ITS Action Plan

core areas of actions
& the use of instruments

Open Workshop
Brussels, 26th March 2008

Introduction – Objectives of the ITS Action Plan

- **Potential of ITS**

  - **As support to *transport policy*: efficiency, capacity, safety, co-modality**

  - **As a vehicle for *ICT and industry policies***

  - **To contribute to *environmental policy* targets**

- **Deployment to be accelerated & synchronised**

Introduction – Approach of the ITS Action Plan

- **Acknowledge dynamics of Industry**

- **Select core ITS systems and applications**

  - **EU added value**

  - **Maturity**

  - **Catalysers and synergistic effects**

Introduction – Structure of the ITS Action Plan

- **Actions focusing on**
  - **Greening**
  - **Road safety and security**
  - **Mobility**

- **Supporting measures, focusing on**
  - **Synergies from combined approach**
  - **Data: access, protection**
  - **Role of public authorities and co-ordination**
  - **Making the case for ITS**

Introduction – Objectives of the Workshop

- **Priorities**

- **Instruments**
  - **Funding**
  - **Standardisation**
  - **Legislation**
  - **« Soft measures »**

outline

1. Introduction

2. Potential actions:

    •   ('*thematic*') Core areas of action

    •   Horizontal areas of action and enablers

    Incl. discussion on the use of the instruments

Outline – potential actions

Core areas of action:

– *Theme 1: « greener transport » decreasing congestion and reducing energy consumption*

- Target 1: optimised use of infrastructure & interaction of modes
- Target 2: less congestion on EU freight corridors & in cities
- Target 3: enhancing modal shift

– *Theme 2: improving road safety & security*

- Target 4: improve safety/ security of commercial transport operations
- Target 5: improve road safety

– *Theme 3: improving mobility for the citizen & transport logistics*

- Target 6: providing more reliable RTTI in a safe way
- Target 7: improving the efficiency of logistics chains

Outline – potential actions (2)

'Horizontal' areas of action and enablers:

1. Exploitation of synergies/ combining applications & services in the area of commercial and private transport

2. Framework for optimised use of latest road data, access to data & provision of traffic information

3. Data security, protection of individual's data and liability

4. Strengthening public authorities' capability in ITS

5. Framework for programme concertation and co-ordination

6. Demonstrating the case for ITS

outline

1. Introduction

2. Potential actions:

   - **Core areas of action**

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   Incl. discussion on the use of the instruments

core areas/ 1. optimised use of infrastructure/
better traffic management & interaction of modes

Policy objective: **reduce congestion on freight corridors and in cities;**
more effective traffic management & promotion of modal interchanges

- Network monitoring, traffic status, travel times, incident notification
- Traffic management systems
- Real time multi-modal travel advice, facilitation of on-route switch to other modes

Actions:

- Framework for cross-border/ cross-operator co-operation on monitoring & data
- Fin. support for cross-border traffic management & RTTI (focus: freight corridors)
- Fin. support for harmonised deployment of ITS: best practice guidelines, standard contracts, independent evaluation
- Support to development & acceptance of functional specifications for co-operative V2V and V2I protocols, interfaces, systems & comm. Architecture
- Support a common vision on & co-ordinated deployment of co-operative systems

core areas/ 2. Reduce congestion freight corridors/ in cities

-developing European solutions for flexible demand management

Policy objective: powerful ITS tools to steer traffic demand and/or to reduce pollution on congested routes & cities using demand management

- Use of space, time and vehicle performance based demand management
- Extended traffic monitoring & management, traveller information facilities

Actions:

- Finalise the definition of the European Electronic Toll service
  - Including cross-border enforcement of non-payment
  - Internalisation of external costs – flexible demand management systems
- Satellite based standardisation (Galileo)
- Extension of Euro-vignette provisions& regulation
- Framework for urban transport payment options

core areas/ 3. Enhancing the use of environmentally friendly & energy efficient transport solutions

Policy objective: **shift traffic demand by providing powerful pre-trip journey/ travel planning tools & by mechanisms improving energy efficiency of the transport system**

- Traffic congestion on the road network is increasing
- Travellers not aware of alternatives; shift to other modes not well facilitated

*Actions***:**

- Functional specifications for traffic control & information applications
- Support 'national' multi-modal journey planners; facilitate access to data
- Framework for interlinking & facilitating access –across borders & modes
- Best practice guidelines (EU toolbox?) for urban mobility ITS applications
- Organise cost-effectiveness impact assessment of ITS against 'greener transport' goals
- Support development of adequate co-operative systems/ on-board processing of latest information across modes

core areas/ 4. improve safety/ security of commercial transport operations – 'social' regulations, dangerous goods...

