IN-TIME

Intelligent and Efficient Travel Management for European Cities

European Commission
Information Society and Media

In-Time is a Pilot project that aims at drastic reductions in energy consumption in urban areas´ transport through the mobility behaviour of the single traveller by providing multimodal Real-time Traffic and Travel Information. The In-Time system will be piloted in the cities of Brno (CZ), Bucharest (RO), Florence (IT), Munich (DE), Oslo (NO),and Vienna (AT).

At a Glance

Project
In-Time – Intelligent and Efficient Travel Management for European Cities

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Start date
1st of April 2009

Duration
3 years

Total cost
€4.580k

Programme
ICT for adaptive urban transport management infrastructure and services

Project Website
www.in-time-project.eu

Objective

In-Time focuses on Multimodal Real Time Traffic and Travel Information (RTTI) services with the goal to reduce drastically energy consumption in urban areas across the different modes of transport by changing the mobility behaviour (modal shift) of the single traveller.

Services

This will be achieved by the deployment of following In-Time core services:

- **Business-to-business 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 the TISP

- to provide interoperable and multimodal RTTI services (**e-services**) to their end-users. E-services will influence the on-trip travel behaviour by optimising journeys taking the energy consumption into account. The community will be the users of mobile devices or navigational devices.

- **Web based interoperable and intermodal pre-trip information** will be provided by the pilot 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 persons that are planning an urban trip on short term.

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Technical Concept

Central part of the In-Time concept is an interoperable and multimodal Regional Data/Service Server (RDSS), which is a service-oriented middleware infrastructure providing a number of data/services, covering

- individual traffic,
- public transport,
- weather information,
- location based services,
- intermodal transport planning,

and enabling the operation of end-user applications (e-services) through Traffic Information Service Providers (TISP).
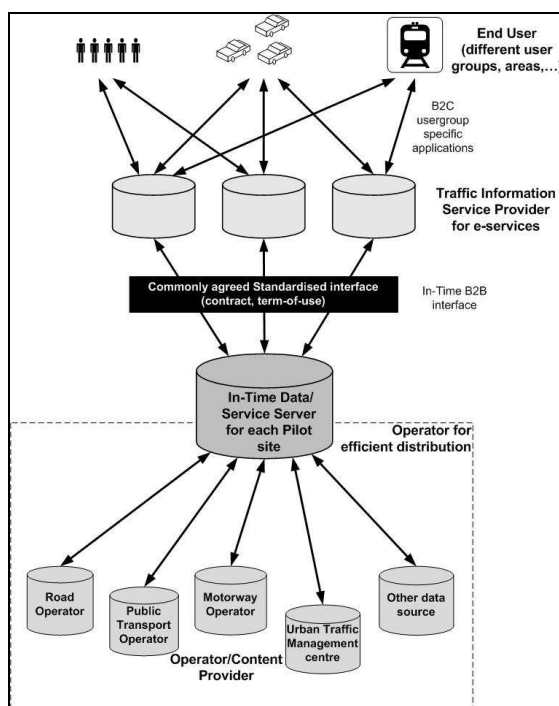
Technical concept of the In-Time Regional Data/Service Server (RDSS)

In this way all data of the single infrastructure operators within one city/region can be accessed via a commonly agreed standardised open interface which will be implemented at regional level. This ensures the easy access of real-time multimodal traffic data for external TISPs, and it ensures the easy access to all urban traffic related data within one region, resulting in the distribution to the end-users via several consistent information channels and in parallel enhancing user acceptance.

Implementation

The In-Time solution with the commonly agreed standardised interface will be implemented and operated at 6 European pilot sites. Via this interface interoperable In-Time

intermodal real-time Traffic and Travel Data will be provided to the European TISPs. This ensures that they will be able to offer the same intermodal end-user service within all pilot cities with a total amount of more than 8.6 million inhabitants.

Following cities will pilot the In-Time system:

- Brno
- Bucharest
- Florence
- Munich
- Oslo
- Vienna
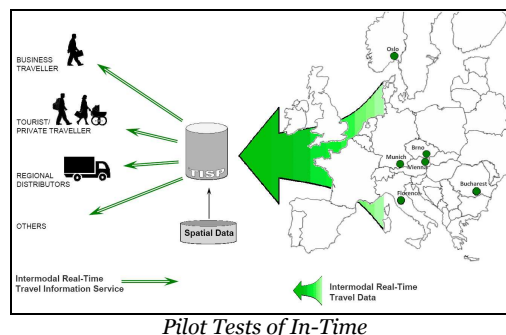
Pilot Tests of In-Time

Impact

The installed and piloted In-Time services will strongly contribute to the EU objectives of improved safety, energy efficiency, emissions reduction, comfort and sustainability of transport with a drastically energy consumption in urban transport.

An estimated energy saving impact of the measures proposed is:

- modal shift away from individual traffic: around 3% as private users will be enabled to compare transport modes and make a choice.
- using modern traffic management equipment will achieve drastically energy consumptions through optimised traffic control (Eco-flow), enhanced product life-cycle, and reduced power consumption by using LED technologies.

For further information:

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