



Report on ITS in partner Cities

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Cities considered

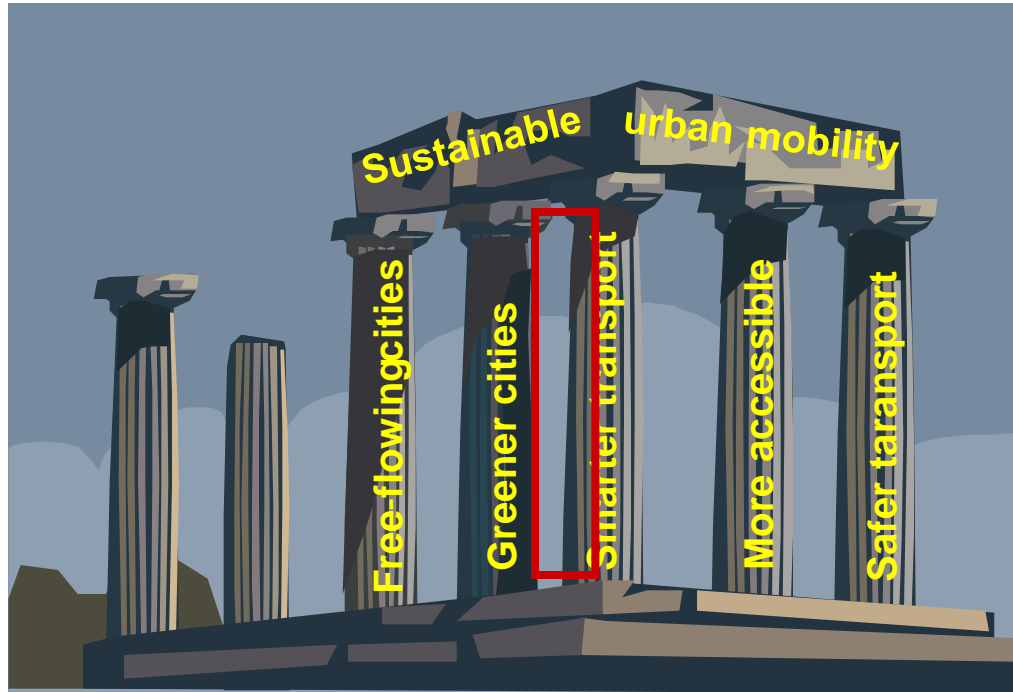
→ **City long term Mobility Plans:**

GLOBAL CITIES	REGIONAL NODES
London	Turin
Paris	Munich
Rome	Edinburgh
Barcelona	
Brussels	
Tel Aviv	
Istanbul	

→ **Very inhomogenous sources documents**

→ **Classification/comparisons**

Green Paper on urban mobility



Smarter Transport: ITS tools to support the achievements of the 4 policy pillars

The SUMP

- **The green paper challenges/objectives generate the EC Action Plan (A.P) on Urban Mobility**
- **The A.P. is the roadmap listing urban mobility actions to be implemented between 2009 and 2012**
- **First action: promotion of Sustainable Urban Mobility Plans**

