

Intelligent Cities and the PEOPLE project

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MEDLAB Larnaca Meeting, 18-19 October 2010

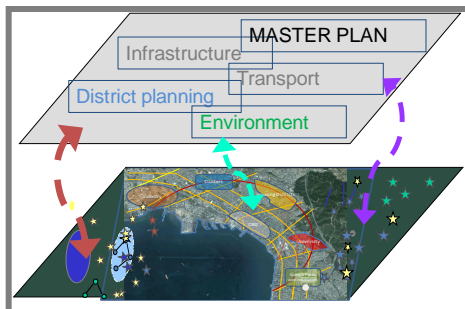
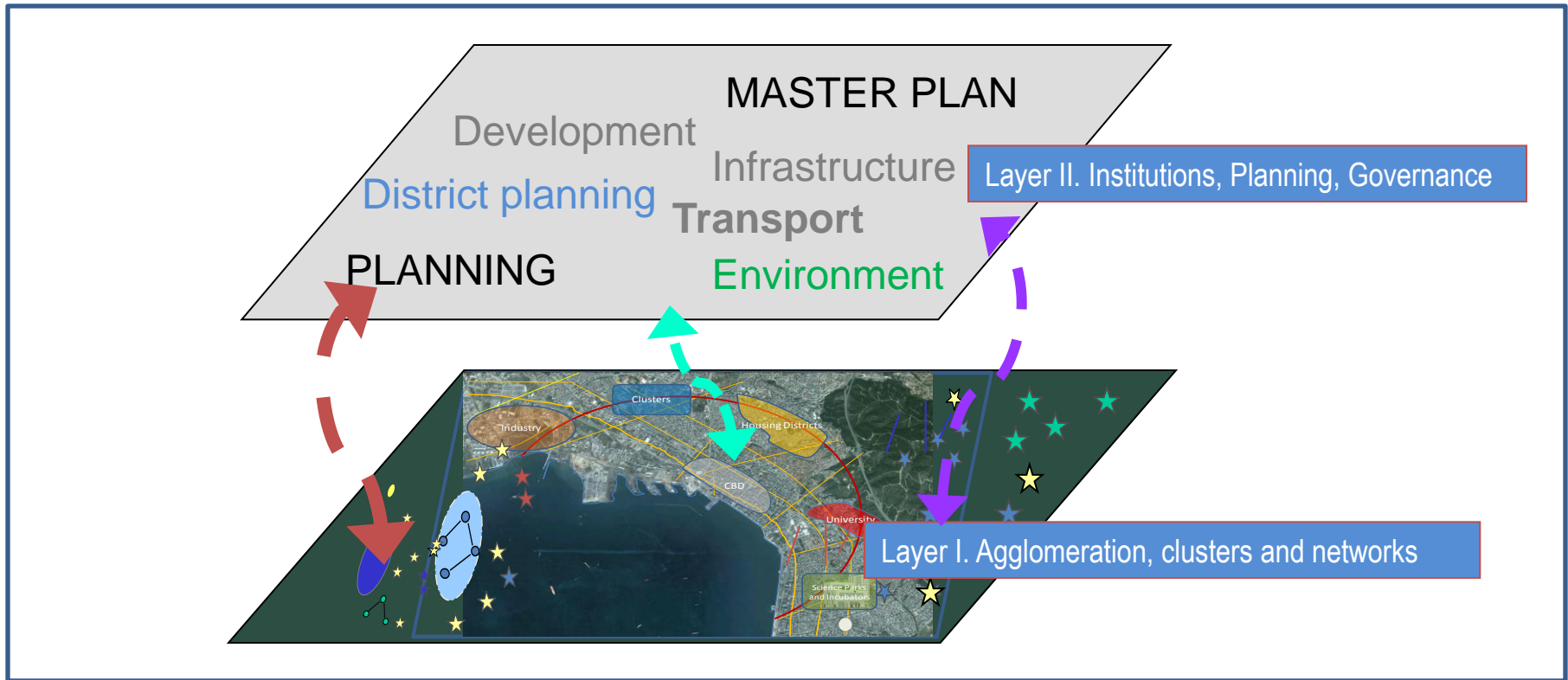
Outline

1. Introduction on intelligent / smart cities

2. The PEOPLE project

City: Fundamental layers throughout its history

“Agglomeration” + “Regulation Institutions” in different city types



INDUSTRIAL CITY



VICTORIAN CITY



FORDIST CITY



INNOVATION-LED CITY

Cities of 21st century: New type of urban space

Two driving forces: (1) Innovation economy + (2) Digital spatiality

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.

