Future Internet Public-Private Partnership

Mobile Search "Chorus+" Workshop University of GHENT, 9 June 2010

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Future Internet in ICT Programme

Holistic approach, towards a Future Internet combining very high rate mobile access, intelligent service capability, secure and trusted platforms, advanced (3D, immersive) media access and delivery, novel devices/sensors and related business processes

Next WP: 455 M€

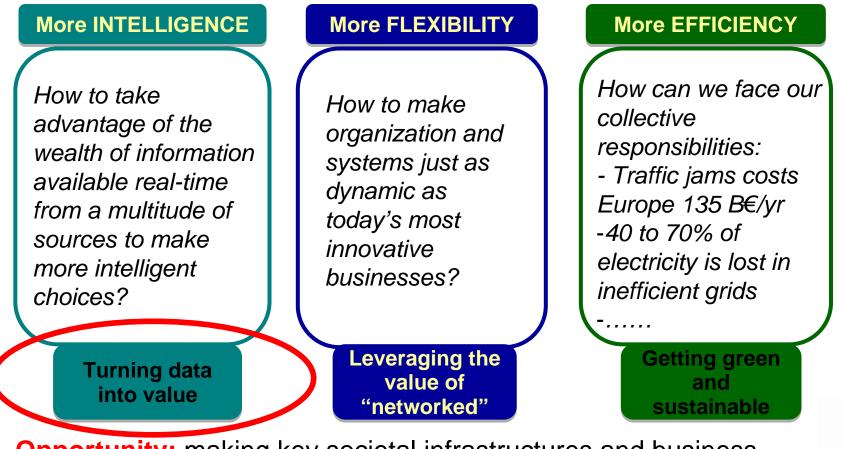
From Research and Development to Innovation:

Future Internet Public Private Partnership

Next WP: 170 M€

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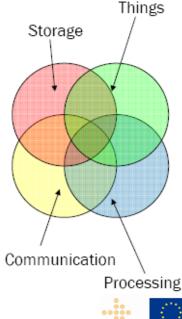
Future Internet PPP Mega Trends & Opportunities



Opportunity: making key societal infrastructures and business processes more intelligent and sustainable through tighter integration with the Internet.



- Making use of multiple technologies
- Technology push + Application pull
- Building up on multiple European R&D investments
 - Virtualisation context (Reservoir, 4WARD, IRMOS, SLA@SOI, Wisebed,...)
 - Extended Convergence
- Building up on European Infrastructures investments



Technology Foundation: FI Core Platform

- Generic, trusted, open platform
- Capabilities for:
 - upgraded network
 - sensor networks coupled to the Internet
 - versatile service infrastructure
 - information access/processing
 - real-time application
 - trust and identity
 - ad-hoc aggregation of resources
- Re-usable/composable in multiple usage contexts
- Generic enablers, key feature
- Open interfaces, API, SDK
- Multifaceted Industrial participation!!

CP Sensor Aspect

Wind

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Light

Gas

Things

Humidity

Noise

Temperature

Seismograph

 Common sensor and actuator information infrastructure across cities

provides secure and reliable access to

sensor and actuator

multiple players, and so that information can

be efficiently shared across "verticals", this

provides application enablement

Crowd, community

family

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Facilities

raffic

Utilities

information services for

- Sensor information enablement
 - aggregation and collection of data
 - directory services
 - data brokering and service composition
 - information federation

Information

- privacy and integrity protection
- access policy enforcement
- accounting and revenue,....

Service

Internet

3D Internet



- Vertical application scenarios whose efficiency, sustainability and performances can be radically enhanced through a tighter integration with Internet based advanced capabilities.
- Use cases, high social and economic impact, suggestion only
- Each use case is expected to make use of technologies and functionalities leapfrogging current internet technologies, such as:
 - context awareness and sensor networks,
 - advanced real time information processing,
 - handling huge volume of data,
 - ad-hoc service composition and mash ups,
 - managed broadband connectivity and services,
 - embedded media support for interfaces easing the interpretation of contextual data.
- Identification of generic vs. specific enablers
- → Pilots, CP functionalities validation, Phase 3 planning

An Example Mobility Use Case

Is public transportation where people are?

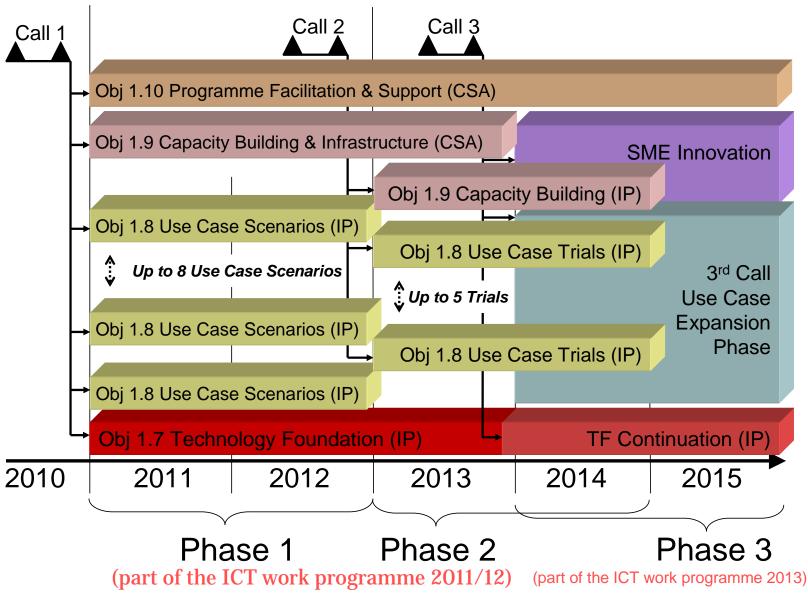


It shows the changing positions of Atac buses, indicated by yellow points, and the relative densities of mobile phone users, represented by the red areas. If a tail on a yellow point is long, that means that a bus is moving fast. Areas colored by a deeper red, have a higher density of pedestrians

Complementary Aspects

- Project line: Capacity Building and Infrastructure support
 - Preparing for the infrastructure requirements for testbeds and validation phases
 - A key aspect of the "public" part of the PPP
- Project line: Programme facilitation and support
- Openness: Standards, architectures, markets
 - Another key aspect of public implications
 - Deployability, test and validations
- SME dimension, open innovation model (Phase 3)

FI PPP Programme Structure



Based on the draft WP end April 2010, subject to final approval of the work programme

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FI-PPP, Challenges

Not Business as usual

- **Program approach**
- **Related projects**
- Leveraging previous results, innovation

Building the Right partnership

Constituency "mash up":

ICT industries, Research Centres, Usage area actors in sectors such as healthcare, mobility, environment, energy management, etc, Public stakeholders - contribution is key (openness requirements, infrastructure support, ...), End-users to be engaged in the validation phase

FI-PPP Mobile Search Relevance

- Huge amount of information from public sector "smart" applications, smart cities..
- Need To valorise these information;
- Right semantic environment: for information, for services;
- Openness and "unlimited" number of applications (app store)
- Mobility at the two end of the chain.
- Orchestrating public data for the mobile user in open environments, complex queries.

Roadmap

- ICTC Negociations
 - Core Platform constituency, competition, Openness
 - Programme level support action
 - Simplification, call opening window.
- Next WP version to ICTC: 10 June
- 2nd Usage Area Workshop, Brussels, 21-22 June 2010
- ICTC Opinion: 24 June
- FI-PPP Information Day, Brussels, 8 July
- Call 1: July, closing early December
- FIA Ghent: December 2010
- Call 2: Tentative opening June 2012, close end of October