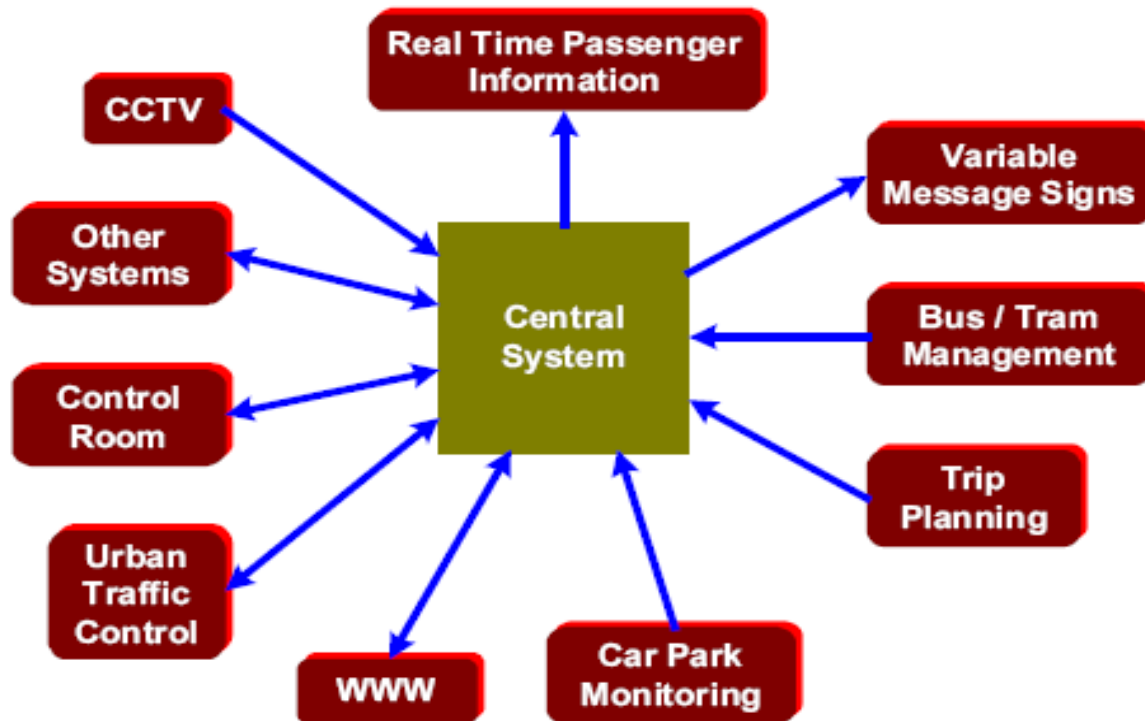
SUMP's main features

Objective	Approach	Framework Conditions
<p>Ensure that transport systems meet society's economic, social and environmental needs whilst minimising their undesirable impacts on the economy, society and the environment.</p>	<ul style="list-style-type: none">• Participatory• Integrated• Measurable• Cooperative• Inclusive	<ul style="list-style-type: none">• Establishing a policy framework on spatial development on a long-term basis• Establishing a sustainable national transport strategy• Balancing decentralisation of powers and responsibilities for transport with the level of implementation• Securing consistency in policy direction at all implementation stages• Gaining public and private acceptance of policy

Cities (10) Mobility plans

Features	From plans
• committed to sustainability;	+++
• integrative: multimodal, passenger and freight, other sectorial policies;	++
• it should consider social inclusion and gender equity;	+/-
• committed to achieving measurable targets;	+/-
• consider monitoring and evaluation activities to provide input to an innovative policy process;	-
• give a help for rationalising policy development and implementation.	+

The basic urban ITS



Conceptual model implemented in most cities

Pillars and ITS

PILLARS	ITS APPLICATIONS
MORE FLUID	<ul style="list-style-type: none">•Urban Traffic Control•PT Priority•Fleet Tracking•Service Regularity•Loading Bay Monitoring•Taxi Monitoring•Parking Guidance•Parking Availability•Traffic Guidance

Pillars and ITS

PILLARS	ITS APPLICATIONS
SAFER	<ul style="list-style-type: none">•PT Video-surveillance•Speed Alert•Pedestrian Management•Incident Management

Pillars and ITS

PILLARS	ITS APPLICATIONS
GREENER	<ul style="list-style-type: none">• Access Restrictions• Park-and-Ride• Bike-and-Ride• Car Sharing• Bike Sharing• Car Pooling• Freight Delivery Access/Time Slot Monitoring• Other Traffic Management Systems










































Pillars and ITS

PILLARS	ITS APPLICATIONS
MORE ACCESSIBLE	<ul style="list-style-type: none">•PT Passengers Information on-ground•Pre-trip Information by Fixed devices•PT Passengers Information on-board•Pre-trip Information by mobile devices•On-trip Information by VMS•On-trip Information by portable devices•On-trip Personalised Information•Parking Booking•PT Ticketing•Parking Payments•Alternative Services Payments•Services for disadvantaged people

ITS and cities (10)

- **Survey of applications in place**
- **Their classification to Pillars**
- **ITS Plan: not available (almost)**
- **Survey of the existing/planned development projects (short term)**
- **Their classification to pillars**

