



ITS and Integrated Road Network Operations

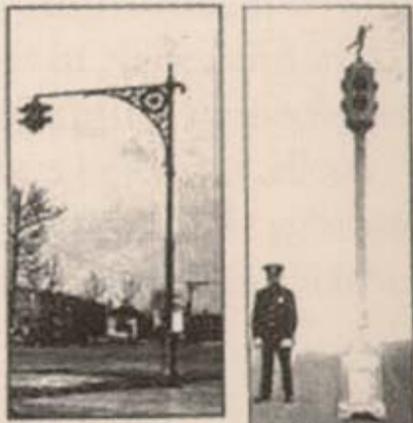
Dr John Miles

Chair PIARC Technical Committee 1-4
Management of Road Network Operations

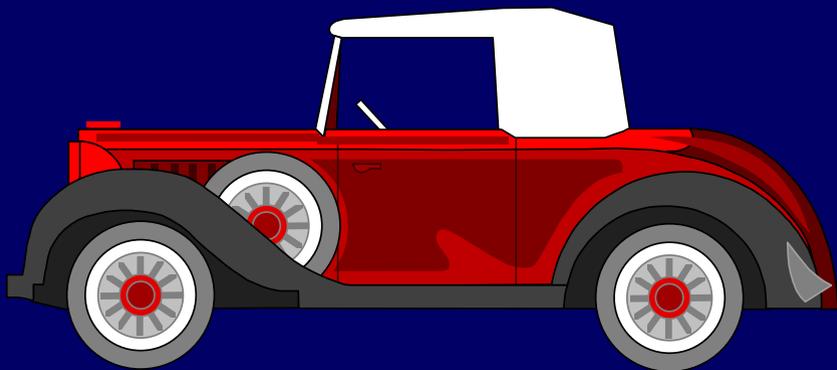
Traffic control 100 years ago



Original Wooden Tower (1919)



Present Mast Arm Signal (1925) Proposed Fifth Avenue Signal Unit (1929)



Traffic control in the 21st century



Real-Time Operations
24 hours x 7 days a week

Dynamic measures.....



accidents



capacity overload



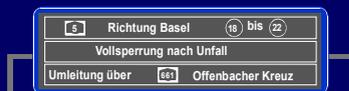
road works



events

**Traffic situation
analysis / forecast
(problem sample)**

.... to remove and reduce traffic problems



Role of ITS in Integrated Road Network Operations

Association
mondiale
de la Route

AI PCR



PIARC

World Road
Association

PIARC *ITS Handbook* - 2ND EDITION



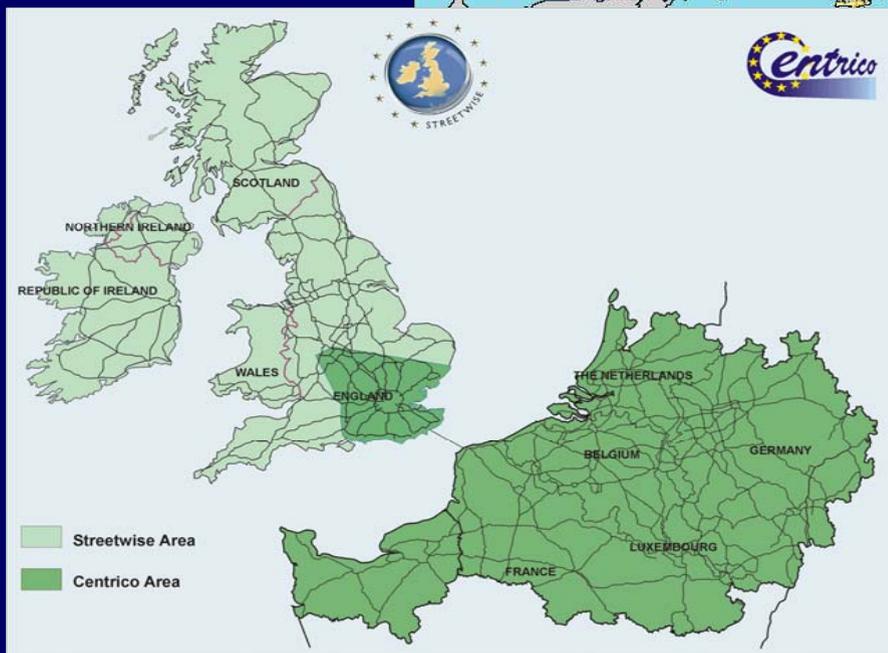
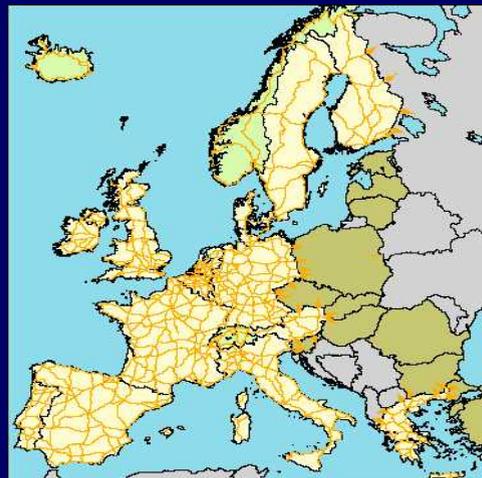
RECOMMENDATIONS FROM THE WORLD ROAD ASSOCIATION (PIARC)



