ITS and Integrated Road Network Operations

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Management of Road Network Operations
Traffic control 100 years ago
Traffic control in the 21st century

Real-Time Operations
24 hours x 7 days a week
Dynamic measures......

Traffic situation analysis / forecast
(problem sample)

accidents
capacity overload
road works
events

.... to remove and reduce traffic problems
Role of ITS in Integrated Road Network Operations
Some high level goals

- Safe roads
- Informed travellers
- Reliable Journeys

= Intelligent Transport Systems

ITS
Scope of the Euro-Regional Projects

1. Road Monitoring Infrastructure
2. European Network of Traffic Centres
3. Traffic Management and Control
4. Traveller Information Services
The role of Travel Logistics Products

TrafficMaster
The role of the Internet

Truckinfo web site

- Multilingual
- Links to FEDRO site
- Truckinfo Menu
  - Traffic info
  - Traffic bulletin
  - Routing
  - Restrictions
  - Advice
  - Contact
- Terminals for piggyback service
- Map control
The role of Traffic Demand Management (TDM) in network operations

Road User Charging
Future developments

Global Navigation Satellite Systems (Galileo)

- 24 Satellites in 6 Orbital Planes
- 4 Satellites in each Plane
- 20,200 km Altitude, 58 Degree Inclination
Integrated Network Operations

The challenges

- Levels of service
- Economic performance
- Increasing demand
- Rising public expectations
- Safe, reliable journeys
- Standards & procurement
- International road traffic
- Inter-modal connections
- Air quality and environmental impact
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Management of Network Operations

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