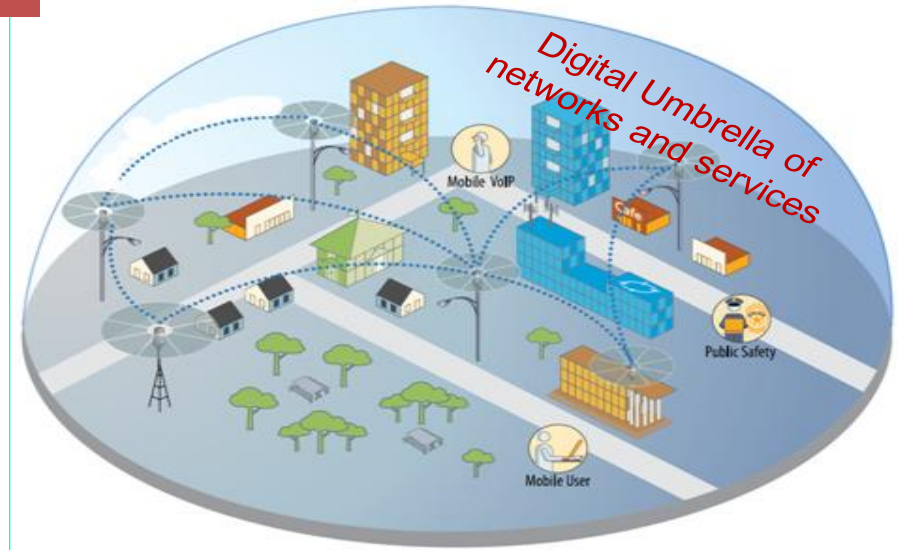
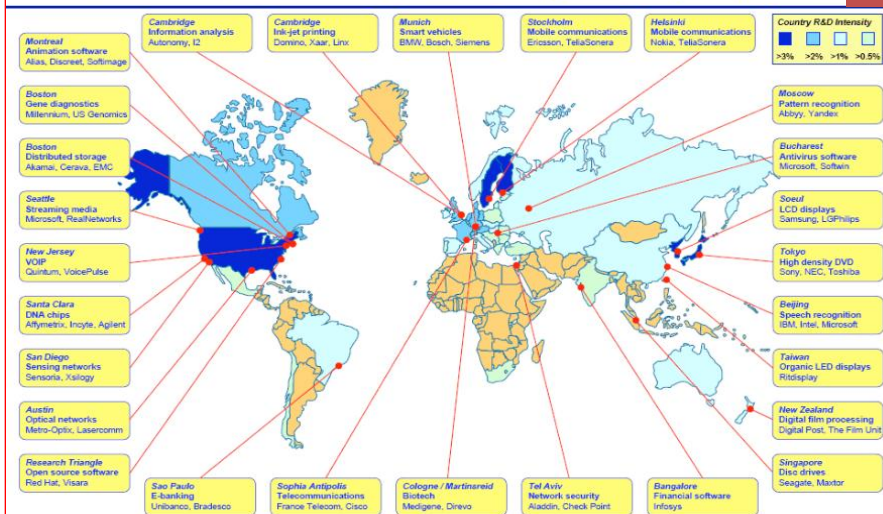
2. A **new spatiality** (digital) has been added on the physical and institutional space of cities, the urban agglomeration, city activities, infrastructures, regulation and planning.

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

Un **umbrella** of digital communication and cooperation over the cities.

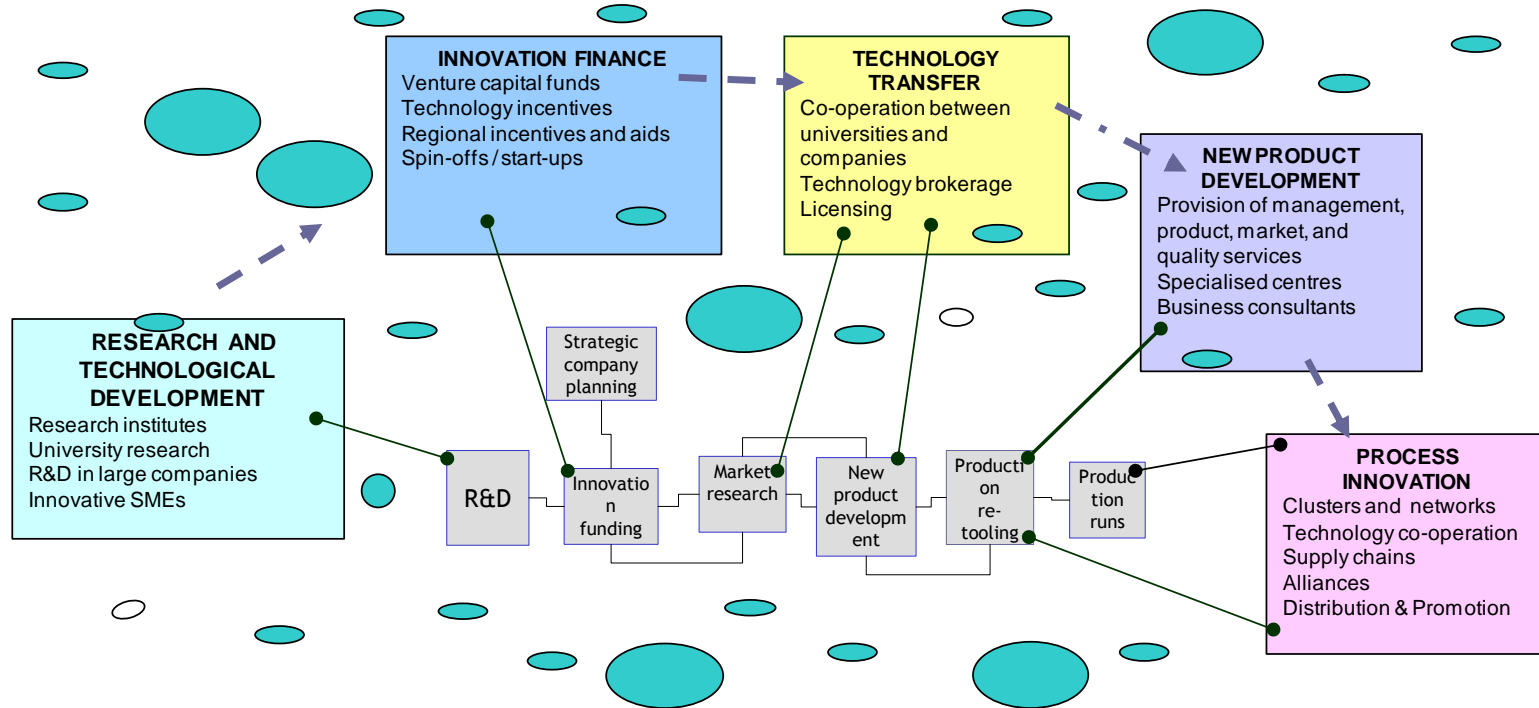
+

Global innovation clusters, core technologies and key companies



Driver 1: Innovation clusters and ecosystems

Local innovation systems, tech districts, clusters, supply chains, local alliances

