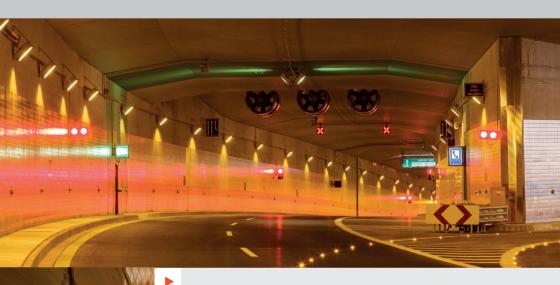
SOLUTIONS FOR

TRANSPORT IN TUNNELS





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TELEMATICS SOLUTIONS FOR ROAD TRANSPORT

- Transport study
- · Project activities and designing
- Administration of grant titles
- Complex implementation
- Integration into existing systems
- Service and maintenance
- Deputed administration



SOLUTIONS FOR

TRANSPORT IN TUNNELS





CONTROL SYSTEM

- · Transport and technology part
- Main Dispatching Centre
- Traffic management and management of Integrated emergency system

OFFENCES

- Sectional or current speed measurement
- Red enforcement, detection of oversized vehicles
- Measurement of vehicle height, high speed weighing

INFORMATION AND GUIDANCE SYSTEMS

- Operational information device
- Portal and semi-portal constructions

COLLECTION OF TRAFFIC DATA

- Measurement of intensity and fluency of traffic flow, calculation and measurement of driving times
- Measurement and classification of traffic offenses
- Vehicle detection and classification (installation of induction loops or sensors into the road)

MEASUREMENT OF PHYSICAL QUANTITIES

- Detection of air quality and air flow direction in the tunnel (Opacity, CO, NO, direction of flow)
- · Smoke detection in the tunnel

RADIO CONNECTION

- Ensuring of the connectivity of GPS and GSM signals
- Data connectivity ensuring (directional antennas)
- Systems usable for Integreted emergency systems, Directorate of Roads and Motorways

ELECTRONIC FIRE ALARM

Control panel including peripherals and connection to the control system

ELECTRONIC SECURITY SIGNALLING

 Control panel including peripherals and connections into the security control system to secure unwanted entry and property protection

AIR TECHNOLOGY

- · Sensor control system
- · Air conditionina
- Fans

LIGHTING

- Accommodating, operational, backup and fire emergency tunnel lighting
- Directional line lighting in the tunnel and lighting of the escape routes of the tunnel
- Active control and control of the light flow to save energy

