

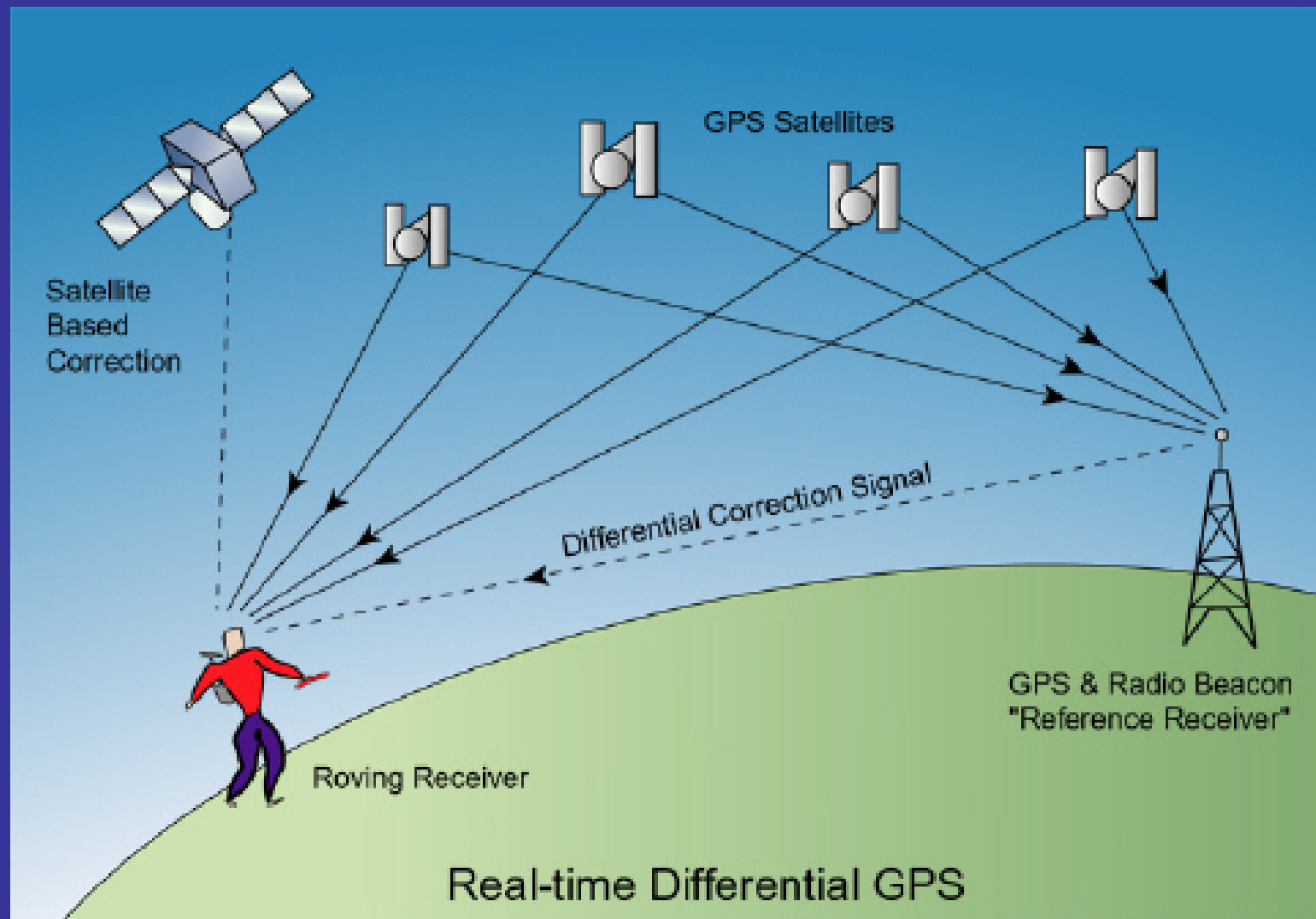


# ITS ACTION PLAN

EU Coordinated implementation  
Visnja Bedenko, City of Zagreb

# INTELLIGENT TRANSPORT SYSTEMS can contribute:

- to safer, more efficient, competitive, sustainable and secure transport
- ITS does this by applying information and communication technologies (telephone, satellite, computer, etc.) to transport



# INTELLIGENT TRANSPORT SYSTEMS

- innovation + knowledge in transportation (smart traveller, smart cargo, smart infrastructure, smart vehicle etc.)
- technological solutions to enable safer, more efficient and more environmentally friendly transport in urban areas and along national and transnational routes

# SMART TRAVELLER

- Personalized support for the informed traveller Pre-trip
- Individual for each travel route, from departure to arrival
- Multimodal
- Comfortable and accessible
- Reliable

# SMART INFRASTRUCTURE

- Vehicle-to-Infrastructure Communication
- Management approaches to enable the most efficient usage of available infrastructure capacity
- Sensor systems for operation and maintenance
- Dynamic traffic data collection and provision of information
- Scenario of future developments

# SMART VEHICLE

- Vehicle-to-Vehicle Communication
- Improvement of autonomous safety of vehicle
- Increased comfort
- Energy efficient driving
- Car sharing
- E-vehicles
- Hybrid Vehicles

# SMART CARGO

- Operation of freight traffic
- Intermodal Tracking and Tracing
- Reduction of deadhead
- Linking weather information/logistics information/ traffic information
- E-transport



# Existing frameworks for other modes of transportation:

- SESAR, a new generation of air traffic management in air transport
- River Information Services for inland waterway transport
- SafeSeaNet and Vessel Traffic Monitoring and Information Systems in shipping
- the European Rail Traffic Management System in the rail sector