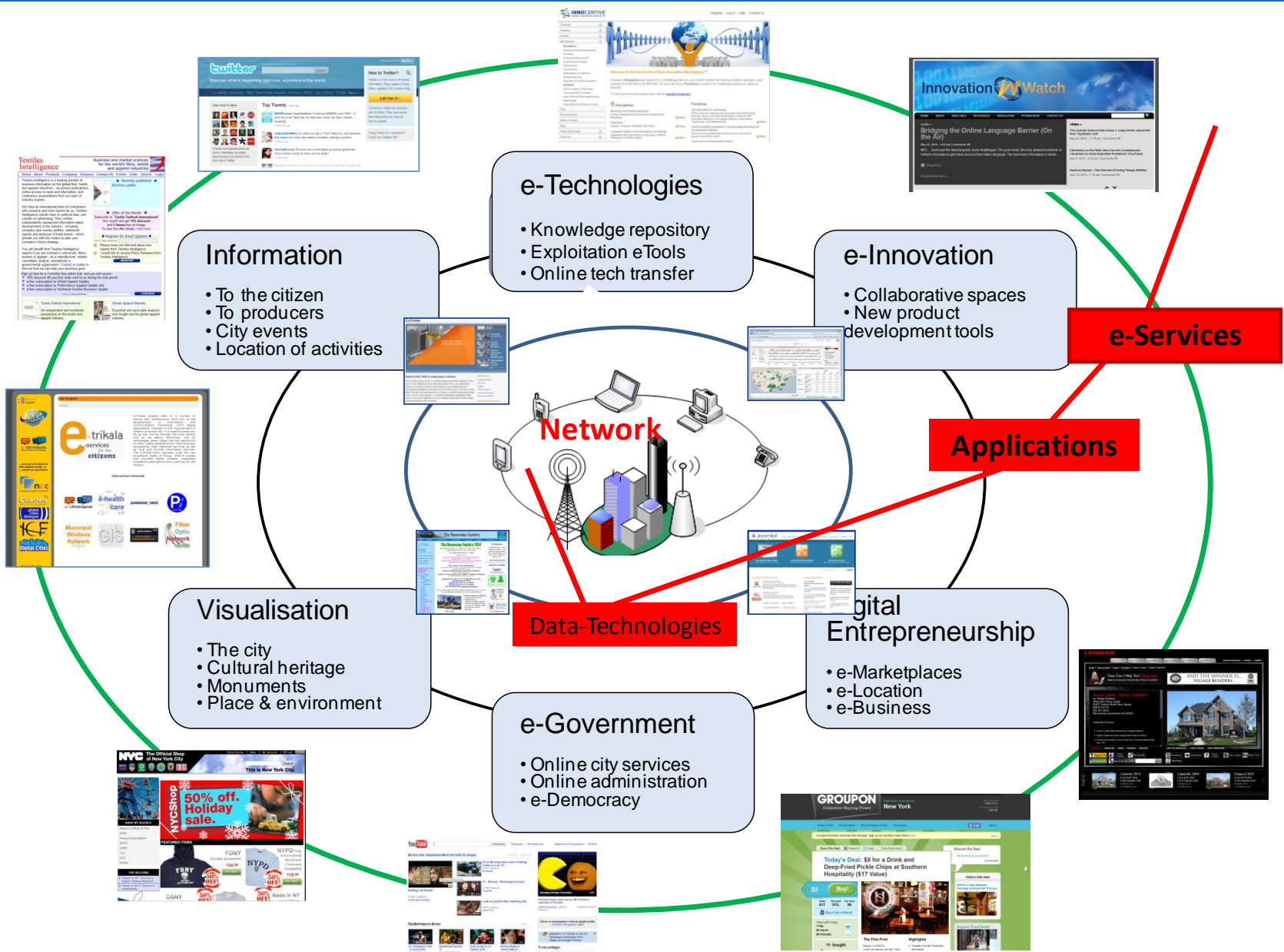


An interplay between individual innovation and local innovation environment takes place:

- 🌱 **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

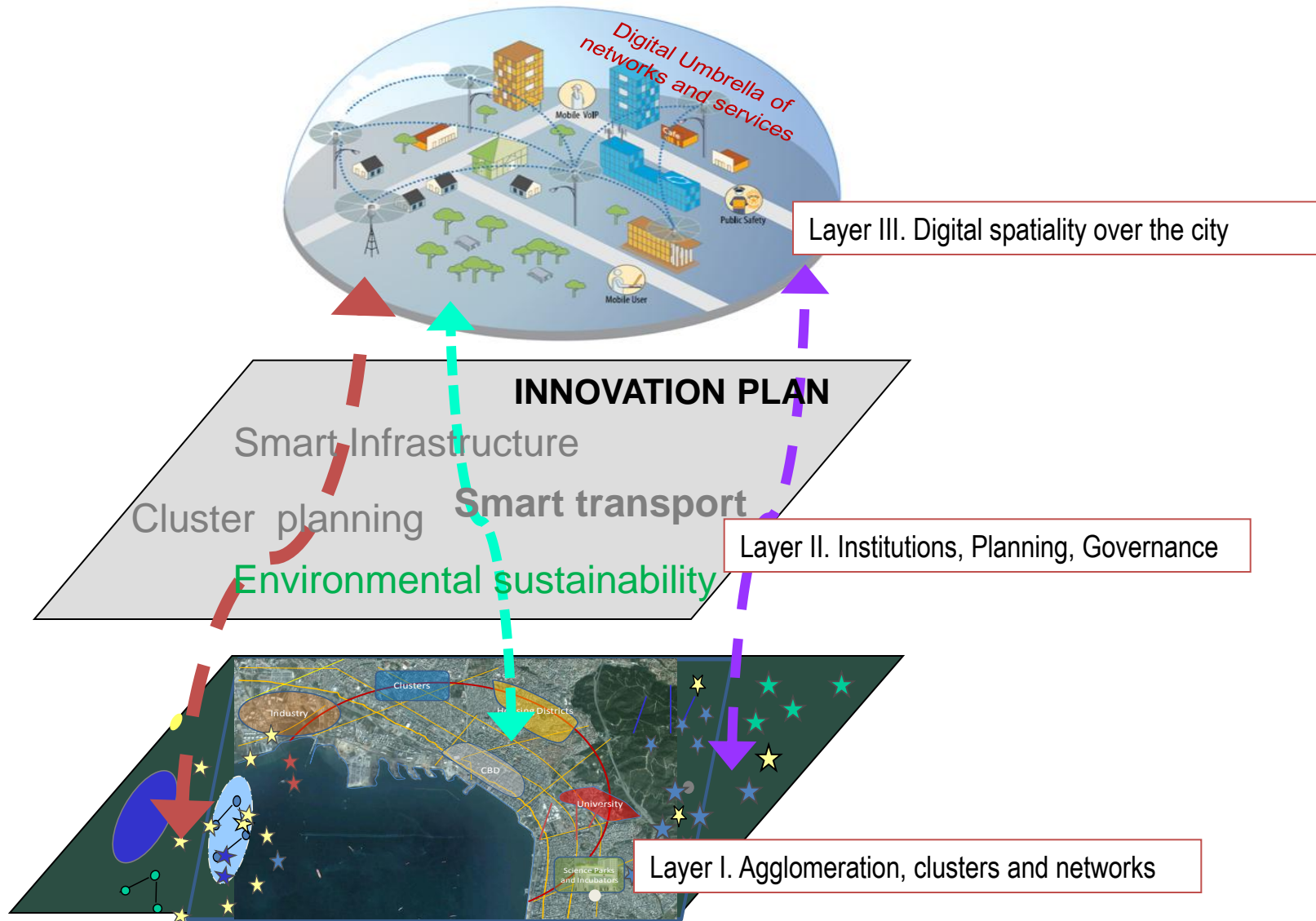
Driver 2: Digital spatiality / intelligence over the cities

