

Project Summary

- The aim of this project is to develop an intelligent wireless traffic service platform between cars supported with wireless transceivers beside the road(s).
- Two years project started in September 2006 and ends in December 2008

Project Goals

- Intelligent wireless traffic service platform
- Real-time local road weather and traffic data applications
- Urban transport traffic management
- Information broadcasting/sharing applications
- Fast connectivity and routing schemes for ad-hoc networking
- Hands/eyes free applications (Voice Activated) enabling the interaction with the information system
- Real time data used for route recommendation during a travel

Carlink Consortium

The Carlink consortium is composed both of academic organizations and industrial partners from Spain, Finland and Luxembourg.



Carlink is a EU Eureka-program
Celtic-cluster (call 3) project

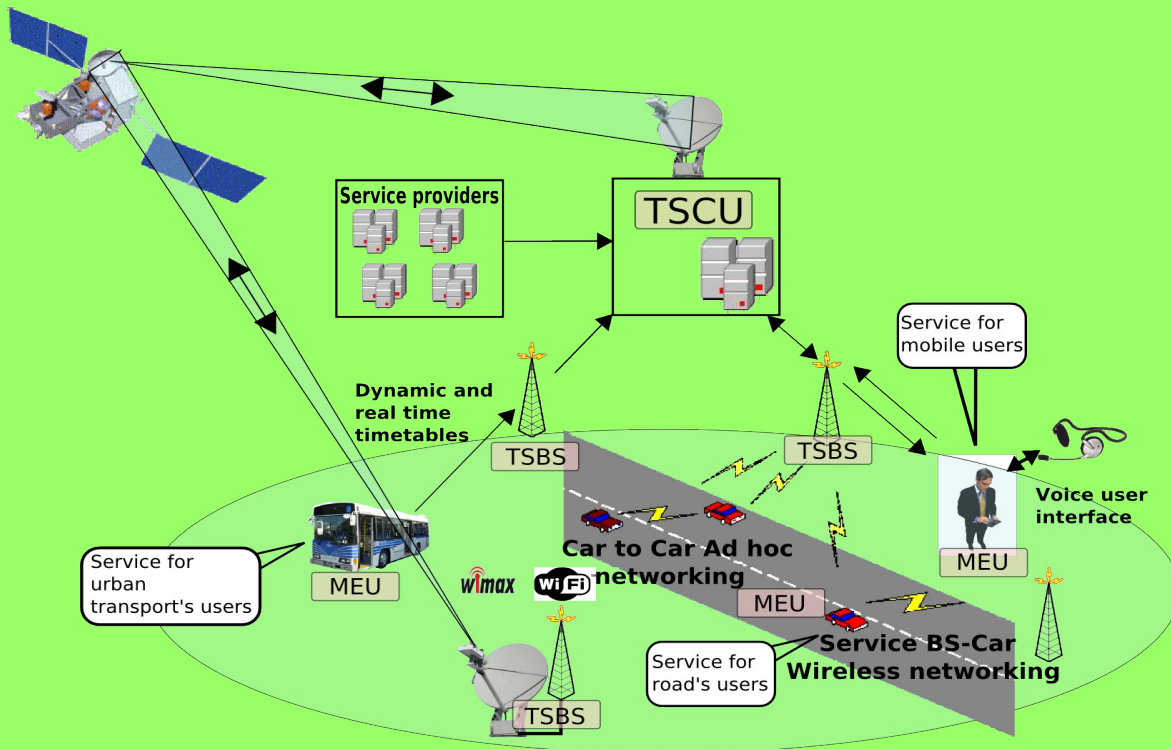


WIRELESS TRAFFIC SERVICE PLATFORM FOR LINKING CARS

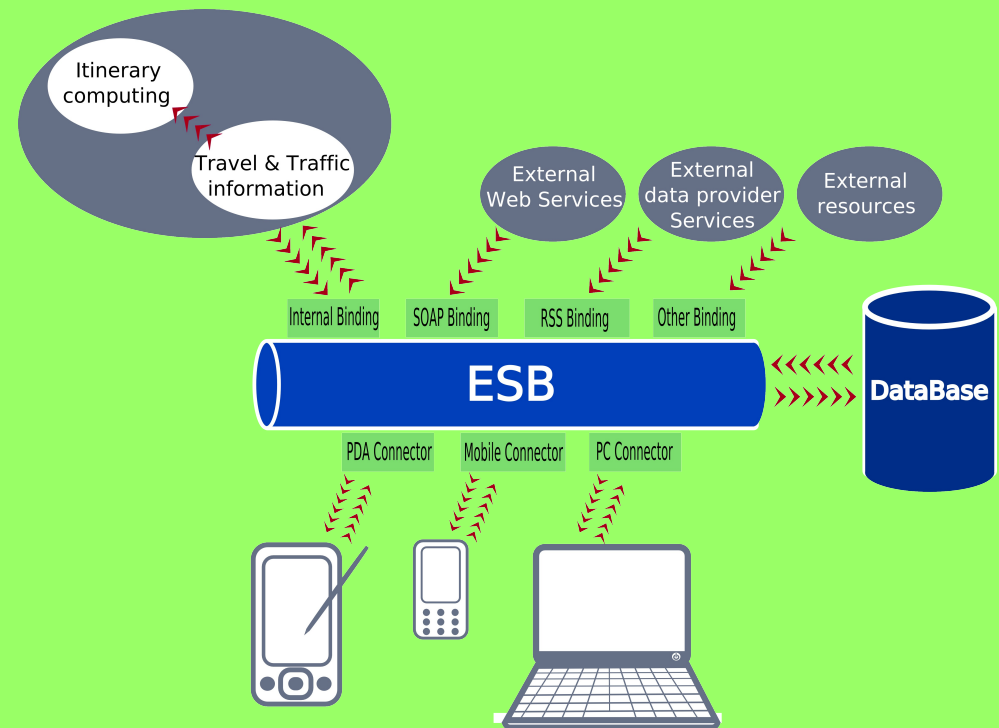
<http://carlink.lcc.uma.es>
www.celtic-initiative.org/Projects/CARLINK/

Platform Structure

- **Traffic Service Central Unit (TSCU)** act as communication centre, gathering vehicle data from base station network and GPRS-network, delivers data to service cores and delivers weather and warning data from services to vehicles
- **Traffic Service Base Station(s) (TSBS)** beside the road store the up-to-date data from central unit and deliver it to bypassing vehicles. At the same time vehicle observation data is gathered and delivered to the central unit
- **Mobile End User(s) (MEU)** in vehicles receive newest service data (e.g. local weather and warnings) when they pass by TSBS. At the same time vehicle observation data is delivered to service base station. MEUs can also forward their newest service data to encountering vehicles → base station range enhanced



Software Architecture



- **Software Oriented Architecture**
- **ESB (Enterprise Service Bus):** management of the communications and the interactions between services and information system applications
- **Services:**
 - Weather
 - Traffic
 - Transport