

# Transport telematics as a part of the intelligent transport infrastructure

## Oveview

## ITS Sofia Czech Days

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# ITS macro functions

- 1) electronic tolling
- 2) management of rescue services
- 3) traffic management
- 4) public transport management
- 5) intelligent vehicle
- 6) journey planning & information provision
- 7) fleet and freight management
- 8) enforcement systems



# ITS&S Czech Republic

- We are Czech Association for Transport Telematic
- We **co-ordinate and accelerate the ITS deployment** in the field of road, railway, air and inland waterway transport in the Czech Republic.



## Our aims

- educate and train ITS professionals and users
- be a partner to central and regional authorities (ministry of transport, regional governments)
- co-operate with international organizations (EC, ERTICO, ITS national platforms)
- enable information exchange and sharing know-how
- co-operate on ITS standardization process
- promote members' activities

# ITS&S Czech Republic facts

- Founded 2000
- 65 business members
- 12 co-operating institutions
- Presidium:  
Prezident, Vice-prezident  
+ 3 prezidium members



# ITS technical components

- **Sensors & actors:** gate crossing signals, cameras, active and passive detectors, radar
- **Communications:** GSM-R, GSM, GPRS, EDGE, DSRC, RFID, WIMAX, CALM
- **Positioning :** GPS, Glonas, Galileo, EGNOS, gantry systems
- **Data processing:** GIS, billing, management, expert systems
- **End user devices:** on-board units, chip-cards, user terminals

# Structure of ITS&S CZ

- Public sector Prague city hall, Road & Highway directorate
- Universities, R&D CDV, **CTU Prague**, TELEMATIX, UDI
- Consulting BABTIE, KPM Consult, PBA, TRANIS, TECHNOLOGIES&PROSPERITY
- System integrators **AŽD PRAHA**, PVT, XT CARD, **ČD TELEMATIKA**
- Transport operators Prague, Brno
- Car manufactures ŠKODA AUTO
- Domestic suppliers **AŽD PRAHA**, CAMEA, **ČD TELEMATIKA**, **CROSS**, ELTODO, FCC, **IKROELEKTRONIKA**, PRINCIP, **SPELL**, **SVT**, **TECO**, **TTC**, **ZNAČKY PHA**
- International corp. Alcatel, **Kapsch**, Navteq, Siemens
- Telco O2 Telefonica, Radiocomunications, T-Mobile CZ
- Construction comp. Metrostav, VIS

# ITS applications (examples)

- Train Control Systems (ETCS)
- Communication & application platforms (GSM-R, DSRC, remote diagnostics, ...)
- Application of satellite navigation systems (GNSS, Galileo, GPS, Glonass)
- Technical specification of interoperability in railway transport (TSI)
- Transport logistic systems
- Fleet and freight management systems
- Integrated timetables for multimodal transport
- Electronic tolling and ticketing (using chip cards in integrated public transport)
- Dangerous transport monitoring

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