Intelligent Cities and the PEOPLE project

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Outline

1. Introduction on intelligent / smart cities
2. The PEOPLE project
City: Fundamental layers throughout its history
“Agglomeration” + “Regulation Institutions” in different city types
1. The contemporary urban economy and society are dependent on innovation ecosystems: knowledge driven localities, innovation clusters, global hubs, creative cities. R&D, knowledge, innovation, learning and training have become main drivers of cities’ growth and prosperity.

2. A new spatiality (digital) has been added on the physical and institutional space of cities, the urban agglomeration, city activities, infrastructures, regulation and planning.

It is composed of broadband networks, user interfaces, internet applications, and e-services.

Un umbrella of digital communication and cooperation over the cities.

Cities of 21st century: New type of urban space
Two driving forces: (1) Innovation economy + (2) Digital spatiality
Driver 1: Innovation clusters and ecosystems
Local innovation systems, tech districts, clusters, supply chains, local alliances

An interplay between individual innovation and local innovation environment takes place:

- **Innovation ecosystems** sustain innovation performance with respect to networks and interactions among companies, universities, and government.
- **Open Innovation** processes rely on external environment for R&D and innovation
- **Geographical clustering** of innovation enable tacit knowledge, trust relations and alliances
- **Living labs**, co-design, end-user involvement amplify creativities and innovations
Driver 2: Digital spatiality / intelligence over the cities

Components: Network – Data technologies – Internet applications
Intelligent city: City + innovation ecosystem + digital spatiality
A three layer system
A new family of concepts: Cyber - Digital - Intelligent – Smart cities

Differences in substance and function of layer III

Layer III. Digital space over the city

Layer II. Institutions, Planning, Governance

Layer I. Agglomeration, clusters and networks
Intelligent / smart cities: More efficient cities
Digital spaces change the economy, infrastructures, governance of cities

**Innovation Economy of Cities**
- 1- Intelligent city clusters: manufacturing, business services, health, tourism
- 2- Intelligent city districts: CBD, techno park, mall, university campus, port area, airport city
- 3- New companies creation / intelligent incubators

**City Infrastructure**
- 4- Smart transport and parking
- 5- Broadband, wi-fi urban networks
- 6- Energy saving applications / smart energy grid
- 7- Environment monitoring, real time alert and safety

**Governance**
- 8- Government services to citizens
- 9- Decision making / participation / direct democracy
- 10- Monitoring & measurement: The city a database
2. The PEOPLE project
PILOT SMART URBAN ECOSYSTEMS LEVERAGING OPEN INNOVATION FOR PROMOTING AND ENABLING E-SERVICES

PEOPLE

www.people-project.eu

Anova IT Consulting, S.L. (ES)
ARIADNA SERVICIOS INFORMATICOS SL (ES)
UNIVERSITE PARIS XII - VAL DE MARNE (FR)
CITYPASSENGER SA (FR)
ANONYMI EMPORIKA ETAIREIA SYMVOULOIEPICEIRISEON LOGOTEKH AE (EL)
MUNICIPALITY OF THERMI (EL)
ARISTOTELES PANEPISTIMIO THESSALONIKIS (EL)
UNIVERSITAET BREMEN (DE)
THE FOUR PILOTS

Vitry-sur-Seine, Paris, FR

Abando District, Bilbao, ES

Technology Park University of Bremen, GE

City of Thermi, Thessaloniki, GR
PEOPLE consist of four Pilot Smart Open Innovation Urban Ecosystems (PEOPLE Pilots) created to become seeds towards sustainable smart cities based on ICT services.

The Pilots are structured in four layers:

1. Basic layer: Hold all necessary infrastructures for running the Pilots foreseen. People will build its results onto this layer.

2. Citizens Layer: Methodology (processes, standards and indicators) for create and manage People smarts Urban Ecosystems based on a user-centric open innovation approach.

3. Services Layer: ICT Services portfolio really integrated, composed, adapted and/or deployed at each Pilot. This services answer to the actual interests and needs of the different stakeholders in the Pilot and are focused in Smart mobility and urban information management and Social integration.

