

# Social Innovation and Intelligent Transport Systems

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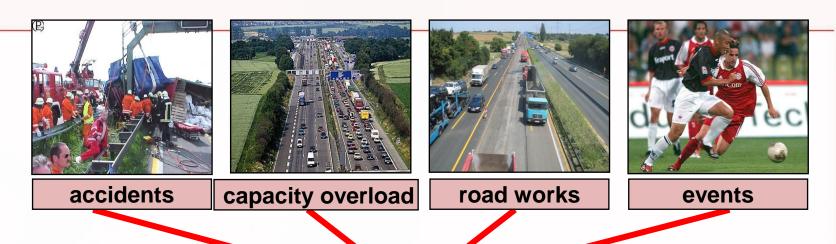
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### Intelligent Transport Systems



24 hours x 7 days a week

### Network operations use ITS ...



Traffic situation analysis / forecast

... to remove and reduce traffic problems

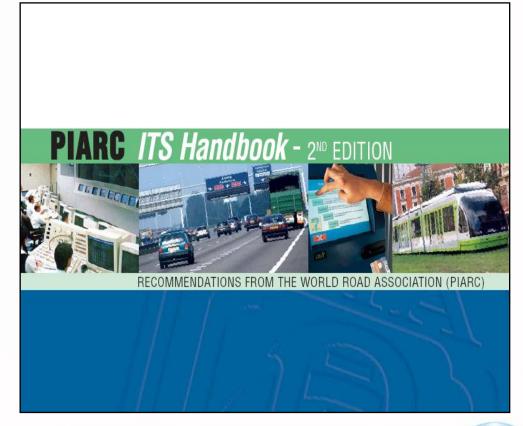


### The I.T.S. Handbook from PIARC

### 2<sup>nd</sup> Edition

English
French
Chinese
Spanish

2011 on-line with free down-load for teaching and training purposes









### Comité Technique sur l'Exploitation des Réseaux

L'exploitation des réseaux routiers et les activitiés qui la composent



#### Systèmes de Transports Intelligents - Index

#### Table des Matières - Manuel STI

- 1. Que sont les systèmes de transport intelligents?
  - 1.1 Définition des STI
  - 1.2 Contexte des STI
  - 1.3 Domaines d'applications des STI et usages
  - 1.4 Concepts de base
  - 1.5 Systèmes évolués de gestion du trafic
  - 1.6 Systèmes évolués d'information aux voyageurs
  - 1.7 Systèmes évolués de contrôle de véhicules
  - 1.8 Systèmes d'exploitation de véhicules commerciaux
  - 1.9 Systèmes évolués de transports en commun.
  - 1.10 Systèmes de paiement électronique
  - 1.11 Systèmes de sûreté et d'intervention en cas d'urgence.
  - 1.12 Conclusions

#### 2. Comment fonctionnent les systèmes de transport intelligents?

- 2.1 Technologies des STI
- 2.2 Acquisition de données
- 2.3 Obtention des informations : Traitement de données
- 2.4 Communications et échanges de données.
- 2.5 Litilisation de l'Information.
- 2.6 Paiement électronique
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#### its-handbook.piarc.org



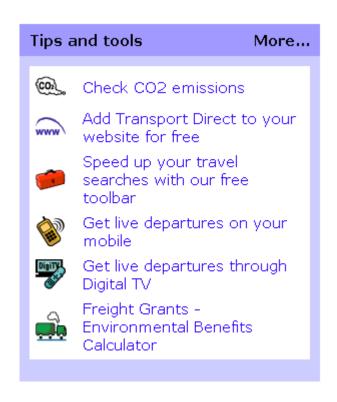


### "Transport Direct" in the UK



#### http://www.transportdirect.info/





## Communicating in real time

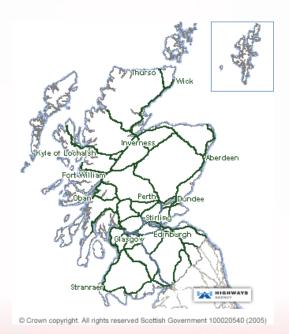


- Changeable message signs are widely deployed by road operators
- Smart phones and the mobile internet bring new potential: the "connected vehicle"
- Mobile Internet: Microsoft, Google, and Yahoo! all have real-time traffic overlays on their mapping products

### The Traffic Scotland Web Service

### (http://www.trafficscotland.org)







#### **Journey Times**

You can use our Route Journey Times tool to get the latest travel times between our destination points.



#### **RSS / Twitter**

We publish live traffic information as RSS Feeds and also as Twitter updates. Find out what information is available here.



#### **Mobile Website**

Traffic Scotland's new mobile optimised website is available now at m.trafficscotland.org.

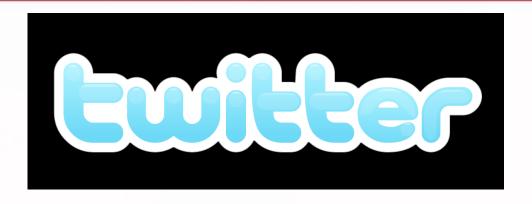


### Smartphone Apps

Traveline Scotland, in partnership with the Traffic Scotland service, provide free Android and iPhone smartphone apps. Available now at the Android and Apple App Stores.



### Tweeting about the traffic situation





### **Traffic Update**

@traffic\_update United Kingdom

When travelling becomes a pain in the bumper, use Traffic Update to stay ahead of the traffic

http://www.traffic-update.co.uk



## "Crowd sourcing" map data



TomTom have 16 million Map Share™ community members

### Social network using GPS smart phones



"Because the people input it, we know what's going on on the road, we know about road closures, we know about exits not working, we know about signals not working, things that we can actually effect and improve people's driving"

Michal Roman Habdank, a spokesman for Waze.com.



### Why road managers have to get connected

- Early notification of incidents and accidents
- Greater ability to influence drivers and routeing
- Increased safety and smoother traffic flow
- More and better quality traffic data and intelligence
- Road condition alerts
- Reduced signage costs
- Increased journey time reliability
- Improved enforcement (e.g. speeding, over-weight vehicles)
- Great PR opportunities



### Thank you for your attention!

Please visit the ITS Handbook & Network Operations Web Site

www.its-handbook.piarc.org

http://road-network-operations.piarc.org

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