Components: Network–Data technologies–Internet applications



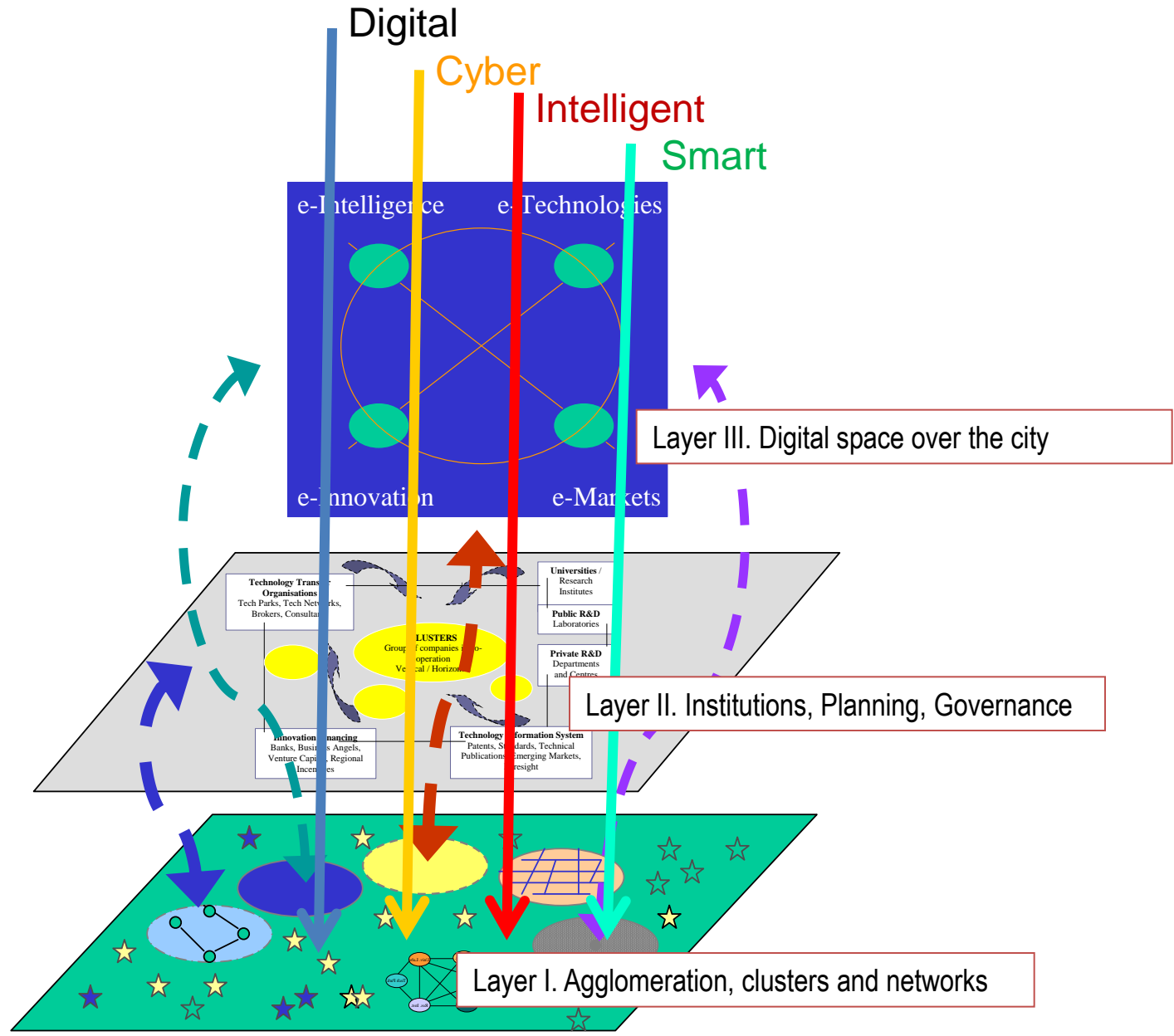
Intelligent city: City + innovation ecosystem + digital spatiality

A three layer system



A new family of concepts: Cyber - Digital - Intelligent – Smart cities

Differences in substance and function of layer III



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

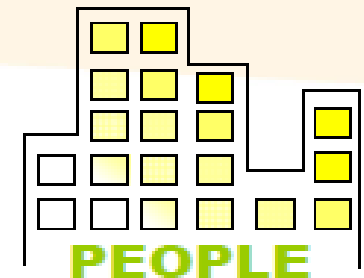
- 8- Government services to citizens
- 9- Decision making / participation / direct democracy
- 10- Monitoring & measurement: The city a database

