Network Management systems of the future

ERTICO
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General Scope

How ITS can contribute to solve the permanent challenge of managing urban traffic congestion by addressing the associated issues:

- Infrastructure management
- Safety
- Mobility
- Environmental impact

Infrastructure Management

- **Adaptive network management**
  - Transport mode priority management
  - Traffic detection (probe data)
  - Cooperative Vehicle Infrastructure Systems
- **Individualised access control and charging**
  - Vehicle category
  - Time of the day

Safety

- Protection of vulnerable road users
- Intersection safety
- Cooperative vehicle-to-infrastructure / vehicle-to-vehicle systems
- Increase drivers' awareness:
  - Complex traffic situations
  - Speed-sensitive locations (e.g. schools)

Mobility

- Multimodal transport
- Real-time traffic and travel information
  - especially floating-vehicle data collection
- Parking information
- People navigation
- Cooperative Systems and Services
- “Connected Traveller” online services

Environmental Impact

- Reduce environmental degradation due to transport: Fuel consumption, CO_2 and pollutant emissions, Noise
- ITS solutions for infrastructure
  - Traffic control and management
  - Multimodality
- ITS solutions for vehicles & drivers
  - Adaptive cruise control, Stop & Go assistant
  - Eco-driving

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