

SOLUTIONS FOR TRANSPORT IN TUNNELS



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

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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 Integrated 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 conditioning
- 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