Some high level goals

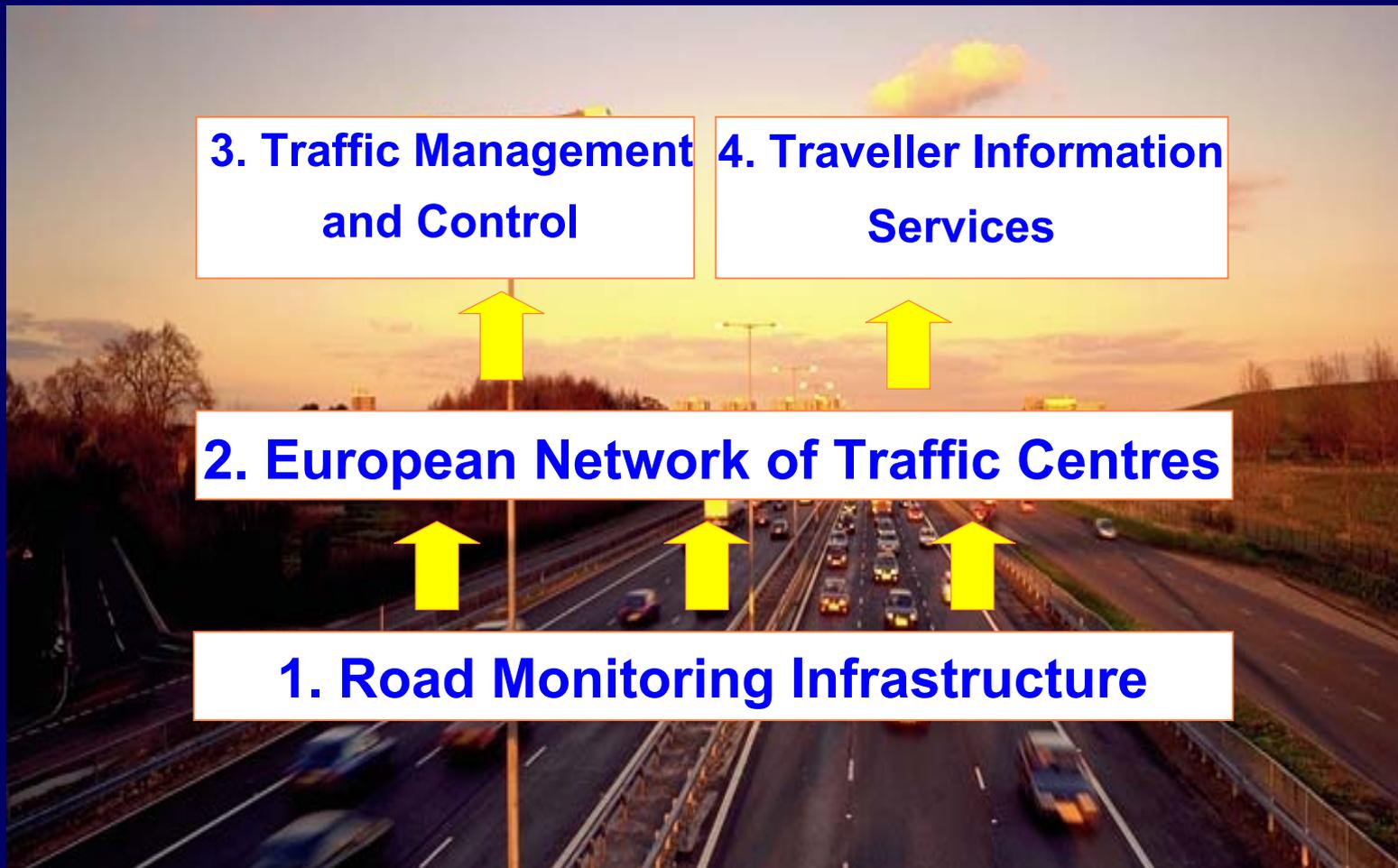
- Safe roads
- Informed travellers
- Reliable Journeys