2. The PEOPLE project

PILOT SMART URBAN ECOSYSTEMS LEVERAGING OPEN
INNOVATION FOR PROMOTING AND ENABLING E-SERVICES

PEOPLE

www.people-project.eu



Type of project

CIP-ICT-PSP-2009-4
Pilot Type B

Project coordinator

ANOVA IT Consulting

Contact person

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Avda. Punto Mobi 4
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Madrid
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Fax. +34 91 830 59 28
raul.delpozo@anovagroup.es

Project website

www.people-pilot.eu

[Anova IT Consulting, S.L. \(ES\)](#)

[ARIADNA SERVICIOS INFORMATICOS SL \(ES\)](#) ✕

[UNIVERSITE PARIS XII - VAL DE MARNE \(FR\)](#) ✕

[CITYPASSENGER SA \(FR\)](#)

[ANONYMI EMPORIKI ETAIREIA SYMVOULOIEPICHEIRISEON LOGOTECH AE \(GR\)](#)

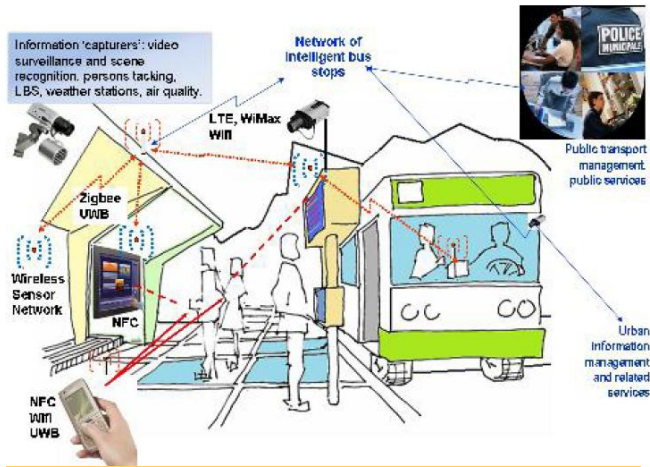
[MUNICIPALITY OF THERMI \(EL\)](#) ✕

[ARISTOTELIO PANEPISTIMIO THESSALONIKIS \(EL\)](#)

[UNIVERSITAET BREMEN \(DE\)](#) ✕



THE FOUR PILOTS



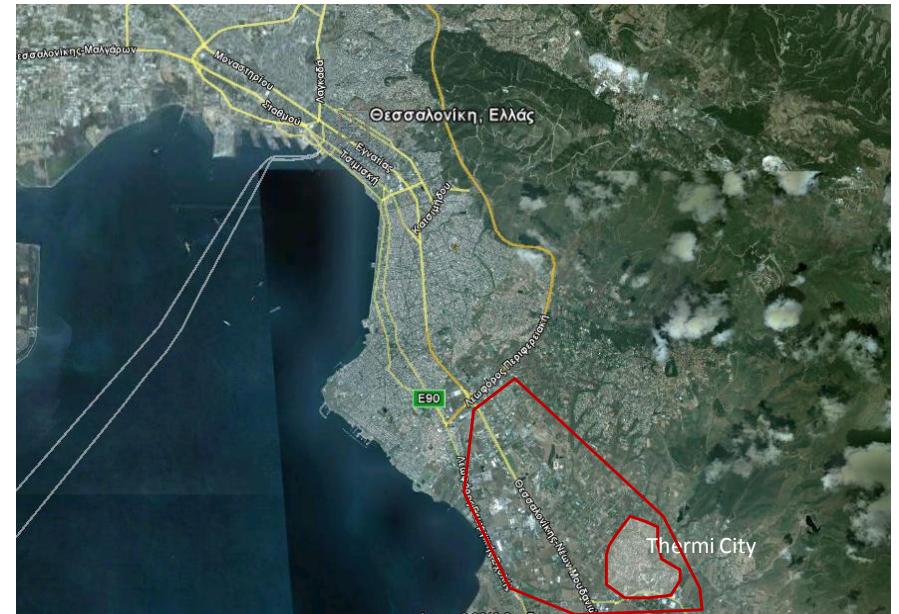
Vitry-sur-Seine, Paris, FR



Abando District, Bilbao, ES



Technology Park University of Bremen, GE



City of Thermi, Thessaloniki, GR

PEOPLE concept

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:



FIGURE 1: Pilot Structure

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.