4. Monitoring layer: Statistical data from each Pilot will be analysed for carrying out modelling and simulation activities in order to appraise behaviours and user patterns that will allow for the identification of new service opportunities towards the future sustainability of the Pilots and the creation of new ones. The idea is that these models are global, and the result of the joint knowledge generated during the project.
**Thermi Pilot: Intelligent district**

**Application 1:** Virtual city tours – The city as open museum

**Application 2:** The museum of science and technology

**Application 3:** Collective augmented reality

**Application 4:** Commercial center, product offers

**Application 5:** Entertainment

**Application 6:** Mobility and Parking

**Application 7:** Environmental monitoring

**Application 8:** Safety in the public space

**Eastern Thessaloniki**
- Innovation district (CERTH, Technopolis, Incubators, Museum of Science, Universities)
- Commercial district / Malls and entertainment
- Dynamic city of Thermi
- Large scale public real estate
Application 1: Virtual city tours – The city as open museum

Guided tours to the historical city center

Click on the map to go to that location.

Use the buttons on the right, or drag the panorama to explore it.
Application 2: The museum of Science and Technology
Application 3: Collective augmented reality

Tagwhat is the world's first augmented reality creation and distribution system. Share your world and augment your reality.
Application 4: Commercial center, Virtual marketplace, product offers
Application 5: **Entertainment, virtual guides, reservation**
Application 6: Mobility (public means) and Parking

Great Savings! on airport parking

Southampton Place

3 Pay and display bay
Tariff: £4.80 per hour
Max stay: 2 hours
Hours: Mon-Sat 08.30-18.30
Comments: Pay and display
Postcode: WC1A 2AJ

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- Motorcycle parking
- Car park
- Disabled parking
- Coach parking
- Electric charging point

Camden

Parking Information
Parking zone: CAM Covent Garden
This zone is in charge band A
£120 fine for most serious parking contraventions
£60 if paid within 14 days
£80 fine for less serious parking contraventions
£40 if paid within 14 days
This borough will tow away cars that have transgressed parking regulations. Tow-away charges: £200
Cars will be clamped only in extreme cases. Tow-away charge: £70

Crime Information
Wards: Camden Holborn and Covent Garden
Type of crime   Level     Incidents per month
Criminal damage to vehicle   HIGH     7
Theft from vehicle   HIGH     23
Theft of vehicle   HIGH     8
Crime data sourced from Metropolitan Police Authority
Application 7: Environmental monitoring and alert

Welcome to the London Air Quality Network

Air pollution levels recorded on Saturday 8 May 2010, 06:00-07:00 BST

Low (1-5) Moderate (4-8) High (7-9) Very High (10) No Data Closed

These are the web pages of the London Air Quality Network and contain information about air quality in and around Greater London. Measurements are collected either hourly or twice daily from continuous monitoring sites, processed and checked then placed on this website with an hourly update.

This map shows the latest pollution levels as recorded at pollution monitoring sites across Greater London. Click on a dot to find out more information about that monitoring site, or select another bulletin using the panel to the left.
Application 8: Safety in the public space

Homeland Security and Emergency Management Agency

Services
- Alert DC Emergency Notification System
- Community Emergency Management Exercises
- Emergency Center
- Training and Exercise Division
- National Incident Management System (NIMS)
- Special Event Planning
- Neighborhood Block Party Permits

Information
- DC Emergency Preparedness Council
- DC Local Emergency Planning Council
- Emergency Plans
- Preparedness Guides
- Terror Threat Advisory
- 18 Major Hazards
- Homeland Security
- Event Calendar
- Extreme Weather
- Reports
- Street Closures
- Voluntary Organizations

HSEMA NEWS

DC Homeland Security and Emergency Management Agency Conducts Community Preparedness Exercise in Spanish
The exercise gives Latino residents of the city a chance to practice their family plans. Full Text

District Provides Command Center to Haitian Embassy
The Center will enable the Haitian Embassy to more effectively operate its relief efforts. Full Text

Contribute to the Haiti Relief Effort
Learn how you can help the victims of the Haiti earthquake. Full Text

FEMA Releases the FY2010 Application Guidance for Nonprofit Security Grants
The deadline for this grant is now Monday, March 1, 2010. Full Text
8 applications sustaining an identity of the area that combines innovation and commercial activities: 

Innovation as entertainment + Impact assessment