= Intelligent
Transport
Systems
ITS

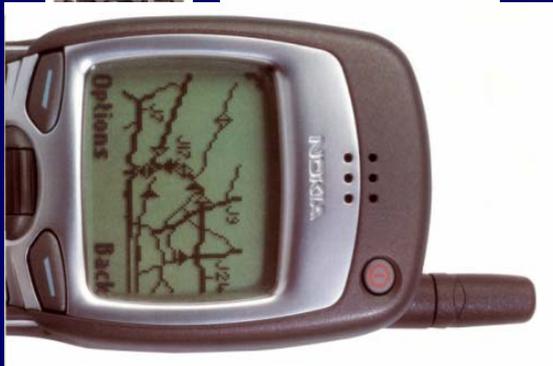
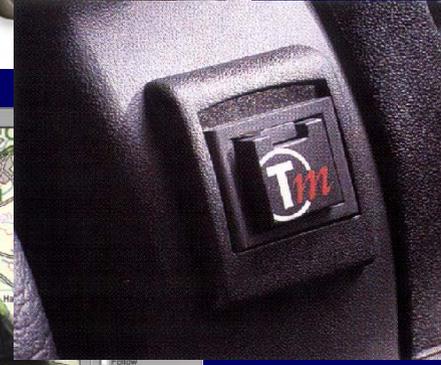




Scope of the Euro-Regional Projects



The role of Travel Logistics Products



Trafficmaster
online.com

find out more

Trafficmaster Products

KEY: traffic speed and direction

20 20-25 m.p.h 15 10-15 m.p.h 5 0-5 m.p.h

Member Services

- Live traffic maps
- Journey Guard
- Mobile Internet Services
- Personal Traffic Alerts and Reports

[click here](#)

NEW model

The all new Xsara Picasso - from the moment you set eyes on it you'll be hooked, because while style is difficult to define, it's very easy to recognise. Get ready for The Great Escape...