# ITS IN ROAD TRANSPORT

- **USE OF ITS** in present road transport in Europe **IS UNEVEN**
- Uneven national, regional and local solutions are slowing down overall deployment and fail to provide seamless service

# ITS Action Plan targeting road transport modes

- no coherent European framework for deployment and use of ITS in **ROAD TRANSPORT**
- ITS Action Plan targets today the road sector, but also includes initiatives for interconnectivity of road transport with other transport modes

# COMMON EU STANDARDS, FOUR PRIORITY AREAS

1. Optimal use of road, traffic and travel data
2. Continuity of traffic and freight management ITS services
3. ITS road safety and security applications
4. Linking the vehicle with transport infrastructure

# SIX PRIORITY ACTIONS

1. Optimize use of road and traffic data
2. Traffic and freight management
3. Road safety and security
4. Integrating ITS applications in the vehicle
5. Data protection and liability
6. European ITS co-ordination

# HOW WILL WE PROFIT?

- faster, better coordinated and harmonized use of ITS towards more efficient, cleaner and safer transport
- action taken at EU level will secure seamless deployment, and reliable exchange of information across borders

# EU Accession – Negotiation Phase

- All Croatian political options support joining the EU –, within negotiation process, Croatian legislation is being harmonized with the ***Community Acquis***
- An ITS Action Plan is mandatory for Croatia too (new member states and candidates need to implement the European Union legislation)
- Within Croatian Ministry of Sea, Transport and Infrastructure preparations are being made

# ITS in Croatia

- Intelligent Transport Systems Croatia Association ([www.its-croatia.hr](http://www.its-croatia.hr)):

- member of Network of National ITS Associations, <http://www.itsnetwork.org>
- founding member of ITS WORLD FORUM



# ITS in Croatia (2)

- Department for Intelligent Transport Systems and Logistics (*Intermodal Transport, Transport Telematics and Traffic Management*), undergraduate and master studies within **Faculty of Transport and Traffic Sciences** (<http://www.fpz.hr>) in Zagreb

# ITS in Croatia (3)

- *Directorate for Electronic Communications and Postal Service* within **Ministry of Sea, Transport and Infrastructure**

<http://www.mmpi.hr>

# BASIC TRAFFIC INFRASTRUCTURE

- Croatia's motorway infrastructure puts it among top European countries. Applied ITS technology influenced growth of entrepreneurship in research, design, production and maintenance of systems on motorways and in tunnels



# IN URBAN AREAS



## CiViTAS

Cleaner and better transport in cities

## Z A G R E B

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# CIVITAS ELAN 2008-2012

- **Measure 2.6-ZAG** Promotion of Electronic PT Ticketing  
Introducing an electronic ticketing system as a step towards an unified tariff system for all PT providers
- **Measure 3.2-ZAG** Study on Congestion Charging and Dialogue on Pricing  
Exploring results of possible introduction of congestion charging within historic core vs managing influx of vehicles by means of parking regulation
- **Measure 8.2-ZAG** Public Transport Priority and Traveller Information  
Creation of a simulation model, exploring increase of speed of public transportation vehicles by granting them priority on “intelligent crossings”

# CIVITAS ELAN

## 2.6-ZAG Electronic Ticketing in PT



# CIVITAS ELAN

## 3.2-ZAG Study on Congestion Charging and Dialogue on Pricing



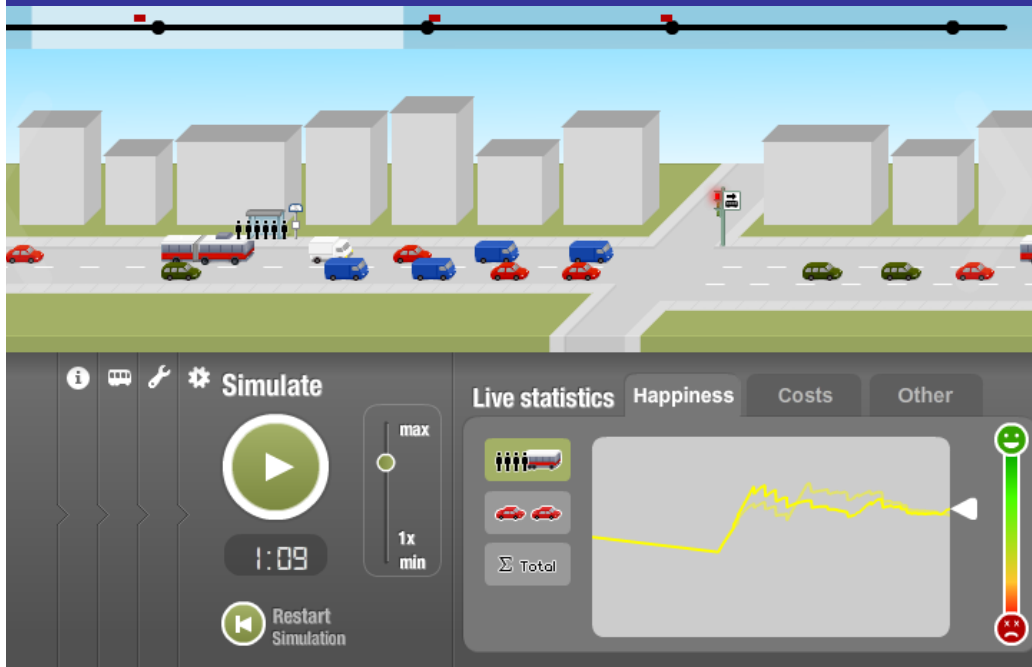
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# CIVITAS ELAN - 8.2-ZAG PT

## Priority and Traveller Information



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[www.zagreb.hr](http://www.zagreb.hr)

<http://civitas-elan.zagreb.hr>

<http://www.civitas-initiative.org>