster and keep roadside equipment healthy.

We ensure seamless integration with roadside devices and existing systems, supporting protocols like NTCIP, Modbus, PROFINET, ONVIF, OPC UA, MQTT and more. Additionally, we enable edge and cloud connectivity for traffic control centres.

Application areas for the Segmic control solution

1. Highways
2. Urban Junctions
3. Tunnels
4. Bridges
5. Toll Plazas
6. Bus & Metro Stations
7. Depots & Workshops
8. Car Parks
9. Ports & Logistics Hubs





From individual technical systems to a safe, intelligent complete solution

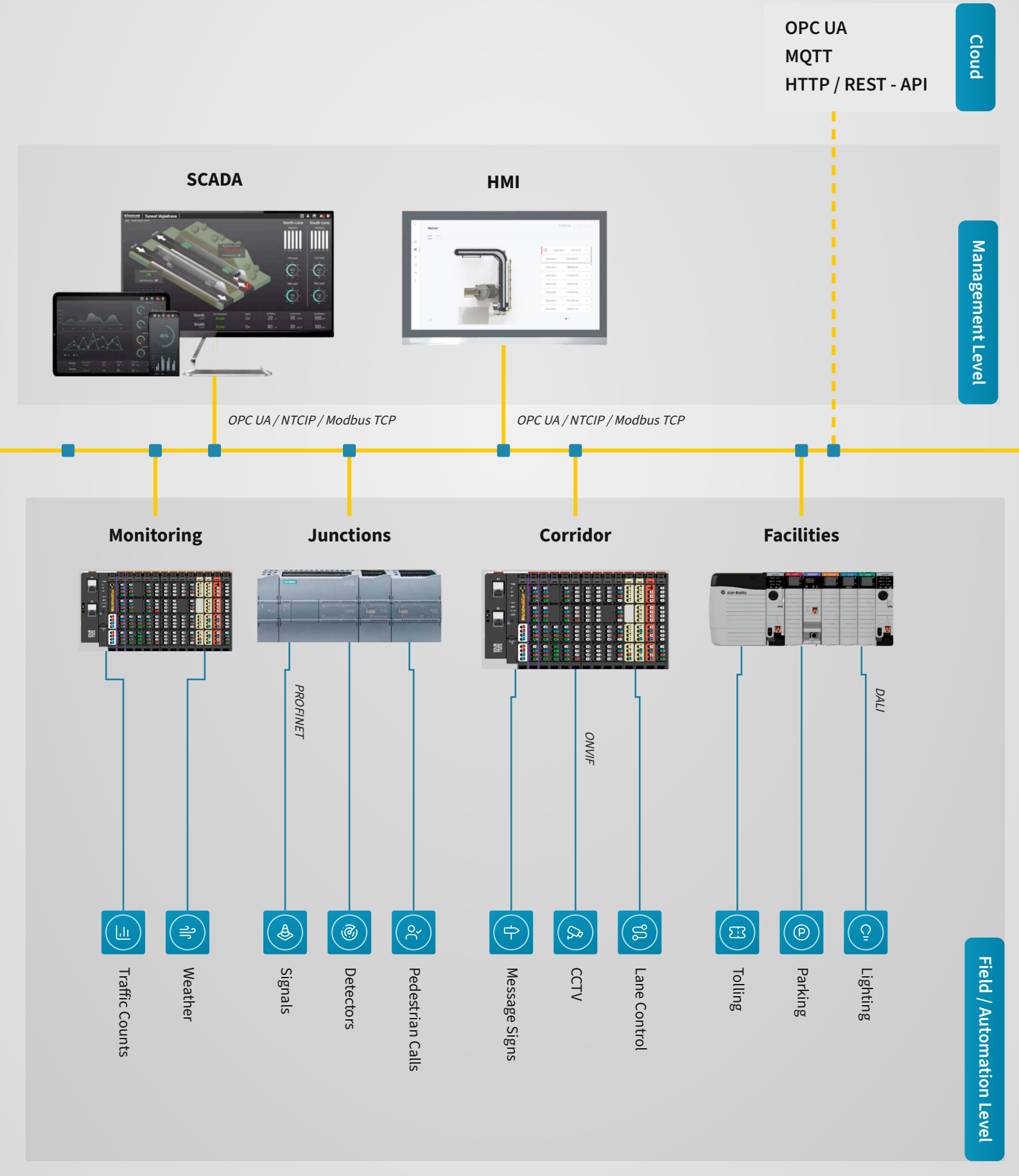
All technical systems integrated in one control system:

- Adaptive traffic signal control
- Real-time traffic and incident monitoring
- Variable message signs and lane control
- Tolling and access systems
- Tunnel and road lighting
- Predictive maintenance of roadside equipment

All components for smart transportation systems

At Segmic Engineering, we automate road and transport systems in a comprehensive, scalable, and future-ready manner. Roadside controllers, detectors and cameras connect over fibre and wireless networks to a central traffic management platform.

This architecture lets every junction and tunnel act locally while the control centre coordinates the network — significantly reducing cabling, response times and maintenance effort.



Website

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