Towards a Future Internet Public Private Partnership
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On the Move
Ensuring Save and Seamless Connectivity

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Motivation

Challenge

The concept of Intelligent Transportation Systems (ITS) is based on the technology vision of ubiquitous information and services use through advanced communication systems. The reality has not been achieved yet.

FI Technology Push

Our proposed approach intends to push technologies towards ubiquitous ITS services. This is realized by a common effort to integrate European ITS and FI research und development achievements effectively:

- The goal is to realise the vision of ubiquitous ITS services use through FI Technologies and functionalities that will enable the seamless provision of services and content over a multitude of dynamic wireless networks and systems.

- This Approach will include the integration with existing platforms in the transport and mobility sector, in particular CALM, mobile phone platforms, as well as IMS and other mobile operator platforms.
Overall use scenario

- Seamless service provisioning based on connectivity spanning a multitude of wireless networks and systems and end user devices
- Selection of transport network which fits requirements best
- Application development based on generic FI seamless service enablers as well as transport and mobility specific seamless service enabling requirements

Use cases evolvement perspective

First Use Cases
- Transport
  - Accident Management...

Use Case Extension
- Mobility
  - Event Management...
- Health
  - Mobile Health Services...
- Energy
  - Electro Mobility Infrastructure...
Architecture and Enablers

Seamless Usage of ITS Services and Content

Core Platform
- Identity Enabler
- Context Enabler
- QoS Enabler
- Security Services Enabler
- Dependability Enabler
- Billing and Charging

Dynamic Network Controller

Transport Layer
- GSM
- 3G
- LTE
- WAVE
- WIFI
Experimentation Environment

- **Urban areas** that provide
  - Motorway networks and
  - accurate and precise real time traffic information for the whole area in order to serve personalised services

- **Different network provider** offering connectivity in the area
  - Mobile network provider
  - Public WIFI provider
  - Road infrastructure provider
  - Event management companies

- **Emergency services** using public network provider

- **Large public events** as test cases for changing on demand services

The experimentation environment may evolve towards the energy system through the integration of electro mobility use cases and towards the health sector through additional “health and mobility” use cases beyond accident management.
Application Mashup

Demand and IP application driven collaborative R&D along the ITS and mobility value chains:

**Austrian Core Partners:**
- AustriaTech - Federal Agency for Technology Measures Ltd.
- FTW Telecommunications Research Center Vienna
- University of Vienna

**Partner Types**
- Highway or Road Infrastructure operator
- System integrators for road infrastructure
- Mobile Network Operator
- Mobile phone handset manufacturers
- Mobile network equipment integrators/vendors
- Broadcaster
- Logistic/Fleet management
- User Associations
- Navigation system providers
- Research Institutions

Additional Partners are welcome. The core partners will form a European wide consortium based on several local/regional clusters along mobility and ITS value chains in different Member States.