INFRASTRUCTURE

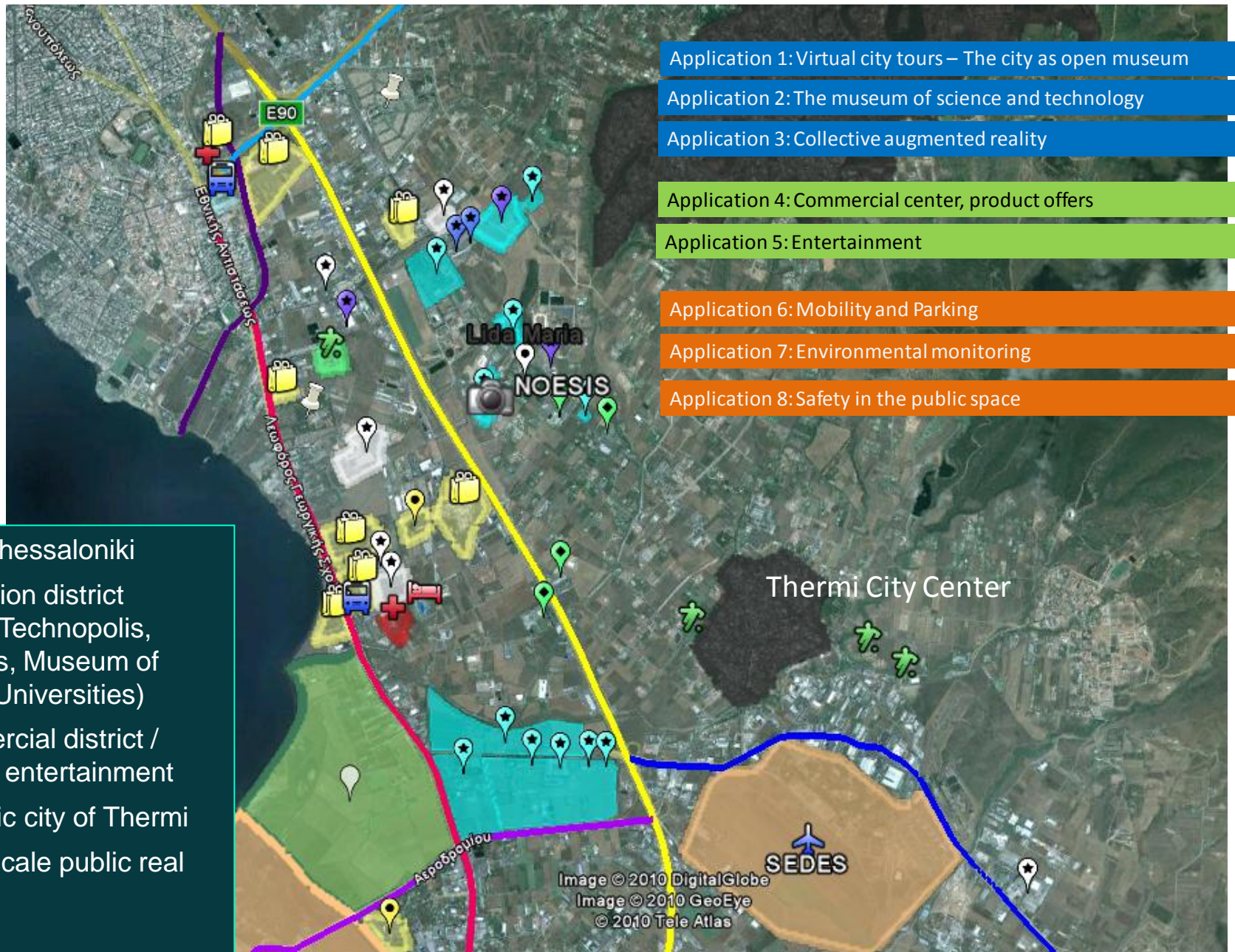
PEOPLE / ACTIVITIES

DIGITAL SPACES

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.

MONITORING

Thermi Pilot: Intelligent district



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

Guided tours
a virtual tour to the historical city center

the digital Corfu project | Managing body | contact

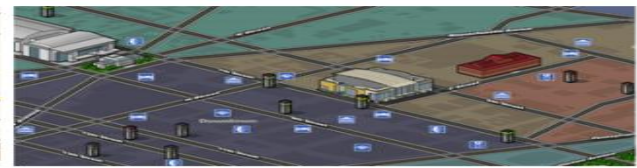
City & culture | Virtual city tour | Sight seeing | Day tours | Staying | Dining | Shopping | Having fun | Festivities | Public services | Arriving to Corfu | Yachting | Weather

and go to that location

bigger map window | bigger panorama

Use the buttons on the right, or drag the panorama to explore it.

The interface features a top navigation bar with a logo and a main menu. Below the menu is a 2D street map on the left and a 3D panoramic view of the city on the right. Both views include red location markers and navigation controls. The panoramic view shows a hillside with a classical building and a fortress in the distance.



Application 2: The museum of Science and Technology

MQ MuseumsQuartier Wien

→ Deutsch → English

Basic Information: → Français → Español → По-русски
→ Italiano → 日本語

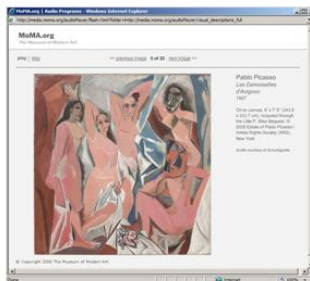
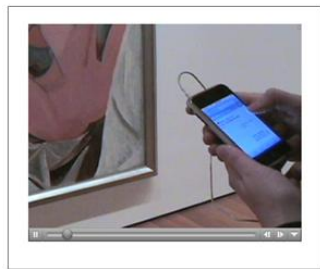
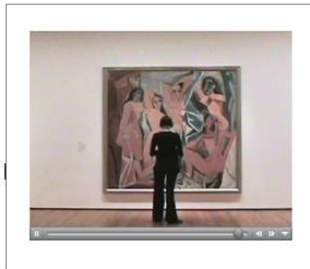
[text-only Version](#)

Schnellübersicht / Quick Overview

Alle Orte von A-Z | Kulturinstitutionen im MQ | Gastronomie und Shops | Öffnungszeiten und Eintrittspreise auf einen Blick | Anfahrt und Lage

Infrastruktur: ein aus - Klicken Sie die roten Punkte und Flächen für mehr Info - Zurück zur Liste

r.frischer
Kinderimbiss im MQ Hof 2/Försternhof. Spektakulöres Design, dieses Restaurant ist ein Einbruch der Diversität in verschiedensten...
Öffnungszeiten: täglich 11 - 22 U



Home | Tate Britain | Tate Modern | Tate Liverpool | Tate St Ives

Explore TATE MODERN

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Map | History | Artists | **My Tour** | About

Put together a personal tour of Tate Modern then print out a plan and bring it with you on your visit.

My Tour Help creating a tour

Register or login to create or view your personal tour. You cannot add works to a tour unless you are logged in.

USERNAME:

PASSWORD:

I do not have an account and would like to register.

I have forgotten my login details, please email me a reminder of my account details

EMAIL:

Opening art
Tate Modern Collection with UBS

Please note that details of works on display are regularly updated, but last minute changes do occur. If you are planning a visit to see a particular work, please contact the gallery's Information office.

