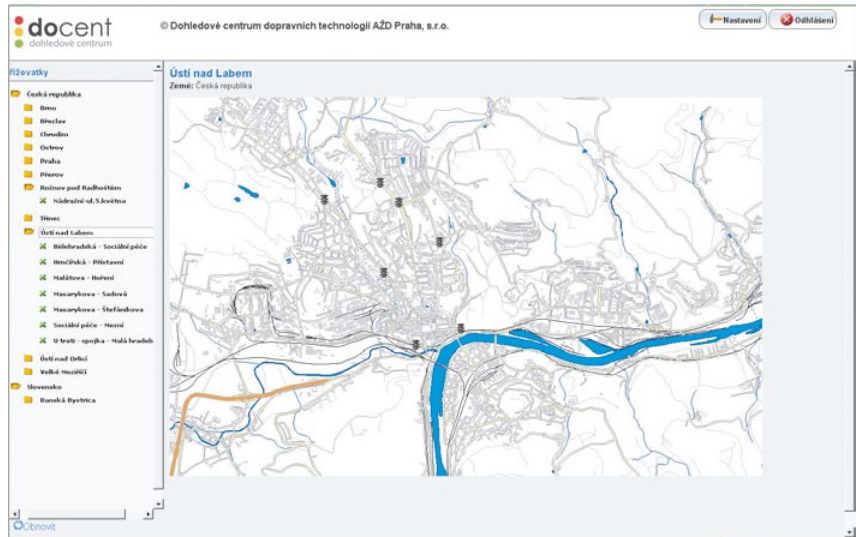# DOCENT – SUPERVISORY CENTRE

- **Field monitoring and diagnostics**
- **User friendly and well arranged system interface**
- **Vital access to information through Internet**
- **Compatibility with wide range of equipment**
- **Modular concept**

General Description

DoCent Supervisory Centre is a system for monitoring and diagnostics of the equipment used in road traffic, e.g. light signalling controllers or parking navigation systems. In some cases setting of remote equipment parameters is possible.

DoCent has been designed as an open system supporting interconnection with wide range of different technologies. They can include for instance DECO survey camera systems designed to monitor situation in a selected area for an instant or a subsequent evaluation of traffic situation.

DECO kamera

The Supervisory Centre can be coupled also with technologies outside the transportation area – e.g. switch-on points of public lights, building remote administration systems and others. System can be coupled also with other technologies not included in AŽD Praha production program.

For authorised persons, DoCent provides a complex review of current traffic situation of monitored equipment through Internet network.

Basic Technical Description

The Supervisory System consists of three basic components – DoCent server, a computer with client application and appropriate modules for communication with the field equipment.

PRAHA

DoCent server is a computer located on the Internet backbone, physically in the Czech Republic. The server is interconnected with monitoring equipment through failsafe wireless transmission.

Client's application is started with ordinary web pages browser (Microsoft Internet Explorer). An authorized user receives information via browser generated directly by a server. Different application levels are accessible to individual users. Because of minimisation of transmitted data no special Internet speed requirements are required.

System interface is user friendly and well organised. It uses city maps, where the equipment state is displayed by icons at appropriate locations. Message regarding a fault can be automatically transmitted as SMS to mobile phone of the service technician, possibly to the police of the Czech Republic or to Municipal Administration. At intersections deployed by MR-28 controllers from AŽD Praha production some failures can be even repaired remotely.

Measured values and statistical data are transmitted to server by updating required frequency. Picture (video image) from individual DECO cameras is gradually automatically switched-over in approx. 7–15 seconds.
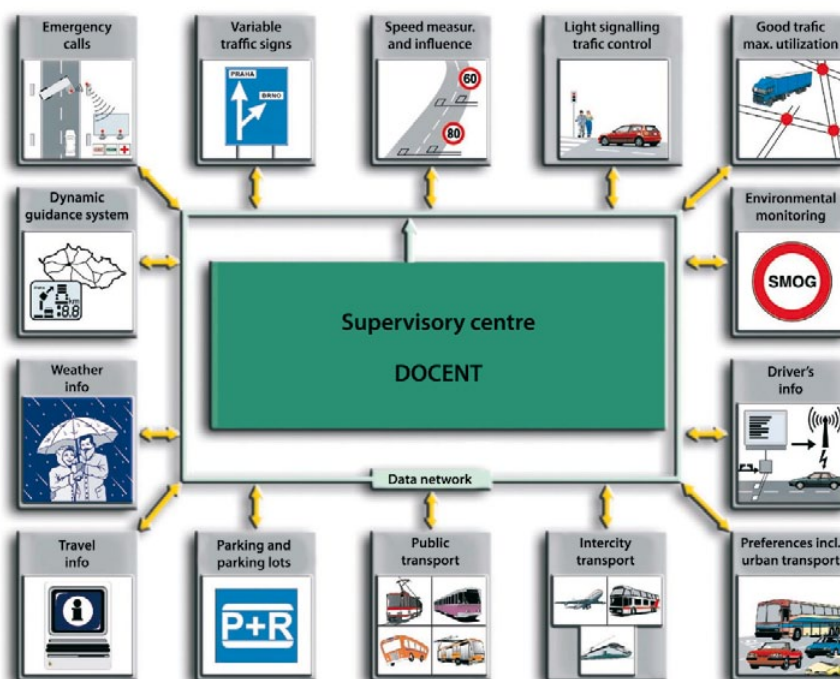

Diagram of the supervision centre functional use

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