THE NEW CITROËN XSARA picasso

map | journeys | guard | products | my details | log out

zoom + -

lowing, A1 (S) free flowing, A1079 (E) free flowing, A1079

Follow

Date: 19/04/00

Start Time: 12:00:00

End Time: 13:19:38

Stop: 00:01:00

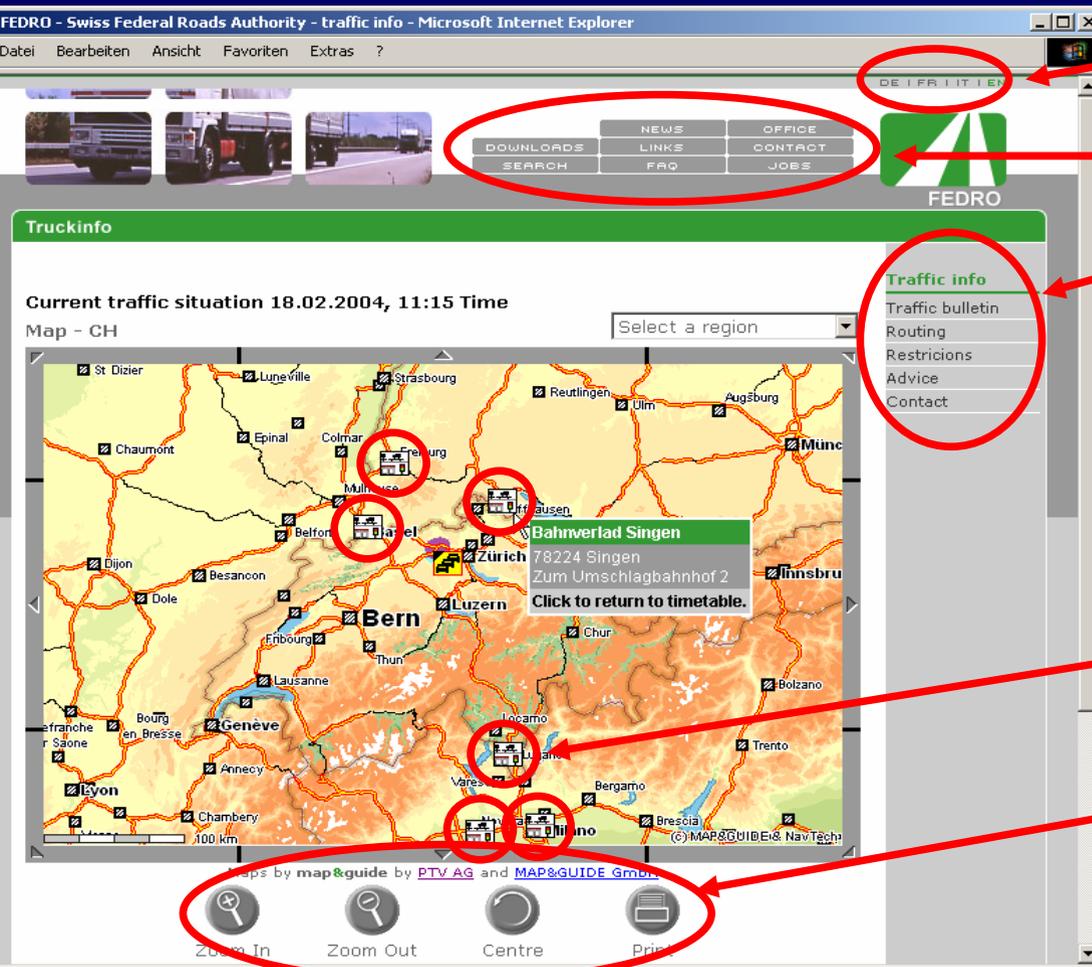
Speed:



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

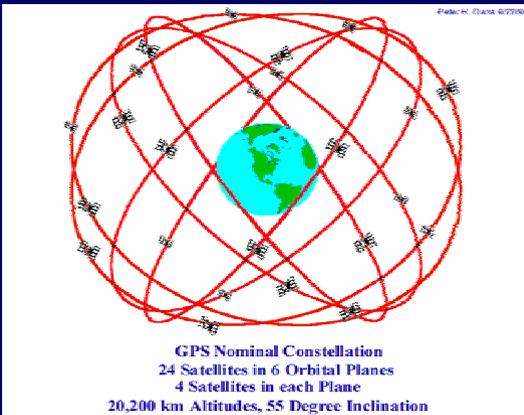
Road User Charging





Future developments

Global Navigation Satellite Systems (Galileo)





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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PIARC

World Road
Association

PIARC Technical Committee 1-4 Management of Network Operations

International Seminar

Kuala Lumpur 14-16 August 2006

