OVERVIEW

Increased urban traffic in European cities has resulted in chronic congestion, causing delays and pollution: every year, nearly 100 billion Euros are lost, which represent 1% of the EU’s GDP. Furthermore, urban traffic is responsible for 40% of CO2 emissions and 70% of emissions of other pollutants arising from road transport. There is currently a real need for cities to come up with strategies to improve urban mobility and reduce energy consumption caused by transport. The In-Time project aims to address these challenges, focusing on the delivery of multimodal Real Time Traffic and Travel Information (RTTI) services for drivers and travellers in European cities to drastically reduce energy consumption in urban transport.

OBJECTIVES

In-Time RTTI services will finally result in:

- **Less pollution** (including CO2 and particle emissions and noise)
- **Less traffic congestion**
- **Less energy consumption**
- **Responsive and adaptive traffic management**
- **Shift from individual to public transport**
SERVICES

In-Time will develop both business-to-business (B2B) and business-to-consumer (B2C) services. B2B services will enable European-wide Traffic Information Service Providers (TISPs) to get access to regional traffic and travel data, and services of the single pilot cities via a harmonised standardised open interface. This will enable TISPs to provide interoperable and multimodal on-trip RTTI services (e-services) to the community of users of mobile devices or navigational devices. E-services will influence the on-trip travel behaviour by optimising journeys taking the energy consumption into account. Web based pre-trip information will be provided by the local site operators and has the potential to influence the travel behaviour in the trip planning stage by taking environmental aspects into account. The typical users are citizens planning an urban trip in the short term.

Facilities will be provided for:

- **Pre-Trip Info**: planning a journey beforehand having at disposal complete travel information (public and individual traffic) combined and interpreted at one location.

- **On-Trip Info**: real-time multimodal traffic and travel information at user’s fingertips, delivered, via a navigational device or a smart phone, by an established European TISP to let travellers avoid congestion and bottlenecks, by selecting alternative routes and/or alternative transport modes.

- **Traffic Management/Operation**: a drastic reduction of energy consumption can be achieved by optimising traffic control (Eco-flow), enhancing product life-cycles, and reducing power consumption by using LED technologies.

Central part of the In-Time concept are the interoperable and multimodal Regional Data/Service Server (RDSS) and the In-Time B2B Commonly Agreed Interface (CAI). Both can be seen as a service-oriented middleware infrastructure providing standardised B2B interface and a number of data/services, covering: individual traffic, public transport, weather, location based services and intermodal transport planning.

PILOTS

The In-Time solution will be set up at 6 European pilot sites (Vienna, Brno, Bucharest, Oslo, Munich, and Florence) to ensure easy access of real-time multimodal traffic data by external TISPs.

All pilot cities have agreed to set up the RDSS and the In-Time CAI for the distribution of interoperable intermodal real-time Traffic and Travel Data to a European TISP. This ensures that the European TISP will be able to offer the same intermodal service within all pilot cities with a total amount of more than 8.6 million inhabitants. All In-Time services will be tested in real life for at least one year.