

Development of an operational management system for Motorway M10

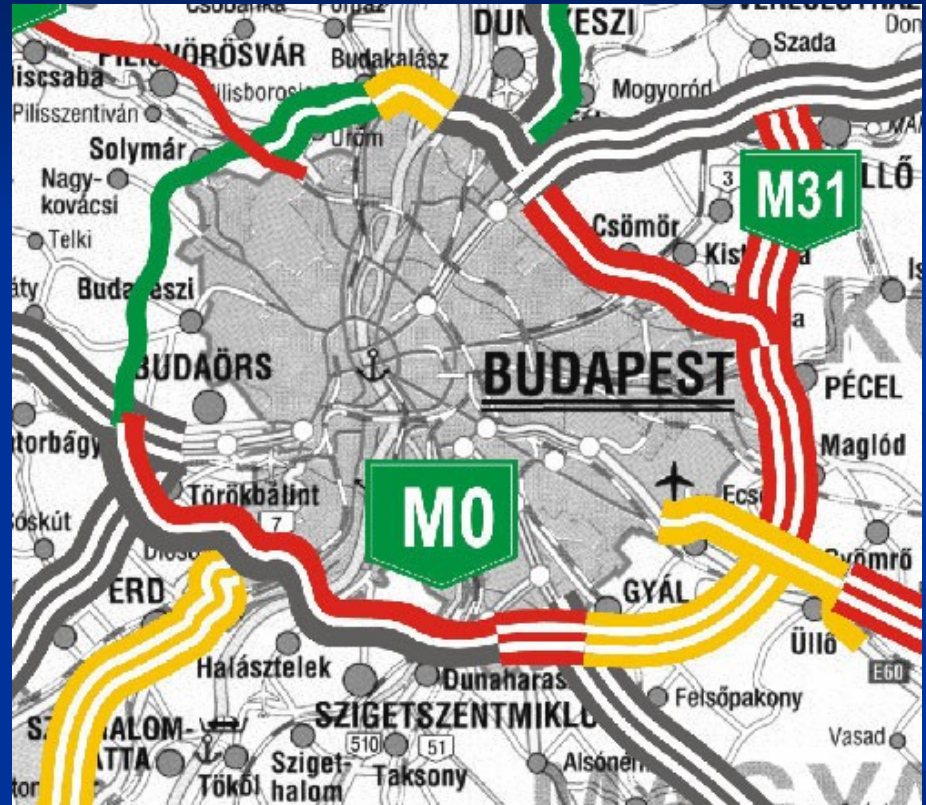
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Problems of development

- Plans
 - integrated, dynamical, collective traffic management system
- Implementation
 - incapable half built systems
- Reasons
 - lack of financial sources
 - lack of suitable organizational background
 - lack of comprehensive concept

M0 motorway around Budapest

- Network function
 - connection between the motorways
 - reduction in traffic load of Budapest
- Traffic operation
 - huge traffic demand
 - increased accident risk
- Scheduled configuration



Demands on Traffic Management

- Operation of the motorway
 - compulsory
 - minimal requirements
- Traffic management
- Increase of traffic safety
 - beyond the minimal requirements
- Better traffic and traveller information

Existing Traffic Management System

- Planned functions
 - integrated, dynamical, collective traffic management system
 - monitoring of speed, road conditions, weather
 - scheduled configuration
- Implemented system
 - traffic monitoring
 - information center for data evaluation
 - unable to manage the traffic – no such devices

Proposed Traffic Management System

- Basic tasks
 - independent from the financial possibilities
- Extra services
 - increasement of the level of service
 - dependent on financial possibilities
 - possibility of Public-Private Partnership
- Scheduled implementation
 - in space
 - in time
 - in hierarchy

Basic tasks

- Warning of accidents
 - ambulance, police, fire fighters
- Emergency phones
- Information about weather emergency
- Information about road conditions
- Information about traffic closures by lanes

Extra services

- Supplementary subsystems
- For road users
 - dynamical route guidance
 - dynamical traffic information
 - Possible participation of private companies
- For operator
 - dynamical traffic management

Possibilities of further development and connection

- Implementation
 - segment of ITS
 - compatibility with other systems
 - suitable system hierarchy for application of further, currently unknown subsystems
- Connection to other systems
 - integrated traffic management and information system

Lesson learnt

- Careful system design
 - basic system
 - supplementary subsystems
 - scheduled implementation
 - comprehensive concept
- Organization
 - parties interested in the operation of the system
 - assurance of continuous funding for development and operation

**Thank you for your
attention!**