Development of an operational management system for Motorway M0

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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!