Policy objective: improve safety & security by load tracking, remote monitoring, comply with drivers' regulations, active safety systems

- Safety & security issues related to commercial transport
- Facilitate navigation& access, provide secure rest facilities
- Organise safe transport of hazardous goods

Actions:

- Legislation to improve safety & security of operations (incl. Control & enforcement)
- New generation of digital tachographs (using satellite location techniques)
- EU standards for load tracking & tracing
- Develop information and reservation (secure parking) systems
- Security aspects for public transport operations

core areas/ 5. improve road safety

Policy objective: **make better use of newest active safety systems both in vehicles & for road users; improve HMI, study potential of co-operative systems**

- Development & acceptance of Advanced Driver Assistance Systems
- Develop & promote safety & security related systems (Incl. 'retrofitting ')
- Framework for inclusion of latest road data & circulation plans

Actions:

- Ensure appropriate implementation of existing Codes of Practice on HMI, investigate what might be needed more (legislation?), also regarding nomadic devices
- Co-ordinated deployment of e-Call service chain in all Member States
- Framework for collection & correct use for latest road data & circulation plans; updating of digital maps
- Support to/ organisational & regulatory arrangements for co-operative systems
- Ensure consistency of roadside & in-vehicle information & guidance

core areas/ 6. providing more reliable RTTI

Policy objective: enabling framework for reliable & accurate RTTI- including the rules of the game

- Co-existence of public and private providers of traffic information
- ensure basic services/ secure minimum service levels
- Framework for access to and provision of traffic information

Actions:

- Support development of adequate traffic & travel information services
- Prepare enabling legislation: functional requirements for data quality & databases, access to data & data exchange, co-operation among all actors
- Agreement on type of messages to be provided as public service & for free
- Support to/ organisational & regulatory arrangements for co-operative systems
- Establish requirements regarding the quality and the consistency of roadside / in-vehicle information & guidance

core areas/ 7. improving the efficiency of logistics chains

Policy objective: **enabling e-freight and develop open systems to support operations & transport - reducing ecological footprint**

- Facilitate e-freight
- Support logistic processes and optimise freight transport

Actions:

- Establish & support e-freight
- Framework for developing and promoting ITS applications supporting freight processes and freight transport
- European agreement on standards for load tracking & tracing across all modes

outline

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2. Potential actions:

   • Core areas of action

   • **Horizontal areas of action and enablers**

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Horizontal areas/ 1. Synergies by combining applications & services in the area of commercial and private transport

Central to the Commissions' environmental, safety & security targets + impact on the efficiency of logistics chains

- Transport of dangerous goods
- Tracking of live animals
- Next generation digital tachograph
- Electronic fee collection
- e-Call
- Strengthening european industry competiveness & reinforcing internal market

Horizontal areas/ 2. Framework for optimised use of latest road data, access to data and provision of traffic Info

Direct impact on traffic management, traffic and travel information, road safety and logistic targets;

= basis for many ITS applications

- Framework for defining co-operation among all actors (PA & Private)
- Access to data

- Share monitoring data/ provide regulation & circulation plans
- Use of data for safety applications
- Updating of digital maps

- Improving RTTI

Horizontal areas/ 3. Data security, protection of individual's data and liability

To address the security of data and legal aspects of ITS applications: protection of personal data, liability requirements

Crucial for the deployment & acceptance of novel (in-vehicle) applications

- Assessment of specific instruments required
- If required the implementation of specific instruments, including legislation

4. Strenghtening public authorities' capability in ITS;

5. Framework for programme concertation & coordination

Need greater involvement of Public Authorities (cities, regional, national)
Present ITS as an alternative solution

Need concertation & effective arrangements for mutual co-operation to converge policy and deployment needs

-> creation of a European ITS Committee (EIC)

- Framework to govern working methods
- Address road infrastructure requirements for ITS and co-operative systems; assist evolution of ITS roadmap deployment
- Opinions on priorities, strategic components, vision and allocation of funds
- Make proposals on how to endorse industrial, procedural agreements regarding deployment of ITS across Europe
- Take initiatives for speeding up specific standardisation, building consensus
- Assessing the evaluation of funded ITS deployment projects & make recommendations on research needs

Horizontal areas/ 6. Demonstrating the case of ITS

Need knowledge & experience about cost & benefits to support investment decisions, also by Public Authorities

Develop framework for operator plurality and service multiplicity

Develop collaborating context, increase awareness & acceptance

Typical long term project, cross-cutting for all ITS applications

- Assessment (database)
- Cost/ benefit analyses
- Lessons to be learnt from pioneers (including business failures)
- Business opportunities

- Support a general ITS deployment Road Map

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