Application 3: Collective augmented reality



Login
 Remember Me

Home







Name: IBM Smarter Cities
Home: New York, NY
Tags: 11 (11 Images)

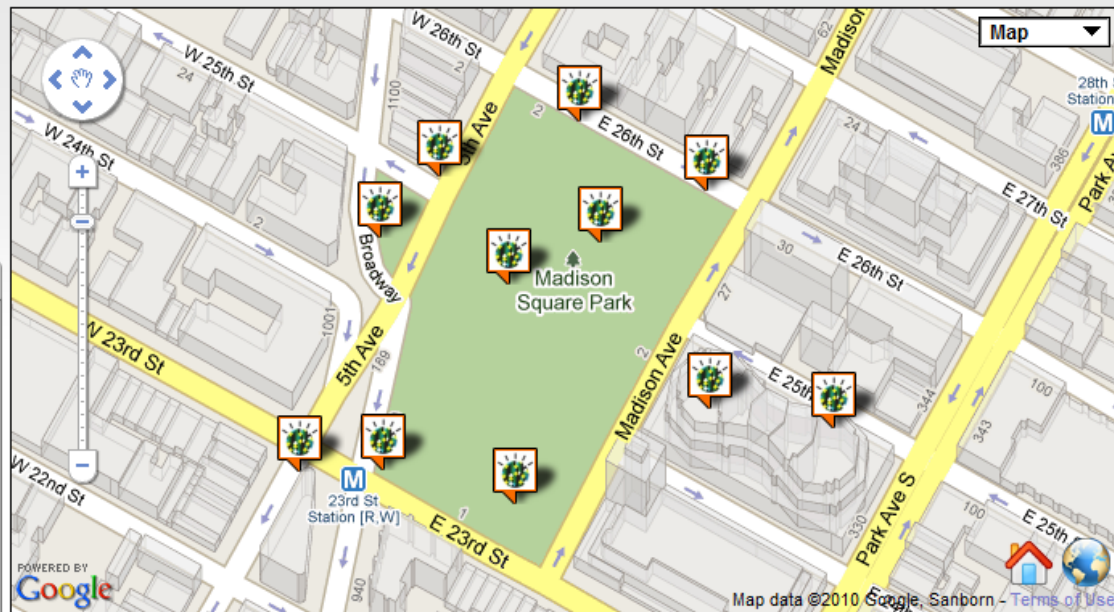
<http://smartercities.tumblr.com>

Let's build a planet of smarter cities -- and the Internet of Things -- together. Visit the Augmented Intelligent Reality (AIR) Project outside our NYC offices in Madison Sq. Park for a walking exhibit of how cities can become smarter

Updates

-  smartercities May 3 5:21AM
Cities Trap More Carbon Than Rain
Cities store more carbon in their trees, buildings, and dirt than do
Comments: 0
-  smartercities Apr 3 6:40AM
Data Show Best Corners to Hail a
The information, collected by GPS, can be used to create helpful tie-ins
Comments: 0
-  smartercities Apr 1 9:57AM
Smarter Water Management
Watch Video: <http://bit.ly/9XhjvD>
Scientists at IBM Research have
Comments: 0
-  smartercities Apr 1 7:37AM
CarParkingPlace: Easily Remember
Open this app (<http://bit.ly/bpYAtq>) on a mobile phone (Android, iPhone,
Comments: 0

You can create and share on-line or via mobile augmented reality just like smartercities does. Joining Tagwhat is free and easy.



Tagwhat is the world's first augmented reality creation and distribution system. Share your world and augment your reality.

Application 4: Commercial center, Virtual market place, product offers

RICERCA GUIDATA

Categoria Merceologica

abbigliamento donna ▶ VAI

Denominazione Negozio

Alberti ▶ VAI

RICERCA GEOGRAFICA

Via (Parma città)

Aff. Via ▶ VAI

Comune della Provincia

Bardi ▶ VAI



AGENCY
of Film
reation

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50% off.
Holiday
sale.

FEATURED ITEMS

FDNY
Hooded Sweatshirt
\$34.99
50% OFF!
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NYPD Kids
Embroidered
Wordmark
Crewneck
Sweatshirt
\$19.99
50% OFF!
[BUY NOW](#)

DSNY
Made In NY
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50% OFF!

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Daily Deals on the Best in **New York**

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\$8 [Buy!](#)

Value	Discount	You Save
\$17	53%	\$9

[Buy it for a friend!](#)

Time Left To Buy
1 day
20 hours
26 minutes

11 bought

The Fine Print
Expires 11/10/2010
Limit 1 per person, per visit. Tax &

Highlights

- Creation of Justin Timberlake and friends

Application 5: Entertainment, virtual guides, reservation

Belfast Visitor & Convention Bureau **BVCB** supported by **DIAGEO**

GotoBelfast.com
THE OFFICIAL TOURISM WEBSITE FOR BELFAST

Visit Belfast | Activities Belfast | Conventions Belfast | Capture Belfast | Goto Belfast | Gift Shop

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You're here: home > activities belfast > events

Activities Belfast

- Things to do
- Events
 - Summer Classes
 - Celebrate Belfast
 - Concerts
 - Traditional Music
 - Classical Music
 - Theatre
 - Musicals
 - Family Shows
 - Ballet
 - Opera
 - Comedy
 - Performing Arts
 - Dance
 - Festivals
 - Cinema / Film / Movies
 - Sports
 - Attractions
 - Children's / Family Events
 - Art Exhibitions
 - Other Exhibitions
 - Lectures, Walks & Workshops
 - Charity Fundraisers
- 5pm to late - evenings in Belfast
- Belfast's Top 10 things to do!
- Belfast and Beyond
- Sundays in Belfast

Events

One thing we are most certainly confident about in Belfast is our ability to have a good time, and here there are plenty of living establishments offering you the chance to join in. So whether you're planning your itinerary during your stay in Belfast, or simply want an up-to-date guide of what's on, then take advantage of this guide of events. It's updated regularly, and in some cases, you can even book your place on-line!