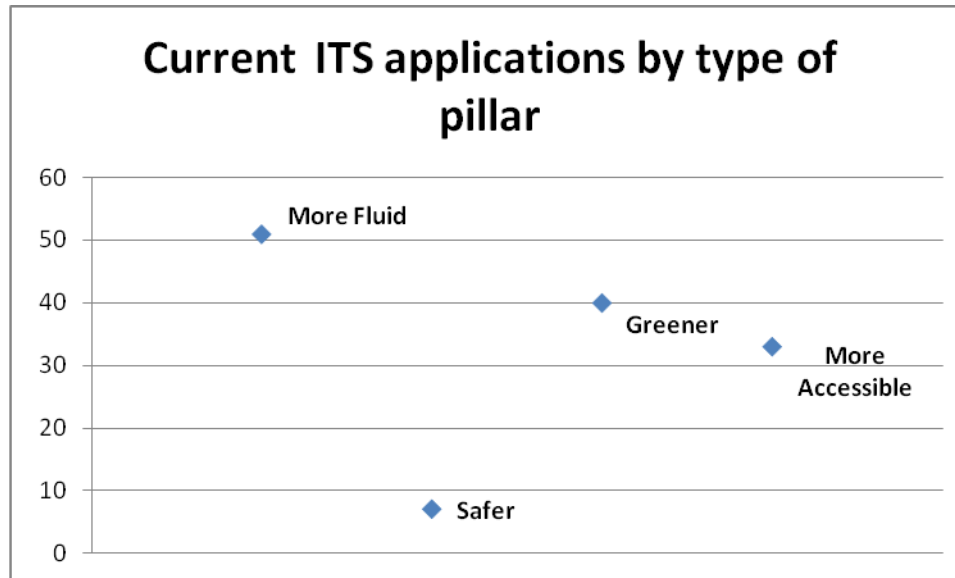
Status of current and foreseen ITS

ITS applications already in place 											
ITS applications foreseen in the near future 		Barc.	Brus.	Edin.	Istan.	Lon.	Mun.	Paris	Rome	Tel Aviv	Turin
MORE FLUID	Urban Traffic Control	 					 	 	 	 	
	PT Priority						 	 		 	
	Fleet Tracking										
	Service Regularity										
	Loading Bay Monitoring										
	Taxi Monitoring										
	Parking Guidance		 					 		 	
	Parking Availability									 	
	Traffic Guidance								 		

. Status of current and foreseen ITS

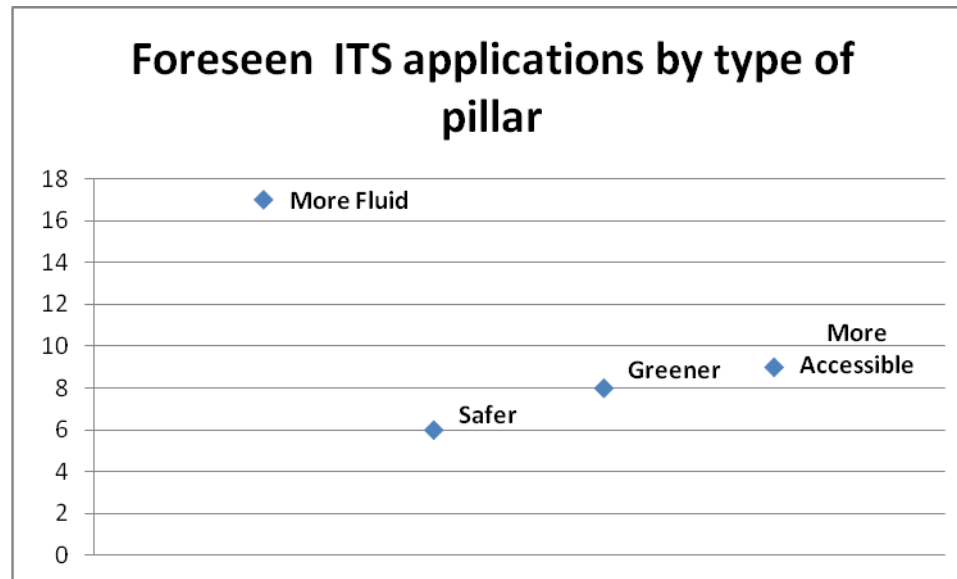
ITS applications already in place												
ITS applications foreseen in the near future		Bar.	Brus.	Edin.	Istan.	Lon.	Mun.	Paris	Rome	Tel Aviv	Turin	
MORE ACCESSIBLE	PT Passengers Information on-ground	●	●	●		●	●■	●	●	●■	●	
	Pre-trip Information by Fixed devices	●										
	PT Passengers Information on-board	●	●			●	●■	●	●		●	
	Pre-trip Information by mobile devices	■	●	●		●	●■	●■	●	●■	●	
	On-trip Information by VMS	●	●	●			●■	●	●	●■	●	
	On-trip Information by portable devices	●	●				■	■	●■	●	●	
	On-trip Personalised Information						■		■			
	Parking Booking	■	●						■		●■	
	PT Ticketing	■	●	●	■	●	●	●■	●	●■	●	
	Parking Payments		●	●	●				●	●		
	Alternative Services Payments										■	
	Services for disadvantaged people			●	●	●	●					●

Current ITS frequency of occurrence



- ITS applications are more frequently dealing with traffic flows at purpose are :
- Urban traffic control systems (CCTV control and counting cameras, real-time databases, etc) and Public Transport prioritization, parking and traffic guidance (More Fluid)
- Access restriction, car sharing, urban freight delivering (Greener)
- Pre-and on trip information services and traffic guidance (More accessible)

Foreseen ITS frequency of occurrence



- To ensure more fluidity to the traffic is still the more promising field of ITS applications.
- Compared to the current picture of ITS implementation, in the future scenario of urban ITS applications there is a major focus on measures addressing safety.

Future ITS in cities

- Future ITS applications move towards the **enhancement** of the current Urban Traffic Control systems and Public Transport prioritization technologies, allowing to cover broader urban areas and more complex Public Transport networks.
- The emergent applications will concern parking guidance and parking availability, to be managed by **mobile phones**.
- The future ITS applications making **safer** urban transport system will focus on dynamic systems for incident management and automatic incident detection tools in tunnels and hot spots.
- A **growing use of information and communications technologies**, e.g. GPS devices delivering on-board information, mobile phones, SMS, smart cards and pay-as-you-ride systems will improve parking management policies, travelers information and transport safety.