

BUILDING THE INFORMATION SOCIETY FOR THE
CITIZENS OF THE WORLD

TRANSPORT

The Information Society is likely to have a profound effect on our demand for transport. The marriage of information and communications technology offers the promise of better tools for managing transport networks. We can also expect better information for transport users and a variety of value-added services for people on the move and those in the business of moving people and goods.



Better navigation and more informed travel choices using satellites, digital maps, mobile communications and telematics-based transport information services will help to secure more efficient use of congested transport networks. Better, information-rich traffic management systems will also help to increase capacity in the air, at ports and airports and by road, rail and waterway.

Bringing together information, telecommunications and transport also has a strong potential to support the objectives of sustainable mobility. Multi-modal transport services will become easier and more reliable. Combined road/rail transport across frontiers can be simplified.



The Information Society may also bring with it lifestyle changes that have significant consequences for transport. Teleworking, videoconferencing, tele-shopping, telebanking and other teleservices may all influence the demand for transport and physical mobility. The Information Society will therefore affect whether we travel to do things, as well as how and what we do.

The transport demonstrations are at three locations. Level 1 has a demonstration of vehicle navigation aids plus electronic publishing of digital road maps and travel guides. The main transport showcase is on Level 2, which shows a road traffic control centre and various traveller information systems. Outside, the exhibition shuttle bus service will show the latest information services



.for bus users. There are also vehicles available for demonstration drives around Brussels equipped with the latest navigation aids and driver information systems.



Jacques Delors, former President of the
European Commission, visits the showcase

EXHIBITS

IN-CAR NAVIGATION AND INFORMATION SYSTEMS

A car mock-up demonstrates a car navigation system, digital road maps, travel and tourist information. The maps are stored on CD-ROM and automatically scroll as the vehicle moves. The current vehicle position is obtained by GPS (global positioning satellite) receiver and is shown on the map.

SONY, ETAK, MICHELIN, ADAC, VERLAG

ADVANCED URBAN TRAFFIC CONTROL SYSTEMS

A modern traffic control centre uses IT and telecommunications to provide better control of traffic signals, rapid detection of traffic incidents, better information to drivers and improved reliability for bus services. This exhibit shows some of the systems now operational in Southampton, UK.

SIEMENS TRAFFIC CONTROLS, GEC-MARCONI TRAFFIC, PEEK TRAFFIC, ROMANSE PROJECT

DYNAMIC ROUTE GUIDANCE FOR VEHICLES

Mobile telecommunications can be used to help navigate around congestion. Moreover, the vehicle itself can serve as a traffic pulse, collecting data on traffic conditions as it goes. The SOCRATES system does this using the GSM digital mobile telephone network which operates across Europe (GSM stands for Global System for Mobile Communications). This exhibit shows the SOCRATES information centre. Three

SOCRATES vehicles will be available for test drives outside the exhibition (see external exhibits described below).

IAN CATLING CONSULTANCY, PHILIPS, HOEUSCH BUOESFELDT, DETEMOBIL

GSM-BASED MOBILE SERVICES

Every road user will be able to tail his or her GSM terminal to their individual needs, such as for emergency and breakdown services, vehicle theft protection, making parking reservations during the journey, and route guidance.

DETEMOBIL, MANNESMAN

MOTORWAY TRAFFIC INFORMATION

Drivers can now have up-to-the-minute information about traffic speeds on motorways. Speed detectors placed on bridges over motorways radio back current traffic speeds to the control centre, which broadcasts them to subscribers. Users see a map of the motorways showing where traffic is slow-moving, either on the Trafficmaster portable unit or on a PC.

TRAFFICMASTER



A special CD-ROM 'Smart Mobility' was produced for the conference by ASEA (Association of European Car Manufacturers)

SMART MOBILITY

The theme of transport telematics is explored in depth in this interactive CD-ROM. If

you would like a complimentary copy of the CD-ROM, please ask at the press information desk.

EUROPEAN ASSOCIATION OF AUTOMOBILE MANUFACTURERS (ACEA) WITH ASSISTANCE FROM ROBERT BOSCH



Russell Shields of Navigation Technologies with James Rosenstein of ASEA at the 'Smart Mobility' exhibit

ELECTRONIC TRAVEL GUIDES

The electronic travel guide operates on a variety of computers that support Windows. It can be used to find out about the latest traffic problems, to plan a route, or to find out about the next two buses at the local stop. Variants include kiosk, desktop notebook and soon, hand-held models. It receives information in real-time on traffic conditions and transit schedules via various radio-based communications systems.

MINISTRY OF TRANSPORTATION OF ONTARIO, IBI GROUP TELERIDE, NAVIGATION TECHNOLOGIES



Hampshire County Council showed their TRIPlanner kiosk



STOPWATCH bus tracking system for keeping the bus on time

ADVANCED PUBLIC TRANSPORT SYSTEMS

This exhibit shows how vehicle positioning systems and mobile radio communications on buses can provide information to traffic controllers on bus locations and whether they are on time or ahead of or behind schedule.

SOCIETE DES TRANSPORTS INTERCOMMUNAUX DE BRUXELLES (STIB), CENTRE D'INFORMATIQUE POUR LA REGION BRUXELLOISE

NAVIGATION AND LANGUAGE-INDEPENDENT TRAFFIC MESSAGES

This exhibit shows a navigation systems that offers visual and voice route guidance plus the radio data system traffic message channel (RDS/TMC).

BOSCH/BLAUPUNKT-WERKE, TELEATLAS



Gabriel Hete from Ontario, Canada demonstrates a prototype electronic travel guide

EXTERNAL EXHIBITS



The shuttle bus to the hotels had a tracking system to follow its location

SUPER SHUTTLE BUS

The buses operating the regular shuttle service between the exhibition and G-7 conference will demonstrate the latest traveller information systems: an electronic bus stop display showing current waiting time to next bus, and an on-vehicle electronic message board for next stop and destination announcements.

SOCIETE DES TRANSPORTS INTERCOMMUNAUX DE BRUXELLES (STIB), CENTRE D'INFORMATIQUE POUR LA REGION BRUXELLOISE



In-car navigation and real time traffic information were demonstrated on a test run around the streets of Brussels

INTELLIGENT CARS

Cars will increasingly become more intelligent as a greater number of features are built in to ease the driving task. Visitors will be able to book for demonstration rides in vehicles fitted with route guidance and RDS-TMC receivers (radio data system/traffic message channel).

EUROPEAN SOCIETY OF AUTOMOBILE MANUFACTURERS (ACEA), IAN CATLING CONSULTANCY, CITIES PROJECT, BRUSSELS REGION CENTRE FOR TRANSPORT INFOMATICS, RTBF RADIO-TELEVISION BELGE DE LA COMMUNAUTE FRANCAISE, EUROPEAN GEOGRAPHICAL TECHNOLOGIES, VEHICLES SUPPLIED BY VOLKSWAGEN, BMW, FORD EUROPE, GENERAL MOTORS, PEUGEOT-CITROEN, RENAULT AND VOLVO.



Neil Kinnock (then European Commissioner for Transport) visits the Showcase