[Add your own event](#)

Featured Events

 BALMORAL SHOW Wednesday, 10 May 06 View Detail	 'The World Famous' Lipizzaner Stallions Friday, 16 Jun 06 View Detail
 Belfast Children's Festival Friday, 26 May 06 View Detail	 Lord Mayors Carnival Saturday, 27 May 06 View Detail
 SPECIAL OLYMPICS Wednesday, 21 Jun 06 View Detail	 James Blunt Monday, 26 Jun 06 View Detail

Application 6: Mobility (public means) and Parking



Great Savings! Book your airport parking and hotels through Park-up.com



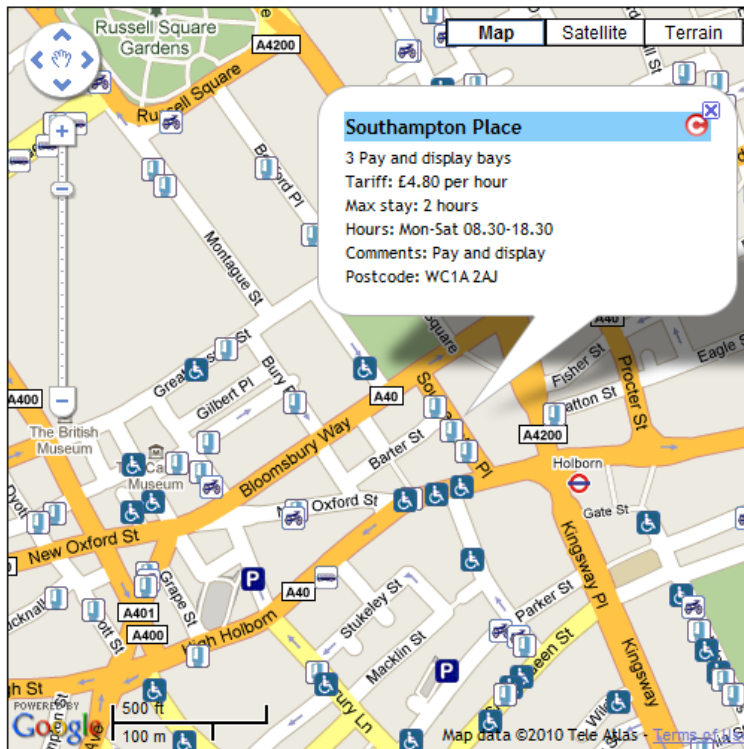


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 [New search](#)


fuel included.
insurance included.
congestion charge included.

hassle excluded.

▶ click here to sign up and get £50 in free driving.

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



Go to Camden parking website

Parking information
 Parking zone: CAC 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 charge: £200
 Cars will be clamped only in extreme cases. Tow-away charge: £70

Crime information
 Ward: 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



YOU CAN GET AN AUSTRALIAN PASSPORT!




CLICK HERE




Filter by type (click to select):

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 [Parking meters](#) |
 [Pay and display](#) |
 [Motorcycle parking](#) |
 [Car park](#) |
 [Disabled parking](#) |
 [Coach parking](#) |
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The London Air Quality Network



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You are on this page: Home

Air Quality in your area



To see current pollution levels in your area enter your postcode in the box below, or select your borough. Then choose the bulletin and press 'Show Air Pollution'.


Enter a postcode: ?
or
select an area: (choose on map)

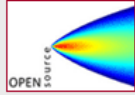

All of London

then

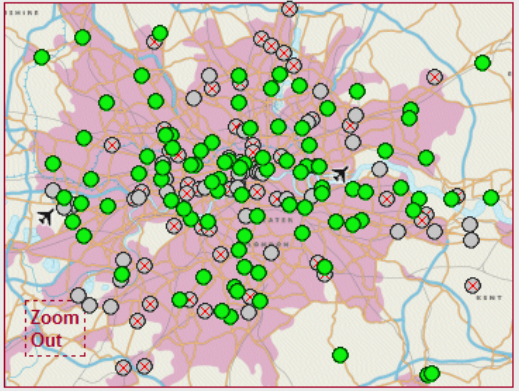
select a bulletin: **Now** ?

Show Air Pollution

 **London Air** on Facebook
Like 51

 **openair**  **iPhone app**

Welcome to the London Air Quality Network



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

● Low (1-3) ● Moderate (4-6) ● 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 web site 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.

Latest News

- The impact of airport closures on local air quality**
We have received many enquiries asking what the effects of the closure of UK airspace [more ...](#)
- Site Name Improvement Completion**
In September last year we began a process of cleaning up our site names and creating [more ...](#)
- Volcanic ash - Update Monday 19th April 2010**
Since the closure of UK airspace on Thursday staff in our operations centre at King's [more ...](#)

Quick Links

- [London Air iPhone app](#)
- [Twitter feed - London Air Now](#)
- [Twitter feed - London Air](#)
- [RSS News Feeds](#)
- [3D Modelling Maps](#)
- [External Links](#)
- [AQS Objectives](#)
- [About the LAQN](#)

Homeland Security and Emergency Management

HSEMA HOME

About HSEMA
How to Reach Us
Ask the Director
FOIA Requests
News Room
FAQs
Site Map
Performance

SERVICES

Alert DC
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
Reports
Extreme Weather
Street Closures
Voluntary Organizations
Frequently Requested FOIA Materials

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
- 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

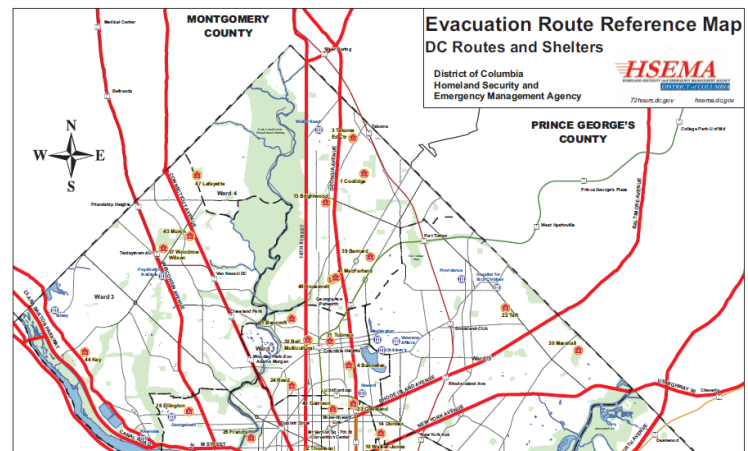
The Center will enable the Haitian Embassy to more effectively operate its relief efforts. [Full Text](#)

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

