ITS and Road Management

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Road (Traffic) Management

• Managing traffic to make best use of the available road space:
  – according to the road function
  – considering all road users, and
  – ‘optimising’ the movement of people and goods, not vehicles
A UK success story – using ITS

In both Towns/Cities and on Motorways
SMART Motorways

Full motorway lighting
Comprehensive CCTV camera system
Driver information signs
Digital enforcement technology
New lightweight gantries
New emergency roadside telephones
Emergency refuge areas
Hard shoulder running
Signals
Sensors

Source: www.highways.gov.uk/knowledge/1351.aspx
ROMANSE

Information Sources
- Physical reports (Police, etc)
- Car park monitors
- Motorway traffic sensors and cameras
- Urban traffic sensors and cameras
- Environmental and weather reports

Information Processing
- Strategic and geographic information database
- Real-time and historic data
- Public transport schedules and real-time information

Controlled Priorities
- Synchronised 'real-time' responsive traffic signals for flow control

Information Dissemination
- In-vehicle information systems
- Better information through established media
- Electronic bus information display, WAP and SMS
- Coordinated improvement of alternatives to car transport
- On-line data for business and home use
and there is more to come!

- Co-operative systems.....
- Automated systems/vehicles.....

**BUT**

ITS can only do so much!

We also need the right balance of transport demand and supply (capacity)!

and a policy to prioritise sustainable modes!
GPS based Bus Priority at Signals

- GPS
- AVL centre
- Location/time
- Priority implement
- Priority request
- Signal controller
- (odometer, route matching)
Thank You!

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